

Dixon Valve & Coupling Company

DPPL413



The Right Connection™

2013 Price List

dixonvalve.com • Customer Service: 877.963.4966



The Right Connection



The Right Connection™

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King Crimp Fittings

NEW
FOR 2013



Male and female fittings, ferrules and crimp sleeves, combination nipples, couplers, frac fittings, coupling inserters, crimp machines

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Cam and Groove Fittings



Dixon, Boss-Lock, EZ Boss-Lock, swaged-on and phonograph finish, polypropylene, reducing couplers, adapters, gaskets, replacement handles, accessories, Strap-Grip

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Dry Disconnect Fittings



Dry disconnect fittings, dry gas, dry aviation, dry break, Flomax connectors, safety break away fittings

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Boss Fittings



Boss and EZ-Boss ground joint and washer type couplings, male and LP stems, Boss clamps, air hammer fittings, Boss Holedall fittings, steam quick disconnects, hammer unions, Dixon mining fittings

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Air Fittings, FRL's, Gauges



Manifolds, Air King universal couplings, King cable, Dix-Lock, Dual-Lock, Air Chief quick connects, air valves, blow guns, tube fittings and valves, FRL's, thermometers, gauges, hose racks & reels, safety check valves

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Shank / Water Fittings



Menders, nipples, suction couplings, foot valves, strainers, skimmers, long and short shank fittings, spray hose couplings, quick connects, inserts

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Garden Hose and Washdown

NEW
FOR 2013



Menders, nozzles, quick-connects, hose, swivels, hose barb fittings, forged valves, couplers, coil hose, screens

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Brass Fittings



Hose stations, nozzles, garden hose fittings, garden hose, shank fittings, ferrules, crimping tools, pressure gun and accessories, grease whip assemblies, push-on fittings, short shank fittings

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Clamps



Pinch-on, worm gear, band clamps, Strap-Grip, single and double bolt clamps, spiral clamps, T-bolt clamps, clamp kits, tools and accessories, spring hose clamps, thumb screw clamps, constant torque clamps

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Straight through's, Flo-Mate, flow control valves, high pressure ball valves, needle valves, hydraulic quick connects, return line fittings, plugs and caps, swivel adapters, hydraulic couplings, flat face fittings

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Rams, Holedall externally swaged fittings, flanged assemblies, notched fittings, Holedall internally expanded fittings, sanitary fittings, Holedall petroleum fittings, petroleum coupling expanders, API certified fittings

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Clamp fittings, 3A gaskets, weld fittings, bevel seat fittings, John Perry, Q-Line, and I-line fittings, buttweld fittings, tube O.D. fittings & hangers, ball valves, butterfly valves, check valves

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BioPharmaceutical Fittings (BPE)



High purity biopharm clamp and weld elbows, weld and reducing tees, clamp and weld eccentric and concentric reducers, end caps, weld caps and auto weld ferrules

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Fire Fittings



Flat Seal couplings, fire hose, reels, clappers, expansion ring couplings, wrenches, adapters, swivels, nipples, valves, thermoplastic, brass and aluminum nozzles, dry hydrants, Storz fittings, expanders

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Valves



Ball valves, locking ball valves, steam valves, mini valves, pneumatically actuated valves, non-metallic ball valves, strainers, gate valves, butterfly valves, air valves, globe valves, faucets

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Pipe and Welding Fittings



Weld end fittings, welding nipples, flanges, turned back fittings, NPT threaded fittings, nipples, sight flow indicators, grooved pipe fittings, Straub couplings

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Tank Truck



Tight and loose fill couplers and adapters, shank couplings, pipe caps, sight flow indicators, reducers and adapters for tank trucks, Bayco hose swivels, Bayco hose nozzles, rack cords, dry disconnects, nozzles

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Swivels and Rack Equipment



Swivels, safety break-away couplings, TTMA flange adapters, API coupler, API rack cords, flanged sight flow indicators, TTMA flange extensions, Type 35 loading arm swivel

S p.655

Maintenance and Repair



Thread tape, test pumps, coupling inserter, hose mallet, hose knife, hose jackets and guards, hose tags, tape, fiberglass sleeves

T p.667

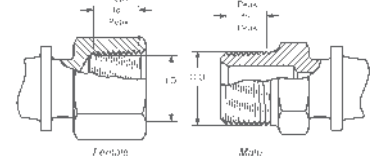
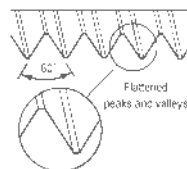
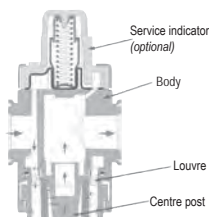
PTFE Hose and Fittings



Nominal fittings, true ID fittings, smooth bore PTFE conductive and non-conductive hose, open pitch convoluted hose, heavy wall true ID smooth bore hose

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Safety & Technical Information



Crimp recommendations, safety information, chemical and corrosion resistance, temperature information, size guide, steam and pressure conversion charts, fraction-decimal conversion chart, thread identification guide, dimensions, water data, pressure recommendations, troubleshooting, etc.

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The Right Connection™



Philadelphia Headquarters; circa 1920.



H.W. Goodall,
Founder; circa 1930



A BRIEF History

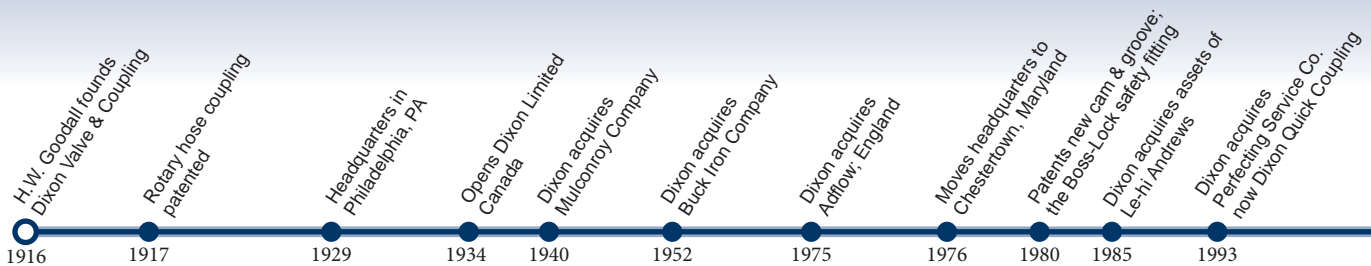
Founded 97 years ago in a small factory in Philadelphia, PA, Dixon has grown to become a national manufacturer and global supplier of hose coupling accessories - employing more than 1,000 people with distribution centers spread across four continents.

Although the company has grown into a thriving international business, Dixon remains committed to maintaining our small company culture of treating each customer with respect and fairness, where every transaction is significant.

Our goal is to be the easiest company you can do business with in our industry.



THE Dixon Timeline



established 1916



Dixon manufactured fuse plugs to support the WWII effort on a new six-spindle screw machine, the only one in the Philadelphia area at the time.



Trucks load parts at the Philadelphia factory; circa 1940.



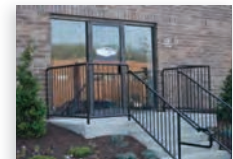
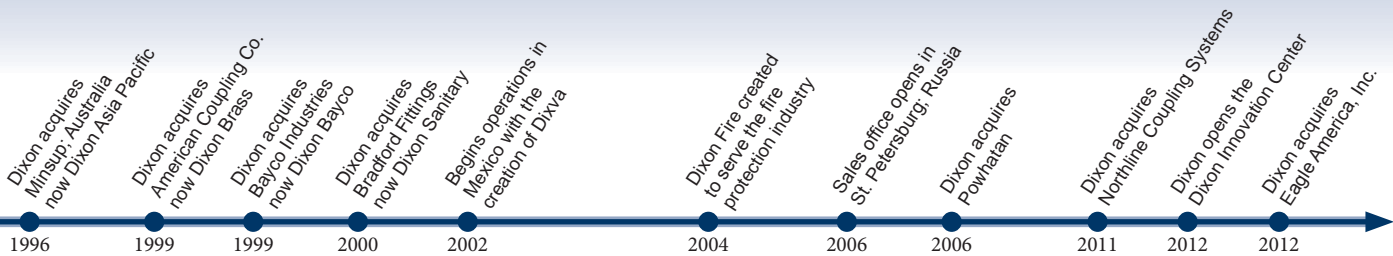
THE DIXON DRILLER

The first Dixon Driller was mailed in 1918 and, with two exceptions, has been mailed every month since.



The current Chestertown warehouse.

visit dixonvalve.com/dixon_history.html for more on our story!





The Right Connection™

SUPPORTING US Manufacturing



Using a lathe to machine a coupler at the Dixon Brass facility in Westmont, Illinois.



Operational in early 2013, Dixon Quick Coupling's new 100,000 square foot factory will support manufacturing as well as warehousing functions.



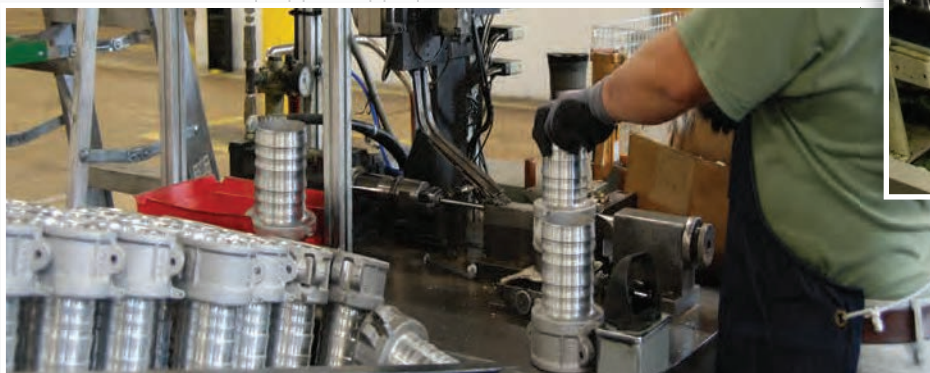
Hand-assembly of an F Series pneumatic coupler.



Machining hydraulic couplings at the Quick Coupling plant in Charlotte, North Carolina.



Attaching cam arms at the Chestertown, Maryland factory



established 1916



Drilling and measuring for consistent parts.



Casting parts at Dixon's Buck foundry in Pennsylvania.



*Dixon is committed to
reinvesting in and strengthening
American manufacturing.*



Precise manufacturing and rigorous testing
make Dixon a leader in the industry.



Air King couplers being machined into final products.



The Right Connection™

HANDS ON Training



Showing customers how to use the latest crimping technology.



Instructing how to properly install band clamps at a Hose Coupling Workshop in the Innovation Center.



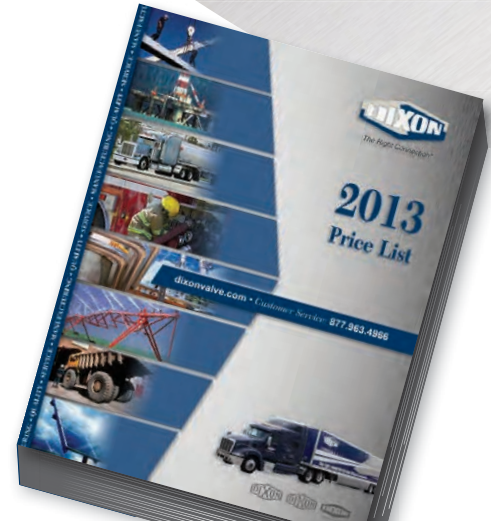
Dixon can also supply the Mobile Connections trailer, useful for on-site technical training when needed.



OUTSTANDING Service



Friendly staff - not machines, can take an order or answer any questions a customer may have about a product

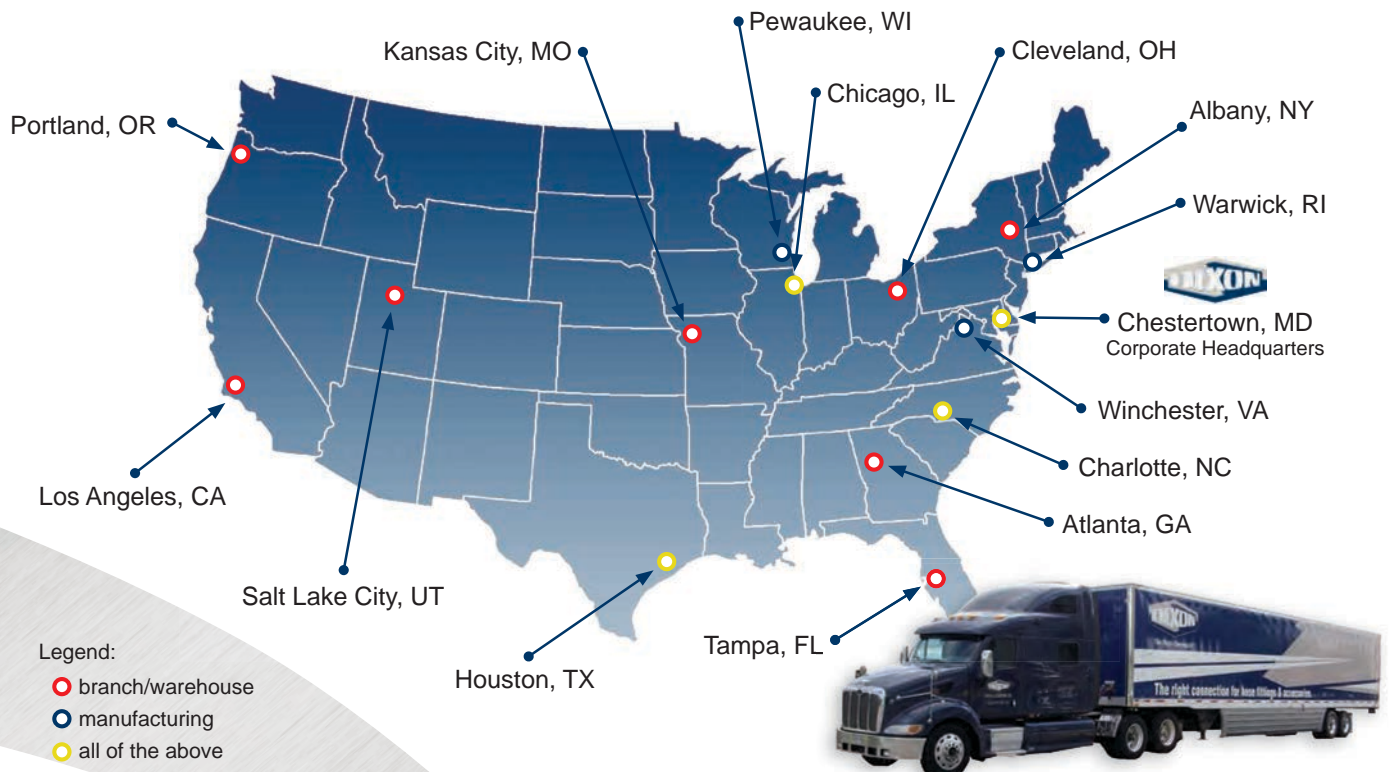


Current catalogs, literature and Boss magazine keep customers updated on new products, offers, and industry news



SAME DAY SHIPPING Next Day Delivery

US Dixon Locations





The Right Connection™

TAP INTO THE NEW Mobile App



for iPad® and iPhone®



for Android™ platforms

The Dixon app is available on Android™ as well as Apple devices, a valuable Dixon tool right at your fingertips!



dixonvalve.com

A growing and valuable online resource, here you can find:

- BOSS Magazine downloads
- Coupling workshop schedule
- Mobile app links
- Full DPL413 Catalog download
- Safety survey information
- Distributor login for pricing and availability
- Literature downloads
- Full product offerings
- Product spec sheets

and more!



Web Site



Customer Service



YouTube™





Failure to use these procedures can result in serious injury or death, and destruction of property and equipment.

Hose and Hose Coupling Safety

"The very properties that make compressed gases useful in almost every area of modern life can also make them dangerous when mishandled. Years of experience with compressed gases have led to practices and equipment which, if employed, result in complete safety."¹

Dixon hose couplings have been carefully engineered to meet specific requirements. If hose or couplings are not used in correct applications or are incorrectly applied, accidents and downtime can result. It is up to the end user to inform the distributor of the application and pressures involved when ordering hose assemblies and it is up to the distributor to supply the right hose and coupling for that application. When in doubt, Dixon is here to help you with a proper coupling recommendation.

1. Air hose couplings - This form of energy can be one of the most dangerous because it is used in so many applications and, when mishandled, can have more serious results than fluids. Air, as a gas, is compressible (fluids press only against hose or vessel walls and lose little volume under pressure). When pressurized air releases suddenly, it does so with explosive force and can cause rapid hose whip, which can do serious physical harm to personnel or damage to nearby objects. This is why the selection of proper hose and couplings for air lines is so important, along with their proper installation and maintenance. Never take for granted that a coupling is installed properly or a clamp fully tightened on an air hose - check it regularly and use safety devices (see paragraph 4).

2. Steam and gas - The same rules apply for steam and gas, but, because these are inherently more hazardous materials, personnel tend to treat hose and couplings on these lines with more respect and care. Checking clamp tightness is very important with steam hose, where it is not unusual for clamps to loosen in service, in which case they must be retightened! Safety devices should also be used (see paragraph 4).

3. Fluid hose couplings - Again, nothing should be taken for granted - in particular, check clamps for tightness each time the lines are used - especially when petroleum products or other hazardous liquids are involved. Large diameter hose, when suspended, can also be quite dangerous if it drops unexpectedly due to a coupling "pull-out" or sudden disconnection. A heavy fitting or clamp, plus the weight of the hose itself falling from any significant height, can cause injuries or damage. Be sure to use safety devices (see paragraph 4).

4. All hose assemblies - All hose assemblies should be treated with respect as potential hazards. Worn-out fittings should be replaced. Retaining devices such as clips, cables or chains should be used. Clamps should be checked regularly. Under no circumstances should any coupling be disconnected while under pressure, unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death, and destruction of property and equipment.

¹ "Handbook of Compressed Gases"

General Safety Information

Pressure Ratings

Pressure ratings for couplings, as stated in this catalog, are based upon ambient temperature (**70°F**) applications with true hose I.D., new Dixon supplied couplings, new Dixon supplied clamps, new quality hose, and proper installation by a qualified assembler using Dixon procedures and equipment. In addition, temperature can affect coupling retention. For temperatures other than ambient (**70°F**), contact the hose manufacturer or call Dixon at 800-355-1991.

Product Selection

Many of the products in this catalog are used in hose assemblies in a variety of applications. The safety of any hose assembly rests on the proper selection, installation, testing and use of each product. The safe use of any product in this catalog is dependent upon the correct selection of the hose, fittings and method of attachment. To ensure such a proper selection, the user must inform the distributor of the application and pressure involved when ordering hose assemblies. The use of S.T.A.M.P.E.D. (Size, Temperature, Application, Media, Pressure, Ends, Dixon) will help in the proper selection of hose assembly components (see page 682). The selection of couplings and clamping devices is the responsibility of the purchaser or user, based upon the hose manufacturer's recommendations. If the purchaser or user is uncertain about the use or application of a product, Dixon stands ready to provide information, including test results (if available), coupling and clamping recommendations and other data to help resolve those matters.

Installation

To achieve a safe and reliable assembly, proper installation procedures must be followed. Each component of the assembly has a part in determining these procedures. The purchaser or user must follow proper procedures. If the purchaser or user has any questions regarding installation, please contact Dixon.

Testing

Dixon recommends that all hose assemblies be tested in accordance with the hose manufacturer's recommendations.

Re-testing and Inspection

Dixon recommends inspection and re-testing of hose assemblies on a regular and consistent basis in accordance with the hose manufacturer's recommendations. The application determines the regularity of the inspection and re-testing schedule. Any worn-out fittings, damaged hoses or missing safety devices should be replaced immediately. Bolt-style clamps must be checked and retightened on a regular and consistent basis.

All hose assemblies should be viewed as potential hazards. This document is designed to inform and educate anyone who manufactures, specifies, supplies, purchases, assembles, uses, maintains or tests any hose assembly or its component parts. The proper selection and maintenance of hose, couplings, attachment devices and accessories is imperative.

It is the end user's responsibility to identify to the distributor the application and any special conditions that the hose assembly must meet. It is the distributor's responsibility to supply the proper assembly for the intended application. Accidents and downtime may occur if hose assemblies are not properly selected for the specific application.

The performance and safety of the assembly is affected by the quality of the individual components. The use of the acronym S.T.A.M.P.E.D. (Size, Temperature, Application, Media, Pressure, Ends, Dixon) will help in the proper selection of the hose assembly components (see page 682). If anyone is uncertain about the use or application of a product, Dixon can provide test results, coupling and clamping recommendations and other data to help resolve those matters. Call 800-355-1991 with any questions.

King Crimp Fittings



king crimp style heavy duty ferrules
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short sleeves and combination
nipples
page 18



frac fittings
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two-piece hammer union nut
page 21

Cam and Groove Fittings



witches hat strainers
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Dry Disconnect Fittings



safety break-away coupling
- marine version
page 72



safety break-away coupling
- industrial version
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coupler x 150 ASA flange
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2" diesel fuel nozzles and vents
page 84 and 85

Boss Fittings



dry disconnect fittings for steam service
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Air Fittings



button and tank filler valves
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instrumentation female branch and male run tees
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flareless bite fittings
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Brass Fittings



square head plug
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reusable fittings
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Clamps



marine grade worm gear
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VEP series
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SAE / JIC 37° fittings
pages 381 and 382



pipe and tube clamps
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Sanitary Fittings



holedall DIN external crimp stems
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sanitary pressure gauges
page 471



swivels
pages 472-473



304 stainless steel butterfly valves
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Fire Fittings



hydrant diffuser
page 493



heavy duty constant flow fog
nozzles
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Pokador nozzles
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Valves, Pipe & Welding, Tank Truck, and Swivels & Rack Equipment



ductile iron butterfly valve
page 603



grooved end iron butterfly valve
page 635



coaxial drop elbow replacement
fuel inlets
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static bonding and grounding
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TTMA flanged break-
away coupling
page 663

PTFE Hose & Fittings



continuous spring guard
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crimp collars
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King Crimp Style Domestic Cam and Groove



Only use the crimp style shanks with the crimp style sleeves and ferrules.
Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.

Dixon Type C Couplers

female coupler x hose shank

Features:

- Finger rings are not supplied on 1" Dixon couplings.
- All couplers are supplied with safety clips.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



Hose ID	356T6 Aluminum		Brass		316 Stainless Steel		Unplated Iron	
	Part #	Price	Part #	Price	Part #	Price	Part #	Price
1"	100-C-AL	\$25.00	100-C-BR	\$57.90	100-C-SS	\$79.30	---	---
1½"	150-C-AL	32.20	150-C-BR	80.70	150-C-SS	96.60	---	---
2"	200-C-AL	36.00	200-C-BR	99.85	200-C-SS	114.25	---	---
3"	300-C-AL	57.25	300-C-BR	185.00	300-C-SS	198.70	---	---
4"	400-C-AL	79.60	400-C-BR	230.00	400-C-SS	336.00	400-C-MI	\$112.20
6"	600-C-AL	184.70	600-C-BR	750.00	600-C-SS	522.00	600-C-MI	210.00

NEW

EZ Boss-Lock Type C Couplers

female coupler x hose shank

Features:

- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



Hose ID	316 Stainless Steel	
	Part #	Price
1"	RC100EZCR	\$110.80
1¼"	RC125EZCR	150.00
1½"	RC150EZCR	115.00
2"	RC200EZCR	125.50
3"	RC300EZCR	210.00
4"	RC400EZCR	315.00
6"	RC600EZCR	599.00



Under no circumstances should the EZ Boss-Lock cam arms be used on any fitting not specifically designed for their use. See pages 22 and 60 for further specifications.

Type E Adapters

male adapter x hose shank



Hose ID	356T6 Aluminum		Brass		316 Stainless Steel		Unplated Iron	
	Part #	Price	Part #	Price	Part #	Price	Part #	Price
1"	100-E-AL	\$13.25	100-E-BR	\$37.40	100-E-SS	\$51.00	---	---
1½"	150-E-AL	18.40	150-E-BR	57.75	150-E-SS	68.90	---	---
2"	200-E-AL	22.40	200-E-BR	79.90	200-E-SS	71.60	---	---
3"	300-E-AL	37.00	300-E-BR	134.70	300-E-SS	132.90	---	---
4"	400-E-AL	70.95	400-E-BR	235.00	400-E-SS	278.00	400-E-MI	\$86.35
6"	600-E-AL	142.70	600-E-BR	556.00	600-E-SS	538.00	600-E-MI	176.00

NEW



Pressure rating is based on the seal of the mating part. See ratings on page 23.

King Crimp Style Global Cam and Groove



Only use the crimp style shanks with the crimp style sleeves and ferrules.
Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.

Type C Couplers female coupler x hose shank

Features:

- All couplers are supplied with safety clips.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.

Size	A380 Permanent Mold Aluminum		ASTMC 3800 Forged Brass		316 Investment Cast Stainless	
	Part #	Price	Part #	Price	Part #	Price
1"	G100-C-ALCR	\$14.05	G100-C-BRCR	\$29.50	G100-C-SSCR	\$36.60
1½"	G150-C-ALCR	19.45	G150-C-BRCR	45.30	G150-C-SSCR	55.45
2"	G200-C-ALCR	22.95	G200-C-BRCR	58.50	G200-C-SSCR	77.40
3"	G300-C-ALCR	37.50	G300-C-BRCR	120.90	G300-C-SSCR	140.15
4"	G400-C-ALCR	51.85	G400-C-BRCR	167.70	G400-C-SSCR	181.70
6"	G600-C-ALCR NEW	137.00	---	---	G600-C-SSCR NEW	485.00



Type E Adapters male adapter x hose shank

Size	A380 Permanent Mold Aluminum		ASTMC 3800 Forged Brass		316 Investment Cast Stainless	
	Part #	Price	Part #	Price	Part #	Price
1"	G100-E-ALCR	\$7.55	G100-E-BRCR	\$22.00	G100-E-SSCR	\$28.40
1½"	G150-E-ALCR	11.45	G150-E-BRCR	36.00	G150-E-SSCR	44.95
2"	G200-E-ALCR	13.95	G200-E-BRCR	50.00	G200-E-SSCR	61.90
3"	G300-E-ALCR	23.45	G300-E-BRCR	105.20	G300-E-SSCR	117.95
4"	G400-E-ALCR	37.20	G400-E-BRCR	147.95	G400-E-SSCR	167.15
6"	G600-E-ALCR NEW	105.00	---	---	G600-E-SSCR NEW	465.00





King Crimp Style Sleeves



Only use the crimp style shanks with the crimp style sleeves and ferrules. Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.

Hose ID	Hose OD		Carbon Steel		304 Stainless Steel		Aluminum		Work. Pressure		Sleeve ID	Sleeve Wall Thick.	Sleeve Overall Length
	From	To	Part #	Price	Part #	Price	Part #	Price	cam & groove ¹	KC nipple ²			
1"	1 13/64	1 16/64	CS100-1CS	\$4.70	CS100-1SS	\$7.15	---	---	*	*	1.313	.062	2½"
	1 17/64	1 20/64	CS100-2CS	4.70	CS100-2SS	7.15	CS100-2AL	\$7.60	*	*	1.375	.062	2½"
	1 21/64	1 24/64	CS100-3CS	4.70	CS100-3SS	7.15	---	---	*	*	1.438	.062	2½"
	1 25/64	1 28/64	CS100-4CS	4.70	CS100-4SS	7.15	CS100-4AL	7.60	*	*	1.500	.062	2½"
	1 29/64	1 32/64	CS100-5CS	4.70	CS100-5SS	7.15	---	---	*	*	1.563	.062	2½"
	1 33/64	1 36/64	CS100-6CS	4.70	CS100-6SS	7.15	CS100-6AL	7.60	*	*	1.625	.062	2½"
	1 37/64	1 40/64	CS100-7CS	4.70	CS100-7SS	7.15	---	---	*	*	1.688	.062	2½"
	1 41/64	1 44/64	CS100-8CS	4.70	CS100-8SS	7.15	---	---	*	*	1.750	.062	2½"
	1 45/64	1 48/64	CS100-9CS	4.70	CS100-9SS	7.15	---	---	*	*	1.813	.062	2½"
	1 49/64	1 52/64	CS100-10CS	4.70	CS100-10SS	7.15	---	---	*	*	1.875	.062	2½"
NEW 1¼"	1 41/64	1 44/64	CS125-3CS	4.80	CS125-3SS	8.60	---	---	250	300	1.750	.060	2-5/8"
	1 45/64	1 48/64	CS125-4CS	4.80	CS125-4SS	8.60	---	---	250	300	1.813	.060	2-5/8"
	1 49/64	1 52/64	CS125-5CS	4.80	CS125-5SS	8.60	---	---	250	300	1.875	.060	2-5/8"
	1 53/64	1 56/64	CS125-6CS	4.80	CS125-6SS	8.60	---	---	250	300	1.938	.060	2-5/8"
1½"	1 41/64	1 44/64	CS150-1CS	4.85	CS150-1SS	8.50	---	---	250	300	1.750	.062	2½"
	1 45/64	1 48/64	CS150-2CS	4.85	CS150-2SS	8.50	---	---	250	300	1.813	.062	2½"
	1 49/64	1 52/64	CS150-3CS	4.85	CS150-3SS	8.50	CS150-3AL	10.00	250	300	1.875	.062	2½"
	1 53/64	1 56/64	CS150-4CS	4.85	CS150-4SS	8.50	---	---	250	300	1.938	.062	2½"
	1 57/64	1 60/64	CS150-5CS	4.85	CS150-5SS	8.50	---	---	250	300	2.000	.062	2½"
	1 61/64	2	CS150-6CS	4.85	CS150-6SS	8.50	---	---	250	300	2.063	.062	2½"
	2 1/64	2 4/64	CS150-7CS	4.85	CS150-7SS	8.50	CS150-7AL	10.00	250	300	2.125	.062	2½"
	2 5/64	2 8/64	CS150-8CS	4.85	CS150-8SS	8.50	---	---	250	300	2.188	.062	2½"
	2 9/64	2 12/64	CS150-9CS	4.85	CS150-9SS	8.50	---	---	250	300	2.250	.062	2½"
	2 13/64	2 16/64	CS150-10CS	4.85	CS150-10SS	8.50	---	---	250	300	2.313	.062	2½"
	2 17/64	2 20/64	CS150-11CS	4.85	CS150-11SS	8.50	---	---	250	300	2.375	.062	2½"
	2 21/64	2 24/64	CS150-12CS	4.85	CS150-12SS	8.50	---	---	250	300	2.438	.062	2½"
2"	2 13/64	2 16/64	CS200-1CS	5.70	CS200-1SS	11.75	---	---	250	250	2.313	.062	2-7/8"
	2 17/64	2 20/64	CS200-2CS	5.70	CS200-2SS	11.75	---	---	250	250	2.375	.062	2-7/8"
	2 21/64	2 24/64	CS200-3CS	5.70	CS200-3SS	11.75	---	---	250	250	2.438	.062	2-7/8"
	2 25/64	2 28/64	CS200-4CS	5.70	CS200-4SS	11.75	CS200-4AL	12.70	250	250	2.500	.062	2-7/8"
	2 29/64	2 32/64	CS200-5CS	5.70	CS200-5SS	11.75	---	---	250	250	2.563	.062	2-7/8"
	2 33/64	2 36/64	CS200-6CS	5.70	CS200-6SS	11.75	---	---	250	250	2.625	.062	2-7/8"
	2 37/64	2 40/64	CS200-7CS	5.70	CS200-7SS	11.75	---	---	250	250	2.688	.062	2-7/8"
	2 41/64	2 44/64	CS200-8CS	5.70	CS200-8SS	11.75	---	---	250	250	2.750	.062	2-7/8"
	2 45/64	2 48/64	CS200-9CS	5.70	CS200-9SS	11.75	---	---	250	250	2.813	.062	2-7/8"
	2 49/64	2 52/64	CS200-10CS	5.70	CS200-10SS	11.75	CS200-10AL	12.70	250	250	2.875	.062	2-7/8"
	2 53/64	2 56/64	CS200-11CS	5.70	CS200-11SS	11.75	---	---	250	250	2.938	.062	2-7/8"
	2 57/64	2 60/64	CS200-12CS	5.70	CS200-12SS	11.75	---	---	250	250	3.000	.062	2-7/8"

* consult factory for pressure rating

¹ based on using crimp cam and groove shanks

² based on using King combination nipples

King Crimp Style Sleeves



Only use the crimp style shanks with the crimp style sleeves and ferrules. Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.



Hose ID	Hose OD		Carbon Steel		304 Stainless Steel		Work. Pressure		Sleeve ID	Sleeve Wall Thickness	Sleeve Overall Length
	From	To	Part #	Price	Part #	Price	cam & groove ¹	KC nipple ²			
3"	3 13/64	3 16/64	CS300-1CS	\$10.05	CS300-1SS	\$17.05	125	200	3.313	.090	3 3/4"
	3 17/64	3 20/64	CS300-2CS	10.05	CS300-2SS	17.05	125	200	3.375	.090	3 3/4"
	3 21/64	3 24/64	CS300-3CS	10.05	CS300-3SS	17.05	125	200	3.438	.090	3 3/4"
	3 25/64	3 28/64	CS300-4CS	10.05	CS300-4SS	17.05	125	200	3.500	.090	3 3/4"
	3 29/64	3 32/64	CS300-5CS	10.05	CS300-5SS	17.05	125	200	3.563	.090	3 3/4"
	3 33/64	3 36/64	CS300-6CS	10.05	CS300-6SS	17.05	125	200	3.625	.090	3 3/4"
	3 37/64	3 40/64	CS300-7CS	10.05	CS300-7SS	17.05	125	200	3.688	.090	3 3/4"
	3 41/64	3 44/64	CS300-8CS	10.05	CS300-8SS	17.05	125	200	3.750	.090	3 3/4"
	3 45/64	3 48/64	CS300-9CS	10.05	CS300-9SS	17.05	125	200	3.813	.090	3 3/4"
	3 49/64	3 52/64	CS300-10CS	10.05	CS300-10SS	17.05	125	200	3.875	.090	3 3/4"
	3 53/64	3 56/64	CS300-11CS	10.05	CS300-11SS	17.05	125	200	3.938	.090	3 3/4"
	3 57/64	3 60/64	CS300-12CS	10.05	CS300-12SS	17.05	125	200	4.000	.090	3 3/4"
	3 61/64	4	CS300-13CS	10.05	CS300-13SS	17.05	125	200	4.063	.090	3 3/4"
	4 1/64	4 4/64	CS300-14CS	10.05	CS300-14SS	17.05	125	200	4.125	.090	3 3/4"
	4 5/64	4 8/64	CS300-15CS	10.05	CS300-15SS	17.05	125	200	4.188	.090	3 3/4"
	4 9/64	4 12/64	CS300-16CS	10.05	CS300-16SS	17.05	125	200	4.250	.090	3 3/4"
4"	4 13/64	4 16/64	CS400-1CS	13.55	CS400-1SS	28.35	110	175	4.313	.090	3 3/4"
	4 17/64	4 20/64	CS400-2CS	13.55	CS400-2SS	28.35	110	175	4.375	.090	3 3/4"
	4 21/64	4 24/64	CS400-3CS	13.55	CS400-3SS	28.35	110	175	4.438	.090	3 3/4"
	4 25/64	4 28/64	CS400-4CS	13.55	CS400-4SS	28.35	110	175	4.500	.090	3 3/4"
	4 29/64	4 32/64	CS400-5CS	13.55	CS400-5SS	28.35	110	175	4.563	.090	3 3/4"
	4 33/64	4 36/64	CS400-6CS	13.55	CS400-6SS	28.35	110	175	4.625	.090	3 3/4"
	4 37/64	4 40/64	CS400-7CS	13.55	CS400-7SS	28.35	110	175	4.688	.090	3 3/4"
	4 41/64	4 44/64	CS400-8CS	13.55	CS400-8SS	28.35	110	175	4.750	.090	3 3/4"
	4 45/64	4 48/64	CS400-9CS	13.55	CS400-9SS	28.35	110	175	4.813	.090	3 3/4"
	4 49/64	4 52/64	CS400-10CS	13.55	CS400-10SS	28.35	110	175	4.875	.090	3 3/4"
	4 53/64	4 56/64	CS400-11CS	13.55	CS400-11SS	28.35	110	175	4.938	.090	3 3/4"
	4 57/64	4 60/64	CS400-12CS	13.55	CS400-12SS	28.35	110	175	5.000	.090	3 3/4"
	4 61/64	5	CS400-13CS	13.55	CS400-13SS	28.35	110	175	5.063	.090	3 3/4"
	5 1/64	5 4/64	CS400-14CS	13.55	CS400-14SS	28.35	110	175	5.125	.090	3 3/4"
	5 5/64	5 8/64	CS400-15CS	13.55	CS400-15SS	28.35	110	175	5.188	.090	3 3/4"
	5 9/64	5 12/64	CS400-16CS	13.55	CS400-16SS	28.35	110	175	5.250	.090	3 3/4"
6"	6 21/64	6 28/64	CS600-1CS	37.90	CS600-1SS	72.75	*	*	6.500	.120	5 1/2"
	6 29/64	6 36/64	CS600-2CS	37.90	CS600-2SS	72.75	*	*	6.625	.120	5 1/2"
	6 37/64	6 44/64	CS600-3CS	37.90	CS600-3SS	72.75	*	*	6.750	.120	5 1/2"
	6 45/64	6 52/64	CS600-4CS	37.90	CS600-4SS	72.75	*	*	6.875	.120	5 1/2"
	6 53/64	6 60/64	CS600-5CS	37.90	CS600-5SS	72.75	*	*	7.000	.120	5 1/2"
	6 61/64	7 4/64	CS600-6CS	37.90	CS600-6SS	72.75	*	*	7.125	.120	5 1/2"
	7 5/64	7 12/64	CS600-7CS	37.90	CS600-7SS	72.75	*	*	7.250	.120	5 1/2"
	7 13/64	7 20/64	CS600-8CS	37.90	CS600-8SS	72.75	*	*	7.375	.120	5 1/2"
	7 21/64	7 28/64	CS600-9CS	37.90	CS600-9SS	72.75	*	*	7.500	.120	5 1/2"

* consult factory for pressure rating

¹ based on using crimp cam and groove shanks

² based on using King combination nipples

King Crimp Style Ferrules



Only use the crimp style shanks with the crimp style sleeves and ferrules. Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.

Hose ID	Hose OD		Carbon Steel		304 Stainless Steel		Work. Pressure		Ferrule ID	Ferrule Wall Thickness	Ferrule Overall Length
	From	To	Part #	Price	Part #	Price	cam & groove ¹	KC nipple ²			
1"	1 13/64	1 16/64	CF100-1CS	\$10.00	CF100-1SS	\$10.15	*	*	1.313	.062	2-13/16"
	1 17/64	1 20/64	CF100-2CS	10.00	CF100-2SS	10.15	*	*	1.375	.062	2-13/16"
	1 21/64	1 24/64	CF100-3CS	10.00	CF100-3SS	10.15	*	*	1.438	.062	2-13/16"
	1 25/64	1 28/64	CF100-4CS	10.00	CF100-4SS	10.15	*	*	1.500	.062	2-13/16"
	1 29/64	1 32/64	CF100-5CS	10.00	CF100-5SS	10.15	*	*	1.563	.062	2-13/16"
	1 33/64	1 36/64	CF100-6CS	10.00	CF100-6SS	10.15	*	*	1.625	.062	2-13/16"
	1 37/64	1 40/64	CF100-7CS	10.00	CF100-7SS	10.15	*	*	1.688	.062	2-13/16"
	1 41/64	1 44/64	CF100-8CS	10.00	CF100-8SS	10.15	*	*	1.750	.062	2-13/16"
	1 45/64	1 48/64	CF100-9CS	10.00	CF100-9SS	10.15	*	*	1.813	.062	2-13/16"
	1 49/64	1 52/64	CF100-10CS	10.00	CF100-10SS	10.15	*	*	1.875	.062	2-13/16"
NEW 1 1/4"	1 41/64	1 44/64	CF125-3CS	10.25	CF125-3SS	12.00	250	350	1.750	.060	2-13/16"
	1 45/64	1 48/64	CF125-4CS	10.25	CF125-4SS	12.00	250	350	1.813	.060	2-13/16"
	1 49/64	1 52/64	CF125-5CS	10.25	CF125-5SS	12.00	250	350	1.875	.060	2-13/16"
	1 53/64	1 56/64	CF125-6CS	10.25	CF125-6SS	12.00	250	350	1.938	.060	2-13/16"
1 1/2"	1 41/64	1 44/64	CF150-1CS	11.40	CF150-1SS	15.60	250	350	1.750	.062	2-13/16"
	1 45/64	1 48/64	CF150-2CS	11.40	CF150-2SS	15.60	250	350	1.813	.062	2-13/16"
	1 49/64	1 52/64	CF150-3CS	11.40	CF150-3SS	15.60	250	350	1.875	.062	2-13/16"
	1 53/64	1 56/64	CF150-4CS	11.40	CF150-4SS	15.60	250	350	1.938	.062	2-13/16"
	1 57/64	1 60/64	CF150-5CS	11.40	CF150-5SS	15.60	250	350	2.000	.062	2-13/16"
	1 61/64	2	CF150-6CS	11.40	CF150-6SS	15.60	250	350	2.063	.062	2-13/16"
	2 1/64	2 4/64	CF150-7CS	11.40	CF150-7SS	15.60	250	350	2.125	.062	2-13/16"
	2 5/64	2 8/64	CF150-8CS	11.40	CF150-8SS	15.60	250	350	2.188	.062	2-13/16"
	2 9/64	2 12/64	CF150-9CS	11.40	CF150-9SS	15.60	250	350	2.250	.062	2-13/16"
	2 13/64	2 16/64	CF150-10CS	11.40	CF150-10SS	15.60	250	350	2.313	.062	2-13/16"
	2 17/64	2 20/64	CF150-11CS	11.40	CF150-11SS	15.60	250	350	2.375	.062	2-13/16"
	2 21/64	2 24/64	CF150-12CS	11.40	CF150-12SS	15.60	250	350	2.438	.062	2-13/16"
2"	2 13/64	2 16/64	CF200-1CS	12.95	CF200-1SS	17.65	250	300	2.313	.062	3-1/8"
	2 17/64	2 20/64	CF200-2CS	12.95	CF200-2SS	17.65	250	300	2.375	.062	3-1/8"
	2 21/64	2 24/64	CF200-3CS	12.95	CF200-3SS	17.65	250	300	2.438	.062	3-1/8"
	2 25/64	2 28/64	CF200-4CS	12.95	CF200-4SS	17.65	250	300	2.500	.062	3-1/8"
	2 29/64	2 32/64	CF200-5CS	12.95	CF200-5SS	17.65	250	300	2.563	.062	3-1/8"
	2 33/64	2 36/64	CF200-6CS	12.95	CF200-6SS	17.65	250	300	2.625	.062	3-1/8"
	2 37/64	2 40/64	CF200-7CS	12.95	CF200-7SS	17.65	250	300	2.688	.062	3-1/8"
	2 41/64	2 44/64	CF200-8CS	12.95	CF200-8SS	17.65	250	300	2.750	.062	3-1/8"
	2 45/64	2 48/64	CF200-9CS	12.95	CF200-9SS	17.65	250	300	2.813	.062	3-1/8"
	2 49/64	2 52/64	CF200-10CS	12.95	CF200-10SS	17.65	250	300	2.875	.062	3-1/8"
	2 53/64	2 56/64	CF200-11CS	12.95	CF200-11SS	17.65	250	300	2.938	.062	3-1/8"
	2 57/64	2 60/64	CF200-12CS	12.95	CF200-12SS	17.65	250	300	3.000	.062	3-1/8"

* consult factory for pressure rating

¹ based on using crimp cam and groove shanks

² based on using King combination nipples

King Crimp Style Ferrules



Only use the crimp style shanks with the crimp style sleeves and ferrules. Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.



Hose ID	Hose OD		Carbon Steel		304 Stainless Steel		Work. Pressure		Ferrule ID	Ferrule Wall Thickness	Ferrule Overall Length
	From	To	Part #	Price	Part #	Price	cam & groove ¹	KC nipple ²			
3"	3 13/64	3 16/64	CF300-1CS	\$17.50	CF300-1SS	\$28.95	150	300	3.313	.090	4"
	3 17/64	3 20/64	CF300-2CS	17.50	CF300-2SS	28.95	150	300	3.375	.090	4"
	3 21/64	3 24/64	CF300-3CS	17.50	CF300-3SS	28.95	150	300	3.438	.090	4"
	3 25/64	3 28/64	CF300-4CS	17.50	CF300-4SS	28.95	150	300	3.500	.090	4"
	3 29/64	3 32/64	CF300-5CS	17.50	CF300-5SS	28.95	150	300	3.563	.090	4"
	3 33/64	3 36/64	CF300-6CS	17.50	CF300-6SS	28.95	150	300	3.625	.090	4"
	3 37/64	3 40/64	CF300-7CS	17.50	CF300-7SS	28.95	150	300	3.688	.090	4"
	3 41/64	3 44/64	CF300-8CS	17.50	CF300-8SS	28.95	150	300	3.750	.090	4"
	3 45/64	3 48/64	CF300-9CS	17.50	CF300-9SS	28.95	150	300	3.813	.090	4"
	3 49/64	3 52/64	CF300-10CS	17.50	CF300-10SS	28.95	150	300	3.875	.090	4"
	3 53/64	3 56/64	CF300-11CS	17.50	CF300-11SS	28.95	150	300	3.938	.090	4"
	3 57/64	3 60/64	CF300-12CS	17.50	CF300-12SS	28.95	150	300	4.000	.090	4"
	3 61/64	4	CF300-13CS	17.50	CF300-13SS	28.95	150	300	4.063	.090	4"
	4 1/64	4 4/64	CF300-14CS	17.50	CF300-14SS	28.95	150	300	4.125	.090	4"
	4 5/64	4 8/64	CF300-15CS	17.50	CF300-15SS	28.95	150	300	4.188	.090	4"
	4 9/64	4 12/64	CF300-16CS	17.50	CF300-16SS	28.95	150	300	4.250	.090	4"
4"	4 13/64	4 16/64	CF400-1CS	23.00	CF400-1SS	67.20	150	300	4.313	.090	4"
	4 17/64	4 20/64	CF400-2CS	23.00	CF400-2SS	67.20	150	300	4.375	.090	4"
	4 21/64	4 24/64	CF400-3CS	23.00	CF400-3SS	67.20	150	300	4.438	.090	4"
	4 25/64	4 28/64	CF400-4CS	23.00	CF400-4SS	67.20	150	300	4.500	.090	4"
	4 29/64	4 32/64	CF400-5CS	23.00	CF400-5SS	67.20	150	300	4.563	.090	4"
	4 33/64	4 36/64	CF400-6CS	23.00	CF400-6SS	67.20	150	300	4.625	.090	4"
	4 37/64	4 40/64	CF400-7CS	23.00	CF400-7SS	67.20	150	300	4.688	.090	4"
	4 41/64	4 44/64	CF400-8CS	23.00	CF400-8SS	67.20	150	300	4.750	.090	4"
	4 45/64	4 48/64	CF400-9CS	23.00	CF400-9SS	67.20	150	300	4.813	.090	4"
	4 49/64	4 52/64	CF400-10CS	23.00	CF400-10SS	67.20	150	300	4.875	.090	4"
	4 53/64	4 56/64	CF400-11CS	23.00	CF400-11SS	67.20	150	300	4.938	.090	4"
	4 57/64	4 60/64	CF400-12CS	23.00	CF400-12SS	67.20	150	300	5.000	.090	4"
	4 61/64	5	CF400-13CS	23.00	CF400-13SS	67.20	150	300	5.063	.090	4"
	5 1/64	5 4/64	CF400-14CS	23.00	CF400-14SS	67.20	150	300	5.125	.090	4"
	5 5/64	5 8/64	CF400-15CS	23.00	CF400-15SS	67.20	150	300	5.188	.090	4"
	5 9/64	5 12/64	CF400-16CS	23.00	CF400-16SS	67.20	150	300	5.250	.090	4"
6"	6 21/64	6 28/64	CF600-1CS	52.25	CF600-1SS	85.00	*	*	6.500	.120	5-7/8"
	6 29/64	6 36/64	CF600-2CS	52.25	CF600-2SS	85.00	*	*	6.625	.120	5-7/8"
	6 37/64	6 44/64	CF600-3CS	52.25	CF600-3SS	85.00	*	*	6.750	.120	5-7/8"
	6 45/64	6 52/64	CF600-4CS	52.25	CF600-4SS	85.00	*	*	6.875	.120	5-7/8"
	6 53/64	6 60/64	CF600-5CS	52.25	CF600-5SS	85.00	*	*	7.000	.120	5-7/8"
	6 61/64	7 4/64	CF600-6CS	52.25	CF600-6SS	85.00	*	*	7.125	.120	5-7/8"
	7 5/64	7 12/64	CF600-7CS	52.25	CF600-7SS	85.00	*	*	7.250	.120	5-7/8"
	7 13/64	7 20/64	CF600-8CS	52.25	CF600-8SS	85.00	*	*	7.375	.120	5-7/8"
	7 21/64	7 28/64	CF600-9CS	52.25	CF600-9SS	85.00	*	*	7.500	.120	5-7/8"

* consult factory for pressure rating

¹ based on using crimp cam and groove shanks

² based on using King combination nipples

NEW
FOR 2013

King Crimp Style Heavy Duty Ferrules



Only use the crimp style shanks with the crimp style sleeves and ferrules. Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.

- 400 PSI working pressure with a minimum 4:1 safety factor (*hose burst:hose working pressure*) is only achieved with Dixon carbon steel ferrule part numbers *CF400-6CSHD* through *CF400-16CSHD*.

Hose ID	Hose OD		Carbon Steel		Ferrule Wall Thickness	Ferrule ID	Ferrule Overall Length
	From	To	Heavy Duty (HD) Part #	Price			
4"	4-33/64	4-36/64	CF400-6CSHD	\$36.30	0.120	4.625	4"
	4-37/64	4-40/64	CF400-7CSHD	36.30	0.120	4.688	4"
	4-41/64	4-44/64	CF400-8CSHD	36.30	0.120	4.750	4"
	4-45/64	4-48/64	CF400-9CSHD	36.30	0.120	4.813	4"
	4-49/64	4-52/64	CF400-10CSHD	36.30	0.120	4.875	4"
	4-53/64	4-56/64	CF400-11CSHD	36.30	0.120	4.938	4"
	4-57/64	4-60/64	CF400-12CSHD	36.30	0.120	5.000	4"
	4-61/64	5	CF400-13CSHD	36.30	0.120	5.063	4"
	5-1/64	5-4/64	CF400-14CSHD	36.30	0.120	5.125	4"
	5-5/64	5-8/64	CF400-15CSHD	36.30	0.120	5.188	4"
	5-9/64	5-12/64	CF400-16CSHD	36.30	0.120	5.250	4"

NEW
FOR 2013

King Crimp Style Short Sleeves and Combination Nipples

NPT Threaded End



Size	Schedule 40 Plated Carbon Steel	
	Part #	Price
8"	STC80CS	\$158.00

Grooved End

Size	Schedule 40 Plated Carbon Steel	
	Part #	Price
8"	STV80CS	\$158.00

NEW
FOR 2013

King Crimp Style Short Sleeves



Hose ID	Hose OD		Carbon Steel		Work. Pressure KC nipple	Sleeve ID	Sleeve Wall Thickness	Sleeve Overall Length
	From	To	Part #	Price				
8"	8-16/64"	8-56/64"	S900X400X120CS	\$67.00	50	9.00	0.120	4"
	9"	9-8/64"	S925X400X120CS	67.00	50	9.25	0.120	4"

- consult factory for additional sleeve sizes

King Crimp Style King Combination Nipples



Only use the crimp style shanks with the crimp style sleeves and ferrules.
Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products.

Features:

- There are two grooves on the crimp style King Combination nipples. The second groove is the roll stamp groove which has the part number and 'call Dixon' stamped on it. This groove is a smooth concentric groove so that the stamp can be legible.

NPT Threaded End

Hose ID	Schedule 80 Plated Carbon Steel		316 Stainless Steel	
	Part #	Price	Part #	Price
1"	STC10CS	\$21.20	RST10CS	\$34.40
1¼"	STC15CS NEW	23.20	RST15CS NEW	48.00
1½"	STC20CS	22.70	RST20CS	51.50
2"	STC25CS	27.00	RST25CS	63.70
3"	STC35CS	51.50	RST35CS	136.35
4"	STC40CS	63.65	RST40CS	201.50
6"	STC60CS	134.85	RST60CS	745.00



Grooved End

Hose ID	Schedule 80 Plated Carbon Steel		316 Stainless Steel	
	Part #	Price	Part #	Price
1"	STV10CS	\$24.00	RSTV10CS	\$43.00
1½"	STV20CS	30.30	RSTV20CS	65.15
2"	STV25CS	36.35	RSTV25CS	80.30
3"	STV35CS	65.15	RSTV35CS	190.90
4"	STV40CS	78.80	RSTV40CS	250.75
6"	STV60CS	162.00	RSTV60CS	770.00



Beveled End

Hose ID	Schedule 80 Carbon Steel		316 Stainless Steel	
	Part #	Price	Part #	Price
1"	STB10CS	\$23.00	RSTB10CS	\$43.00
1½"	STB20CS	23.00	RSTB20CS	53.00
2"	STB25CS	27.30	RSTB25CS	79.00
3"	STB35CS	48.50	RSTB35CS	189.00
4"	STB40CS	61.35	RSTB40CS	250.00
6"	STB60CS	134.00	RSTB60CS	740.00



150# ASA Flanged

Size	Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	FST20CS	\$98.00	RFST20CS	\$280.00
2"	FST25CS	98.00	RFST25CS	310.00
3"	FST35CS	142.00	RFST35CS	480.00
4"	FST40CS	182.20	RFST40CS	655.00
6"	FST60CS	310.00	RFST60CS	1165.00



NEW
FOR 2013

Dixon Frac Fittings



female



male



male NPT



wing nut

Application:

- used in the fast paced transfer of water and sand slurry to a hydraulic fracturing site

Features:

- one-piece design eliminates leak path experienced with two-piece threaded systems
- interchangeable with current fittings; phase them into your current operation
- long lasting and dependable hammer nut is forged to ASTM 105N standards
- machined malleable iron stems to ASTM A47 standard
- durable and safe with reliable hose retention when crimped as specified
- 400 PSI working pressure at 70°F ^{1,2}
- all stems zinc plated



¹ 400 PSI working pressure with a minimum 4:1 safety factor (*hose burst:hose working pressure*) is only achieved with Dixon carbon steel ferrule part numbers *CF400-6CSDH* through *CF400-16CSDH* on page 18.

² When assembling hose with abrasion resistant covers, such as UHMW polyethylene, you will need to use Dixon's heavy duty (HD) carbon steel ferrule part numbers *CF400-6CSDH* through *CF400-16CSDH* on page 18. Other size HD ferrules are available upon request.

Note: Water and petroleum transfer hoses rated from 100 to 300 PSI WP (4:1 SF) have excellent test results with the standard King Crimp ferrules *CF400-xxCS* on page 17.

- Additional sizes available soon.

206 Series

Size	Description	Part #	Price/E
4"	complete assembly	HUMF206400CS	\$470.00
	female frac fitting	HUF206400CS	180.00
	male frac fitting (includes nut and O-ring)	HUM206400CS	290.00
	male NPT fitting	STC40CSDH	74.00
	wing nut (forged)	HU206400N	108.00
	O-ring (Buna-N)	O347BU	1.35

Dixon Two-Piece Hammer Union Nut

NEW
FOR 2013

Features:

- 4 hammer lug design; enables more surface area to hammer
- repair nut that is pinned and bolted for perfect alignment
- nut can be installed without re-welding or re-assembly
- nut forged to ASTM 105N standards
- 4" Fig. 200/206 nut is interchangeable with all major brands
- 8" Fig. 100/200/206 nut is interchangeable with all major brands
- available in other hammer union series and sizes, consult the factory

Note: Dixon recommends using Loctite® Threadlocker Red 271™ when bolting together two-piece hammer union nuts to ensure that bolts do not loosen when in service. Option two is to weld the seams of the split nut. Bolt torque recommendation is 60 foot pounds.



Size	Description	Part #	Price
4"	split nut figure 200/206, blue	HU200400RN	\$124.25
8"	split nut figure 100, black	HU100800RN	277.00
8"	split nut figure 200/206, blue	HU200800RN	277.00

Hammer Unions

100 Series

Features:

- used on low pressure manifolds and lines and in applications running air, water, oil or gas up to 1,000 PSI NSCWP (non-shock cold working pressure)
- yellow sub, black nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
4"	threaded 100 series	1000	HU100400	\$209.45



200 Series

Features:

- used in general service applications running air, water, oil or gas up to 2,000 PSI NSCWP (non-shock cold working pressure)
- grey sub, blue nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
4"	threaded 200 series	2000	HU200400	\$271.80



206 Series

Features:

- O-ring mounted sub provides excellent sealing properties
- runs air, water, oil or gas up to 2,000 PSI NSCWP (non-shock cold working pressure)
- grey sub, blue nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
4"	threaded 206 series	2000	HU206400	\$250.00



Dixon

B



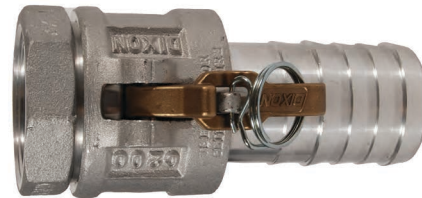
Features:

- precision machined to rigid tolerances
- durable stainless steel cam arm pins will not rust or bind, providing greater strength and safety
- recess holds gasket firmly in place - ensures proper placement
- long shank design allows proper banding, thus eliminating the major cause of hose damage

Boss-Lock

Features:

- The cast-in lugs allow safety clips to be attached once the lugs are passed through slots in the special cam lever arms providing a patented safety feature. The clips prevent the coupler from being unlocked until they are removed, providing a *positive locking action*.
- Boss-Lock investment stainless steel cam arms are guaranteed! Should you break a Boss-Lock investment stainless steel cam arm, return it to the nearest warehouse for a free replacement.
- The pull ring safety clip simplifies the locking action on Boss-Lock couplers. No more inserting clips or dangling lanyards, just a twist and it's locked, giving you a low profile positive locking action.



EZ Boss-Lock

Features:

- No more fumbling with clamps, wire, clips or pins, just close the handles and the locking mechanism is engaged.
- Extremely easy to open, the release lever is under your thumb when you want to open the fitting, ergonomic.
- Resistant to accidental disconnection when being dragged. The release lever opens in the direction opposite to the cam arm, so movements that tend to open the release lever also tend to close the cam arm.
- If the rotating lever is not flush with the handle, it is not properly engaged.
- no sliding pins to jam or pop open
- rotating action helps keep the locking device free of debris
- designed to protect critical parts from impact and to withstand rugged use
- The EZ Boss-Lock can be supplied with special shanks custom suited to your needs and is also available with swaged and PF shank designs for hard to couple chemical hoses.
- assemblies are made of investment cast stainless steel with plated carbon steel pull rings
- easy to insert into the hose tubes on tank trucks and easy to use in restricted spaces due to the smaller maximum OD and a more snag free exterior
- assemblies can be retrofitted onto undamaged stainless steel Boss-Lock allowing you to protect your investment in stainless steel Boss-Lock couplings while you upgrade.
- Made in the USA.



King Crimp System Cam & Groove



Dixon Type C
domestic coupler



EZ Boss-Lock Type C
domestic coupler



Type C
global coupler



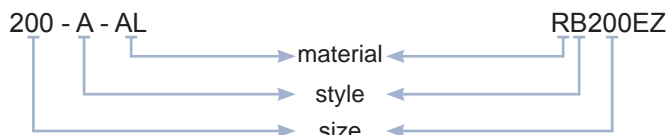
Type E
domestic adapter



Type E
global adapter

- For a complete listing of the King Crimp System products, including Cam and Groove fittings, please reference pages 12-21.

Ordering System



Operation of Cam and Groove

- To make connection, simply slide the adapter into the coupler and with normal hand pressure, press the cam levers down.
- Uncoupling is as quick and simple as coupling. Just lift the cam arms and remove the adapter.


Size represents the coupler or adapter and hose or pipe end. (i.e. 200 = 2") If the coupling is a reducing size, the coupler or adapter is the first size. (i.e. 4030-C is 4" coupler to 3" hose shank).

Specifications on Dixon Cam and Groove

Specifications:

- Dixon, Boss-Lock and EZ Boss-Lock cam and groove couplers and adapters are produced to interchange with all product produced to Commercial Item Description A-A-59326D.
- No standard exists for the $\frac{1}{2}$ " and 8" fittings, and generally these sizes do not interchange with other manufacturers.
- Dust caps and dust plugs are **not** to be used in pressure applications for safety and environmental reasons.
- Designed for use with liquids*, consult Dixon for specific recommendations.

Pressure Ratings:

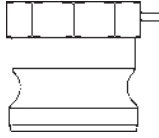
 Recommendations based on the use of mating Dixon fittings at ambient temperature (**70°F**) with standard Buna-N Seal installed. For use at elevated temperature or other unusual operating conditions, consult the factory. Dixon, Boss-Lock and EZ Boss-Lock couplers and adapters maximum working pressure are as follows:

Size	$\frac{1}{2}$ "	$\frac{3}{4}$ " thru 2"	2 $\frac{1}{2}$ "	3"	4"	5" and 6"	8"
PSI	150	250	150	125	100	75	50

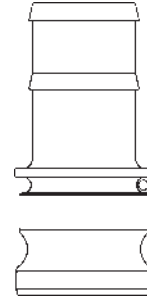
Cam and Groove Line Drawings

Line drawings are representative of the Dixon line of cam and groove.

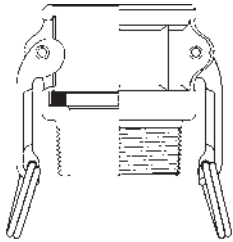
B



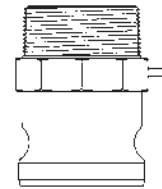
Type A
male adapter x female NPT



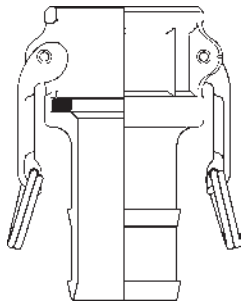
Type E
male adapter x hose shank



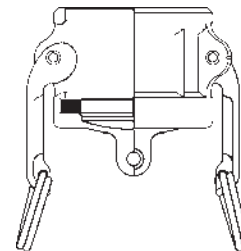
Type B
female coupler x male NPT



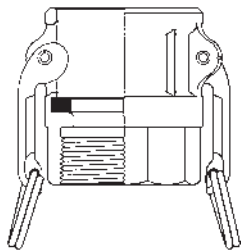
Type F
male adapter x male NPT



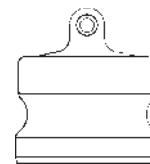
Type C
female coupler x hose shank



Type DC *
dust cap



Type D
female coupler x female NPT



Type DP *
dust plug



* Dust caps and dust plugs are **not** to be used in pressure applications for safety and environmental reasons.

WARNING

Under no circumstances should cam and groove couplings be used for compressed air or steam service!

Dixon / Boss-Lock Type A Adapters

female NPT x male adapter

B

Feature:

- Pressure rating is based on the seal of the mating part. See ratings on page 23.



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	50-A-AL ²	\$10.25	---	---	50-A-BR	\$17.70
3/4" x 1/2"	7550-A-AL ²	15.25	---	---	7550-A-BR	35.30
3/4"	75-A-AL ²	9.75	---	---	75-A-BR	22.00
1"	100-A-AL ²	12.20	---	---	100-A-BR	25.00
1 1/4"	125-A-AL	15.90	---	---	125-A-BR	41.25
1 1/2"	150-A-AL	17.00	150-A-ALH	\$30.30	150-A-BR	42.90
2"	200-A-AL	18.25	200-A-ALH	34.60	200-A-BR	54.00
2 1/2"	250-A-AL	27.95	---	---	250-A-BR	95.25
3"	300-A-AL	27.95	300-A-ALH	47.00	300-A-BR	109.00
4"	400-A-AL	62.80	400-A-ALH	97.00	400-A-BR	190.00
5"	500-A-AL	102.00	---	---	500-A-BR	298.90
6"	600-A-AL	122.80	600-A-ALH	188.00	600-A-BR	397.00
8" DIX	800-A-AL ¹	341.25	---	---	---	---
8" BL	801-A-AL ¹	357.95	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and 1/2" sizes.*

² made from 6061-T6 aluminum



unplated iron



plated iron



316 stainless

Size	Unplated Iron		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	---	---	---	---	50-A-SS	\$45.45
3/4" x 1/2"	---	---	---	---	7550-A-SS	67.70
3/4"	---	---	75-A-PM	\$16.40	75-A-SS	46.75
1"	---	---	100-A-PM	17.95	100-A-SS	49.40
1 1/4"	---	---	---	---	125-A-SS	61.30
1 1/2"	150-A-MI	\$25.10	150-A-PM	28.25	150-A-SS	59.40
2"	200-A-MI	31.20	200-A-PM	32.85	200-A-SS	63.00
2 1/2"	---	---	---	---	250-A-SS	198.75
3"	300-A-MI	50.80	300-A-PM	54.00	300-A-SS	120.00
4"	400-A-MI	82.00	400-A-PM	86.60	400-A-SS	222.00
5"	500-A-MI	173.25	---	---	500-A-SS	346.00
6"	---	---	600-A-PM	190.00	600-A-SS	384.80

Dixon Type B Couplers

female coupler x male NPT

B

Features:

- Finger rings are not supplied on ½" - 1" Dixon couplings.
- ½" Dixon coupler has only one cam arm.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	50-B-AL	\$24.80	---	---	50-B-BR	\$39.50
¾"	75-B-AL	25.00	---	---	75-B-BR	44.60
1"	100-B-AL	26.25	---	---	100-B-BR	49.75
1¼"	125-B-AL ²	41.20	---	---	---	---
1½"	150-B-AL	27.20	150-B-ALH	\$46.40	150-B-BR	76.25
2"	200-B-AL	35.10	200-B-ALH	54.00	200-B-BR	85.40
2½"	250-B-AL ²	63.50	---	---	---	---
3"	300-B-AL	56.25	300-B-ALH	81.30	300-B-BR	167.40
4"	400-B-AL	80.80	400-B-ALH	122.00	400-B-BR	228.00
5"	500-B-AL	140.90	---	---	---	---
6"	600-B-AL	186.80	600-B-ALH	267.00	---	---
8"	800-B-AL ^{1,3}	1030.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and ½" sizes.*

The 8" Andrew design has 4 cam arms, Dixon design has 2 cam arms.

² Parts are manufactured in Canada, replacement handles (part # CARP12BZ) are located on page 59.

³ Parts are produced as a welded fabrication.



unplated iron



316 stainless

Size	Unplated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
½"	---	---	50-B-SS	\$74.80
¾"	---	---	75-B-SS	73.40
1"	---	---	100-B-SS	81.00
1¼"	---	---	---	---
1½"	150-B-MI	\$57.95	150-B-SS	105.80
2"	200-B-MI	66.50	200-B-SS	119.60
2½"	---	---	250-B-SS	284.00
3"	300-B-MI	105.00	300-B-SS	225.00
4"	400-B-MI	150.30	400-B-SS	275.00
6"	---	---	600-B-SS	756.00

Boss-Lock Type B Couplers

female coupler x male NPT

B

Features:

- All Boss-Lock couplers are supplied with safety clips.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



brass



plated iron




316 stainless

Size	356T6 Aluminum		Brass		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4" x 1/2"	---	---	BB050	\$71.00	---	---	RB050BL	\$96.40
3/4"	---	---	BB075	69.00	---	---	RB075BL	91.30
1"	AB100	\$43.25	BB100	71.20	IB100	\$58.00	RB100BL	93.75
1 1/4"	AB125	48.10	BB125	85.80	---	---	RB125BL	127.00
1 1/2"	AB150	44.40	BB150	93.50	---	---	RB150BL	128.00
2"	AB200	44.25	BB200	110.80	IB200	78.50	RB200BL	136.25
2 1/2"	AB250	63.30	BB250	142.30	---	---	RB300BL	256.00
3"	AB300	75.25	BB300	205.00	---	---	RB400BL	296.00
4"	AB400	105.00	BB400	288.75	---	---	---	---
6"	AB600	275.00	---	---	---	---	---	---

EZ Boss-Lock Type B Couplers

female coupler x male NPT

Features:

- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.
-  Under no circumstances should the EZ Boss-Lock cam arms be used on any fitting not specifically designed for their use. See pages 22 and 60 for further specifications.



356T6 aluminum



brass



316 stainless

Size	356T6 Aluminum		Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4" x 1/2"	---	---	---	---	RB050EZ	\$116.95
3/4"	---	---	BB075EZ	\$94.00	RB075EZ	104.00
1"	AB100EZ	\$69.20	BB100EZ	116.00	RB100EZ	109.70
1 1/4"	---	---	BB125EZ	124.60	RB125EZ	142.10
1 1/2"	AB150EZ	79.75	BB150EZ	138.00	RB150EZ	143.65
2"	AB200EZ	81.30	BB200EZ	151.50	RB200EZ	157.00
3"	AB300EZ	120.75	BB300EZ	275.60	RB300EZ	272.95
4"	AB400EZ	152.50	BB400EZ	360.00	RB400EZ	320.00
6"	---	---	---	---	RB600EZ	595.30

Dixon Type C Couplers

female coupler x hose shank

B

Features:

- Finger rings are not supplied on ½" - 1" Dixon couplings.
- ½" Dixon coupler has only one cam arm.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	50-C-AL	\$20.85	---	---	50-C-BR	\$44.90
¾"	75-C-AL	24.00	---	---	75-C-BR	49.50
1"	100-C-AL	25.00	---	---	100-C-BR	57.90
1¼"	125-C-AL ²	56.00	---	---	125-C-BR ²	85.00
1½"	150-C-AL	32.20	150-C-ALH	\$44.70	150-C-BR	80.70
2"	200-C-AL	36.00	200-C-ALH	53.75	200-C-BR	99.85
2½"	250-C-AL ²	65.00	---	---	250-C-BR ²	131.00
3"	300-C-AL	57.25	300-C-ALH	83.70	300-C-BR	185.00
4"	400-C-AL	79.60	400-C-ALH	111.40	400-C-BR	230.00
5"	500-C-AL	123.85	---	---	---	---
6"	600-C-AL	184.70	600-C-ALH	251.00	600-C-BR	750.00
8"	800-C-AL ¹	757.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and ½" sizes.*

The 8" Andrew design has 4 cam arms, Dixon design has 2 cam arms.

² Parts are manufactured in Canada, replacement handles (part # CARP12BZ) are located on page 59.



unplated iron



316 stainless

Size	Unplated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
½"	---	---	50-C-SS	\$57.60
¾"	---	---	75-C-SS	69.10
1"	---	---	100-C-SS	79.30
1¼"	---	---	125-C-SS	130.00
1½"	150-C-MI	\$49.00	150-C-SS	96.60
2"	200-C-MI	52.50	200-C-SS	114.25
2½"	---	---	250-C-SS	275.00
3"	300-C-MI	87.00	300-C-SS	198.70
4"	400-C-MI ¹	112.20	400-C-SS	336.00
5"	---	---	500-C-SS	474.00
6"	600-C-MI ¹	210.00	600-C-SS	522.00

¹ Suitable for King Crimp sleeves and ferrules, see pages 14-18.

Boss-Lock Type C Couplers

female coupler x hose shank

Features:

- All Boss-Lock couplers are supplied with safety clips.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



brass



plated iron



316 stainless

Size	356T6 Aluminum		Brass		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾" x ½"	---	---	---	---	---	---	RC050BL	\$91.00
¾"	AC075	\$36.00	BC075	\$57.00	IC075	\$66.25	RC075BL	93.50
1"	AC100	37.30	BC100	70.00	IC100	52.80	RC100BL	97.20
1¼"	AC125	43.60	BC125	86.25	---	---	RC125BL	126.90
1½"	AC150	42.70	BC150	91.00	IC150	61.10	RC150BLNO	114.00
2"	AC200	46.10	BC200	105.90	IC200	82.80	RC200BLNO	116.80
2½"	AC250	55.10	BC250	161.90	---	---	---	---
3"	AC300	69.00	BC300	173.25	IC300	108.70	RC300BL	210.40
4"	AC400	94.80	BC400	303.00	IC400	150.00	RC400BLNO	297.00
6"	AC600	207.00	BC600	703.50	IC600	391.00	---	---
8"	AC800 ¹	568.00	---	---	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and ½" sizes*.
The 8" Andrew design has 4 cam arms, Dixon design has 2 cam arms.

EZ Boss-Lock Type C Couplers

female coupler x hose shank

Feature:

- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



brass



316 stainless

Size	356T6 Aluminum		Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾" x ½"	---	---	---	---	RC050EZ	\$107.00
¾"	AC075EZ	\$60.80	BC075EZ	\$108.70	RC075EZ	99.00
1"	AC100EZ	68.80	BC100EZ	112.00	RC100EZCR	110.80
1¼"	---	---	BC125EZ	160.00	RC125EZCR	150.00
1½"	AC150EZ	72.80	BC150EZ	127.40	RC150EZNO	113.75
2"	AC200EZ	78.40	BC200EZ	145.90	RC200EZNO	121.30
2½"	AC250EZ	89.25	---	---	---	---
3"	AC300EZ	114.40	BC300EZ	235.00	RC300EZCR	210.00
4"	AC400EZ	146.00	BC400EZ	340.00	RC400EZCR	315.00
6"	AC600EZ	324.00	---	---	RC600EZCR	599.00
8"	AC800EZ ¹	600.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and ½" sizes*.

The 8" Andrew design has 4 cam arms, Dixon design has 2 cam arms.

Under no circumstances should the EZ Boss-Lock cam arms be used on any fitting not specifically designed for their use.
See pages 22 and 60 for further specifications.

Dixon Type D Couplers

female coupler x female NPT

B

Features:

- Finger rings are not supplied on ½" - 1" Dixon couplings.
- ½" Dixon coupler has only one cam arm.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	50-D-AL	\$25.80	---	---	50-D-BR	\$38.70
¾"	75-D-AL	24.90	---	---	75-D-BR	49.00
1"	100-D-AL	25.70	---	---	100-D-BR	49.60
1¼"	125-D-AL ²	48.85	---	---	125-D-BR ²	87.70
1½"	150-D-AL	31.95	150-D-ALH	\$51.25	150-D-BR	71.00
2"	200-D-AL	35.50	200-D-ALH	59.00	200-D-BR	91.00
2½"	250-D-AL ²	62.00	---	---	250-D-BR ²	137.45
3"	300-D-AL	55.00	300-D-ALH	81.60	300-D-BR	159.00
4"	400-D-AL	77.90	400-D-ALH	125.00	400-D-BR	239.00
5"	500-D-AL	130.00	---	---	500-D-BR	462.00
6"	600-D-AL	177.00	600-D-ALH	260.00	600-D-BR	638.00
8"	800-D-AL ¹	777.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and ½" sizes*. The 8" Andrew design has 4 cam arms, Dixon design has 2 cam arms.

² Parts are manufactured in Canada, replacement handles (part # CARP12BZ) are located on page 59.



unplated iron



316 stainless

Size	Unplated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
½"	---	---	50-D-SS	\$70.60
¾"	---	---	75-D-SS	76.40
1"	---	---	100-D-SS	80.00
1¼"	---	---	125-D-SS	133.00
1½"	150-D-MI	\$54.40	150-D-SS	108.15
2"	200-D-MI	56.95	200-D-SS	117.70
2½"	---	---	250-D-SS	238.00
3"	300-D-MI	99.75	300-D-SS	219.30
4"	400-D-MI	124.50	400-D-SS	306.00
5"	500-D-MI	211.00	500-D-SS	535.00
6"	---	---	600-D-SS	620.00

Boss-Lock Type D Couplers

female coupler x female NPT

Features:

- All Boss-Lock couplers are supplied with safety clips.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



brass



plated iron



316 stainless

Size	356T6 Aluminum		Brass		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4" x 1/2"	AD050	\$46.40	BD050	\$59.00	---	---	RD050BL	\$102.50
3/4"	AD075	41.00	BD075	60.60	ID075	\$52.10	RD075BL	90.60
1"	AD100	39.20	BD100	66.50	ID100	55.30	RD100BL	92.20
1 1/4"	AD125	44.35	BD125	83.30	---	---	RD125BL	130.20
1 1/2"	AD150	43.00	BD150	82.00	ID150	65.00	RD150BL	119.40
2"	AD200	44.40	BD200	99.60	ID200	78.70	RD200BL	132.90
2 1/2"	AD250	65.50	BD250	166.00	---	---	---	---
3"	AD300	67.60	BD300	187.00	ID300	113.50	RD300BL	248.00
4"	AD400	87.85	BD400	251.50	ID400	129.50	RD400BL	323.00
5"	AD500	141.00	---	---	---	---	---	---
6"	AD600	224.80	BD600	632.00	ID600	418.00	---	---
8"	AD800 ¹	526.70	---	---	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and 1/2" sizes*. The 8" Andrew design has 4 cam arms, Dixon design has 2 cam arms.

EZ Boss-Lock Type D Couplers

female coupler x female NPT

Feature:

- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



brass



316 stainless

Size	356T6 Aluminum		Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4" x 1/2"	---	---	---	---	RD050EZ	\$121.50
3/4"	AD075EZ	\$67.25	BD075EZ	\$105.00	RD075EZ	106.50
1"	AD100EZ	70.55	BD100EZ	111.00	RD100EZ	107.20
1 1/4"	---	---	BD125EZ	138.00	RD125EZ	141.70
1 1/2"	AD150EZ	76.90	BD150EZ	123.00	RD150EZ	145.80
2"	AD200EZ	75.25	BD200EZ	143.50	RD200EZ	147.00
2 1/2"	AD250EZ	94.30	BD250EZ	195.00	---	---
3"	AD300EZ	120.10	BD300EZ	253.00	RD300EZ	278.00
4"	AD400EZ	138.20	BD400EZ	310.00	RD400EZ	337.60
5"	AD500EZ	205.00	---	---	---	---
6"	AD600EZ	327.00	---	---	RD600EZ	525.00
8"	AD800EZ ¹	536.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and 1/2" sizes*.

The 8" Andrew design has 4 cam arms, Dixon design has 2 cam arms.

Under no circumstances should the EZ Boss-Lock cam arms be used on any fitting not specifically designed for their use. See pages 22 and 60 for further specifications.

Dixon / Boss-Lock Type E Adapters

B

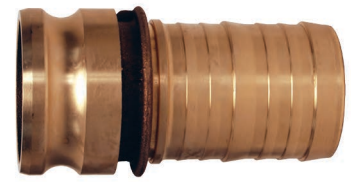
male adapter x hose shank



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	50-E-AL	\$14.75	---	---	50-E-BR	\$25.50
3/4" x 1/2"	7550-E-AL	13.00	---	---	---	---
3/4"	75-E-AL	11.95	---	---	75-E-BR	26.00
1"	100-E-AL	13.25	---	---	100-E-BR	37.40
1 1/4"	125-E-AL	17.50	---	---	125-E-BR	49.50
1 1/2"	150-E-AL	18.40	150-E-ALH	\$33.00	150-E-BR	57.75
2"	200-E-AL	22.40	200-E-ALH	39.30	200-E-BR	79.90
2 1/2"	250-E-AL	34.30	---	---	250-E-BR	117.50
3"	300-E-AL	37.00	300-E-ALH	60.75	300-E-BR	134.70
4"	400-E-AL	70.95	400-E-ALH	105.00	400-E-BR	235.00
5"	500-E-AL	107.00	---	---	---	---
6"	600-E-AL	142.70	600-E-ALH	204.00	600-E-BR	556.00
8" DIX	800-E-AL ¹	567.00	---	---	---	---
8" BL	801-E-AL ¹	584.50	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and 1/2" sizes.*
 • Pressure rating is based on the seal of the mating part. See ratings on page 23.

Dixon / Boss-Lock Type E Adapters

male adapter x hose shank



unplated iron



plated iron



316 stainless

Size	Unplated Iron		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	---	---	---	---	50-E-SS	\$46.35
3/4" x 1/2"	---	---	---	---	7550-E-SS	55.20
3/4"	---	---	75-E-PM	\$24.20	75-E-SS	49.20
1"	---	---	100-E-PM	27.30	100-E-SS	51.00
1 1/4"	---	---	125-E-PM	31.00	125-E-SS	72.10
1 1/2"	150-E-MI	\$30.25	150-E-PM	33.00	150-E-SS	68.90
2"	200-E-MI	39.10	200-E-PM	40.60	200-E-SS	71.60
2 1/2"	---	---	---	---	250-E-SS	195.75
3"	300-E-MI	53.20	300-E-PM	60.00	300-E-SS	132.90
4"	400-E-MI ¹	86.35	400-E-PM ¹	99.75	400-E-SS	278.00
5"	---	---	---	---	500-E-SS	420.00
6"	600-E-MI ¹	176.00	600-E-PM ¹	231.00	600-E-SS	538.00

¹ Suitable for King Crimp sleeves and ferrules, see pages 14-18.

Dixon / Boss-Lock Type F Adapters

male NPT x male adapter

B

- Pressure rating is based on the seal of the mating part. See ratings on page 23.



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	50-F-AL	\$10.50	---	---	50-F-BR	\$21.25
3/4" x 1/2"	7550-F-AL	24.00	---	---	7550-F-BR	51.00
3/4"	75-F-AL	11.85	---	---	75-F-BR	26.00
1"	100-F-AL	14.95	---	---	100-F-BR	33.70
1 1/4"	125-F-AL	17.70	---	---	125-F-BR	52.75
1 1/2"	150-F-AL	18.50	150-F-ALH	\$33.25	150-F-BR	44.70
2"	200-F-AL	21.10	200-F-ALH	38.30	200-F-BR	55.65
2 1/2"	250-F-AL	37.25	---	---	250-F-BR	128.00
3"	300-F-AL	38.25	300-F-ALH	62.90	300-F-BR	152.00
4"	400-F-AL	72.50	400-F-ALH	109.00	400-F-BR	213.00
5"	500-F-AL	133.00	---	---	---	---
6"	600-F-AL	149.00	600-F-ALH	220.45	600-F-BR	558.90
8" DIX	800-F-AL ¹	450.00	---	---	---	---
8" BL	801-F-AL ¹	445.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and 1/2" sizes.*



unplated iron



plated iron



316 stainless

Size	Unplated Iron		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	---	---	---	---	50-F-SS	\$48.40
3/4" x 1/2"	---	---	---	---	7550-F-SS	73.00
3/4"	---	---	75-F-PM	\$23.60	75-F-SS	55.30
1"	---	---	100-F-PM	22.00	100-F-SS	60.75
1 1/4"	---	---	---	---	125-F-SS	84.70
1 1/2"	150-F-MI	\$32.30	150-F-PM	35.25	150-F-SS	79.30
2"	200-F-MI	38.75	200-F-PM	42.00	200-F-SS	83.00
2 1/2"	---	---	---	---	250-F-SS	281.00
3"	300-F-MI	73.25	300-F-PM	74.40	300-F-SS	175.00
4"	400-F-MI	108.00	400-F-PM	113.20	400-F-SS	292.30
6"	---	---	600-F-PM	264.90	600-F-SS	415.80

Dixon Type DC Dust Caps

B

Features:

- Finger rings are not supplied on ½" - 1" Dixon couplings.
- ½" Dixon has only one cam arm.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	50-DC-AL	\$22.15	---	---	50-DC-BR	\$33.60
¾"	75-DC-AL	24.50	---	---	75-DC-BR	44.00
1"	100-DC-AL	24.25	---	---	100-DC-BR	52.00
1½"	150-DC-AL	31.00	150-DC-ALH	\$47.00	150-DC-BR	75.30
2"	200-DC-AL	30.20	200-DC-ALH	46.90	200-DC-BR	70.95
2½"	250-DC-AL ²	52.20	---	---	---	---
3"	300-DC-AL	41.10	300-DC-ALH	65.30	300-DC-BR	105.00
4"	400-DC-AL	54.00	400-DC-ALH	96.50	400-DC-BR	151.90
5"	500-DC-AL	86.40	---	---	500-DC-BR	325.00
6"	600-DC-AL	132.80	600-DC-ALH	205.00	---	---
8"	800-DC-AL ¹	534.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and ½" sizes.*
The 8" Dixon dust cap has 2 cam arms.

² Parts are manufactured in Canada, replacement handles (part # CARP12BZ) are located on page 59.



unplated iron



316 stainless

Size	Unplated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
½"	---	---	50-DC-SS	\$66.95
¾"	---	---	75-DC-SS	63.75
1"	---	---	100-DC-SS	71.50
1½"	---	---	150-DC-SS	89.00
2"	200-DC-MI	\$51.00	200-DC-SS	105.00
2½"	---	---	250-DC-SS	209.00
3"	300-DC-MI	67.20	300-DC-SS	133.00
4"	400-DC-MI	106.00	400-DC-SS	195.00
5"	---	---	500-DC-SS	415.00
6"	---	---	600-DC-SS	490.00



Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.

Boss-Lock Type H Dust Caps

B

Features:

- All Boss-Lock couplers are supplied with safety clips.
- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



brass



plated iron



316 stainless

Size	356T6 Aluminum		Brass		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	---	---	---	---	---	---	RH075BL	\$76.80
1"	AH100	\$38.25	BH100	\$67.10	---	---	RH100BL	81.95
1¼"	AH125	39.70	BH125	76.40	---	---	RH125BL	99.25
1½"	AH150	41.50	BH150	80.00	IH150	\$57.20	RH150BL	105.25
2"	AH200	41.75	BH200	105.00	IH200	67.75	RH200BL	122.95
2½"	AH250	45.25	BH250	123.00	---	---	---	---
3"	AH300	71.40	BH300	154.00	IH300	93.50	RH300BL	188.65
4"	AH400	79.00	BH400	205.00	IH400	120.60	RH400BL	224.00
6"	AH600	206.00	BH600	495.00	IH600	315.00	---	---
8"	AH800 ¹	438.80	---	---	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange in the 8" and ½" sizes*. The 8" Boss-Lock design has 2 cam arms.

EZ Boss-Lock Type H Dust Caps

Feature:

- Couplers are supplied standard with a Buna-N gasket. Other gasket types are available on pages 62-64.



356T6 aluminum



brass



316 stainless

Size	356T6 Aluminum		Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	---	---	---	---	RH075EZ	\$93.90
1"	AH100EZ	\$71.30	BH100EZ	\$114.00	RH100EZ	97.60
1¼"	---	---	---	---	RH125EZ	126.50
1½"	AH150EZ	72.00	BH150EZ	120.00	RH150EZ	126.30
2"	AH200EZ	72.80	BH200EZ	125.50	RH200EZ	143.45
2½"	AH250EZ	80.00	---	---	---	---
3"	AH300EZ	103.50	BH300EZ	244.00	RH300EZ	199.50
4"	AH400EZ	122.40	---	---	RH400EZ	245.00
6"	AH600EZ	260.00	---	---	RH600EZ	467.00



Under no circumstances should the EZ Boss-Lock cam arms be used on any fitting not specifically designed for their use. See pages 22 and 60 for further specifications.



Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.

Dixon / Boss-Lock Type DP Dust Plugs

B



356T6 aluminum



aluminum hard coat



brass

Size	356T6 Aluminum		Aluminum Hard Coat		Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	---	---	---	---	50-DP-BR	\$26.00
¾"	75-DP-AL	\$12.00	---	---	75-DP-BR	28.50
1"	100-DP-AL	13.75	---	---	100-DP-BR	24.25
1¼"	125-DP-AL	16.25	---	---	125-DP-BR	43.00
1½"	150-DP-AL	16.40	150-DP-ALH	\$32.25	150-DP-BR	47.70
2"	200-DP-AL	17.25	200-DP-ALH	34.10	200-DP-BR	49.00
2½"	250-DP-AL	24.70	---	---	---	---
3"	300-DP-AL	25.80	300-DP-ALH	47.00	300-DP-BR	76.60
4"	400-DP-AL	37.40	400-DP-ALH	68.60	400-DP-BR	166.00
5"	500-DP-AL	64.25	---	---	---	---
6"	600-DP-AL	81.75	600-DP-ALH	130.60	600-DP-BR	540.00
8" DIX	800-DP-AL ¹	355.00	---	---	---	---
8" BL	801-DP-AL ¹	361.00	---	---	---	---



¹ Dixon and Boss-Lock cam and groove couplings *do not interchange* in the 8" and ½" sizes.



unplated iron



plated iron



316 stainless

Size	Unplated Iron		Plated Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	---	---	---	---	50-DP-SS	\$40.60
¾"	---	---	---	---	75-DP-SS	42.40
1"	---	---	100-DP-PM	\$28.00	100-DP-SS	44.50
1¼"	---	---	125-DP-PM	30.00	125-DP-SS	47.80
1½"	150-DP-MI	\$25.00	150-DP-PM	25.75	150-DP-SS	56.90
2"	200-DP-MI	32.15	200-DP-PM	33.30	200-DP-SS	64.00
2½"	---	---	250-DP-PM	36.00	250-DP-SS	155.00
3"	300-DP-MI	41.10	300-DP-PM	44.80	300-DP-SS	102.70
4"	400-DP-MI	66.90	400-DP-PM	75.40	400-DP-SS	175.00
5"	---	---	---	---	---	---
6"	---	---	---	---	600-DP-SS	378.00



Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.

Hastelloy Adapters

Features:

- fittings are Hastelloy type CW-6M-C276
- couplers supplied with Viton® gaskets
- cam arms are 316 stainless steel
- pins are 302 stainless steel
- rings are yellow zinc plated 12 gauge steel wire



female NPT x male adapter



male NPT x male adapter



male adapter x hose shank

Type A
Type F
Type E

Size	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	<i>100-A-HA</i>	\$290.00	<i>100-F-HA</i>	\$235.00	<i>100-E-HA</i>	\$271.90
1½"	<i>150-A-HA</i>	360.00	<i>150-F-HA</i>	505.00	<i>150-E-HA</i>	345.00
2"	<i>200-A-HA</i>	397.00	<i>200-F-HA</i>	610.00	<i>200-E-HA</i>	435.00

Hastelloy Couplers



female coupler x hose shank



female coupler x female NPT



female coupler x male NPT

Type C
Type D
Type B

Size	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	<i>HAC100EZ</i>	\$460.00	<i>HAD100EZ</i>	\$492.00	<i>HAB100EZ</i>	\$420.40
1½"	<i>HAC150EZ</i>	540.00	<i>HAD150EZ</i>	615.00	<i>HAB150EZ</i>	525.40
2"	<i>HAC200EZ</i>	611.00	<i>HAD200EZ</i>	632.00	<i>HAB200EZ</i>	568.30

Dixon Reducing Cam and Groove Couplings

B



3" coupler x 1½" adapter



4" coupler x 6" adapter



3" coupler x 2½" adapter



5" coupler x 6" adapter

In reducing cam and groove couplings, the coupler is the first size in the part number; (i.e., a 4030-DA-AL is a 4" coupler to a 3" adapter).

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

coupler x adapter

Size	356T6 Aluminum		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E
1" x 1½"	1015-DA-AL ¹	\$158.00	---	1015-DA-SS ¹	\$309.00
1½" x 1"	1510DAAL	70.25	---	1510-DA-SS ¹	315.00
1½" x 2"	1520-DA-AL	85.90	10	1520-DA-SS	295.00
2" x 1"	2010-DA-AL ¹	157.00	---	2010-DA-SS	251.60
2" x 1½"	2015-DA-AL	61.00	10	2015-DA-SS	272.00
2" x 2½"	2025-DA-AL ¹	160.00	---	2025-DA-SS ¹	525.00
2" x 3"	2030-DA-AL	75.20	5	2030-DA-SS	291.70
2" x 4"	2040-DA-AL	119.00	---	2040-DA-SS ¹	495.00
2½" x 2"	---	---	---	2520-DA-SS ¹	540.00
2½" x 3"	---	---	---	2530-DA-SS ¹	640.25
3" x 1½"	3015-DA-AL	92.70	---	3015-DA-SS ¹	398.00
3" x 2"	3020-DA-AL	77.40	10	3020-DA-SS	285.30
3" x 2½"	3025-DA-AL ¹	160.00	---	3025-DA-SS ¹	490.00
3" x 4"	3040-DA-AL	107.10	5	3040-DA-SS	788.00
3" x 6"	3060-DA-AL ¹	275.00	---	3060-DA-SS ¹	719.00
4" x 2"	4020-DA-AL	109.00	5	4020-DA-SS ¹	561.00
4" x 2½"	4025-DA-AL	167.50	---	4025-DA-SS ¹	732.00
4" x 3"	4030-DA-AL	115.30	5	4030-DA-SS	535.00
4" x 5"	4050-DA-AL	226.80	2	---	---
4" x 6"	4060-DA-AL	191.30	2	4060-DA-SS ¹	1097.00
5" x 3"	5030-DA-AL ¹	287.75	2	5030-DA-SS ¹	725.00
5" x 4"	5040-DA-AL	187.20	2	5040-DA-SS ¹	780.00
5" x 6"	5060-DA-AL ¹	399.00	---	5060-DA-SS	950.00
6" x 3"	6030-DA-AL	204.70	2	6030-DA-SS ¹	1158.75
6" x 4"	6040-DA-AL	199.75	2	6040-DA-SS	1200.00
6" x 5"	6050-DA-AL	331.35	---	6050-DA-SS ¹	1300.00
8" x 6"	8060-DA-AL ^{1,2}	1100.00	---	---	---

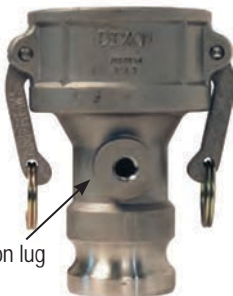
¹ Parts are produced as a welded fabrication.



² The 8" coupler has 4 cam arms and *only interchanges with Dixon Andrews type adapters.*

Size	Brass		Opt Qty	Unplated Iron		Opt Qty
	Part #	Price/E		Part #	Price/E	
3" x 2"	3020-DA-BR	\$305.00	10	3020-DA-MI	\$124.30	10
3" x 4"	3040-DA-BR	395.00	5	---	---	---
4" x 3"	4030-DA-BR	353.00	2	4030-DA-MI	204.20	---
6" x 4"	6040-DA-BR	695.00	---	6040-DA-MI	440.00	---

Reducing Coupler x Adapter with Port



port on lug

Size	Tap Size	316 Stainless Steel	
		Part #	Price/E
3" x 2"	1/4"	3020DAT25SS	\$354.00
3" x 2"	3/8"	3020DAT38SS	354.00
3" x 2"	1/2"	3020DAT50SS	354.00
3" x 2"	3/4"	3020DAT75SS	354.00

Boss-Lock Reducing Cam and Groove Couplings

In reducing cam and groove couplings, the coupler is the first size in the part number; (i.e., a ADA4030 is a 4" coupler to a 3" adapter).

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

coupler x adapter

Size	356T6 Aluminum		316 Stainless Steel		Opt Qty
	Part #	Price/E	Part #	Price/E	
2" x 3"	ADA2030 ¹	\$186.55	RDA2030BL ¹	\$405.00	10
2½" x 2"	ADA2520 ¹	168.00	---	---	--
2½" x 3"	ADA2530 ¹	284.50	---	---	--
3" x 2"	ADA3020	90.50	RDA3020BL	375.00	10
3" x 4"	ADA3040 ¹	215.00	RDA3040BL ¹	400.00	10
4" x 2"	ADA4020 ¹	240.00	RDA4020BL ¹	639.10	10
4" x 3"	ADA4030	138.60	RDA4030BL	599.00	10
6" x 4"	ADA6040 ¹	523.00	---	---	--
8" x 6"	ADA8060 ^{1,2}	1100.00	---	---	--



¹ Parts are produced as a welded fabrication.

² The 8" coupler *only interchanges with 8" Boss-Lock couplings*.



3" coupler x 2" adapter

EZ Boss-Lock Reducing Cam and Groove Couplings

In reducing cam and groove couplings, the coupler is the first size in the part number; (i.e., a ADA4030EZ is a 4" coupler to a 3" adapter).

Features:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

coupler x adapter

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2" x 3"	ADA2030EZ ¹	\$217.75	RDA2030EZ ¹	\$411.95
3" x 2"	ADA3020EZ	137.20	RDA3020EZ	385.80
3" x 4"	ADA3040EZ ¹	249.10	RDA3040EZ ¹	433.60
4" x 2"	ADA4020EZ ¹	294.70	RDA4020EZ ¹	630.00
4" x 3"	ADA4030EZ	194.25	RDA4030EZ	595.00
6" x 4"	ADA6040EZ ¹	565.00	RDA6040EZ	647.00

¹ Parts are produced as a welded fabrication.



4" coupler x 2" adapter

Dixon Lockable Dust Caps

Features:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.
- Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.*



Size	356T6 Aluminum			Brass		
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
1½"	150DC-LAL	\$48.25	10	150DC-LBR	\$94.50	10
2"	200DC-LAL	52.00	10	200DC-LBR	93.30	10
3"	300DC-LAL	65.80	10	300DC-LBR	119.00	10
4"	400DC-LAL	86.60	10	---	---	---
6"	600DC-LAL	203.00	2	---	---	--

- with angled, ergonomic thumb release

Size	316 Stainless Steel	
	Part #	Price/E
1½"	150DC-LSS	\$119.00
2"	200DC-LSS	163.40
3"	300DC-LSS	197.00
4"	400DC-LSS	256.90



B

Dixon Spool Adapters

- Pressure rating is based on the seal of the mating part. See ratings on page 23.

adapter x adapter



increaser / reducer



same size

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1"	---	---	100-AA-SS	\$102.90
1¼"	---	---	125-AA-SS ¹	350.00
1½"	150-AA-AL	\$34.25	150-AA-SS	111.80
1½" x 2"	1520-AA-AL	44.10	1520-AA-SS	176.00
2"	200-AA-AL	41.25	200-AA-SS	160.00
2" x 3"	2030-AA-AL	64.50	2030-AA-SS	218.00
2" x 4"	2040-AA-AL	111.00	2040-AA-SS ¹	446.00
2½" x 3"	2530-AA-AL ¹	218.00	2530-AA-SS ¹	560.00
2½" x 4"	2540-AA-AL ¹	300.00	---	---
3"	300-AA-AL	65.20	300-AA-SS	261.30
3" x 4"	3040-AA-AL	94.50	3040-AA-SS ¹	494.00
4"	400-AA-AL	85.95	400-AA-SS	359.00
4" x 5"	4050-AA-AL	127.30	---	---
4" x 6"	4060-AA-AL	217.35	4060-AA-SS ¹	995.00
5"	500-AA-AL ¹	270.00	500-AA-SS ¹	850.00
5" x 6"	5060-AA-AL ¹	398.00	---	---
6"	600-AA-AL	236.50	600-AA-SS ¹	970.00

Size	Brass	
	Part #	Price/E
2"	200-AA-BR	\$123.75
3"	300-AA-BR	235.00

¹ Parts are produced as a welded fabrication.

Dixon Spool Couplers

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

coupler x coupler



reducer / increaser



same size

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	---	---	150-DD-SS ¹	\$288.75
2"	200-DD-AL	\$67.70	200-DD-SS	196.25
2" x 3"	2030-DD-AL	110.00	2030-DD-SS	324.00
3"	300-DD-AL	89.75	300-DD-SS	302.30
3" x 4"	3040-DD-AL	125.50	3040-DD-SS ¹	710.00
4"	400-DD-AL	130.00	400-DD-SS ¹	780.00
4" x 5"	4050-DD-AL ¹	395.20	4050-DD-SS ¹	780.00
4" x 6"	4060-DD-AL ¹	357.00	4060-DD-SS	782.00
5"	500-DD-AL ¹	465.00	500-DD-SS	750.00
6"	600-DD-AL ¹	540.00	---	---

¹ Parts are produced as a welded fabrication.

Boss-Lock Spool Couplers

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

coupler x coupler



reducer / increaser

same size

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	ADD200 ¹	\$181.00	RDD200EZ	\$360.85
2" x 3"	ADD2030 ¹	187.40	RDD2030EZ ¹	420.00
3"	ADD300 ¹	245.00	RDD300EZ ¹	548.00
3" x 4"	ADD3040 ¹	317.00	RDD3040EZ ¹	640.00
4"	ADD400 ¹	320.00	RDD400EZ ¹	645.50
6"	---	---	RDD600EZ ¹	1200.00

¹ Parts are produced as a welded fabrication.

Reducing Cam and Groove Couplings

In reducing couplings, the cam and groove end is the first size given in the part number. (i.e., a 4030-C-AL is a 4" coupler to a 3" hose shank).

B

Type A

- Pressure rating is based on the seal of the mating part. See ratings on page 23.

male adapter x female NPT

Size	356T6 Aluminum		Opt Qty	316 Stainless Steel		Opt Qty
	Part #	Price/E		Part #	Price/E	
2" x 1½"	2015-A-AL	\$44.40	---	2015-A-SS ¹	\$201.70	--
2" x 3"	2030-A-AL	62.00	10	2030-A-SS	228.00	10
3" x 2"	3020-A-AL	58.00	5	3020-A-SS	295.00	10
3" x 4"	3040-A-AL	72.40	10	---	---	--
4" x 3"	4030-A-AL	68.00	10	4030-A-SS ¹	465.00	--
4" x 6"	4060-A-AL	187.20	5	---	---	--
6" x 4"	6040-A-AL	198.30	5	6040-A-SS ¹	985.00	--

¹ Parts are produced as a welded fabrication.



reducing
male adapter x female NPT

Type B

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

female coupler x male NPT

Size	356T6 Aluminum		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E
1½" x 1"	1510-B-AL	\$64.80	10	1510-B-SS ¹	\$310.00
2" x 1½"	2015-B-AL	63.40	10	2015-B-SS ¹	362.00
2" x 3"	2030-B-AL	78.50	---	---	---
3" x 2"	3020-B-AL	81.25	10	3020-B-SS ¹	358.00
3" x 4"	3040-B-AL	107.60	10	---	---
4" x 3"	4030-B-AL	125.25	5	4030-B-SS ¹	495.00

¹ Parts are produced as a welded fabrication.



reducing
female coupler x male NPT

Type C

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

female coupler x hose shank

Size	356T6 Aluminum		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E
1½" x 1"	---	---	---	1510-C-SS	\$235.00 NEW
2" x 1½"	2015-C-AL ¹	\$180.00	---	2015-C-SS ¹	332.80
3" x 2"	3020-C-AL	72.50	10	3020-C-SS	342.80
3" x 2½"	---	---	---	3025-C-SS	389.30
3" x 4"	3040-C-AL	127.80	5	---	---
4" x 3"	4030-C-AL	93.10	5	4030-C-SS ¹	595.00
5" x 4"	5040-C-AL ¹	366.60	---	---	---

¹ Parts are produced as a welded fabrication.



reducing
female coupler x hose shank

Type D

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

female coupler x female NPT

Size	356T6 Aluminum		Opt Qty	Brass		316 Stainless Steel	
	Part #	Price/E		Part #	Price/E	Part #	Price/E
1½" x 1"	1510-D-AL ¹	\$65.70	10	---	---	1510-D-SS ¹	\$306.00
2" x 1½"	2015-D-AL	47.50	10	---	---	2015-D-SS	210.00
3" x 2"	3020-D-AL	87.60	10	---	---	3020-D-SS	345.50
4" x 3"	4030-D-AL	127.00	10	4030-D-BR	\$300.00	4030-D-SS ¹	498.00
5" x 4"	5040-D-AL ¹	342.00	---	---	---	---	---
6" x 4"	6040-D-AL ¹	404.00	---	---	---	---	---

¹ Parts are produced as a welded fabrication.



reducing
female coupler x female NPT

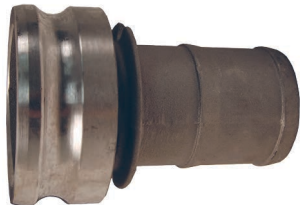
Reducing Cam and Groove Couplings

B

In reducing couplings, the cam and groove end is the first size given in the part number. (i.e., a 4030-B-AL is a 4" coupler to a 3" male NPT).

Type E

- Pressure rating is based on the seal of the mating part. See ratings on page 23.



reducing
male adapter x hose shank

male adapter x hose shank

Size	356T6 Aluminum		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E
1½" x 1"	---	---	---	NEW 1510-E-SS	\$221.00
2" x 1½"	2015-E-AL ¹	\$175.00	---	2015-E-SS ¹	208.00
3" x 2"	---	---	---	3020-E-SS ¹	385.00
3" x 2½"	---	---	---	3025-E-SS	199.00
4" x 3"	4030-E-AL	86.80	10	4030-E-SS ¹	550.00
5" x 4"	5040-E-AL ¹	324.45	---	---	---

¹ Parts are produced as a welded fabrication.

Type F

- Pressure rating is based on the seal of the mating part. See ratings on page 23.



reducing
male adapter x male NPT

male adapter x male NPT

Size	356T6 Aluminum		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E
1½" x 2"	1520-F-AL	\$45.00	---	---	---
2" x 1½"	2015-F-AL	45.30	---	2015-F-SS ¹	\$398.00
2" x 3"	2030-F-AL	69.00	---	---	---
3" x 1½"	3015-F-AL	62.50	10	3015-F-SS ¹	418.00
3" x 2"	3020-F-AL	64.25	10	3020-F-SS	410.00
3" x 4"	3040-F-AL	83.30	10	---	---
4" x 3"	4030-F-AL	88.90	10	4030-F-SS	325.00

¹ Parts are produced as a welded fabrication.

Adapters and Couplers with Straight Pipe Thread (NPSM)

Application:

- for delivery of dry goods

Features:

- Cork buna gaskets are standard in threaded end.
Replacement gasket; **400GAGFI, \$4.30**
- Pressure rating is based on the seal of the mating part. See ratings on page 23.



adapter x NPSM thread

Size	356T6 Aluminum	
	Part #	Price/E
4"	400-AS-AL	\$86.00

Feature:

- Coupler is supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

Boss-Lock coupler x NPSM thread



Size	356T6 Aluminum	
	Part #	Price/E
4"	ADS400	\$97.65

Cam and Groove x Cam and Groove Elbows

B

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

45° Elbows

adapter x coupler

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	200DA-45AL ¹	\$147.60	200DA-45SS ¹	\$483.00
3"	300DA-45AL	180.00	300DA-45SS ¹	715.00
4"	400DA-45AL	239.95	400DA-45SS ¹	960.00
6"	600DA-45AL	543.00	---	---

¹ Parts are produced as a welded fabrication.



male adapter x female coupler

coupler x coupler

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	200DD-45AL	\$157.00	---	--
3"	300DD-45AL	395.20	300DD-45SS	\$599.00
4"	400DD-45AL	392.00	---	--
6"	600DD-45AL	695.00	---	--

- Parts are produced as a welded fabrication.



female coupler x female coupler

90° Elbows

adapter x coupler

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1"	---	---	100DA-90SS ¹	\$350.00
1½"	150DA-90AL ¹	\$125.00	150DA-90SS ¹	390.00
2"	200DA-90AL	90.95	200DA-90SS	365.00
3"	300DA-90AL	148.50	300DA-90SS	715.00
4"	400DA-90AL	232.80	400DA-90SS	795.00
5"	500DA-90AL ¹	1425.00	---	---
6"	600DA-90AL	481.25	RDA90600EZ ^{1,2}	2300.00

¹ Parts are produced as a welded fabrication.

² EZ Boss-Lock design (not pictured)



male adapter x female coupler

coupler x coupler

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	200DD-90AL	\$179.60	---	---
3"	300DD-90AL	375.00	300DD-90SS	\$565.00
4"	400DD-90AL	192.45	---	---
6"	600DD-90AL	795.00	---	---

- Parts are produced as a welded fabrication.



female coupler x female coupler

Cam and Groove Elbows

Type A

- Pressure rating is based on the seal of the mating part. See ratings on page 23.



male adapter x female NPT

male adapter x female NPT 90° elbow

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	150A-90AL	\$72.90	---	---
2"	200A-90AL	69.75	200A-90SS ¹	\$450.00
3"	300A-90AL	119.25	300A-90SS	475.50
4"	400A-90AL	219.00	---	---

¹ Part is produced as a welded fabrication.

Type B

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.



female coupler x male NPT

female coupler x male NPT 90° elbow

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	150B-90AL	\$77.00	---	---
2"	200B-90AL	88.40	200B-90SS ¹	\$490.00
3"	---	---	300B-90SS ¹	675.00

¹ Parts are produced as a welded fabrication.

Type C

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.



female coupler x hose shank

female coupler x hose shank 90° elbow

Size	356T6 Aluminum		Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1¼"	---	---	125C-90BR	\$150.00	---	---
1½"	150C-90AL	\$71.90	---	---	150C-90SS	\$370.00
2"	200C-90AL	69.80	200C-90BR	155.50	200C-90SS	355.35
3"	300C-90AL	102.90	---	---	300C-90SS	495.00
4"	400C-90AL	193.50	---	---	400C-90SS ¹	975.00
6"	600C-90AL	478.95	---	---	---	---

¹ Part is produced as a welded fabrication.

Cam and Groove Elbows

Type D

B

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

female coupler x female NPT 90° elbow

Size	356T6 Aluminum		Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	---	---	---	---	100D-90SS	\$200.00
1¼"	---	---	125D-90BR	\$134.10	---	---
1½"	150D-90AL	\$79.30	150D-90BR	118.00	---	---
2"	200D-90AL	68.30	200D-90BR	153.00	200D-90SS	217.35
3"	300D-90AL	110.00	---	---	300D-90SS	592.00
4"	400D-90AL	150.50	---	---	400D-90SS ¹	1015.00
4"	AD90400EZ ²	235.00	---	---	---	---
6"	600D-90AL	349.50	---	---	---	---



female coupler x female NPT

¹ Part is produced as a welded fabrication.

² EZ Boss-Lock design (not pictured)

Type E

- Pressure rating is based on the seal of the mating part. See ratings on page 23.

male adapter x hose shank 90° elbow

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	---	---	200E-90SS ¹	\$504.00
3"	300E-90AL	\$143.00	300E-90SS	564.00
4"	400E-90AL	169.50	400E-90SS ¹	882.00



male adapter x hose shank

¹ Parts are produced as a welded fabrication.

Type F

- Pressure rating is based on the seal of the mating part. See ratings on page 23.

male adapter x male NPT 90° elbow

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	150F-90AL	\$60.00	---	---
2"	200F90AL	92.00	200F-90SS ¹	\$430.00
3"	---	---	300F-90SS ¹	765.00



male adapter x male NPT

¹ Parts are produced as a welded fabrication.

B

Adapters and Couplers x 150# Flanged Drilling

Features:

- Aluminum and unplated iron flanges are flat faced.
- Stainless steel flanges are raised face.
- See page 713 for flange drilling standards.

Dixon adapter x 150# flange



adapter x 150# ASA flange

Size	356T6 Aluminum		Flange Thick.	Unplated Iron		Flange Thick.	316 Stainless Steel		Flange Thick.
	Part #	Price/E		Part #	Price/E		Part #	Price/E	
1"	---	---	---	---	---	---	100-AL-SS	\$204.00	9/16"
1½"	---	---	---	---	---	---	150-AL-SS	197.70	11/16"
2"	200-AL-AL	\$112.00	3/4"	---	---	---	200-AL-SS	229.70	7/16"
3"	300-AL-AL	118.00	5/8"	300-AL-MI	\$203.70	5/8"	300-AL-SS	299.00	7/16"
4"	400-AL-AL	164.00	5/8"	---	---	---	400-AL-SS	495.00	7/16"
6"	600-AL-AL	269.30	5/8"	---	---	---	600-AL-SS	750.00	5/8"
8"	800-AL-AL ¹	1400.00	1-1/8"	---	---	---	---	---	---

¹ Part is produced as a welded fabrication.

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

Dixon coupler x 150# flange



coupler x 150# ASA flange

Size	356T6 Aluminum		Flange Thickness	316 Stainless Steel		Flange Thickness
	Part #	Price/E		Part #	Price/E	
1"	---	---	---	100-DL-SS	\$196.10	21/32"
1½"	---	---	---	150-DL-SS	260.80	25/32"
2"	200-DL-AL	\$156.00	3/4"	200-DL-SS	385.00	7/16"
3"	300-DL-AL	222.00	15/16"	300-DL-SS	499.00	7/16"
4"	400-DL-AL	317.00	15/16"	400-DL-SS	985.00	7/16"
6"	600-DL-AL	419.00	1"	600-DL-SS	1124.00	5/8"
8"	800-DL-AL ¹	1800.00	1-1/8"	---	---	---

¹ Part is produced as a welded fabrication.

Feature:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

EZ Boss-Lock coupler x 150# flange



EZ Boss-Lock coupler x 150# ASA flange

Size	316 Stainless Steel		Flange Thickness
	Part #	Price/E	
1"	RDL100EZ ¹	\$390.00	9/16"
1½"	RDL150EZ ¹	595.00	11/16"
2"	RDL200EZ	425.00	7/16"
3"	RDL300EZ ¹	575.00	7/16"
4"	RDL400EZ ¹	745.00	7/16"
6"	RDL600EZ ¹	1683.00	1"

¹ Parts are produced as a welded fabrication.

In-Line Sight Glass for Bulk Transfer

Application:

- Designed for dry bulk transfer hose.

Features:

- Includes aluminum bodies, Buna seals, acrylic sight glasses, stainless steel hardware and bronze cam arms (where applicable).
- Not intended for liquid service, for dry bulk transfer *only*.



coupler x adapter

adapter x adapter

coupler x coupler

Size	Part #	Price/E	Part #	Price/E	Part #	Price/E
3" x 3"	3533CA	\$320.05	3533AA	\$237.70	3533CC	\$398.80
3" x 4"	3534CA	320.05	3534AA	237.70	---	---
4" x 3"	3543CA	320.05	---	---	3543CC	398.80
4" x 4"	3544CA	320.05	3544AA	237.70	3544CC	398.80

Specialty Items

coupler x adapter wye

Size	356T6 Aluminum	
	Part #	Price/E
2"	200YDAAAL	\$142.00



B

tank truck flanged tee

Size	356T6 Aluminum	
	Part #	Price/E ¹
4"	400-TLT-AL	\$255.00



¹ Price subject to availability. Minimum production quantities may be required. Some parts have a colored anodized surface finish.

TTMA Series Flange Adapters

Application:

- provides a simple and easy way to quickly convert threaded components to a standard TTMA flange configuration

Features:

- more durable than welded fabrications due to the solid cast lightweight aluminum design
- design improves flow through adapter even on the 3" reducer
- compact size reduces the overall space needed to install
- for flange drilling standards, see page 713

Male Threaded

TTMA flange x standard male NPT

TTMA Flange	Male NPT	Aluminum	
		Part #	Price/E
3"	3"	TTF3AL-3MT	\$84.95
4"	3"	TTF4AL-3MT	63.95
4"	4"	TTF4AL-4MT	59.30



TTMA flange x male NPT

Extended Length - Male Threaded

TTMA flange x extended length male NPT

TTMA Flange	Male NPT	Aluminum	
		Part #	Price/E
4"	3"	TTF4AL-3EMT	\$84.95
4"	4"	TTF4AL-4EMT	99.15



TTMA flange x male NPT extended length

Female Threaded

TTMA flange x female NPT

TTMA Flange	Female NPT	Aluminum	
		Part #	Price/E
4"	3"	TTF4AL-3FT	\$76.05
4"	4"	TTF4AL-4FT	75.75



TTMA flange x female NPT

Slip-on

TTMA flange x socket weld

TTMA Flange	Pipe Size	Aluminum	
		Part #	Price/E
4"	4"	TTF400SP	\$67.00



TTMA flange x socket weld

B



TETF4AL



TETFG4AL

TTMA Flange Extensions

Applications:

- Flange extensions are used on load arms to connect the API load coupler to the load arm.
- adds a 6" space between the load arm and the tank truck
- Flange extension with groove provides a specified parting point to prevent excessive damage to the loading arm.

Size	Description	Aluminum	
		Part #	Price/E
4"	TTMA flange extension	TETF4AL	\$127.00
4"	TTMA flange extension with groove	TETFG4AL	132.00

Dixon Adapters and Couplers x Round Tank Truck Flange

Features:

- aluminum flanges have a flat face, stainless flanges have a raised face
- See page 713 for flange drilling standards.
- Pressure rating is based on the seal of the mating part. See ratings on page 23.

adapter x round tank truck flange



adapter x round tank truck flange

Size	356T6 Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
3"	300-ALT-AL	\$76.00	300-ALT-SS¹	\$472.50
3" x 4"	3040ALTAL	109.60	---	---
4"	400-ALT-AL	84.70	400-ALT-SS¹	750.00
6"	600-ALT-AL	231.60	---	---

¹ Parts are produced as a welded fabrication.

Features:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

coupler x round tank truck flange



coupler x round tank truck flange

Size	356T6 Aluminum		Price/E
	Part #	Price/E	
3"	300-DLT-AL	\$142.60	
3" x 4"	3040DLTAL	159.40	
4"	400-DLT-AL	163.00	
6"	600-DLT-AL	342.00	

Dixon 22½° Adapters and Couplers x Round Tank Truck Flange

- Pressure rating is based on the seal of the mating part. See ratings on page 23.

22½° adapter x round tank truck flange



22½° adapter x round flange

Size	356T6 Aluminum		Price/E
	Part #	Price/E	
4"	40022ALTAL	\$186.30	

Features:

- Couplers are supplied standard with a Buna-N gasket, other gasket types are available on pages 62-64.

22½° coupler x round tank truck flange



22½° coupler x round flange

Size	356T6 Aluminum		Price/E
	Part #	Price/E	
4"	40022DLTAL	\$153.60	

Round Tank Truck Flange Gaskets (TTMA)



Size	OD	ID	Thick.	Material	Part #	Price/E
3"	5-5/8"	3-1/2"	1/8"	Cork / Buna	300GTTFCB	\$3.60
3"	5-5/8"	3-1/2"	1/16"	PTFE envelope with Klinger filler	300GTTFTK	16.00
3"	5-5/8"	3-1/2"	1/8"	Klingsil® C-4401	300GTTFK	9.75
3"	5-7/8"	3-1/2"	1/4"	PTFE with fiber core	40321TF	21.95
4"	6-5/8"	4-9/16"	1/8"	Cork / Buna	400GTTFCB	4.60
4"	6-5/8"	4-9/16"	1/16"	PTFE envelope with Klinger filler	400GTTFTK	21.60
4"	6-5/8"	4-9/16"	1/8"	Klingsil® C-4401	400GTTFK	18.25
4"	6-7/8"	4-9/16"	1/4"	PTFE with fiber core	40322TF	26.40

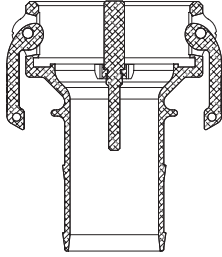
Dixon Vapor Recovery Couplers



- Not intended for liquid service, for vapor recovery *only*.

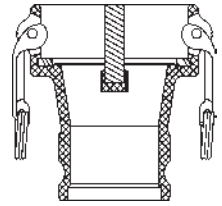
Features:

- cast aluminum body
- bronze arms with stainless steel pins
- plated carbon steel finger rings
- Buna-N gasket



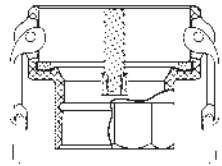
coupler with probe x hose shank

Coupler Size	Hose Shank Size	356T6 Aluminum	
		Part #	Price/E
4"	3"	4030-CVR-AL	\$129.10
4"	4"	400-CVR-AL	137.00



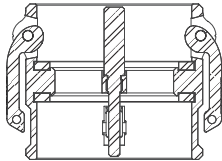
coupler with probe x adapter

Coupler Size	Adapter Size	356T6 Aluminum	
		Part #	Price/E
4"	3"	4030-DAVR-AL	\$139.50



coupler with probe x female NPT

Coupler Size	Female NPT Size	356T6 Aluminum	
		Part #	Price/E
4"	3"	4030-DVR-AL	\$146.00
4"	4"	400-DVR-AL	152.00



coupler with probe x coupler with probe

Coupler Size	Coupler Size	356T6 Aluminum	
		Part #	Price/E
4"	4"	400-DDVR-AL	\$160.00



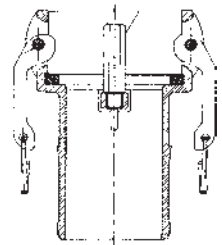
Dixon Bayco Vapor Recovery Couplers



- Not intended for liquid service, for vapor recovery *only*.
- *The Dixon replacement handle assemblies will not work on these fittings.*
- for use with 3" vapor hose

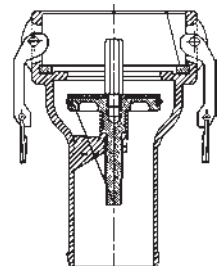
Features:

- cast aluminum body, bronze arms with stainless steel pins and finger rings
- Buna-N gasket



coupler with probe x hose shank

Coupler Size	Hose Shank Size	Aluminum	
		Part #	Price/E
3"	3"	VRC3000AL	\$139.85



- The VR4030CS-AL has a Viton® O-ring poppet seal.

coupler with poppet and probe x hose shank

Coupler Size	Hose Shank Size	Aluminum	
		Part #	Price/E
4"	3"	VR4030CS-AL¹	\$207.00



¹ The VR4030CS-AL will interchange with all competitor vapor valves *except* Civacon #633LVH (special bulb design).

Dixon Butt Weld to Tube Cam and Groove

B Features:

- 316 stainless steel investment casting
- designed to be butt welded to standard sanitary tubing



adapter x butt weld to tube end

Size	316 Stainless Steel	
	Part #	Price/E
1"	RE100BT	\$130.00
1½"	RE150BT	143.00
2"	RE200BT	158.00
3"	RE300BT	357.00

Boss-Lock coupler x butt weld to tube end



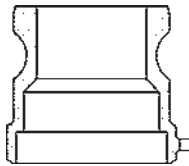
Size	316 Stainless Steel	
	Part #	Price/E
1"	RC100BT	\$195.00
1½"	RC150BT	240.00
2"	RC200BT	260.00
3"	RC300BT	425.00

Dixon Adapters for Welding

- not all configurations are stocked
- Line drawings are for reference only. Consult the factory for specific dimensions.
- Final weld preparation, as with all weld fittings, is the responsibility of the welder.

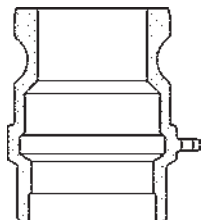


socket weld to schedule 40 pipe



Size	Bore	356T6 Aluminum		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
¾"	1.065	---	---	75AWSPSS	\$104.20
1"	1.330	---	---	100AWSPSS	97.95
1½"	1.915	150AWSPAL	\$60.00	150AWSPSS	117.00
2"	2.390	200AWSPAL	46.35	200AWSPSS	110.00
3"	3.530	300AWSPAL	58.60	300AWSPSS	196.35
4"	4.530	400AWSPAL	80.00	400AWSPSS	298.00
5"	5.593	500AWSPAL	123.75	500AWSPSS	450.00
6"	6.655	600AWSPAL	135.00	600AWSPSS	474.00
8" DIX	8.711	800AWSPAL ¹	474.00	---	---
8" BL	8.711	801AWSPAL ¹	453.00	---	---

butt weld to schedule 40 pipe / socket weld to nominal OD tubing



Size	Bore	356T6 Aluminum		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
¾"	.765	---	---	75AWBPSTSS	\$104.20
1"	1.015	---	---	100AWBPSTSS	97.95
1½"	1.515	150AWBPSTAL	\$52.60	150AWBPSTSS	117.00
2"	2.015	200AWBPSTAL	39.15	200AWBPSTSS	110.00
3"	3.015	300AWBPSTAL	57.70	300AWBPSTSS	196.35
4"	4.015	400AWBPSTAL	80.00	400AWBPSTSS	298.00
5"	5.015	500AWBPSTAL	122.50	500AWBPSTSS	450.00
6"	6.020	600AWBPSTAL	139.10	600AWBPSTSS	474.00
8" BL	8.035	801AWBPSTAL ¹	440.00	---	---



¹ Dixon and Boss-Lock cam and groove couplings do not interchange in the 8" size.

Dixon Couplers for Welding

- not all configurations are stocked
- Boss-Lock versions are also available. Consult the factory for pricing and availability.
- Line drawings are for reference only. Consult the factory for specific dimensions.
- Final weld preparation, as with all weld fittings, is the responsibility of the welder.

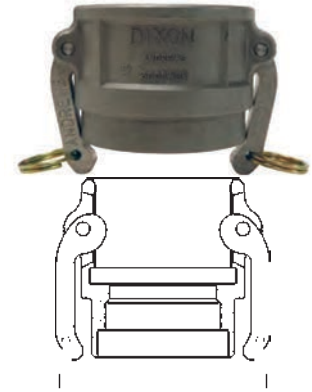


socket weld to schedule 40 pipe

Size	Bore	356T6 Aluminum		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
¾"	1.065	---	---	75DWSPSS	\$152.00
1"	1.330	100DWSPAL	\$55.00	100DWSPSS	126.20
1½"	1.915	150DWSPAL	61.80	150DWSPSS	153.00
2"	2.390	200DWSPAL	74.25	200DWSPSS	168.75
3"	3.530	300DWSPAL	75.10	300DWSPSS	268.80
4"	4.530	400DWSPAL	98.00	400DWSPSS	351.00
5"	5.593	500DWSPAL	227.00	500DWSPSS	691.00
6"	6.655	600DWSPAL	236.90	600DWSPSS	772.50
8"	8.711	800DWSPAL ¹	990.90	---	---

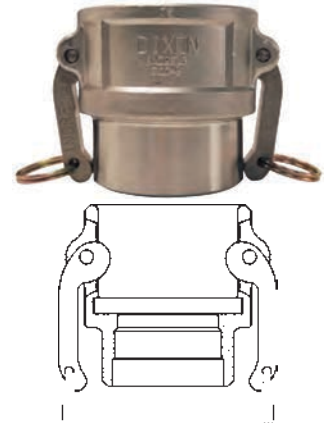


¹ Dixon and Boss-Lock cam and groove couplings do not interchange in the 8" size. The 8" Dixon design has 4 cam arms.



butt weld to schedule 40 pipe / socket weld to nominal OD tubing

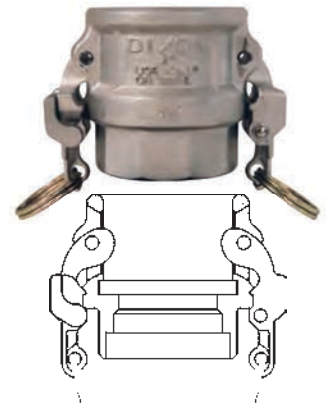
Size	Bore	356T6 Aluminum		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
¾"	.765	---	---	75DWBPSTSS	\$125.90
1"	1.015	---	---	100DWBPSTSS	126.20
1½"	1.515	150DWBPSTAL	\$61.80	150DWBPSTSS	153.00
2"	2.015	200DWBPSTAL	57.70	200DWBPSTSS	168.75
3"	3.015	300DWBPSTAL	69.80	300DWBPSTSS	268.80
4"	4.015	400DWBPSTAL	93.90	400DWBPSTSS	378.00
5"	5.015	500DWBPSTAL	172.00	---	---
6"	6.020	600DWBPSTAL	236.90	---	---



EZ Boss-Lock Couplers for Welding

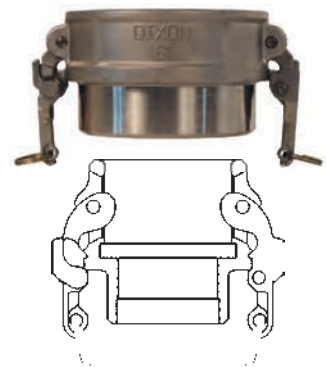
socket weld to schedule 40 pipe

Size	Bore	316 Stainless Steel	
		Part #	Price/E
¾"	1.065	RDWSP075EZ	\$214.25
1"	1.330	RDWSP100EZ	199.80
1½"	1.915	RDWSP150EZ	208.00
2"	2.390	RDWSP200EZ	215.30
3"	3.530	RDWSP300EZ	299.00
4"	4.530	RDWSP400EZ	356.00
6"	6.655	RDWSP600EZ	695.75



butt weld to schedule 40 pipe / socket weld to nominal OD tubing

Size	Bore	316 Stainless Steel	
		Part #	Price/E
¾"	.765	RDWBPST075EZ	\$153.40
1"	1.015	RDWBPST100EZ	159.65
1½"	1.515	RDWBPST150EZ	221.45
2"	2.015	RDWBPST200EZ	227.00
3"	3.015	RDWBPST300EZ	307.00
4"	4.015	RDWBPST400EZ	380.00
6"	6.020	RDWBPST600EZ	554.00



Railroad Tank Car Connections

B

Features:

- all swivel nuts have standard 5" Railroad Tank Car thread
- supplied with a Buna-N gasket in the threaded end, other gasket types are available on page 53
- Tank car connections are also available in other materials and in 2" and 2½" sizes. Consult factory for pricing and availability.



railroad thread swivel nut
x 20° adapter

Style A



- Stainless steel railroad tank car connections are not compatible with aluminum and brass.
- adapter is 20° below horizontal

Male Adapter	Swivel Nut	316 Stainless Steel	
		Part #	Price/E
3"	5"	RTCA30	\$815.00
4"	5"	RTCA40¹	998.00

¹ Parts are produced as a welded fabrication.



Style F

- for transloading bio and other fuels
- 4" TTMA flange can be bolted to sight glass or API adapter or other dry disconnect
- 4" flange end is 20° below horizontal

TTMA Flange	Swivel Nut	Aluminum	
		Part #	Price/E
4"	5"	ATCF40¹	\$708.00

¹ Part is produced as a welded fabrication.



Style S

- shank is 20° below horizontal

Shank Size	Swivel Nut	Aluminum	
		Part #	Price/E
4"	5"	ATCS40	\$334.50



railroad thread swivel nut
x 30° male NPT

Style T

- 3" threaded end is 30° below horizontal
- 4" threaded end is 20° below horizontal

Male NPT	Swivel Nut	Iron		Aluminum	
		Part #	Price/E	Part #	Price/E
3"	5"	TCT30	\$258.00	ATCT30	\$283.00
4"	5"	TCT40	310.00	ATCT40	350.00



railroad thread swivel nut
x 20° male NPT

Style T



- Stainless steel railroad tank car connections are not compatible with aluminum and brass.
- 3" threaded end is 30° below horizontal
- 4" threaded end is 20° below horizontal

Male NPT	Swivel Nut	316 Stainless Steel	
		Part #	Price/E
3"	5"	RTCT30	\$665.00
4"	5"	RTCT40	780.00

Dixon Tank Car Adapters

Features:

- standard 5" Railroad Tank Car thread
- supplied with a Buna-N gasket in the threaded end, see below for other gasket types

Size	356T6 Aluminum		Brass		Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
2"	200-TCA-AL	\$121.60	---	---	---	---	200-TCA-SS	\$693.00
3"	300-TCA-AL	105.00	300-TCA-BR	\$350.00	300-TCA-MI	\$257.00	300-TCA-SS	737.40
4"	400-TCA-AL	119.10	400-TCA-BR	410.00	---	---	400-TCA-SS	815.00



railroad thread x male adapter



Stainless steel adapters are not compatible with the aluminum and brass adapters.

Features:

- standard 5" Railroad Tank Car thread
- 45° tank car swivel adapter
- unit has a long handle brass swivel nut and a swivel retaining ring
- supplied with a Buna-N gasket in the threaded end, see below for other gasket types

Size	356T6 Aluminum	
	Part #	Price/E
4"	40A-45TCAL	\$456.00



swivel railroad thread x 45° male adapter

Dixon Railroad Tank Car Gaskets

Old Style

Feature:

- for use with Dixon fittings

Size	OD	ID	Thick	Material	Part #	Price/E
5"	5-1/4"	3-1/2"	3/16"	leather	G9	\$15.00



Standard

Feature:

- for use with Dixon fittings

Size	OD	ID	Thick.	Material	Part #	Price/E
5"	5-1/4"	3-7/8"	1/8"	Buna-N	500GTCABU	\$6.55
5"	5-1/4"	3-7/8"	1/8"	Viton®	500GTCAVI	53.50
5"	5-1/4"	3-7/8"	1/8"	fuel grade Buna	500GTCABF	6.25



standard

PTFE Envelope

Features:

- for use with Dixon fittings
- may be too thick for insertion in some older Dixon fittings

Size	OD	ID	Thick	Material	Part #	Price/E
5"	5-1/4"	3-13/16"	3/16"	PTFE with Buna-N filler	500GTCATF	\$63.90
5"	5-1/4"	3-13/16"	3/16"	PTFE with Viton® filler	500GTCATV	112.00



PTFE envelope

Wrenches

Pin Lug

- used on aluminum and iron tank car nuts

Iron	
Part #	Price/E
G10	\$115.00



Long Handle

- used on stainless steel tank car nuts

Iron	
Part #	Price/E
LHW	\$372.00



Boss-Lock PF Cam and Groove

B

Applications:

- The shank design on these fittings was developed specifically for chemical transport hoses having Crosslinked Polyethylene (XLPE) or Ultra High Molecular Weight Polyethylene (UHMW) tubes, where shank retention can be a problem when using conventional band clamps.
- In testing tank transport hoses from a wide variety of manufacturers, the Boss-Lock-PF fitting showed significant improvement in hose coupling retention over the conventional cam and groove shank design.
- Other sizes are available on special order. Consult the factory for pricing and availability.
- For best results we recommend the use of 3/4" wide band clamps found on pages 353 and 354.



female coupler x PF hose shank

EZ Boss-Lock type C coupler x special hose shank

Size	316 Stainless Steel		Opt Qty
	Part #	Price/E	
2"	RC200EZPF	\$180.00	10
3"	RC300EZPF	260.00	5



male adapter x PF hose shank

type E adapter x special hose shank

Size	316 Stainless Steel		Opt Qty
	Part #	Price/E	
2"	RE200PF	\$111.00	10

Cam and Groove Hydrant Adapters



female NST x male adapter

Features:

- Pin lugs allow for easy connection using standard spanner and hydrant wrenches (pages 535 and 536).
- supplied with a Buna-N washer in the threaded end

Female NST Thread	Male Adapter	Brass		Aluminum	
		Part #	Price/E	Part #	Price/E
1½"	1½"	HA1515ADP	\$75.50	AHA1515ADP	\$40.25
2½"	2½"	HA2525ADP	83.30	AHA2525ADP	50.00

Replacement Washers



ID	OD	Thickness	Buna-N	
			Part #	Price/E
1-9/16"	2-1/16"	1/8"	SW150	\$2.00
2-9/16"	3-3/16"	3/16"	SW250	3.15

Swaged Cam and Groove

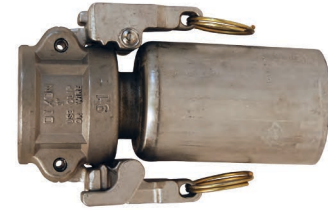
B

Applications:

- Developed specifically for chemical transport hoses having Crosslinked Polyethylene (XLPE) or Ultra High Molecular Weight Polyethylene (UHMW) tubes. Swaged Boss-Lock provides you with a permanently attached cam and groove fitting when superior coupling retention is required.
- In testing tank transport hoses from a wide variety of manufacturers, the swaged Boss-Lock fitting proved itself to be the clear winner in overall performance.
- Fittings are also available on special order for other sizes or hose OD's. Consult the factory for pricing and availability.
- Consult the factory for pricing and availability of the *special equipment required for installation* or refer to page 395.

EZ Boss-Lock type C coupler with ferrule

Size	Hose OD		316 Stainless Steel	
	from	to	Part #	Price/E
¾"	1-6/64"	1-22/64"	RC075EZ-70	\$130.70
1"	1-29/64"	1-35/64"	RC100EZ-20	137.10
1"	1-36/64"	1-44/64"	RC100EZ-70	141.40



coupler x hose shank with ferrule

Boss-Lock type E adapter with ferrule

Size	Hose OD		316 Stainless Steel	
	from	to	Part #	Price/E
¾"	1-6/64"	1-22/64"	RE075-1370	\$91.50
1"	1-29/64"	1-35/64"	RE100-1620	69.00
1"	1-36/64"	1-44/64"	RE100-1770	76.30



adapter x hose shank with ferrule

Notched Ferrules

Size	Hose OD		304 Stainless Steel	
	from	to	Part #	Price/E
1½"	1-60/64"	2-12/64"	GAS2334NO	\$34.80
1½"	2-4/64"	2-22/64"	GAS2370NO	37.20
2"	2-30/64"	2-44/64"	GAS2709NO	31.80
2"	2-42/64"	2-54/64"	GAS2885NO	66.25
3"	3-30/64"	3-46/64"	GAS3760NO	45.40
3"	3-47/64"	3-54/64"	GAS3885NO	62.10
4"	4-40/64"	4-47/64"	GAS5010NO	258.75



Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.

Notched Cam and Groove

Features:

- B** The largest advantage of the notched EZ Boss-Lock design is that the coupling can be removed from a damaged hose by cutting away the ferrule, without necessarily damaging the fitting. *After inspection of the fitting to determine its suitability for reuse*, it can be reinstalled into another hose by using a *new ferrule*.
- The notched EZ Boss-Lock system allows you to better manage your inventories. You can stock one coupling and two ferrules, and cover the same hose range with less inventory. *You must purchase a fitting and the matching ferrule to create an assembly.*
- for use with notched ferrules on previous page



Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon products.

Couplers

EZ Boss-Lock type C with notched shank



female coupler x notched hose shank

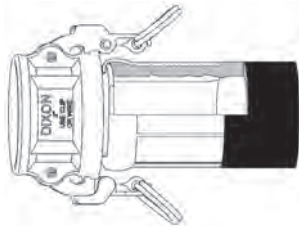
Size	316 Stainless Steel	
	Part #	Price/E
1½"	RC150EZNO	\$113.75
2"	RC200EZNO	121.30
3"	RC300EZNO	208.20
4"	RC400EZNO	310.85

Boss-Lock type C with notched shank



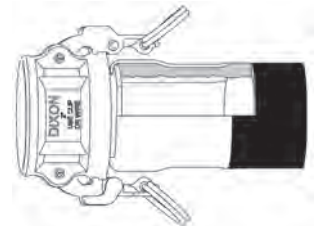
female coupler x notched hose shank

Size	316 Stainless Steel	
	Part #	Price/E
1½"	RC150BLNO	\$114.00
2"	RC200BLNO	116.80
3"	RC300BLNO	199.40
4"	RC400BLNO	297.00



crimped assembly

Contact the factory for swage and crimp recommendations.



swaged assembly

Adapters

Boss-Lock type E with notched shank



male adapter x notched hose shank

Size	316 Stainless Steel	
	Part #	Price/E
1½"	RE150NO	\$61.00
2"	RE200NO	65.30
3"	RE300NO	126.00
4"	RE400NO	246.90



swaged assembly

Contact the factory for swage and crimp recommendations.



crimped assembly

Dixon Cam and Groove with Notched NOS Shank

B

Features:

- The largest advantage of the notched design is that the coupling can be removed from a damaged hose by cutting away the ferrule, without necessarily damaging the fitting. *After inspection of the fitting to determine its suitability for reuse, it can be reinstalled into another hose by using a new ferrule.*
- The notched system allows you to better manage your inventories. You can stock one stem and two ferrules, and cover the same hose range with less inventory. *You must purchase a fitting and the matching ferrule to create an assembly.*



- For hose outside diameters of 2-4/64" and below, *the couplings are crimp only.*
- For hose outside diameters of 2-5/64" and above, the couplings can be crimped or swaged.

- See pages 266 and 400 for male NPT notched NOS fittings.
- for use with notched ferrules at bottom of the page

Only use the NOS shank with the NOS ferrules.
Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon products.

Couplers

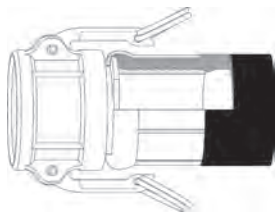
Dixon type C with NOS shank

Size	316 Stainless Steel	
	Part #	Price/E
1½"	150CNOSSS ¹	\$80.00
2"	200CNOSSS	85.10
3"	300CNOSSS	168.90

¹part will be discontinued as stock is depleted

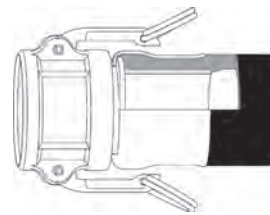


female coupler x notched NOS hose shank



crimped assembly

Contact the factory for swage and crimp recommendations.



swaged assembly

Adapters

type E with NOS shank

Size	316 Stainless Steel	
	Part #	Price/E
1½"	150ENOSSS ¹	\$38.00
2"	200ENOSSS	50.60
3"	300ENOSSS	101.00

¹part will be discontinued as stock is depleted



male adapter x notched NOS hose shank



swaged assembly

Contact the factory for swage and crimp recommendations.



crimped assembly

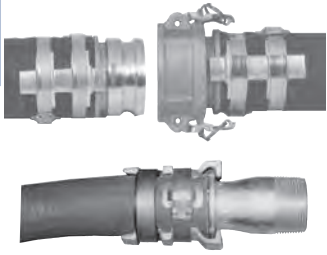
Notched NOS Ferrules

Size	Hose OD		Carbon Steel		304 Stainless Steel	
	from	to	Part #	Price/E	Part #	Price/E
1½"	1-60/64"	2-12/64"	CAS2334NOS	\$17.55	GAS2334NOS	\$31.90
1½"	2-4/64"	2-22/64"	CAS2370NOS	17.55	GAS2370NOS	34.50
2"	2-30/64"	2-44/64"	CAS2709NOS	24.10	GAS2709NOS	31.50
2"	2-42/64"	2-54/64"	CAS2885NOS	23.30	GAS2885NOS	64.40
3"	3-30/64"	3-46/64"	CAS3760NOS	34.60	GAS3760NOS	46.35
3"	3-47/64"	3-54/64"	CAS3885NOS	36.55	GAS3885NOS	63.00



Strap-Grip Saddles and Fittings

B



Features:

- Strap-Grip is designed to provide greater resistance to end pull than conventional band clamps alone.
- Only the fittings shown below are designed for use with Strap-Grip Saddles.
- Saddles are sold in pairs and designed for use with 3/4" or 5/8" wide bands.
- Bands must be purchased separately.
- Band clamps should first be applied to the OD to seal the hose. Then Strap-Grip saddles should be banded over the initial clamp to anchor the fitting in the hose.

saddles only



saddles

Size	Hose OD		Plated Iron	
	from	to	Part #	Price/E ¹
1½"	1-13/16"	2-1/8"	SGS150	\$14.00
2"	2-5/8"	3"	SGS200	16.50
3"	3-1/2"	3-7/8"	SGS300	21.00
4"	4-9/16"	5-1/8"	SGS400	23.70
6"	6-1/2"	7-1/16"	SGS600	42.00

¹ prices are for two saddles

male NPT x hose shank



male NPT x hose shank

Size	Schedule 40 Plated Carbon Steel		Schedule 40 Stainless Steel		Schedule 80 ¹ Plated Carbon Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1½"	LP21	\$60.00	---	---	LP21-80	\$69.00
2"	LP26	53.20	---	---	LP26-80	71.85
3"	LP36	125.00	RLP36 ²	\$221.40	---	---
4"	LP46	164.00	RLP46 ²	375.00	---	---
6"	LP66	340.00	---	---	---	---

¹ Schedule 80 stems meet NFPA 58

² tubular steel

Boss-Lock type C coupler x hose shank



female coupler x hose shank

Size	316 Stainless	
	Part #	Price/E
1"	RC100CEZ	\$120.20
1½"	RC150CEZ	160.00
2"	RC200CEZ ¹	152.25

¹ item will be discontinued as inventory is depleted

Dixon Standard Handle Assemblies

B

Features:

- Stainless steel pins are standard with all assemblies.
- roll pins are 302 stainless and solid pins are 303 stainless
- Pull rings are standard on sizes 1¼" thru 6". Pull rings are optional on other sizes.



Coupler Size	Description	Brass		316 Sintered Stainless Steel		316 Investment Stainless Steel	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	cam arm and pin	---	---	50-HP-SP	\$4.20	---	---
¾"	cam arm and pin	---	---	75-HP-SP	4.15	---	---
1"	cam arm and pin	---	---	100-HP-SP	4.90	---	---
1¼" - 2½"	cam arm, ring and pin	200-HRP-BR	\$8.60	200-HRP-SP	6.65	---	---
1¼" - 2½"	for parts manufactured in Canada only	CARP12BZ	10.20	---	---	---	---
2"	cam arm, ring and pin	---	---	---	---	200-HSCRPSI	\$12.00
3"	cam arm, ring and pin	---	---	---	---	300-HSCRPSI	15.00
3" - 5"	cam arm, ring and pin	300-HRP-BR	9.45	300-HRP-SP	8.00	---	---
6"	cam arm, ring and pin	600-HRP-BR	38.65	---	---	600-HRP-SI	57.70
8"	cam arm and pin for new coupler design	800-HNP-BR	69.50	---	---	---	---

Locking Handle for Dixon Dust Caps

- not supplied with pins

Coupler Size	Hole Diameter	Brass	
		Part #	Price/E
2"	9/32"	200-LH-BR	\$19.50
3"	5/16"	300-LH-BR	21.00
4"	3/8"	400-LH-BR	24.70



Paddle Handle for Dixon Couplings

- not supplied with pins

Coupler Size	Brass	
	Part #	Price/E
3" and 4"	300H-PADBR	\$33.00



Coupler Size	316 Investment Cast Stainless Steel	
	Part #	Price/E
3" and 4"	300H-PADSS	\$29.75



Boss-Lock Standard Handle Assemblies

assembly includes cam arm, pin and pull ring safety clip

Coupler Size	Brass		316 Invest. Cast Stain. Steel		Plated Iron	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾" - 1"	BHSC175	\$12.85	RHSC175	\$15.95	---	---
1¼" - 2½"	BHSC152	12.75	RHSC152	19.40	IHSC152	\$10.70
3" and 4"	BHSC34	14.90	RHSC34	29.00	IHSC34	10.75



assembly includes cam arm, pin and pull ring

Coupler Size	Brass		Plated Iron	
	Part #	Price/E	Part #	Price/E
6" and 8"	BH6	\$42.60	IH6	\$33.40



EZ Boss-Lock Handles

Features:

- investment cast stainless steel cam arm and lever
- 316 stainless steel spring
- stainless steel pin, washer, plated carbon steel pull ring



Coupler Size	316 Stainless Steel	
	Part #	Price/E
3/4" - 1"	RHEZ175	\$21.40
1 1/4" - 2 1/2"	RHEZ152	24.70
3" and 4"	RHEZ34	38.50
6" and 8"	RHEZ6	62.40



Under no circumstances should the EZ Boss-Lock cam arms be used on any fitting not specifically produced for their use. The aluminum, brass and iron are made from sand castings. To ensure proper functioning of the EZ Boss-Lock cam arm assemblies, we sort the castings to ensure there is sufficient length and orientation on the lugs on the main casting to engage the lever. We also buff or grind the rougher sand cast surface to ensure that the lever will move freely. *The EZ Boss-Lock cam arms cannot be retrofitted onto existing aluminum, brass or plated iron Boss-Lock already in service.*

NEW
FOR 2013

Witches Hat Strainers

Features:

- to be used with female cam and groove couplings
- pre-attached Buna-N gasket



Size	304 Stainless Steel	
	Part #	Price/E
3"	WH300-A	\$36.25
4"	WH400-A	44.70

Pull Ring Safety Clips for Boss-Lock Couplings



Coupler Size	Carbon Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
3/4" - 1"	---	---	100PRSCSS	\$2.50
1 1/4" - 2 1/2"	200PRSCCS	\$1.95	200PRSCSS	2.80
3" and 4"	300PRSCCS	2.00	300PRSCSS	2.90

Stainless Steel Pull Ring



304 Stainless Steel	
Part #	Price/E
R200SS	\$1.60

Clips and Lanyards for Boss-Lock Couplings

Features:

- carbon steel clip
- nylon lanyard



Coupler Size	Part #	Price/E
3/4" - 1"	ACL4	\$3.00
1 1/4" - 4"	ACL2	2.95

Features:

- carbon steel clip
- no lanyard supplied with this clip



Coupler Size	Part #	Price/E
6"	ACL3	\$6.20

Carbon Steel Clip Assembly

Features:

- for use with Boss-Lock couplings
- includes a pull ring, chain and AC3 clip

Part #	Price/E
BLCA152CS	\$8.60



B

Clip for Boss-Lock Couplings

Features:

- .072 stainless steel wire

Stainless Steel Part #	Price/E
AC7	\$2.25



Lanyard for Boss-Lock Couplings

Features:

- breaking strength: 160 lbs.
- overall length: 7" eye to eye

304 Stainless Part #	Price/E
LR7	\$7.75



Jack Chains with S-Hooks

Length	Material	Part #	Price/E	Opt Qty
6"	brass	CH-B-6	\$7.60	10
12"	brass	CH-B-12	8.90	10
24"	brass	CH-B-24	18.90	---
12"	carbon steel	CH-C-12	7.90	10
6"	stainless	CH-SS-6	8.00	10
12"	stainless	CH-SS-12	11.95	10
24"	stainless	CH-SS-24	18.60	10



Sash Chains with Pull Rings

Features:

- brass chain, plated steel pull ring

Length	Part #	Price/E
4½"	J125	\$7.50
6½"	J150	8.60
8½"	J300	11.60
12¾"	J500	16.90



PVC Coated Lanyards

Features:

- PVC coated carbon steel with aluminum crimp sleeves
- one end factory crimped, one end uncrimped for field installation

Length	Part #	Price/E
15"	CAL15	\$7.00
25"	CAL25	8.45



Cam and Groove Gaskets

B



- White neoprene and white Buna-N gaskets all contain FDA approved materials.

Size	Buna-N		Viton®-A		extra thick Buna-N		Ethylene Propylene	
	Part #	Price	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	50-G-BU	\$1.15	50-G-VI	\$4.90	---	---	---	---
¾"	75-G-BU	1.15	75-G-VI	5.80	---	---	75-G-EPR	\$2.05
1"	100-G-BU	1.15	100-G-VI	8.50	100GTHK	\$1.65	100-G-EPR	1.95
1¼"	125-G-BU	1.15	125-G-VI	12.10	125GTHK	2.15	125-G-EPR	2.20
1½"	150-G-BU	1.25	150-G-VI	11.95	150GTHK	2.15	150-G-EPR	2.15
2"	200-G-BU	1.15	200-G-VI	16.90	200GTHK	2.20	200-G-EPR	2.40
2½"	250-G-BU	1.40	250-G-VI	20.90	250GTHK	2.80	250-G-EPR	2.60
3"	300-G-BU	1.45	300-G-VI	20.80	300GTHK	2.60	300-G-EPR	2.50
4"	400-G-BU	1.95	400-G-VI	34.80	400GTHK	3.25	400-G-EPR	3.60
5"	500-G-BU	3.60	500-G-VI	76.40	---	---	---	---
6"	600-G-BU	5.15	600-G-VI	71.50	---	---	---	---
8"	800-G-BU	22.50	800-G-VI	119.00	---	---	---	---

Size	Neoprene		white Neoprene		white Buna-N		Silicone	
	Part #	Price	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	---	---	---	---	---	---	---	---
¾"	75-G-NE	\$2.00	---	---	---	---	---	---
1"	100-G-NE	2.10	---	---	---	---	---	---
1¼"	125-G-NE	2.15	---	---	---	---	---	---
1½"	150-G-NE	2.20	150-G-WNE	\$4.50	---	---	150-G-SIL	\$3.70
2"	200-G-NE	2.40	200-G-WNE	6.70	---	---	200-G-SIL	3.90
2½"	250-G-NE	3.25	---	---	---	---	---	---
3"	300-G-NE	3.80	300-G-WNE	9.00	300-G-WB	\$8.95	300-G-SIL	8.75
4"	400-G-NE	4.65	400-G-WNE	9.35	400-G-WB	9.20	400-G-SIL	9.95
5"	---	---	500-G-WNE	18.80	---	---	---	---
6"	---	---	600-G-WNE	14.80	---	---	---	---
8"	---	---	---	---	---	---	---	---

Cam and Groove Fuel Gaskets



Size	Part #	Material	Price
1½"	150-G-BF	Buna	\$1.90
2"	200-G-BF	Buna	2.40
3"	300-G-BF	Buna	2.70
4"	400-G-BF	Buna	3.70
3"	NEW 300GTHKBF	extra thick Buna-N	4.50
4"	400GTHKBF	extra thick Buna-N	6.35

PTFE Cam and Groove Gaskets

The torque (force) required to close the handles on a pair of cam and groove fittings will vary according to the gasket chosen. Due to the nature of the PTFE material, the various PTFE gasket designs will require the most torque, increasing as you go from envelope to encapsulated, and finally, accordion.

B

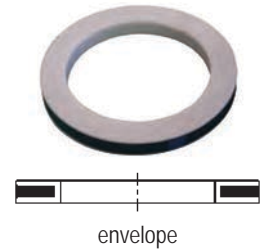
Features:



- PTFE white Buna filler (TFWB) and PTFE encapsulated silicone (TES) all contain FDA approved materials.
- PTFE accordion gaskets (TFACC) are recommended for use with viscous (thick) fluids only.
- Encapsulated gasket pressure ratings are reduced to **125 PSI** for ¾" - 4" at ambient temperature (**70°F**)
- PTFE encapsulated Viton® (TEV) gaskets - maximum operating temperature **200°F**
- PTFE encapsulated silicone (TES) gaskets - maximum operating temperature **225°F**
- *Maximum operating temperatures for specific chemicals may be lower. Contact Dixon for specific recommendations.*

Envelope

Size	PTFE with Buna filler		PTFE with Viton® filler		PTFE with white Buna filler		PTFE with Ethylene Propylene filler	
	Part #	Price	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	50-G-TF	\$7.70	50-G-TF-VI	\$10.75	---	---	---	---
¾"	75-G-TF	8.15	75-G-TF-VI	18.25	---	---	---	---
1"	100-G-TF	9.40	100GTFVI	20.00	---	---	---	---
1¼"	125-G-TF	10.60	125GTFVI	29.20	---	---	---	---
1½"	150-G-TF	12.75	150GTFVI	24.00	---	---	150GTFEP	\$15.50
2"	200-G-TF	14.80	200GTFVI	29.60	200GTFWB	\$15.90	200GTFEP	16.50
2½"	250-G-TF	25.20	250GTFVI	48.00	---	---	---	---
3"	300-G-TF	19.25	300GTFVI	41.50	300GTFWB	22.00	300GTFEP	20.40
4"	400-G-TF	31.00	400GTFVI	65.40	400GTFWB	40.75	---	---
5"	---	---	---	---	500GTFWB	73.00	---	---
6"	600-G-TF	75.40	600GTFVI	120.00	---	---	---	---



Encapsulated

Size	FEP encapsulated silicone		FEP encapsulated Viton®	
	Part #	Price/E	Part #	Price/E
¾"	75-G-TES	\$33.00	75-G-TEV	\$50.00
1"	100-G-TES	33.00	100-G-TEV	49.60
1¼"	125-G-TES	37.75	125-G-TEV	55.00
1½"	150-G-TES	38.30	150-G-TEV	59.00
2"	200-G-TES	40.00	200-G-TEV	60.60
2½"	250-G-TES	48.20	250-G-TEV	79.60
3"	300-G-TES	55.00	300-G-TEV	83.50
4"	400-G-TES	74.00	400-G-TEV	121.00

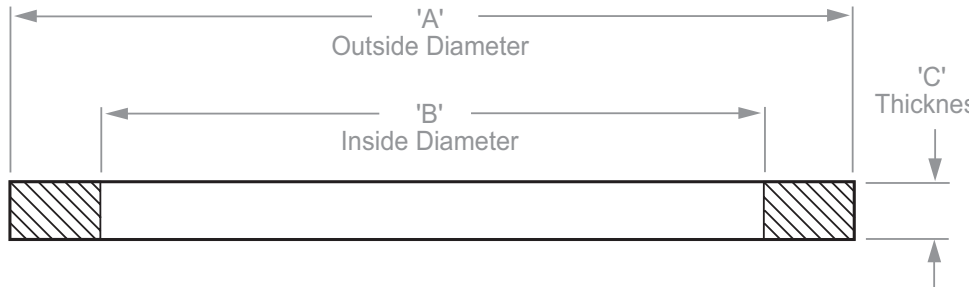


Accordion

Size	PTFE	
	Part #	Price/E
¾"	75GTFACC	\$14.80
1"	100GTFACC	15.70
1¼"	125GTFACC	20.90
1½"	150GTFACC	19.00
2"	200GTFACC	22.00
3"	300GTFACC	48.00



Dixon Cam and Groove Gasket Dimensions



- The following are the nominal dimensions for Dixon's elastomeric cam and groove gaskets.
- The ID's of the PTFE envelope gaskets and the PTFE accordion gaskets are *1/16" smaller than* the ID's for the elastomeric gaskets shown below.
- Thickness of PTFE accordion gaskets may vary from chart below.

Size	Part #	'A'	'B'	'C'
½"	50-G ¹	1-1/32"	11/16"	.156"
¾"	75-G	1-3/8"	7/8"	.218"
1"	100-G	1-9/16"	1-1/16"	.250"
1¼"	125-G	1-15/16"	1-23/64"	.250"
1½"	150-G	2-3/16"	1-5/8"	.250"
2"	200-G	2-5/8"	2"	.250"
2½"	250-G	3-1/8"	2-3/8"	.250"
3"	300-G	3-23/32"	3"	.250"
4"	400-G	4-7/8"	4"	.250"
5"	500-G	5-15/16"	4-7/8"	.250"
6"	600-G	7-1/16"	6"	.250"
8"	800-G ¹	9-5/16"	8-1/8"	.343"



¹ No interchange standard exists for the ½" and 8" fittings. Generally, these sizes do not interchange with other manufacturer's products. As such, the gaskets in these sizes are not suitable for use in other manufacturers' couplings.

Dixon Cam and Groove Gasket Color Codes

Gasket Code	Gasket Material	Material Color	Color code stripes (appear on the OD of the gasket or filler)
-BU	Buna-N (<i>standard in all metal fittings</i>)	black	1 blue
-BF	Buna (<i>formulated for fuel service</i>)	black	1 green
-VI	Viton®	black	1 yellow
-THK	Extra Thick Buna	black	2 blue
-EPR	Ethylene Propylene	black	1 white
-NE	Neoprene	black	1 red
-WNE	White Neoprene, <i>FDA approved material</i>	white	none
-WB	White Buna N, <i>FDA approved material</i>	white	blue
-SIL	Silicone	red	none
-TF	PTFE (TFE) Envelope with Buna-N filler	white / black	1 blue
TFVI	PTFE (TFE) Envelope with Viton® filler	white / black	1 yellow
TFWB	PTFE (TFE) Envelope with White Buna-N filler, <i>FDA approved materials</i>	white / white	blue
TFEP	PTFE (TFE) Envelope with Ethylene Propylene filler	white / black	1 white stripe
-TES	PTFE (FEP) Encapsulated Silicone core, <i>FDA approved materials</i>	translucent / red	none
-TEV	PTFE (FEP) Encapsulated Viton® core	translucent / black	none
TFACC	PTFE (TFE) Accordion, <i>FDA approved materials</i>	white	none



Since other manufacturer's coding systems vary,
this chart should not be used as a reference in identifying gaskets of unknown origin.

Global Cam and Groove

Features:

- designed to interchange with all products produced to A-A-59326D
- made to Dixon specifications and branded Dixon
- Buna seals are standard in all couplers
- Pressure rating for adapters, is based on the seal of the mating part.



- Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons

B

Global Type A Adapters

Size	A380 Permanent Mold AL		ASTMC38000 Forged Brass		316 Investment Cast SS	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	G50-A-AL ¹	\$6.35	G50-A-BR ¹	\$11.80	---	---
¾"	G75-A-AL	5.00	G75-A-BR	10.70	G75-A-SS	\$19.00
1"	G100-A-AL	5.10	G100-A-BR	13.70	G100-A-SS	18.60
1¼"	G125-A-AL	7.75	G125-A-BR	17.70	G125-A-SS	29.10
1½"	G150-A-AL	5.70	G150-A-BR	20.45	G150-A-SS	31.05
2"	G200-A-AL	6.05	G200-A-BR	26.70	G200-A-SS	37.45
2½"	G250-A-AL	14.60	G250-A-BR	41.05	G250-A-SS	72.30
3"	G300-A-AL	12.40	G300-A-BR	47.05	G300-A-SS	78.35
4"	G400-A-AL	19.55	G400-A-BR	82.80	G400-A-SS	138.35
5"	G500-A-AL ¹	73.60	G500-A-BR ¹ NEW	197.30	---	---
6"	G600-A-AL	51.40	---	---	G600-A-SS	248.50
8"	G800-A-AL ¹	238.55	---	---	---	---



female NPT x male adapter

¹ Does not interchange in the ½", 5", and 8" sizes with Dixon or Boss-Lock style cam and groove.

Global Type B Couplers

Size	A380 Permanent Mold AL with Brass Handles		ASTMC38000 Forged Brass		316 Investment Cast Stainless Steel		A380 Permanent Mold AL with SS Handles	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	G50-B-AL ^{1,2}	\$16.20	G50-B-BR ¹	\$27.10	---	---	---	---
¾"	G75-B-AL ²	10.75	G75-B-BR	24.45	G75-B-SS	\$31.45	---	---
1"	G100-B-AL	11.95	G100-B-BR	26.35	G100-B-SS	32.20	---	---
1¼"	G125-B-AL	16.30	G125-B-BR	36.70	G125-B-SS	52.45	---	---
1½"	G150-B-AL	13.65	G150-B-BR	35.70	G150-B-SS	52.10	G150-B-ALSI	\$13.65
2"	G200-B-AL	14.25	G200-B-BR	41.90	G200-B-SS	65.55	G200-B-ALSI	14.25
2½"	G250-B-AL	26.00	G250-B-BR	63.35	G250-B-SS	94.60	---	---
3"	G300-B-AL	23.60	G300-B-BR	77.70	G300-B-SS	109.35	G300-B-ALSI	23.60
4"	G400-B-AL	33.35	G400-B-BR	108.85	G400-B-SS	160.40	G400-B-ALSI	33.35
5"	G500-B-AL ¹	97.05	G500-B-BR ¹	316.10	G600-B-SS NEW	---	---	---
6"	G600-B-AL	92.70	---	---	G600-B-SS	429.75	---	---



female coupler x male NPT

¹ Does not interchange in the ½" and 5" sizes with Dixon or Boss-Lock style cam and groove.

² supplied with stainless steel handles

Global Type C Couplers

Size	A380 Permanent Mold AL with Brass Handles		ASTMC38000 Forged Brass		316 Investment Cast SS		A380 Permanent Mold AL with SS Handles	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	G50-C-AL ^{1,2}	\$13.15	G50-C-BR ¹	\$31.10	---	---	---	---
¾"	G75-C-AL ²	10.70	G75-C-BR	20.40	G75-C-SS	\$30.40	---	---
1"	G100-C-AL	10.95	G100-C-BR	29.50	G100-C-SS	29.50	---	---
1¼"	G125-C-AL	15.50	G125-C-BR	30.25	G125-C-SS	50.35	---	---
1½"	G150-C-AL	13.20	G150-C-BR	39.60	G150-C-SS	49.80	G150-C-ALSI	\$13.20
2"	G200-C-AL	15.25	G200-C-BR	48.05	G200-C-SS	63.65	G200-C-ALSI	15.25
2½"	G250-C-AL	25.90	G250-C-BR	70.45	G250-C-SS	86.00	---	---
3"	G300-C-AL	23.55	G300-C-BR	90.95	G300-C-SS	125.45	G300-C-ALSI	23.55
4"	G400-C-AL	36.75	G400-C-BR	132.00	G400-C-SS	173.95	G400-C-ALSI	36.75
5"	G500-C-AL ¹	103.00	G500-C-BR ¹	409.20	G600-C-SS NEW	---	---	---
6"	G600-C-AL	109.20	---	---	G600-C-SS	406.15	---	---
8"	G800-C-AL ¹	500.20	---	---	---	---	---	---



female coupler x hose shank

¹ Does not interchange in the ½", 5", and 8" sizes with Dixon or Boss-Lock style cam and groove.

² supplied with stainless steel handles

Global Type D Couplers

B



female coupler x female NPT

Size	A380 Permanent Mold AL with Brass Handles		ASTMC38000 Forged Brass		316 Investment Cast SS		A380 Permanent Mold AL with SS Handles	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	G50-D-AL ^{1,2}	\$16.35	G50-D-BR ¹	\$29.90	---	---	---	---
3/4"	G75-D-AL ²	12.10	G75-D-BR	22.75	G75-D-SS	\$31.35	---	---
1"	G100-D-AL	11.60	G100-D-BR	30.25	G100-D-SS	31.35	---	---
1 1/4"	G125-D-AL	16.95	G125-D-BR	35.15	G125-D-SS	52.90	---	---
1 1/2"	G150-D-AL	12.90	G150-D-BR	39.20	G150-D-SS	54.70	G150-D-ALSI	\$12.90
2"	G200-D-AL	15.05	G200-D-BR	45.35	G200-D-SS	65.60	G200-D-ALSI	15.05
2 1/2"	G250-D-AL	26.45	G250-D-BR	77.30	G250-D-SS	88.45	---	---
3"	G300-D-AL	25.15	G300-D-BR	80.95	G300-D-SS	107.45	G300-D-ALSI	25.15
4"	G400-D-AL	34.00	G400-D-BR	129.45	G400-D-SS	169.95	G400-D-ALSI	35.00
5"	G500-D-AL ¹	92.25	G500-D-BR ¹	310.90	G500-D-SS ^{NEW}	---	---	---
6"	G600-D-AL	98.45	---	---	G600-D-SS	421.00	---	---

¹ Does not interchange in the 1/2" and 5" sizes with Dixon or Boss-Lock style cam and groove.² come with stainless steel handles

Global Type E Adapters



hose shank x male adapter

Size	A380 Permanent Mold AL		ASTMC38000 Forged Brass		316 Investment Cast SS	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	G50-E-AL ¹	\$8.80	G50-E-BR ¹	\$19.20	---	---
3/4"	G75-E-AL	4.35	G75-E-BR	19.70	G75-E-SS	\$16.75
1"	G100-E-AL	5.05	G100-E-BR	19.05	G100-E-SS	22.45
1 1/4"	G125-E-AL	7.55	G125-E-BR	21.35	G125-E-SS	36.10
1 1/2"	G150-E-AL	6.55	G150-E-BR	27.40	G150-E-SS	36.25
2"	G200-E-AL	8.40	G200-E-BR	38.25	G200-E-SS	50.45
2 1/2"	G250-E-AL	16.20	G250-E-BR	63.25	G250-E-SS	83.15
3"	G300-E-AL	15.15	G300-E-BR	76.75	G300-E-SS	110.25
4"	G400-E-AL	25.10	G400-E-BR	123.00	G400-E-SS	161.00
5"	G500-E-AL ¹	78.05	G500-E-BR ¹	447.95	---	---
6"	G600-E-AL	79.45	---	---	G600-E-SS	360.30
8"	G800-E-AL ¹	409.65	---	---	---	---

¹ Does not interchange in the 1/2", 5", and 8" sizes with Dixon or Boss-Lock style cam and groove.

Global Type F Adapters



male NPT x male adapter

Size	A380 Permanent Mold AL		ASTMC38000 Forged Brass		316 Investment Cast SS	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	G50-F-AL ¹	\$6.60	G50-F-BR ¹	\$14.70	---	---
3/4"	G75-F-AL	5.35	G75-F-BR	13.30	G75-F-SS	\$23.30
1"	G100-F-AL	5.70	G100-F-BR	16.55	G100-F-SS	25.55
1 1/4"	G125-F-AL	9.40	G125-F-BR	29.65	G125-F-SS	41.20
1 1/2"	G150-F-AL	6.80	G150-F-BR	29.75	G150-F-SS	44.75
2"	G200-F-AL	7.65	G200-F-BR	34.60	G200-F-SS	53.80
2 1/2"	G250-F-AL	17.85	G250-F-BR	44.50	G250-F-SS	92.25
3"	G300-F-AL	16.85	G300-F-BR	67.55	G300-F-SS	112.05
4"	G400-F-AL	24.80	G400-F-BR	99.50	G400-F-SS	159.80
5"	G500-F-AL ¹	88.60	G500-F-BR ¹	332.10	---	---
6"	G600-F-AL	64.60	---	---	G600-F-SS	385.45

¹ Does not interchange in the 1/2" and 5" sizes with Dixon or Boss-Lock style cam and groove.

Global Type DC Dust Caps

Size	A380 Permanent Mold AL with Brass Handles		ASTMC38000 Forged Brass		316 Investment Cast SS		A380 Permanent Mold AL with SS Handles	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	G50-DC-AL ^{1,2}	\$14.40	G50-DC-BR ¹	\$24.05	---	---	---	---
3/4"	G75-DC-AL ²	10.60	G75-DC-BR	18.10	G75-DC-SS	\$28.45	---	---
1"	G100-DC-AL	10.40	G100-DC-BR	22.30	G100-DC-SS	28.80	---	---
1 1/4"	G125-DC-AL	14.00	G125-DC-BR	31.25	G125-DC-SS	50.50	---	---
1 1/2"	G150-DC-AL	12.70	G150-DC-BR	34.95	G150-DC-SS	48.35	G150-DC-ALSI	\$12.70 NEW
2"	G200-DC-AL	12.40	G200-DC-BR	38.25	G200-DC-SS	56.90	G200-DC-ALSI	12.40
2 1/2"	G250-DC-AL	20.70	G250-DC-BR	44.90	G250-DC-SS	78.45	---	---
3"	G300-DC-AL	23.10	G300-DC-BR	69.90	G300-DC-SS	93.60	G300-DC-ALSI	23.10 NEW
4"	G400-DC-AL	29.25	G400-DC-BR	97.05	G400-DC-SS	126.05	G400-DC-ALSI	29.25
5"	G500-DC-AL ¹	80.00	G500-DC-BR ¹	304.90	G500-DC-SS	---	---	---
6"	G600-DC-AL	84.35	---	---	G600-DC-SS	405.95	---	---



dust cap

¹ Does not interchange in the 1/2" and 5" sizes with Dixon or Boss-Lock style cam and groove.
² come with stainless steel handles

Global Type DP Dust Plugs

Size	A380 Permanent Mold AL		ASTMC38000 Forged Brass		316 Investment Cast SS	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	G50-DP-AL ¹	\$5.05	G50-DP-BR ¹	\$18.65	---	---
3/4"	G75-DP-AL	4.85	G75-DP-BR	12.80	G75-DP-SS	\$15.85
1"	G100-DP-AL	4.75	G100-DP-BR	14.20	G100-DP-SS	18.85
1 1/4"	G125-DP-AL	5.65	G125-DP-BR	18.75	G125-DP-SS	31.00
1 1/2"	G150-DP-AL	5.45	G150-DP-BR	17.85	G150-DP-SS	29.15
2"	G200-DP-AL	6.55	G200-DP-BR	21.20	G200-DP-SS	33.55
2 1/2"	G250-DP-AL	9.70	G250-DP-BR	34.60	G250-DP-SS	60.10
3"	G300-DP-AL	11.05	G300-DP-BR	37.40	G300-DP-SS	72.85
4"	G400-DP-AL	17.50	G400-DP-BR	62.15	G400-DP-SS	86.85
5"	G500-DP-AL ¹	48.20	G500-DP-BR ¹	201.45	---	---
6"	G600-DP-AL	44.90	---	---	G600-DP-SS	249.95



dust plug

¹ Does not interchange in the 1/2" and 5" sizes with Dixon or Boss-Lock style cam and groove.

Replacement Handle Assemblies for Global Couplers

For Aluminum and Brass Global Couplers

Feature:

- Handles supplied complete with ring and pin.



investment stainless



forged brass

Fits on sizes	Investment Stainless	
	Part #	Price/E
3/4"	G75HRP	\$2.70
1"	G100HRP	4.05
1 1/2" and 2"	G152HRPSI	4.60
3" and 4"	G34HRPSI	7.10
6"	G600HRPSI	20.45

Fits on sizes	Forged Brass	
	Part #	Price/E
1 1/4" - 2 1/2"	G152HRP	\$4.05
3" and 4"	G34HRP	7.10
6" and 8"	G600HRP	15.75

For Stainless Steel Global Couplers



investment stainless

Fits on sizes	Investment Stainless	
	Part #	Price/E
3/4"	G75HRPSS	\$4.15
1"	G100HRPSS	4.00
1 1/4" - 2 1/2"	G125250HRPSS	9.35
3" and 4"	G300400HRPSS	9.35
6"	G600HRPSS	20.25

Safety Clip for Global Couplers

Zinc Plated Carbon Steel	
Part #	Price/E
GSAFETYCLIP	\$0.33



Global Type DD Spool Couplers

B



Size	A380 Permanent Mold AL		316 Investment Cast SS	
	Part #	Price/E	NEW Part #	Price/E
2"	G200-DD-AL	\$53.95	G200-DD-SS	\$129.55
3"	G300-DD-AL	75.45	G300-DD-SS	193.50
4"	NEW G400-DD-AL	103.85	---	---

Global Type AA Spool Adapters



Size	A380 Permanent Mold AL		316 Investment Cast SS	
	Part #	Price/E	Part #	Price/E
1"	G100-AA-AL	\$8.55	---	---
1½"	G150-AA-AL	25.00	---	---
2"	G200-AA-AL	21.60	G200-AA-SS	\$105.60
3"	G300-AA-AL	50.40	G300-AA-SS	183.35
4"	G400-AA-AL	65.80	---	---

Global Jump Size Cam and Groove

male adapter x female NPT



G3020-C-AL

Size	A380 Permanent Mold Aluminum	
	Part #	Price/E
3" x 2"	G3020-A-AL	\$42.30
4" x 3"	G4030-A-AL	52.30

male spool adapter



G3020-DA-AL

Size	A380 Permanent Mold Aluminum	
	Part #	Price/E
1½" x 2"	G1520-AA-AL	\$32.40
2" x 3"	G2030-AA-AL	49.75
3" x 4"	G3040-AA-AL	71.10

female coupler x hose shank



G3020-E-AL

Size	A380 Permanent Mold Aluminum	
	Part #	Price/E
3" x 2"	G3020-C-AL	\$52.95
4" x 3"	NEW G4030-C-AL	68.20

female coupler x male adapter

Size	A380 Permanent Mold Aluminum	
	Part #	Price/E
3" x 2"	G3020-DA-AL	\$58.05
4" x 3"	G4030-DA-AL	83.70
5" x 4"	NEW G5040-DA-AL	123.60

male adapter x hose shank

Size	A380 Permanent Mold Aluminum	
	Part #	Price/E
3" x 2"	G3020-E-AL	\$27.85
4" x 3"	NEW G4030-E-AL	57.30

Polypropylene Adapters



NOT recommended for use with PTFE gaskets

B

Features:

- Adapters are manufactured from a glass-filled polypropylene.
- Recommended for a maximum working pressure of **125 PSI** ($\frac{1}{2}$ " - 1"), **100 PSI** ($\frac{1}{4}$ " - 2") and **75 PSI** (3" - 4"); recommendations based on the use of mating Dixon fittings at an ambient temperature of **70°F** with standard seal installed.
- $\frac{1}{2}$ " couplers and adapters will interchange with $\frac{3}{4}$ " couplers and adapters. Only the threads and barbs are $\frac{1}{2}$ ".
 $\frac{1}{4}$ " couplers and adapters will interchange with $1\frac{1}{2}$ " couplers and adapters. Only the threads and barbs are $\frac{1}{4}$ ".
- Polypropylene cam and groove should not be mixed with metal fittings.

type A

Size	Polypropylene		Opt Qty
	Part #	Price/E	
$\frac{3}{4}$ " x $\frac{1}{2}$ "	PPA50	\$5.20	24
$\frac{3}{4}$ "	PPA75	5.20	24
1"	PPA100	5.65	24
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	PPA125	5.85	24
$1\frac{1}{2}$ "	PPA150	6.30	24
2"	PPA200	7.45	24
3"	PPA300	16.70	24
4"	PPA400	27.50	8



female NPT x male adapter

type F

Size	Polypropylene		Opt Qty
	Part #	Price/E	
$\frac{3}{4}$ " x $\frac{1}{2}$ "	PPF50	\$5.70	24
$\frac{3}{4}$ "	PPF75	5.70	24
1"	PPF100	6.45	24
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	PPF125	6.50	24
$1\frac{1}{2}$ "	PPF150	6.55	24
2"	PPF200	9.00	24
3"	PPF300	21.25	24
4"	PPF400	27.50	8



male NPT x male adapter

type E

Size	Polypropylene		Opt Qty
	Part #	Price/E	
$\frac{3}{4}$ " x $\frac{1}{2}$ "	PPE50	\$5.70	24
$\frac{3}{4}$ "	PPE75	5.70	24
1"	PPE100	6.45	24
$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	PPE125	6.50	24
$1\frac{1}{2}$ "	PPE150	6.55	24
2"	PPE200	8.60	24
3"	PPE300	21.25	24
4"	PPE400	27.50	8



hose shank x male adapter

type P¹

Size	Polypropylene		Opt Qty
	Part #	Price/E	
$\frac{3}{4}$ "	PPP75	\$5.20	24
1"	PPP100	5.65	24
$1\frac{1}{2}$ "	PPP150	6.25	24
2"	PPP200	8.35	24
3"	PPP300	16.70	24
4"	PPP400	22.00	8



dust plug¹



4" plug has a different design



¹ Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.

Polypropylene Adapter Elbows

Features:

- Recommended for a maximum working pressure of **100 PSI** ($1\frac{1}{2}$ " - 2"); recommendations based on the use of mating Dixon fittings at an ambient temperature of **70°F** with standard seal installed.
- Adapter elbows are manufactured from a glass-filled polypropylene.
- For use at elevated temperatures or other unusual operating conditions, consult factory.



90° Elbow x FNPT

Size	Polypropylene		Opt Qty
	Part #	Price/E	
$1\frac{1}{2}$ "	90PPA150	\$10.40	24
2"	90PPA200	11.10	24



male adapter x female NPT

90° Elbow x MNPT

Size	Polypropylene		Opt Qty
	Part #	Price/E	
$1\frac{1}{2}$ "	90PPF150	\$12.00	24
2"	90PPF200	12.50	24



male adapter x male NPT

Polypropylene Couplers

B



NOT recommended for use with PTFE gaskets

Features:

- Recommended for a maximum working pressure of **125 PSI** (½" - 1"), **100 PSI** (1¼" - 2") and **75 PSI** (3" - 4"); recommendations based on the use of mating Dixon fittings at an ambient temperature of **70°F** with standard seal installed.
- ½" couplers and adapters will interchange with ¾" couplers and adapters. Only the threads and barbs are ½".
- 1¼" couplers and adapters will interchange with 1½" couplers and adapters. Only the threads and barbs are 1¼".
- Polypropylene cam and groove should not be mixed with metal fittings.
- supplied with EPDM gaskets, 304 stainless steel handles and pins
- Couplers are manufactured from a glass-filled polypropylene.



female NPT x female coupler

type D			
Size	Polypropylene Part #	Price/E	Opt Qty
¾" x ½"	PPD50	\$14.10	24
¾"	PPD75	14.10	24
1"	PPD100	16.00	24
1½" x 1¼"	PPD125	19.20	24
1½"	PPD150	19.00	24
2"	PPD200	22.50	24
3"	PPD300	37.00	24
4"	PPD400²	72.50	8



male NPT x female coupler

type B			
Size	Polypropylene Part #	Price/E	Opt Qty
¾" x ½"	PPB50	\$14.10	24
¾"	PPB75	14.10	24
1"	PPB100	16.00	24
1½" x 1¼"	PPB125	19.20	24
1½"	PPB150	19.00	24
2"	PPB200	22.50	24
3"	PPB300	37.00	24
4"	PPB400²	72.50	8



hose shank x female coupler

type C			
Size	Polypropylene Part #	Price/E	Opt Qty
¾" x ½"	PPC50	\$14.10	24
¾"	PPC75	14.10	24
1"	PPC100	16.00	24
1½" x 1¼"	PPC125	19.20	24
1½"	PPC150	19.00	24
2"	PPC200	22.50	24
3"	PPC300	37.00	24
4"	PPC400²	72.50	8



dust cap¹



4" cap has 3 handles

type H ¹			
Size	Polypropylene Part #	Price/E	Opt Qty
¾"	PPH75	\$13.60	24
1"	PPH100	15.50	24
1½"	PPH150	19.00	24
2"	PPH200	22.50	24
3"	PPH300	37.00	24
4"	PPH400²	52.75	8

locking handle pictured is only available in 1¼" thru 2"



¹ Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.

² 4" coupler has 3 handles

Polypropylene Coupler Elbows

Features:

- Recommended for a maximum working pressure of **100 PSI** (1½" - 2"); recommendations based on the use of mating Dixon fittings at an ambient temperature of **70°F** with standard seal installed.
- Coupler elbows are manufactured from a glass-filled polypropylene.



- Supplied with EPDM gaskets, 304 stainless steel handles and pins.
- For use at elevated temperatures or other unusual operating conditions, consult factory.



female NPT x female coupler

FNPT x 90° Elbow			
Size	Polypropylene Part #	Price/E	Opt Qty
1½"	90PPD150	\$22.20	24
2"	90PPD200	26.25	24



hose shank x female coupler

Hose Shank x 90° Elbow			
Size	Polypropylene Part #	Price/E	Opt Qty
1½"	90PPC150	\$22.20	24
2"	90PPC200	26.25	24

Replacement Parts for Polypropylene Cam & Groove Handles

B

Used on sizes	430 Stainless Steel	
	Part #	Price/E
1/2"	61594	\$4.40
3/4"	61594	4.40
1"	61594	4.40
1 1/4"	61595	6.05
1 1/2"	61595	6.05
2"	61595	6.05
3"	61596	10.10
4"	61596	10.10



1 1/4", 1 1/2", 2"



1/2", 3/4", 1", 3", 4"

Gaskets

Used on sizes	EPDM	
	Part #	Price/E
1/2"	61570	\$1.20
3/4"	61570	1.20
1"	61571	1.20
1 1/4"	61572	1.85
1 1/2"	61572	1.85
2"	61574	2.10
3"	61575	2.30
4"	62797	9.40



Key Rings

Used on sizes	304 Stainless Steel	
	Part #	Price/E
1/2"	61589	\$1.40
3/4"	61589	1.40
1"	61589	1.40
1 1/4"	61589	1.40
1 1/2"	61589	1.40
2"	61589	1.40
3"	61589	1.40
4"	61589	1.40



Cam Handle Pins

Used on sizes	304 Stainless Steel	
	Part #	Price/E
1/2"	61582	\$1.30
3/4"	61582	1.30
1"	61582	1.30
1 1/4"	61585	1.90
1 1/2"	61585	1.90
2"	61585	1.90
3"	61584	2.75
4"	61584	2.75



Safety Clips

Used on sizes	304 Stainless Steel	
	Part #	Price/E
1 1/4"	63545	\$1.10
1 1/2"	63545	1.10
2"	63545	1.10



Safety Break-away Coupling - Breaking Bolt Series Marine Version

Application:

- The breaking bolt marine version break-away coupling is designed to minimize spillage and damage associated with pull-away incidents.

Features:

- designed to be installed within a hose string where the coupling will have a length of hose attached to both sides
- typical applications include: ship-to-offshore platform and ship-to-ship product transfer operations
- coupling automatically senses an excessive load, closes the valves and disconnects
- release is executed when force causes bolts to break
- female NPT is standard, optional ANSI / DIN flanges or male NPT are available
- working pressure: **360 PSI** at ambient temperature (70°F)
- 316T1 stainless steel body with Viton® O-rings



Size	Width	Length	Weight in Lbs.	Flow Rate/GPM
2"	4.5"	7"	5.7	200
3"	6.8"	11"	18.8	650
4"	8.3"	12"	34.1	800
5"	10.6"	14"	71	1100
6"	12"	16"	101	1500
8"	13.5"	17.7"	157	3700

Female NPT x Female NPT



Size	DN	316 Stainless Steel Part #	Price/E
2"	50	MSBC200SS	\$4400.20
3"	80	MSBC300SS	7781.65
4"	100	MSBC400SS	11958.30
5"	125	MSBC500SS	20612.00

Male NPT x Male NPT

NEW FOR 2013



Size	DN	316 Stainless Steel Part #	Price/E
2"	50	MSBC200SSMNPT	\$4408.00
3"	80	MSBC300SSMNPT	8238.40
4"	100	MSBC400SSMNPT	11716.00
5"	125	MSBC500SSMNPT	21927.00
6"	150	MSBC600SSMNPT	42640.00

150# Flange x 150# Flange

NEW FOR 2013

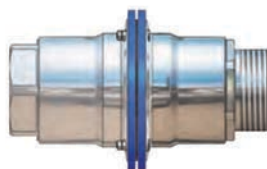


Size	DN	316 Stainless Steel Part #	Price/E
2"	50	MSBC200SSFL	\$6212.80
3"	80	MSBC300SSFL	12722.00
4"	100	MSBC400SSFL	19406.00
5"	125	MSBC500SSFL	24142.00
6"	150	MSBC600SSFL	38693.00
8"	200	MSBC800SSFL	70010.00

Industrial and Marine Safety Break-away Couplings are also available in BSP thread, DN Flange, 300# ASA Flange, Grooved Ends or any combination thereof.



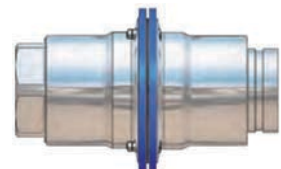
flange / thread
(BSP/NPT female / male or grooved)



NPT female thread / NPT male thread
(also available with BSP)



grooved / grooved



NPT female thread / grooved

Safety Break-away Coupling - Breaking Bolt Series Industrial Version

Application:

- The breaking bolt industrial breakaway coupling is designed to minimize spillage and damage associated with drive away and pull away incidents.

Features:

- designed to be installed between a fixed point (pipe, pump, manifold) and a hose
- coupling automatically senses an excessive load, closes the valves and disconnects
- female NPT is standard, optional ANSI / DIN flanges or male NPT are available
- high flow rate / low pressure drop
- working pressure: stainless steel **360 PSI** and aluminum **230 PSI** at ambient temperature (70°F)
- Viton® is standard seal



Size	Width	Length	Weight in Lbs.		Flow Rate/GPM
			Stainless	Aluminum	
2"	4.5"	7"	5	3	200
3"	6.8"	11"	18	8	650
4"	8.3"	12"	34	14	800
5"	10.6"	14"	71	27	1100
6"	12"	16"	101	35	1500
8"	13.5"	17.7"	157	66	3700

Female NPT x Female NPT

Size	DN	316 Stainless Steel		Aluminum	
		Part #	Price/E	Part #	Price/E
2"	50	SBC200SS	\$3667.85	SBC200AL	\$1711.90
3"	80	SBC300SS	6484.90	SBC300AL	3324.85
4"	100	SBC400SS	9960.10	SBC400AL	5085.10
5"	125	SBC500SS	18798.00	SBC500AL	11746.00 NEW
6"	150	SBC600SS	33608.90	SBC600AL	24709.70



Male NPT x Male NPT

Size	DN	316 Stainless Steel		Aluminum	
		Part #	Price/E	Part #	Price/E
2"	50	SBC200SSMNPT	\$3850.80	SBC200ALMNPT	\$1891.30
3"	80	SBC300SSMNPT	7044.00	SBC300ALMNPT	3610.70
4"	100	SBC400SSMNPT	10818.00	SBC400ALMNPT	5523.40
5"	125	SBC500SSMNPT	19352.00	SBC500ALMNPT	10744.00
6"	150	SBC600SSMNPT	36453.00	SBC600ALMNPT	24043.00



NEW
FOR 2013

150# Flange x 150# Flange

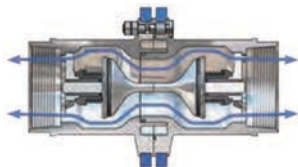
Size	DN	316 Stainless Steel		Aluminum	
		Part #	Price/E	Part #	Price/E
2"	50	SBC200SSFL	\$5181.35	SBC200ALFL	\$3512.40
3"	80	SBC300SSFL	10602.00	SBC300ALFL	4512.70
4"	100	SBC400SSFL	16172.00	SBC400ALFL	5576.30
5"	125	SBC500SSFL	21566.00	SBC500ALFL	12832.00
6"	150	SBC600SSFL	35420.00	SBC600ALFL	25912.00
8"	200	SBC800SSFL	76732.20	---	---



NEW
FOR 2013

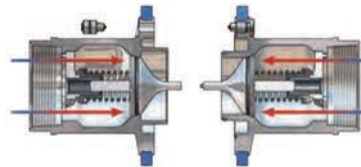
How it Works

Safety break-away couplings have three external break bolts. In the case of axial tension all of the bolts take up the force corresponding to the break force on the hose with a safety margin. Non-axial forces concentrate the tension forces more strongly on one bolt, so that the safety break-away coupling reacts in a natural way to the reduction of the hose break forces.



BEFORE emergency disconnect

The safety break-away valve consists of two halves, each with a valve that has a O-ring seal.



AFTER emergency disconnect

When the safety break-away couplings separate, it allows the valves to close. The two valves close rapidly, minimizing exposure to personnel and the environment.

Optional Non-Closure Design

The non-closure design is an economical alternative which allows the coupling to break away due to pull-away/drive-away incidents thus protecting piping systems and equipment. This design allows spillage of product in these instances due to the lack of valving in the coupling. Useful in applications where non-hazardous product is being conveyed and where there are no environmental concerns. Available in both Industrial and Marine versions. Consult the factory for more information.

C

Dry Disconnect Couplings

Applications:

- Dry disconnect couplings are designed for the quick and spill free connection and disconnection of hoses and pipelines. They are used by producers of ink, adhesives, fatty acids, pharmaceuticals, liquid soaps, petroleum, chemicals, agricultural and a wide variety of common caustic and specialty acids.



Features:

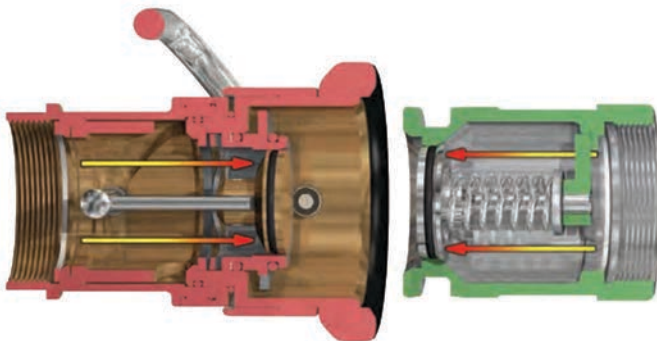
- Easy to handle - push and turn - free flow, turn and pull - closed
- Time saving - no need to drain hoses or pipe systems
- Economical - no loss or spillage of liquids at connection or disconnection
- Safety - the valve cannot be opened until the unit is coupled
- Environment friendly - accidental spillage eliminated when proper used
- Safe and reliable - due to rugged construction
- Product life - uncomplicated design and high quality materials ensures long product life
- Selectivity - To avoid product contamination caused by connecting a coupler to the wrong adapter, selective versions of the adapters are available. Contact the factory for further information.
- produced according to NATO standard STANAG 3756 and ATOFINA SGM 2049.TUY.C.
- Working Pressure (at ambient temperature (70°F):
 - aluminum: **300 PSI**, up to 4"
 - brass/ gunmetal *: **300 PSI**, up to 4"
 - stainless steel: **360 PSI**
- Optional seals:
 - EPDM
 - NBR - nitrile
 - Kalrez®
 - Chemraz®
 - Perlast®
- Seal kits are available

* produced to US government bronze specification G

Interchanges with Avery Hardoll and Todo-matic®

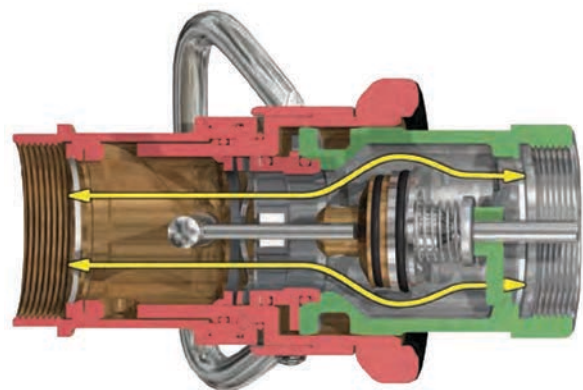
How it Works

The principle of operation is identical for all sizes of couplings.



Closed:

- Turn and pull
it's released - no spillage



Open:

- Push and turn
it's coupled - full flow

Dry Quick Disconnect Couplers

Features:

- coupler has built-in swivel
- stainless steel ball bearings
- shaft journal in stainless steel embedded in PTFE to eliminate seizure
- riveted piston pin to minimize the risk for failure under extreme pressure conditions
- the protective ring is a specially formulated, weather resistant and electrically conductive rubber compound
- all wetted parts are stainless steel
- stainless steel couplers: rollers are Hastelloy C276 on the stainless steel shaft
- aluminum and brass couplers: rollers are aluminum-bronze on the stainless steel shaft
- Composite (Polyeten PE-HD 300) plugs provide very good protection against corrosion and withstand hot and cold environments.

C

Coupler - Hose Unit



coupler x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel		Aluminum		Brass / Gunmetal ¹	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4"	56 mm	DDC075SS	\$2193.90	DDC075AL	\$1145.40	DDC075BR	\$1606.80
1"	56 mm	DDC100SS	2193.90	DDC100AL	1145.40	DDC100BR	1606.80
1 1/2"	70 mm	DDC150SS	3256.10	DDC150AL	1544.00	DDC150BR	1877.70
2"	70 mm	DDC200SS	3256.10	DDC200AL	1544.00	DDC200BR	1877.70
3"	105 mm	DDC300SS105	5692.80	DDC300AL 105	1714.95	DDC300GM105	2493.65
3"	119 mm	DDC300SS	5722.70	DDC300AL	1731.45	DDC300GM	2799.55
4"	164 mm	DDC400SS	9946.70	DDC400AL	3779.10	DDC400GM	5190.20
6"	238 mm	DDC600SS	25399.80	DDC600AL	16335.80	---	---

¹ produced to US government bronze specification G

coupler x 150# ASA flange with Viton® seals

150# Flange	Body Size	316 Stainless Steel	
		Part #	Price/E
2"	70 mm	DDC200SSFL	\$5158.30
3"	119 mm	DDC300SSFL	8033.25
4"	164 mm	DDC400SSFL	12723.00
6"	238 mm	DDC600SSFL	27210.60
8"	272 mm	DDC800SSFL	98020.00



NEW FOR 2013

Dust Plugs for Couplers

Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
3/4" and 1"	56 mm	DDDP075	\$107.90
1 1/2" and 2"	70 mm	DDDP150	112.35
3"	105 mm	DDDP300105	115.90
3"	119 mm	DDDP300	115.90
4"	164 mm	DDDP400	231.70
6"	238 mm	DDDP600 ¹	700.00

¹ 6" dust plug is aluminum



Dry Quick Disconnect Adapters

Features:

- adapter is usually installed on the tank or manifold
- conical valve seat reduces the risk for piston blow out
- PTFE bearing between the piston shaft and the piston guide eliminate the risk for seizure
- available in female NPT, 150# ASA flange or TTMA
- Composite (Polyeten PE-HD 300) caps provide very good protection against corrosion and withstand hot and cold environments.

Construction:

- aluminum adapter - aluminum poppet, stainless steel internal parts
- stainless steel adapter - stainless steel poppet, stainless steel internal parts
- brass / gunmetal ¹ adapter - brass poppet, brass and stainless steel internal parts

C

Adapter - Tank Unit

adapter x female NPT with Viton® seals



female NPT x adapter

Female NPT	Body Size	316 Stainless Steel		Aluminum		Brass / Gunmetal ¹	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	56 mm	DDA075SS	\$798.50	DDA075AL	\$575.70	DDA075BR	\$654.40
1"	56 mm	DDA100SS	798.50	DDA100AL	575.70	DDA100BR	654.40
1½"	70 mm	DDA150SS	1070.60	DDA150AL	467.80	DDA150BR	537.70
2"	70 mm	DDA200SS	1070.60	DDA200AL	467.80	DDA200BR	537.70
3"	105 mm	DDA300SS105	1522.35	DDA300AL105	578.30	DDA300GM105	776.40
3"	119 mm	DDA300SS	1441.00	DDA300AL	591.60	DDA300GM	813.50
4"	164 mm	DDA400SS	2822.20	DDA400AL	1167.00	DDA400GM	1899.35
6"	238 mm	DDA600SS	10876.80	DDA600AL	7442.80	---	---

adapter x 150# ASA flange with Viton® seals



150# flange x adapter

150# Flange	Body Size	316 Stainless Steel		Aluminum		Brass / Gunmetal ¹	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	56 mm	DDA075SSFL	\$1487.35	---	---	---	---
1"	56 mm	DDA100SSFL	1487.35	DDA100ALFL	\$1023.10	DDA100BRFL	\$1162.90
1½"	70 mm	DDA150SSFL	1451.30	DDA150ALFL	739.25	DDA150BRFL	1027.50
2"	70 mm	DDA200SSFL	1451.30	DDA200ALFL	739.25	DDA200BRFL	1027.50
3"	105 mm	DDA300SS105FL	1607.85	DDA300AL105FL	859.50	DDA300GM105FL	1138.15
3"	119 mm	DDA300SSFL	2010.60	DDA300ALFL	959.40	DDA300GMFL	1251.45
4"	164 mm	DDA400SSFL	3444.35	DDA400ALFL	1393.60	DDA400GMFL	2340.20
6"	238 mm	DDA600SSFL	11587.50	DDA600ALFL	7900.00	---	---
NEW 8"	272 mm	DDA800SSFL	42008.00	---	---	---	---

¹ produced to US government bronze specification G

adapter x TTMA flange with Viton® seals



TTMA flange x adapter

TTMA Flange	Body Size	Aluminum	
		Part #	Price/E
3"	105 mm	DDA300AL105TTMA	\$859.50
3"	119 mm	DDA300AL119TTMA	959.40
4"	164 mm	DDA400AL164TTMA	1393.60

Dust Caps for Adapters



dust cap - composite

Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
¾" and 1"	56 mm	DDDC075	\$175.10
1½" and 2"	70 mm	DDDC150	191.90
3"	105 mm	DDDC300105	212.25
3"	119 mm	DDDC300	236.15
4"	164 mm	DDDC400	443.95
6"	238 mm	DDDC600 *	1650.55

* 6" dust cap is aluminum



dust cap - rubber

Size	Body Size	Rubber	
		Part #	Price/E
2"	71 mm	DGDC200	\$100.85
3"	119 mm	DGDC300	119.60

Dry Aviation Couplings

Applications:

- Dry aviation couplings are designed for use in aviation refueling systems. Manufactured to accept the international standard 2½" point bayonet, hose end refueling nozzles according to: ISO45 / MS24484 / STANAG 3105 / British Aerospace Spec. 2C14. **They are not configured for under-wing refueling.**

Features:

- body: high strength aluminum
- coupling ring: gunmetal (*procuced to U.S. government bronze specification G*)
- bayonet flange and inner parts: stainless steel, aluminum
- all wetted parts are aluminum and stainless steel
- **150 PSI** working pressure at ambient temperature (70°F)
- Composite (Polyeten PE-HD 300) plug provides good protection against corrosion and withstands hot and cold environments.

C

Coupler - Hose Unit

Features:

- stainless steel ball bearings
- gunmetal coupling ring minimizes the risk of seizure
- stainless steel shaft journal embedded in PTFE eliminate seizure
- PTFE bearings between the driving plate and the piston guide eliminate the risk of seizure
- riveted piston pin minimizes the risk of failure under extreme pressure conditions
- the protective ring is a specially formulated, weather resistant and electrically conductive rubber compound

coupler x female NPT with Viton® seals

Female NPT	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAC250AL	\$2201.15
3"	ISO 45	DAC300AL	2201.15



female thread x coupler

coupler x female BSP with Viton® seals

Female BSP	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAC250ALBSP	\$2201.15
3"	ISO 45	DAC300ALBSP	2201.15

Sight Flow Indicator with Filter / Screen

Features:

- filter / screen can be inspected through the sight glass
- filter / screen is easily removed if cleaning is required
- screen is 100 mesh

aviation sight flow indicator with filter / screen

Female Thread	Male Thread	Aluminum	
		Part #	Price/E
2½" NPT	2½" BSP	ASFI25T25B	\$1313.75
3" NPT	3" BSP	ASFI30T30B	1313.75
2½" NPT	2½" NPT	ASFI25T25T	1313.75
3" NPT	3" NPT	ASFI30T30T	1313.75



Dust Plug for Couplers

Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
2½"	ISO 45	DADP250	\$272.40



Dry Aviation Couplings

Applications:

- Dry aviation couplings are designed for use in aviation refueling systems. Manufactured to accept the international standard 2½" point bayonet, hose end refueling nozzles according to: ISO45 / MS24484 / STANAG 3105 / British Aerospace Spec. 2C14. **They are not configured for under-wing refueling.**

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Features:

- body: high strength aluminum
- coupling ring: gunmetal
- bayonet flange and inner parts: stainless steel, aluminum
- all wetted parts are in aluminum and stainless steel
- **150 PSI** working pressure at ambient temperature (70°F)
- Composite (Polyeten PE-HD 300) cap provides good protection against corrosion and withstands hot and cold environments.

Adapter - Tank Unit

Features:

- gunmetal coupling ring minimizes the risk of seizure
- PTFE bearings between the piston shaft and the piston guide eliminate the risk of seizure
- conical valve seat eliminates the risk of piston blow out when extreme pressure is used



female thread x adapter

adapter x female NPT with Viton® seals

Female NPT	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAA250AL	\$1301.95
3"	ISO 45	DAA300AL	1301.95



150# flange x adapter

adapter x 150# ASA flange with Viton® seals

150# Flange	Body Size	Aluminum	
		Part #	Price/E
2½"	ISO 45	DAA250ALFL	\$1511.00
3"	ISO 45	DAA300ALFL	1511.00

Dust Cap for Adapters



Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
2½"	ISO 45	DADC250	\$186.00

Dry Break Cam and Groove Dry Disconnect Couplers

Features:

- dry disconnect coupler has automatic closing poppet assembly
- Must be used with a DBA style adapter for coupler to operate. Adapter sold separately.
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- maximum working pressure at 70°F:
 - 1½" - 210 PSI
 - 2" - 150 PSI
 - 3" - 120 PSI



Construction:

- Aluminum fittings have stainless steel internals comparable to 304 stainless
- Stainless steel handle allows exposure to corrosive chemicals or wash down service
- heavy duty handle attachment prevents bending of crank assembly one piece stainless steel crank and link provide long service life
- 1½" and 2" sizes have Dixon EZ Boss-Lock cam arms - prevent accidental opening caused by vibration or snagging
- 3" size has large paddle type cam arms allowing an easy grip

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coupler x female NPT

Female NPT	Coupler Size	Seal Material	Aluminum		Stainless Steel ¹	
			Part #	Price/E	Part #	Price/E
1½"	2"	Buna	DBC61-150	\$753.40	DBC71-150	\$1668.00
2"	2½"		DBC61-200	792.55	DBC71-200	1855.75
3"	4"		DBC61-300	1650.70	DBC71-300	3983.20
1½"	2"	Viton®	DBC62-150	816.85	DBC72-150	1731.90
2"	2½"		DBC62-200	887.90	DBC72-200	1951.65
3"	4"		DBC62-300	1842.45	DBC72-300	4194.95
1½"	2"	PTFE Encapsulated Silicone & Kalrez®	DBC63-150	1853.75	DBC73-150	2427.10
2"	2½"		DBC63-200	2124.15	DBC73-200	2838.60
3"	4"		DBC63-300	3413.85	DBC73-300	5627.20
1½"	2"	EPT	DBC64-150	1174.65	DBC74-150	1731.90
2"	2½"		DBC64-200	1303.75	DBC74-200	1951.65
3"	4"		DBC64-300	2115.95	DBC74-300	4194.95
1½"	2"	Kalrez® and PTFE ²	---	---	DBC76-150	5193.75
2"	2½"		DBC66-200	4888.10	DBC76-200	5633.25
3"	4"		---	---	DBC76-300	11649.90
1½"	2"	PTFE Encapsulated Viton® & Kalrez®	---	---	DBC77-150	2486.25
2"	2½"		---	---	DBC77-200	2455.65
3"	4"		---	---	DBC77-300	5215.75
3"	4"	Viton® B	DBC69-300	2223.30	DBC79-300	4592.50



coupler x 1½" and 2" female NPT



coupler x 3" female NPT

greaseless coupler x female NPT

Female NPT	Coupler Size	Seal Material	Stainless Steel ¹	
			Part #	Price/E
1½"	2"	PTFE Encapsulated Viton® & Kalrez®	DBC77-150-GL	\$2764.70
2"	2½"	PTFE Encapsulated Viton® & Kalrez®	DBC77-200-GL	2950.45

¹ stainless steel corrosion resistance is comparable to 304 stainless steel

² Kalrez® gasket, main seal O-ring and handle O-ring. PTFE seals on cylinder assembly, stuffing box, and seal under poppet screw.

coupler x 90° swivel female NPT

Female NPT	Coupler Size	Seal Material	Stainless Steel	
			Part #	Price/E
2"	2½"	Buna	DBS61-200	\$960.85
2"	2½"	Viton®	DBS62-200	1108.30
2"	2½"	PTFE Encapsulated Viton® & Kalrez®	DBS63-200	2251.45



Dust Plug for Couplers

Size	Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	200-DP-AL	\$17.25	200-DP-SS	\$64.00
2½"	250-DP-AL	24.70	250-DP-SS	155.00
4"	400-DP-AL	37.40	400-DP-SS	175.00



200-DP-AL

Locking Kit for Couplers

Description	Aluminum	
	Part #	Price/E
for use with 1½" and 2" dry disconnect couplers	DBCL-200	\$182.85
for use with 3" dry disconnect couplers	DBCL-300	182.85



DBCL-200

Dry Break Cam and Groove Dry Disconnect Couplings Adapters

Applications:

- Compatible with most cam and groove style dry disconnects. The Bayco dry disconnect helps prevent spillage from normal or accidental disconnects. A spring loaded sealing device is designed to snap closed should the valve become disconnected with the poppet open, significantly limiting liquid loss.

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Contact Dixon at 800-355-1991 for chemical compatibility, size, and material selection. Special configurations can be designed for your application.

Features:

- two-piece adapter design for easy rebuilding of adapters
- fully interchangeable with Kamvalok (OPW trademark) style fittings
- aluminum fittings have aluminum nose piece and brass piston
- for pressure ratings at other temperatures, contact Dixon

adapter x female NPT

Female NPT	Adapter Size	Seal Material	Max PSI at 70°	Aluminum		Stainless Steel ¹	
				Part #	Price/E	Part #	Price/E
1½"	2"	Buna	210	<i>DBA11-150</i>	\$205.70	<i>DBA71-150</i>	\$500.90
2"	2½"		150	<i>DBA11-200</i>	222.95	<i>DBA71-200</i>	573.85
3"	4"		120	<i>DBA11-300</i>	435.55	<i>DBA71-300</i>	1284.45
1½"	2"	Viton®	210	<i>DBA12-150</i>	210.10	<i>DBA72-150</i>	500.90
2"	2½"		150	<i>DBA12-200</i>	229.40	<i>DBA72-200</i>	643.75
3"	4"		120	<i>DBA12-300</i>	449.45	<i>DBA72-300</i>	1302.45
1½"	2"	PTFE Encapsulated Silicone	210	<i>DBA63-150</i>	276.85	<i>DBA73-150</i>	506.35
2"	2½"		150	<i>DBA63-200</i>	319.60	<i>DBA73-200</i>	648.15
3"	4"		120	<i>DBA63-300</i>	479.45	<i>DBA73-300</i>	1510.20
1½"	2"	EPT	210	<i>DBA64-150</i>	255.70	<i>DBA74-150</i>	519.40
2"	2½"		150	<i>DBA64-200</i>	291.70	<i>DBA74-200</i>	573.85
3"	4"		120	<i>DBA64-300</i>	559.30	<i>DBA74-300</i>	1416.25
1½"	2"	Kalrez®	210	<i>DBA66-150</i>	878.90	<i>DBA76-150</i>	1174.60
2"	2½"		150	<i>DBA66-200</i>	1084.05	<i>DBA76-200</i>	1298.45
3"	4"		120	<i>DBA66-300</i>	1877.70	<i>DBA76-300</i>	2876.40
1½"	2"	PTFE Encapsulated Viton®	210	---	---	<i>DBA77-150</i>	557.35
2"	2½"		150	---	---	<i>DBA77-200</i>	679.20
3"	4"		120	---	---	<i>DBA77-300</i>	1376.35
3"	4"	Viton® B	120	<i>DBA69-300</i>	687.20	---	---



adapter x 1½" and 2" female NPT



adapter x 3" female NPT

jump size adapter x female NPT

Female NPT	Adapter Size	Seal Material	Max PSI at 70°	Aluminum	
				Part #	Price/E
2"	2"	Buna	150	<i>DBA11-1520</i>	\$214.75
2"	2"	Viton®	150	<i>DBA12-1520</i>	224.15

adapter x 150# ASA flange

Flange Size	Adapter Size	Seal Material	Max PSI at 70°	Stainless Steel ¹	
				Part #	Price/E
2"	2"	Viton®	150	<i>DBAF72-1520</i>	\$1172.35
		PTFE Encapsulated Silicone		<i>DBAF73-1520</i>	1184.00
		EPT		<i>DBAF74-1520</i>	1184.00
		Kalrez®		<i>DBAF76-1520</i>	1717.55
		Viton®		<i>DBAF72-200</i>	1210.85
2"	2½"	PTFE Encapsulated Silicone	150	<i>DBAF73-200</i>	1221.10
		EPT		<i>DBAF74-200</i>	1221.10
		Kalrez®		<i>DBAF76-200</i>	1928.50
		Viton®		<i>DBAF72-300</i>	1928.60
		PTFE Encapsulated Silicone		<i>DBAF73-300</i>	2010.15
3"	4"	EPT	120	<i>DBAF74-300</i>	2010.15
		Kalrez®		<i>DBAF76-300</i>	3175.10



vapor adapter x female thread

Female NPSM	Adapter Size	Seal Material	Max PSI at 70°	Stainless Steel ¹	
				Part #	Price/E
2"	3"	PTFE	150	<i>DBAV73-2030</i>	\$685.45



¹ stainless steel corrosion resistance is comparable to 304 stainless steel

Dust Cap for Adapters

Size	Aluminum		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
2"	<i>200-DC-AL</i>	\$30.20	<i>200-DC-SS</i>	\$105.00
2½"	<i>250-DC-AL</i>	52.20	<i>250-DC-SS</i>	209.00
4"	<i>400-DC-AL</i>	54.00	<i>400-DC-SS</i>	195.00



Cam and Groove Actuator Style Fittings

Applications:

- The D2C style couplers work with the DBA adapters for applications where automatic closure for the coupler is not desired. This coupler is suited for vapor recovery, suction pump line and applications where it is necessary to easily drain the hose or pipe for cleaning. It can also be used when product retention in a hose or pipe is desired and damage from accidental spill from an open coupler is not a concern.

Features:

- 316 stainless steel body
- 304 stainless steel internal components
- EZ Boss-Lock cam arms
- stainless steel locking lever included
- available with Buna, Viton®, Viton-B®, EPDM, Kalrez®, PTFE Encapsulated Silicone and PTFE Encapsulated Viton® seals
- used with poppeted adapter DBA series on page 80

Female NPT	Coupler Size	Seal Material	Stainless Steel	
			Part #	Price/E
1½"	2"	Buna	D2C71-150	\$1030.85
2"	2½"		D2C71-200	1135.10
1½"	2"	Viton®	D2C72-150	1051.40
2"	2½"		D2C72-200	1156.90
1½"	2"	PTFE Encapsulated Silicone	D2C73-150	1272.75
2"	2½"		D2C73-200	1347.35
1½"	2"	EPDM	D2C74-150	1030.85
2"	2½"		D2C74-200	1135.10
1½"	2"	PTFE Encapsulated Viton®	D2C77-150	1272.75
2"	2½"		D2C77-200	1347.35
1½"	2"	Viton-B®	D2C79-150	1102.90
2"	2½"		D2C79-200	1214.60



Replacement parts are available, contact Dixon for more information.

Dry Gas Couplings

Applications:

- Dry gas couplings are designed for safe loading and discharge of bobtails or intermediate bulk delivery trucks and transfer to and from rail cars. They are quick and easy to connect and can be connected to a tank unit with pressures up to **225 PSI** at ambient temperature (70°F). If the pressure is higher you can equip the couplings with a pressure relief valve. The easy to connect pressure relief valve dissipates trapped fluid pressure into the hose coupler without spillage. The primary application for dry gas couplings is in the handling of LPG - Propane and Butane.

Features:

- safe handling of LPG
- easy to use and saves time
- reliable and easy to maintain
- can be coupled to a tank unit with pressures up to 225 PSI
- minimizes the risk of cold burns
- minimizes spillage and product loss
- minimizes health risks
- keeps the environment free of hazardous vapors and liquids
- compatible with existing dry disconnect couplings

Technical Information:

- stainless steel and brass / gunmetal (*produced to US government bronze specification G*)
- Viton® seals
- female NPT and ASA flanges
- **360 PSI** working pressure at ambient temperature (70°F)
- Composite (Polyeten PE-HD 300) plugs provide good protection against corrosion and withstand hot and cold environments.



female NPT x coupler

Coupler - Hose Unit coupler x female NPT with Viton® seals

Female NPT	Body Size	316 Stainless Steel	
		Part #	Price/E
1"	56 mm	DGC100SS	\$2783.10
2"	71 mm	DGC200SS	4193.15
3"	119 mm	DGC300SS	5721.65

Dust Plugs for Couplers



Size	Body Size	Polyeten PE-HD 300	
		Part #	Price/E
1"	56 mm	DGDP100	\$100.85
2"	71 mm	DGDP200	115.90
3"	119 mm	DGDP300	115.90

Adapter - Tank Unit adapter x female NPT with Viton® seals



female NPT x adapter

Female NPT	Body Size	316 Stainless Steel	
		Part #	Price/E
1"	56 mm	DGA100SS	\$999.20
2"	71 mm	DGA200SS	1301.95
3"	119 mm	DGA300SS	1439.95

adapter x female ACME thread with Viton® seals



female Acme x adapter

Female ACME	Body Size	316 Stainless Steel	
		Part #	Price/E
1¾"	56 mm	DGA100SS175	\$1217.25
3¼"	71 mm	DGA200SS325	1612.80

adapter x 150# ASA flange with Viton® seals



150# flange x adapter

150# Flange	Body Size	316 Stainless Steel	
		Part #	Price/E
1"	56 mm	DGA100SSFL	\$1637.70
2"	71 mm	DGA200SSFL	1742.80
3"	119 mm	DGA300SSFL	2010.60

Dust Caps for Adapters



Size	Body Size	Material	Part #	Price/E
1"	56 mm	polyeten PE-HD300	DGDC100	\$94.65
2"	71 mm	rubber	DGDC200	100.85
3"	119 mm	rubber	DGDC300	119.60

FloMAX Part Number Cross-reference

Standard Series Connectors

Dixon Part #	Caterpillar Part #	Wiggins Part #
<i>Engine Oil Nozzles</i>		
ENBL	9S9273	OS2
ENBL-P	---	OSP2
ENBL-PLUG	9S9274	OP-12
ERJ	---	ON6
<i>Engine Oil Receivers</i>		
ERS	9S9271	ON2
ERS-C	---	ONC2A
ERS-CAP	9S9272	O3B12P
<i>Coolant Fluid Nozzles</i>		
CN	108-5455	EC280B8
CN-P	---	---
CN-PLUG	108-5456	1209-8
<i>Coolant Fluid Receivers</i>		
CR-S	IQ5459	EC285A8
CR-C	---	---
CR-CAP	5P3587	1208-8
<i>Hydraulic Oil Nozzles</i>		
HN	108-5433	6000B12
HN-P	---	---
HN-PLUG	---	6009-12
<i>Hydraulic Oil Receivers</i>		
HR	108-5454	6005A12
HR-C	---	---
HR-CAP	IQ-5468	6008-12
<i>Transmission Fluid Nozzles</i>		
TN	126-7538	C-1807
TN-P	---	---
TN-PLUG	---	P-1844
<i>Transmission Fluid Receivers</i>		
TR	108-5456	P-1804
TR-C	---	---
R-CAP	SP3587	P-1880

Fuel Vent Series

Dixon Part #	Caterpillar Part #	Wiggins Part #
VT	6G7803	ZV10
VT7	---	---
VT9	---	---
VTT	SV6106	ZV10C

R Series Connectors

Dixon Part #	Caterpillar Part #	Wiggins Part #
<i>Engine Oil Nozzles</i>		
R-EN	126-7539	R15
R-EN-P	---	---
R-EN-PLUG	---	---
<i>Engine Oil Receivers</i>		
R-ER	---	R16
R-ER-C	---	---
R-ER-CAP	110-8826	---
<i>Coolant Fluid Nozzles</i>		
R-CN	127-9087	R11
R-CN-P	---	---
R-CN-PLUG	---	---
<i>Coolant Fluid Receivers</i>		
R-CR	---	R12
R-CR-C	---	---
R-CR-CAP	---	---
<i>Hydraulic Oil Nozzles</i>		
R-HN	127-9088	R17
R-HN-P	---	---
R-HN-PLUG	---	---
<i>Hydraulic Oil Receivers</i>		
R-HR	118-0166	R18
R-HR-C	---	---
R-HR-CAP	118-0165	---
<i>Transmission Fluid Nozzles</i>		
R-TN	126-7538	R13
R-TN-P	---	---
R-TN-PLUG	---	---
<i>Transmission Fluid Receivers</i>		
R-TR	---	R14
R-TR-C	---	---
R-TR-CAP	110-8318	---

Diesel Fueling System

Dixon Part #	Caterpillar Part #	Wiggins Part #
<i>Nozzles</i>		
FN600	---	ZZF150
FN600BL	4C6716	ZZ9A1
FN600B-PLUG	---	---
FN600B	---	---
<i>Receivers</i>		
FRS	2G9000	ZN2A
FRS-C	---	ZNC2A
FRA	269000	ZN2A
FRA-C	---	ZNC2A
FR-CAP	9D0630	ZC20P
FR-RS	---	---
FR-RS-C	---	---
FR-RS-R	---	---
GFR-0	---	ZN6A
GFR-45	---	---
GFR-90	---	ZN6B
GFR1-0	---	ZN6B
GFR1-45	---	---
GFR1-90	---	ZN6B
FNS	---	ZS9
FNS2	---	---
FN600S	---	---
FNSID	---	---

FloMAX Diesel Fueling System

Application:

- Designed for on-site refueling of construction, mining, forestry and agricultural equipment.

C Features:

- 1½" female NPT
- integrated high flow swivel
- integrated sealing plug
- plug/bumper assembly gives complete nose seal
- stainless steel dog latch mechanism and ball lock styles available
- tested to 180 gallons per minute
- investment cast aluminum housing
- anodized aluminum non-wear parts
- stainless steel wear components
- Delron® bushings eliminate metal-to-metal wear
- Interchanges with Caterpillar® and Wiggins systems.



Diesel Fuel Nozzles

Description	Part #	Price/E
dog latch mechanism with sealing plug	FN600	\$2443.65
ball lock with sealing plug	FN600BL	2443.65
sealing plug for FN600	FN600B-PLUG	174.55
sealing plug for FN600BL	FN600B	174.55

Diesel Fuel Receivers

Features:

- 2" male NPT
- available in anodized aluminum or nickel-plated steel
- O-ring sealed aluminum cap
- cap has set screw attached vinyl coated cable lanyard



one-piece body

Description	Material	Part #	Price/E
one-piece receiver without cap	nickel-plated steel	FRS	\$340.40
one-piece receiver with cap	nickel-plated steel	FRS-C	392.75
one-piece receiver without cap	anodized aluminum	FRA	340.40
one-piece receiver with cap	anodized aluminum	FRA-C	392.75
cap for receiver	anodized aluminum	FR-CAP	117.85



two-piece body

Description	Part #	Price/E
two piece receiver with removable stainless sleeve without cap	FR-RS	\$584.75
two piece receiver with removable stainless sleeve with cap	FR-RS-C	637.10
removable sleeve replacement for two piece receiver	FR-RS-R	192.00
cap for receiver	FR-CAP	117.85

NEW
FOR 2013

2" Diesel Fuel Nozzles

Features:

- 2" female NPT
- integrated high flow swivel available
- integrated sealing plug available
- stainless steel ball lock design
- tested to 400 gallons per minute
- material:
 - aluminum housing
 - anodized aluminum non-wear parts
 - stainless steel internal wear components
 - Delron® bushings



Description	Part #	Price/E
2" fuel nozzle - no swivel, no plug	FX1500	4352.75
2" fuel nozzle - no swivel, with plug	FX1500P	4501.10
2" fuel nozzle - with swivel, no plug	FX1500S	4570.95
2" fuel nozzle - with swivel, with plug	FX1500SP	4719.30
2" sealing plug for FX1500	FX1500PLUG	207.30

2" Diesel Fuel Receivers



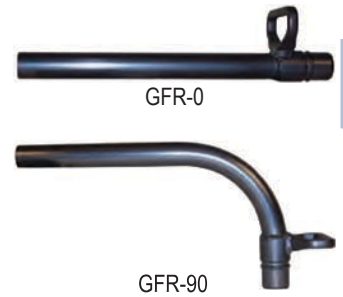
Description	Part #	Price/E
2" diesel fuel receiver	FRX	\$652.40
2" fuel receiver with cap	FRX-C	761.50
2" cap for receiver	FRXCAP	152.75

FloMAX Diesel Fueling System Diesel Fuel Gravity Fill Receivers

Features:

- used with the FN600 or FN600BL to convert to gravity fueling

Size	Description	Anodized Aluminum	
		Part #	Price/E
1-3/8"	straight	GFR-0	\$440.75
1-3/8"	45°	GFR-45	466.95
1-3/8"	90°	GFR-90	466.95
1"	straight	GFR1-0	466.95
1"	45°	GFR1-45	488.75
1"	90°	GFR1-90	488.75



C

FloMAX Fuel Vents

Features:

- 2" male NPT
- billet cap provides superior impact resistance
- easily serviced all metal construction
- rigid ball cage for positive seal
- available with:
 - threaded outlet
 - half coupling
 - anti-vandalism mounting

Description	Part #	Price/E
with 5" tube	VT	\$405.85
with 7" tube	VT7	418.95
with 9" tube	VT9	432.00
with 5" tube and threaded outlet	VTT	453.85



High Flow FloMAX Fuel Vents

Description	Part #	Price/E
high flow fuel vent with 7" tube	VTX	\$754.95
high flow fuel vent with 9" tube	VTX-9	789.85



Diesel Fuel Swivels

Features:

- stainless steel male threaded base
- stainless steel ball bearings
- hand black anodized female threaded nut
- fluorosilicone sealing O-rings

Thread Size	Description	Part #	Price/E
1½" male NPT x 1½" female NPT	standard	FNS	\$314.20
2" male NPT x 1½" female NPT	standard	FNS2	327.30
1½" female NPT x 1½" female NPT	double	FNSID	353.50
1½" male NPS x 1½" female NPT	used with FN600 or FN600BL	FN600S	314.20



FloMAX Service Box

Features:

- Designed to enclose receivers for diesel fuel, hydraulic oil, transmission fluid and coolant reducing contamination and weather related problems.
- normally installed on heavy duty earth mover equipment and drill rigs
- 12 gauge steel construction with heavy duty hinges
- painted white - Imron® Primer

Part #	Price/E
FSB	\$1669.85



receivers sold separately

FloMAX Standard Series Connectors

Applications:

- The FloMAX standard series connectors consist of four color-coded mating connectors. They have all-metal construction with stainless steel wear components and anodized aircraft grade aluminum non-wear components. Each has easily recognizable labeling and is fully compatible and interchangeable with industry standards.

Engine Oil (red)

Features:

- universally fits all crankcase receivers, both R-series and Standard series
- incorporates 10 locking balls with a 40% deeper engagement
- resistant to clogging with a greater ease of cleaning
- smooth actuation
- larger diameter pullback lanyard
- bright red anodized aircraft grade aluminum

Nozzles



Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
3/4" NPT	---	engine nozzle ball lock	ENBL	\$558.55
3/4" NPT	---	engine nozzle ball lock with plug	ENBL-P	610.95
---	---	engine nozzle plug	ENBL-PLUG	96.00

Receivers



ERJ-C

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
3/4" NPT	---	engine receiver	ERS	\$240.00
3/4" NPT	---	engine receiver with cap	ERS-C	296.75
---	---	engine receiver cap	ERS-CAP	96.00
3/4" JIC	---	engine receiver with JIC bulkhead base	ERJ	309.85
3/4" JIC	---	engine receiver with JIC bulkhead base and cap	ERJ-C	362.20

Coolant Fluid (teal)

Features:

- nickle-plated stainless steel nozzle nose and base
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright teal anodized aircraft grade aluminum

Nozzles



Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
1/2" NPT	---	coolant nozzle ball lock	CN	\$370.95
1/2" NPT	---	coolant nozzle ball lock with plug	CN-P	423.30
---	---	coolant nozzle plug	CN-PLUG	96.00

Receivers



Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
1/2" NPT	---	coolant receiver	CR-S	\$213.85
1/2" NPT	---	coolant receiver with cap	CR-C	266.20
---	---	coolant receiver cap	CR-CAP	96.00

FloMAX Standard Series Connectors

Applications:

- The FloMAX standard series connectors consist of four color-coded mating connectors. They have all-metal construction with stainless steel wear components and anodized aircraft grade aluminum non-wear components. Each has easily recognizable labeling and is fully compatible and interchangeable with industry standards.

C

Hydraulic Oil (gold)

Features:

- nickle-plated stainless steel wear components
- 10 steel dog latching mechanism
- ergonomically engineered pullbacks and caps
- bright gold anodized aircraft grade aluminum

Nozzles

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
---	3/4" NPT	hydraulic nozzle	HN	\$558.55
---	3/4" NPT	hydraulic nozzle with plug	HN-P	610.95
---	---	hydraulic nozzle plug	HN-PLUG	96.00



Receivers

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
3/4" NPT	---	hydraulic receiver	HR	\$449.50
3/4" NPT	---	hydraulic receiver with cap	HR-C	506.20
---	---	hydraulic receiver cap	HR-CAP	96.00



Transmission Fluid (violet)

Features:

- nickle-plated stainless steel nose and base
- 6 steel dog latching mechanism
- ergonomically engineered pullbacks and caps
- bright violet anodized aircraft grade aluminum

Nozzles

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
1/2" NPT	---	transmission nozzle	TN	\$501.85
1/2" NPT	---	transmission nozzle with plug	TN-P	554.20
---	---	transmission nozzle plug	TN-PLUG	96.00



Receivers

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
---	3/8" NPT	transmission receiver	TR	\$261.85
---	3/8" NPT	transmission receiver with cap	TR-C	318.55
---	---	transmission receiver cap	TR-CAP	96.00



FloMAX R Series Connectors

Applications:

- The FloMAX R-series connectors are fully compatible and interchangeable with industry standards. They have all-metal construction using anodized aircraft grade aluminum non-wear components.

C

Engine Oil (red)

Features:

- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright red anodized aircraft grade aluminum

Nozzles



Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
---	3/4" NPT	R-series engine nozzle	R-EN	\$432.00
---	3/4" NPT	R-series engine nozzle with plug	R-EN-P	484.40
---	---	R-series engine nozzle plug	R-EN-PLUG	96.00

Receivers



Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver	R-ER	\$187.65
1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver with cap	R-ER-C	244.40
---	---	R-series engine receiver cap	R-ER-CAP	96.00

Coolant (teal)

Features:

- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright teal anodized aircraft grade aluminum

Nozzles



Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
---	1/2" NPT	R-series coolant nozzle	R-CN	\$405.85
---	1/2" NPT	R-series coolant nozzle with plug	R-CN-P	458.20
---	---	R-series coolant nozzle plug	R-CN-PLUG	96.00

Receivers



Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver	R-CR	\$157.10
1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver with cap	R-CR-C	213.85
---	---	R-series coolant receiver cap	R-CR-CAP	96.00

FloMAX R Series Connectors

Applications:

- The FloMAX R-series connectors are fully compatible and interchangeable with industry standards. They have all-metal construction using anodized aircraft grade aluminum non-wear components.

C

Hydraulic Oil (gold)

Features:

- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright gold anodized aircraft grade aluminum

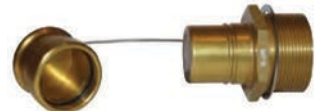
Nozzles

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
---	1" NPT	R-series hydraulic nozzle	R-HN	\$471.30
---	1" NPT	R-series hydraulic nozzle with plug	R-HN-P	528.00
---	---	R-series hydraulic nozzle plug	R-HN-PLUG	96.00



Receivers

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver	R-HR	\$235.65
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver with cap	R-HR-C	292.40
---	---	R-series hydraulic receiver cap	R-HR-CAP	96.00



Transmission Fluid (violet)

Features:

- all metal construction
- standard roll-pin locking mechanism
- ergonomically engineered pullbacks and caps
- bright violet anodized aircraft grade aluminum

Nozzles

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
---	3/4" NPT	R-series transmission nozzle	R-TN	\$384.00
---	3/4" NPT	R-series transmission nozzle with plug	R-TN-P	436.40
---	---	R-series transmission nozzle plug	R-TN-PLUG	96.00



Receivers

Male Thread	Female Thread	Description	Anodized Aluminum	
			Part #	Price/E
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver	R-TR	\$174.55
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver with cap	R-TR-C	231.30
---	---	R-series transmission receiver cap	R-TR-CAP	96.00



FloMAX 3/4" Series

Applications:

- Consists of 6 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This provides complete protection against cross contamination.

C

Features:

- maximum flow rate of 45 GPM at 70 PSI
- working pressure rating: **200 PSI**

Nozzles



Male Thread	Description	Anodized Aluminum	
		Part #	Price/E
3/4" NPT	red nozzle with plug	ENBL-P	\$610.95
	gold nozzle with plug	ENBL-P2	610.95
	teal nozzle with plug	ENBL-P3	610.95
	violet nozzle with plug	ENBL-P4	610.95
	navy nozzle with plug	ENBL-P5	610.95
	copper nozzle with plug	ENBL-P6	610.95

Receivers



Male Thread	Description	Anodized Aluminum	
		Part #	Price/E
3/4" NPT	red receiver with cap	ERS-C	\$296.75
	gold receiver with cap	ERS-C2	296.75
	teal receiver with cap	ERS-C3	296.75
	violet receiver with cap	ERS-C4	296.75
	navy receiver with cap	ERS-C5	296.75
	copper receiver with cap	ERS-C6	296.75

Note: ERS series is available with JIC bulkhead base. Substitute 'J' for 'S'. Example: ERJ-C2

FloMAX High Flow 1" Series

Applications:

- Consists of 7 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This will provide complete protection against cross contamination.

Features:

Each of the 7 nozzles and 7 receivers has the following performance:

- The nozzle/receiver combination has a flow area equivalent to a 1" schedule 80 pipe.
- The fittings have a **500 PSI** working pressure rating with 1500 PSI minimum burst pressure.
- All wear parts are constructed of stainless steel for long life and corrosion resistance.
- All non-wear parts are constructed of colored anodized aircraft grade aluminum for high strength, lightweight and corrosion resistance.

- The standard mounting for the nozzle is a 1" female NPT and for the receiver is a 1" male NPT. The receivers also come with a 1" female NPT threaded base.
- The nozzle incorporates a "ball lock" mechanism to ensure smooth and reliable operation.

Physical Description:

- nozzle length: 3.90" (99 mm)
- receiver length: 3.44" (87 mm)
- diameter: 2.50" (64 mm)
- hex size: 2" (51 mm)
- nozzle and receiver coupled length: 5.44" (138 mm)

Nozzles



Female NPT	Description	Anodized Aluminum	
		Part #	Price/E
1"	red nozzle with plug	HFN-P1	\$685.10
	gold nozzle with plug	HFN-P2	685.10
	teal nozzle with plug	HFN-P3	685.10
	violet nozzle with plug	HFN-P4	685.10
	navy nozzle with plug	HFN-P5	685.10
	copper nozzle with plug	HFN-P6	685.10
	blue/gray nozzle with plug	HFN-P7	685.10

Receivers



Male NPT	Description	Anodized Aluminum	
		Part #	Price/E
1"	red receiver with cap	HFR-C1	\$432.00
	gold receiver with cap	HFR-C2	432.00
	teal receiver with cap	HFR-C3	432.00
	violet receiver with cap	HFR-C4	432.00
	navy receiver with cap	HFR-C5	432.00
	copper receiver with cap	HFR-C6	432.00
	blue/gray receiver with cap	HFR-C7	432.00

Products Recommended for Steam Service

Quick Disconnect Fittings

Quick disconnect fittings (socket and plug) are available in solid brass with stainless steel springs and locking balls in sizes ¼" through 1½". For further information see page 92.



D

Dry Disconnect Fittings

Dry disconnect fittings (coupler and adapter) are available in stainless steel, with EPDM seals in sizes ¾" and 1". For further information see page 92.



GJ Boss™ Female Ground Joint Fittings

GJ Boss™ female ground joint fittings are available in plated steel and/or iron in sizes ¼" through 6". For further information see page 94.



Boss Female Washer Seal Fittings

Boss female washer seal fittings are available in plated steel and/or iron in sizes 3/8" through 3". For further information see page 97.



Boss Male Stems

Boss male stems are available in steel bar stock in sizes ¼" through 1"; iron in sizes 1¼" through 4"; 316 stainless steel in sizes ½" through 4" and brass in sizes ¾" through 3". For further information see page 98.



Boss Clamps

Boss clamps in the 2-bolt and 4-bolt style are available in plated iron in sizes ¼" through 3"; stainless steel in sizes ½" through 3" and brass in sizes ½" through 2". Boss clamps in the three-piece style are available in plated iron in sizes 3" through 6". For further information see pages 99 and 100.



180° Steam Gauge Siphon

180° steam gauge siphon is available in steel and red brass pipe in ¼". In order to prevent live steam from entering a pressure gauge bourdon tube a siphon filled with water should be installed between the gauge and the process line. For further information see page 262.



250 PSIG Steam Ball Valve

250 lb. steam ball valves are available with a threaded bronze valve, 316 stainless steel ball and stem in sizes ½" through 2". For further information see page 579.



Note: Pressurized steam is an extremely dangerous commodity. Only hose, fittings, clamps and accessory items that have been approved for steam service should ever be used! Never use an unapproved item for steam service. Always follow the manufacturer's product recommendations for pressurized steam handling.

Steam Quick Disconnect Couplings

Applications:

Designed exclusively for steam applications, the coupler and plug are solid brass with stainless steel springs and locking balls. The coupler has a large plated steel sleeve especially designed for easier gripping with gloves. Two ethylene propylene O-rings in the coupler and one ethylene propylene O-ring in the plug provide double protection against leaks. Rated to **100 PSI** gauge saturated steam (**338°F**).



Warning: Do Not Disconnect Under Pressure!!

D



poppet valve coupler

Body Size	Female NPT Size	Part #	Price/E
1/4"	1/4"	B16-200S	\$43.61
3/8"	3/8"	B16-300S	46.98
1/2"	1/2"	B16-400S	65.55
3/4"	3/4"	B16-600S	102.63
1"	1"	B16-800S	166.63
1-1/2"	1-1/2"	B16-1200S	446.16



poppet valve plug

Body Size	Female NPT Size	Part #	Price/E
1/4"	1/4"	B17-200S	\$13.47
3/8"	3/8"	B17-300S	19.06
1/2"	1/2"	B17-400S	23.95
3/4"	3/4"	B17-600S	42.06
1"	1"	B17-800S	54.99
1-1/2"	1-1/2"	B17-1200S	345.63

NEW
FOR 2013

Dry Disconnect Fittings for Steam Service

Applications:

Designed to fit hoses carrying steam used in chemical (heating), pharmaceutical (disinfection and sterilization) and at loading bays

Materials:

- coupling house and all inner parts: stainless steel
- seals: EPDM (standard), other materials available, contact Dixon

Features:

- unintentional separation is eliminated preventing accidents and avoiding unintended down time
- performance unaffected by surface rust
- lockable versions are available, contact Dixon



coupler

Female NPT	Body Size	Stainless Steel Part #	Price/E
3/4"	56mm	DDSC075SS	\$2956.30
1"	56mm	DDSC100SS	2956.30



adapter

Female NPT	Body Size	Stainless Steel Part #	Price/E
3/4"	56mm	DDSA075SS	\$832.10
1"	56mm	DDSA100SS	832.10

Boss Coupling System

Features: The spud part of the coupling serves as one half of the connection and is usually fixed to the equipment. The stem part that is clamped to the hose is the other half. The two halves are connected or disconnected by rotating the wing nut onto the spud. When connected they achieve a mechanical, as well as, a pressure seal.

Services: Boss couplings are all-purpose hose couplings, universally recommended for steam hose connections. They are also widely used for air, water, fluid petroleum, chemicals and liquid petroleum gas up to 1" ID. Boss couplings can be applied to many types of rubber, synthetic, plastic, metallic or semi-metallic hose. Consult the factory for specific media capabilities.

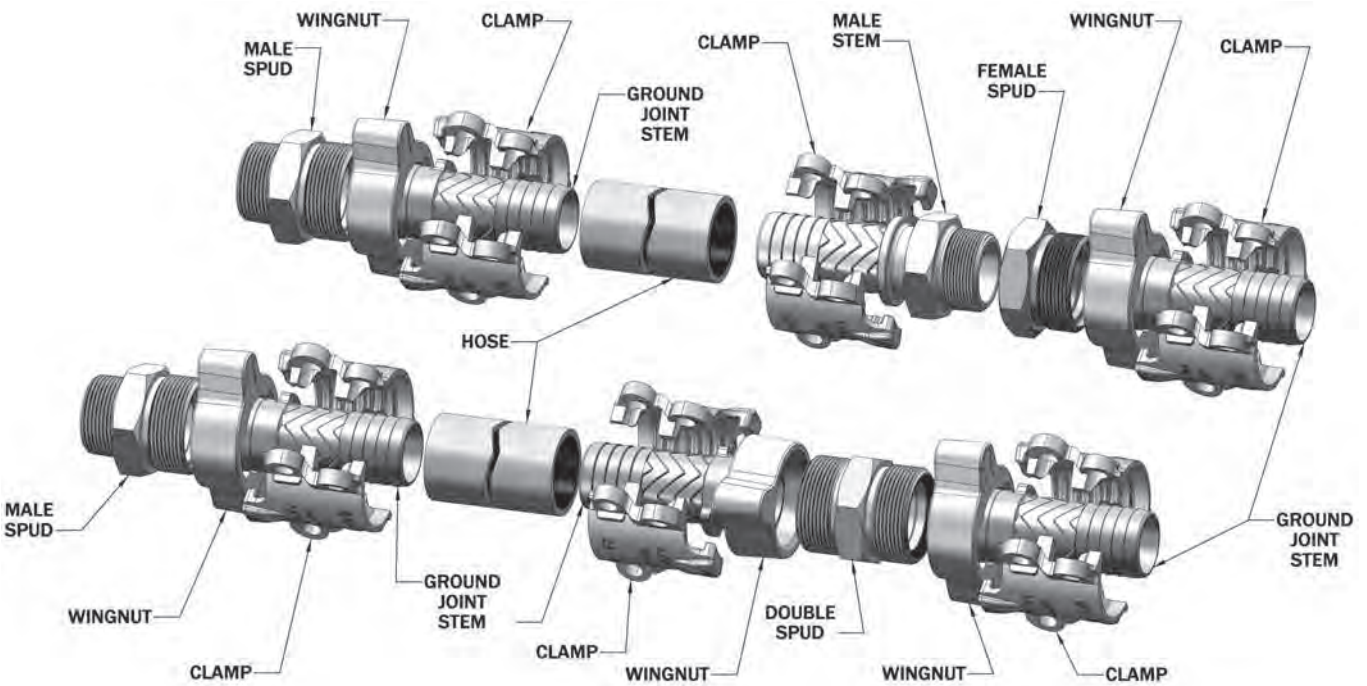
Purpose: Boss couplings supply a convenient threaded fitting to connect two lengths of hose, or a single length to a male or female threaded (NPT) outlet.

Material:

- stem: ¼" - 1" plated steel, 1¼" - 4" plated iron, 6" tubular steel
- spud: ¼" - 1" plated steel, 1¼" - 6" plated iron
- wing nut: ¼" plated steel, 3/8" - 6" plated iron

Seal Types:

- ground joint: copper or polymer seats
- washer: Klingersil® C-4401



Worn-out hose couplings can be dangerous. They should be checked regularly and replaced when necessary. Each coupling user should review applications and add safety devices where indicated.

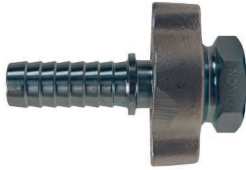
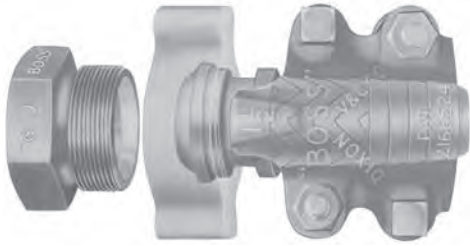
GJ Boss™ Ground Joint Seal

Positive Metal-to-Polymer Seal

Features:

- A leakproof seal is formed when the metal head of the stem makes contact with the patented polymer seat in the spud.
- The non-metallic polymer seat resists most chemicals found in manufacturing facilities. (reference corrosion resistance chart on pages 694-699)
- recommended for steam service up to **450°F**
- easy to seal
- works with existing fittings
- *plated steel and / or iron*
- use with Boss clamps found on pages 99 and 100.

D



complete female



stem



wing nut

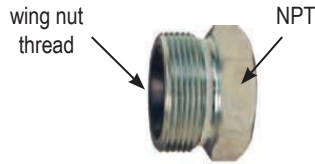


knurled nut

Hose Shank x NPT	Part #	Price/E	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
1/4"	GF1 ¹	\$49.30	GBA	\$18.75	100	SLS4	\$11.90	100	---	---	--
3/8"	GF3 ¹	42.45	GCA	8.90	100	CB	11.60	100	---	---	--
1/2"	GF6	33.00	GB1	7.40	100	B2	7.35	100	---	---	--
1/2" x 3/4"	GF26-1	42.55	GB6-1	16.90	50	B12	9.75	25	---	---	--
3/4"	GF26	40.15	GB6	14.50	50	B12	9.75	25	KB12	\$15.45	25
1"	GF36	41.00	GB11	15.20	50	B12	9.75	25	KB12	15.45	25
1-1/4"	GF51	77.25	GB16	23.15	25	B17	17.90	25	---	---	--
1-1/2"	GF61	72.10	GB21	21.20	25	B17	17.90	25	---	---	--
2"	GF81 ²	86.20	GB26 ²	23.60	10	B27	28.60	10	---	---	--
2-1/2"	GF96	214.40	GB31	55.75	5	B32	68.80	5	---	---	--
3"	GF111	222.05	GB36	66.80	5	B37	58.15	5	---	---	--
4"	GF141	496.10	GB46	156.70	5	B47	168.00	5	---	---	--
6"	GF201 ¹	1183.25	GB66	365.00	2	B67	248.25	2	---	---	--



¹ 1/4", 3/8" and 6" come only with copper seat spuds
² not to be used with #250, #275 or #306 Boss clamps



female spud



male spud



double spud

Thread	Part #	Price/E	Opt Qty	Part #	Price/E	Part #	Price/E
1/4"	GBC ¹	\$18.65	100	---	---	---	---
3/8"	GCC ¹	21.95	100	GMC ¹	\$20.00	---	---
1/2"	GB3	18.25	100	GM3	22.90	GDB3	\$35.15
3/4"	GB8	15.90	50	GM8	21.70	GDB13	35.40
1"	GB13	16.50	50	GM13	22.90	GDB13	35.40
1-1/4"	GB18	36.20	25	GM18	51.85	GDB23	61.50
1-1/2"	GB23	33.00	25	GM23	50.00	GDB23	61.50
2"	GB28	34.00	10	GM28	54.00	GDB28	64.30
2-1/2"	GB33	89.85	5	GM33	128.10	GDB33	131.35
3"	GB38	97.10	5	GM38	134.70	GDB38	137.70
4"	GB48	171.40	5	---	---	---	---
6"	GB68 ¹	570.00	2	---	---	---	---

¹ 1/4", 3/8" and 6" come only with copper seat spuds



A list of products recommended for steam service can be found on page 91.

Boss Holedall Fittings

Applications:

Boss Holedall fittings are designed for air and liquid applications where a permanent, low profile clamping system is desired. Both fittings are supplied with carbon steel ferrules. Consult Dixon for swage and/or crimp specifications.

Size	Hose OD		Plated Iron / Steel		Stainless Steel	
	From:	To:	Part #	Price/E	Part #	Price/E
¾"	1-10/64"	1-14/64"	GF26P1	\$58.15	---	---
	1-15/64"	1-18/64"	GF26P2	58.15	---	---
	1-19/64"	1-22/64"	GF26P3	58.15	---	---
1"	1-30/64"	1-34/64"	GF36P1	61.55	---	---
	1-35/64"	1-38/64"	GF36P2	61.55	---	---
	1-39/64"	1-42/64"	GF36P3	61.55	---	---
1½"	1-20/64"	2"	GF61P1	121.70	RGF61P1	\$440.00
	2-1/64"	2-8/64"	GF61P2	121.70	RGF61P2	440.00
	2-9/64"	2-16/64"	GF61P3	121.70	---	---
2"	2-36/64"	2-40/64"	GF81P1	125.00	RGF81P1	580.00
	2-41/64"	2-48/64"	GF81P2	125.00	RGF81P2	580.00
	2-49/64"	2-56/64"	GF81P3	125.00	---	---
3"	3-26/64"	3-40/64"	GF111P1	342.30	---	---
	3-41/64"	3-48/64"	GF111P2	342.30	---	---
	3-49/64"	3-56/64"	GF111P3	342.30	---	---



Not for steam service.



D

Boss Adapters

These fittings have male or female NPT threads and are designed to fit the standard ground joint spuds on page 94. Supplied with a wing nut, as shown. For safety tags and safety tape, see page 672.

Feature:

- plated steel and / or iron

male NPT adapters

Size	Part #	Price/E	Pkg Qty
¾"	GMAS6	\$51.50	25
1"	GMAS11	53.70	25
1¼"	GMAS16	74.00	10
1½"	GMAS21	88.85	10
2"	GMAS26 ¹	92.50	10

¹ uses a special wing nut, part # B27-3



female NPT adapters

Size	Part #	Price/E
¾"	GFAS6	\$101.40
1"	GFAS11	110.00
1¼"	GFAS16	125.00
1½"	GFAS21 ¹	150.00
2"	GFAS26	162.00

¹ Part is produced as a welded fabrication.



Boss Wing Nut Caps

Features:

- plated steel and / or iron
- Supplied with 12" chain and washer.
- For best results, use with washer style spuds and washers on pages 96 and 97.



Boss wing nut caps are not intended for pressure applications.

Size	Part #	Price/E	Opt Qty
¾" and 1"	B12SC	\$44.60	25
1¼" and 1½"	B17SC	53.20	25
2"	B27SC	80.65	10
3"	B37SC	131.25	5



316 Stainless Steel Ground Joint

recommended for steam service up to **450°F**

D



complete female



stem



wing nut



female spud

Size	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	RGF26	\$219.30	RGB6	\$78.25	RB12	\$70.00	RGB8	\$71.05
1"	RGF36	240.70	RGB11	98.90	RB12	70.00	RGB13	71.80
1¼"	RGF51	354.75	RGB16	109.45	RB17	115.30	RGB18	130.00
1½"	RGF61	426.15	RGB21	118.45	RB17	115.30	RGB23	192.40
2"	RGF81 ¹	560.00	RGB26 ¹	173.00	RB27	194.60	RGB28	192.40



¹ not to be used with #250, #275 or #306 Boss clamps

Brass Ground Joint



complete female



stem



wing nut



female spud

Size	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	BGF26	\$155.15	BGB6	\$59.00	BB12	\$47.70	BGB8	\$48.45
1"	BGF36	173.20	BGB11	55.50	BB12	47.70	BGB13	70.00
1¼"	BGF51	227.60	BGB16	56.70	BB17	81.00	BGB18	89.90
1½"	BGF61	255.75	BGB21	76.00	BB17	81.00	BGB23	98.75
2"	BGF81 ¹	437.80	BGB26 ¹	142.00	BB27	155.40	BGB28	140.40



¹ not to be used with #250, #275 or #306 Boss clamps

316 Stainless Steel Washer Style



complete female



stem



wing nut



female spud

washer²

Size	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
¾"	RWF26	\$223.60	RB6	\$76.05	RB12	\$70.00	RB8	\$76.60	W12	\$0.95
1"	RWF36	233.15	RB11	84.80	RB12	70.00	RB13	77.40	W12	0.95
1¼"	RWF51	347.30	RB16	122.70	RB17	115.30	RB18	108.00	W17	1.30
1½"	RWF61	440.40	RB21	136.30	RB17	115.30	RB23	187.50	W17	1.30
2"	RWF81 ¹	559.45	RB26 ¹	177.00	RB27	194.60	RB28	186.40	W27	1.45



¹ not to be used with #250, #275 or #306 Boss clamps

² washer is nitrile rubber bonded, non-asbestos Klingspil® C-4401

• Brass Washer Style available, consult Dixon for pricing and availability.

Boss Washer Seal

Features:

Washer Type

- A Klingersil® C-4401 washer is inserted between the stem and spud.
- A leakproof seal is formed by rotating the wing nut and hammering it tight.
- recommended for steam service up to **450°F**
- easy to seal
- works with existing fittings
- *plated steel and / or iron*
- use with Boss clamps found on pages 99 and 100.



complete female



stem



wing nut

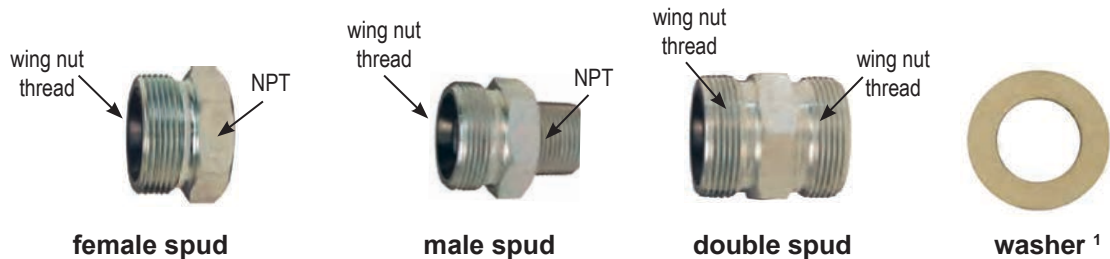


knurled nut

Hose Shank x NPT	Part #	Price/E	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
3/8"	WF3	\$32.60	SS337	\$7.45	100	CB	\$11.60	100	---	---	---
1/2"	WF6	32.10	B1	11.75	100	B2	7.35	100	---	---	---
1/2" x 3/4"	WF26-1	42.45	B6-1	18.70	50	B12	9.75	25	---	---	---
3/4"	WF26	38.35	B6	14.60	50	B12	9.75	25	KB12	\$15.45	25
1"	WF36	39.30	B11	15.75	50	B12	9.75	25	KB12	15.45	25
1-1/4"	WF51	83.25	B16	30.55	25	B17	17.90	25	---	---	---
1-1/2"	WF61	73.60	B21	23.95	25	B17	17.90	25	---	---	---
2"	WF81 ¹	91.40	B26 ¹	26.40	10	B27	28.60	10	---	---	---
2-1/2"	WF96	216.50	B31	66.55	5	B32	68.80	5	---	---	---
3"	WF111	227.30	B36	78.45	5	B37	58.15	5	---	---	---



¹ not to be used with #250, #275 or #306 Boss clamps



Thread	Part #	Price/E	Opt Qty	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/8"	CC	\$12.85	100	WMC	\$15.20	---	---	WBC	\$0.70
1/2"	B3	12.20	100	WM3	26.55	DB3	\$23.60	W2	0.80
3/4"	B8	13.05	25	WM8	19.45	DB13	27.90	W12	0.95
1"	B13	12.85	50	WM13	23.20	DB13	27.90	W12	0.95
1-1/4"	B18	33.50	25	WM18	44.00	DB23	42.30	W17	1.30
1-1/2"	B23	30.45	25	WM23	53.85	DB23	42.30	W17	1.30
2"	B28	34.95	10	WM28	60.00	DB28	56.90	W27	1.45
2-1/2"	B33	79.50	5	---	---	---	---	W32	1.65
3"	B38	88.10	5	WM38	130.00	DB38	115.65	W37	2.60

¹ washer is nitrile rubber bonded, non-asbestos Klingersil® C-4401

Boss Male Stems



plated steel barstock



plated iron



316 stainless



brass

D

Hose x NPT Size	Plated Steel Bar Stock			Size	Plated Iron			Size	316 Stainless			Size	Brass	
	Part #	Price/E	Opt Qty		Part #	Price/E	Opt Qty		Part #	Price/E	Part #		Price/E	
1/4" x 1/8"	MS4X2	\$9.35	25	---	---	---	---	1/2"	RMS1	\$62.30	---	---	---	
1/4" x 1/4"	MSA	7.25	50	---	---	---	---	3/4"	RMS6	62.50	3/4"	BMS6	\$38.70	
1/4" x 3/8"	MSB	8.40	25	---	---	---	---	1"	RMS11	63.00	1"	BMS11	53.35	
3/8" x 1/4"	MS6X4	8.00	25	1 1/4"	MS16	\$23.50	20	1 1/4"	RMS16	120.00	1 1/4"	BMS16	72.65	
3/8" x 3/8"	MSC	6.30	100	1 1/2"	MS21	26.10	20	1 1/2"	RMS21	122.50	1 1/2"	BMS21	87.75	
3/8" x 1/2"	MS6X8	11.10	25	2"	MS26	36.40	10	2"	RMS26	130.80	2"	BMS26	136.65	
1/2" x 1/4"	MS8X4	7.80	25	2 1/2"	MS31	65.30	5	2 1/2"	RMS31	250.00	---	---	---	
1/2" x 3/8"	MS8X6	7.80	50	3"	MS36	88.70	5	3"	---	---	3"	BMS36	316.20	
1/2" x 1/2"	MS1	6.45	25	4"	MS46	150.00	2	4"	---	---	---	---	---	
1/2" x 3/4"	MS8X12	18.60	25	---	---	---	---	---	---	---	---	---	---	
3/4" x 1/2"	MS12X8	14.60	25	---	---	---	---	---	---	---	---	---	---	
3/4" x 3/4"	MS6	9.80	25	---	---	---	---	---	---	---	---	---	---	
3/4" x 1"	MS12X16	22.00	25	---	---	---	---	---	---	---	---	---	---	
1" x 3/4"	MS16X12	21.90	25	---	---	---	---	---	---	---	---	---	---	
1" x 1"	MS11	14.35	25	---	---	---	---	---	---	---	---	---	---	

• Use with Boss clamps on pages 99 and 100. For safety tags and safety tape see page 672.

LP-Boss Male Stems



male NPT end



beveled end

Size	Plated Steel		316 Stainless		Schedule 80 Plated Steel		Unplated Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1 1/4"	LP16	\$63.00	---	---	LP16-80¹	\$66.50	---	---
1 1/2"	LP21	60.00	---	---	LP21-80¹	69.00	---	---
2"	LP26	53.20	---	---	LP26-80¹	71.85	LPB26	\$63.35
2 1/2"	LP31	126.50	---	---	---	---	---	---
3"	LP36	125.00	RLP36	\$221.40	---	---	LPB36	115.40
4"	LP46	164.00	RLP46	375.00	---	---	---	---
6"	LP66	340.00	---	---	---	---	---	---

¹ schedule 80 stems meet NFPA 58

Boss Hose Menders

Features:

- collars engage gripping fingers of Boss clamps
- 3/4" - 3" plated iron; 1/2" plated steel



Size	Part #	Price/E	Size	Part #	Price/E
1/2"	M1	\$10.20	1 1/2"	M21	\$21.35
3/4"	M6	18.40	2"	M26	36.60
1"	M11	29.80	2 1/2"	M31	62.60
1 1/4"	M16	21.75	3"	M36	75.40

Features:

- polymer seat



Boss Spud x Hose Shank

Size	Steel	
	Part #	Price/E
1"	GH1311	\$38.20
2"	GH2826	79.00

Boss Clamps

Hose ID	Hose OD		Plated Iron		Opt Qty	Stainless Steel		Torque ³	Brass		Torque
	From:	To:	Part #	Price/E		Part #	Price/E		Part #	Price/E	
1/4"	3/64"	42/64"	BD ⁴	\$8.90	100	---	---	6	---	---	--
3/8"	44/64"	56/64"	CD ⁴	8.50	100	---	---	6	---	---	--
1/2"	52/64"	60/64"	DD ⁴	9.45	100	---	---	6	---	---	--
1/2"	58/64"	1-2/64"	968 ¹	14.90	50	---	---	6	---	---	--
1/2"	60/64"	1-4/64"	B4 ⁴	8.15	25	RB4	\$138.40	12	BB4	\$31.00	10
1/2"	1-4/64"	1-12/64"	B5 ⁴	9.80	25	---	---	12	---	---	--
3/4"	1-10/64"	1-20/64"	BU9 ⁴	10.25	50	RBU9	184.00	21	BBU9	44.30	18
3/4"	1-20/64"	1-32/64"	B9	11.30	25	RB9	197.80	21	---	---	18
3/4"	1-32/64"	1-44/64"	B10 ⁴	12.95	25	---	---	21	---	---	--
1"	1-26/64"	1-36/64"	156 ¹	19.35	20	---	---	21	---	---	--
1"	1-34/64"	1-46/64"	BU14	19.35	25	RBU14	192.40	21	BBU14	90.00	18
1"	1-44/64"	1-60/64"	B14	19.80	25	RB14	192.40	21	BB14	102.20	18
1"	1-60/64"	2-8/64"	B15	21.95	20	---	---	21	---	---	--
1-1/4"	1-32/64"	1-50/64"	BU18	31.40	10	---	---	40	---	---	--
1-1/4"	1-44/64"	1-56/64"	187 ¹	28.80	10	---	---	21	---	---	--
1-1/4"	1-50/64"	2-6/64"	BU19	34.95	10	---	---	40	---	---	--
1-1/4"	1-56/64"	2-4/64"	206 ¹	25.10	20	---	---	21	---	---	--
1-1/4"	2-8/64"	2-24/64"	B19	28.60	10	RB19	207.70	40	---	---	28
1-1/2"	1-52/64"	2"	BU22	36.00	10	---	---	40	---	---	--
1-1/2"	2"	2-14/64"	B22	33.40	10	---	---	40	---	---	--
1-1/2"	2"	2-8/64"	212 ¹	34.40	10	---	---	21	---	---	--
1-1/2"	2-4/64"	2-16/64"	225 ¹	36.05	10	---	---	40	---	---	--
1-1/2"	2-12/64"	2-24/64"	BU24	29.50	10	RBU24	211.05	40	---	---	28
1-1/2"	2-24/64"	2-36/64"	B24	27.10	10	RB24	204.00	40	---	---	--
1-1/2"	2-36/64"	2-48/64"	B25	30.60	10	---	---	40	---	---	--
2"	2-16/64"	2-32/64"	250 ^{1,5}	36.70	10	---	---	40	---	---	--
2"	2-22/64"	2-34/64"	BU28	40.10	10	---	---	60	---	---	--
2"	2-32/64"	2-48/64"	275 ^{1,5}	41.40	10	---	---	40	---	---	--
2"	2-32/64"	2-50/64"	BU29	35.70	10	RBU29	295.00	60	BBU29 ²	170.50	40
2"	2-48/64"	3-4/64"	B29	39.50	10	RB29	309.00	60	---	---	--
2"	2-48/64"	3-4/64"	306 ^{1,5}	49.20	10	---	---	60	---	---	--
2"	3-6/64"	3-28/64"	B30	62.35	5	---	---	60	---	---	--
2-1/2"	3-4/64"	3-32/64"	350 ¹	52.25	5	---	---	60	---	---	--
2-1/2"	3-6/64"	3-28/64"	BU34	66.80	5	---	---	60	---	---	--
2-1/2"	3-32/64"	3-60/64"	B34	84.65	5	---	---	150	---	---	--
3"	3-32/64"	3-48/64"	375 ¹	65.60	5	---	---	60	---	---	--
3"	3-32/64"	3-60/64"	BU35	97.25	5	RBU35	461.70	150	---	---	--
3"	3-48/64"	4"	401 ¹	109.20	5	---	---	150	---	---	--
3"	3-52/64"	4-4/64"	B35	90.50	5	---	---	150	---	---	--
3"	4"	4-12/64"	418 ¹	125.45	4	---	---	200	---	---	--
3"	4-4/64"	4-28/64"	B39	116.55	5	---	---	200	---	---	--
3"	4-12/64"	4-32/64"	450 ¹	122.00	2	---	---	200	---	---	--



two clamp sections
2-bolt type
2 gripping fingers
1/4" - 1/2" design

D



two clamp sections
4-bolt type
2 gripping fingers



two clamp sections
4-bolt type
4 gripping fingers

¹ 4 gripping fingers and 4 bolts

² will become obsolete as inventory is depleted

³ torque applies to plated iron and stainless steel clamps

⁴ global investment cast carbon steel

⁵ not to be used with GF81, GB26, WF81, B26, RGF81, RGB26, BGF81, BGB26, RWF81, RB26



WARNING

- Replacement nuts and bolts are available, contact Dixon for more information.
- The bolts used in the Boss interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length and material hardness. These bolts can be retorqued, but it is **not** recommended that the bolts or clamps be reused, as they are designed for a single bend only. Dixon recommends using only factory supplied replacement bolts.
- Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance. *Do not lubricate nuts and bolts.*
- See page 704 for Fraction to Decimal conversion chart.
- recommended torque rating in ft. lbs.

Boss Clamps

D



three clamp sections
6-bolt type
3 gripping fingers



Hose ID	Hose OD		Plated Iron		Opt Qty	Torque
	From:	To:	Part #	Price/E		
3"	4-16/64"	4-52/64"	BS39	\$218.40	2	150
4"	4-40/64"	5"	B45	221.55	2	150
4"	4-56/64"	5-16/64"	BS49	333.00	2	200
4"	5-16/64"	5-38/64"	BU49	408.00	2	200
4"	5-34/64"	5-60/64"	B49	416.55	2	200
6"	6-56/64"	7-24/64"	750	410.00	1	200
6"	7-32/64"	8"	850	413.50	1	200

- Replacement nuts and bolts are available, contact Dixon for more information.
- The bolts used in the Boss interlocking clamps are not standard bolts. They vary from standard bolts in their length, diameter, overall thread length and material hardness. These bolts can be retorqued, but it is **not** recommended that the bolts or clamps be reused, as they are designed for a single bend only. Dixon recommends using only factory supplied replacement bolts.
- Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance. *Do not lubricate nuts and bolts.*
- See page 704 for Fraction to Decimal conversion chart.
- recommended torque rating in ft. lbs.

Ground Joint Air Hammer Couplings

Features:

- Ground Joint Type - rounded steel head of stem fits concave inserts in spuds for superior sealing.
- metal-to-metal copper seat seal
- *plated steel* and / or *iron*
- for use with Boss clamps



complete female



stem



wing nut

Style	Hose ID and NPT Sizes	Coarse Nut Thread	Part #	Price/E	Plated Steel		Iron	
					Part #	Price/E	Part #	Price/E
Compact	1/2"	1-31/64" OD x 8 TPI	GDF6	\$44.20	GBA45	\$13.00	J47	\$11.25
	3/4"		GDF8	48.65	GBA46	13.80	J47	11.25
Heavy Duty	3/4"	1-47/64" OD x 8 TPI	GDF10	62.35	GBB18	21.00	DLB12	14.75
	1"		GDF12	54.85	GBB11	17.40	DLB12	14.75



female spud



male spud



double spud

Style	Hose ID and NPT Sizes	Coarse Nut Thread	Plated Steel w/ Copper seat		Plated Steel w/ Copper seat		Plated Steel w/ Copper seat	
			Part #	Price/E	Part #	Price/E	Part #	Price/E
Compact	1/2"	1-31/64" OD x 8 TPI	GJ65	\$19.95	GJ60	\$27.40	GJ75	\$32.50
	3/4"		GJ55	23.60	GJ50	25.10	GJ75	32.50
Heavy Duty	3/4"	1-47/64" OD x 8 TPI	GDL8	26.60	GDL7	33.20	GDL25	34.80
	1"		GDL13	22.70	GDL10	30.55	GDL25	34.80

LP Gas Hose Couplings and Adapters

Features:

- female Acme filler hose couplings
- Acme x NPT adapters
- Products meet or exceed the requirements of Compressed Gas Association (CGA), the National Fire Protection Association (NFPA), the Canadian Gas Association, American Society of Mechanical Engineers (ASME) and Underwriters Laboratories (UL)

Brass Male Acme x MNPT Adapters



ME217



ME233



ME503-16

Male Acme Thread	Male NPT Thread	Part #	Brass	
				Price/E
1 3/4"	1 1/4"	ME217		\$33.55
2 1/4"	1 1/4"	ME233		129.00
3 1/4"	2"	ME503-16		161.65

Brass Male Acme x FNPT Adapter



ME252-16

Male Acme Thread	Female NPT Thread	Part #	Brass	
				Price/E
1 3/4"	1"	ME214		\$33.55
3 1/4"	2"	ME252-16		147.15

Steel Male Acme x MNPT Adapters



ME217S



ME503S-16

Male Acme Thread	Male NPT Thread	Steel	
		Part #	Price/E
1 3/4"	1 1/4"	ME217S	\$81.05
2 1/4"	1 1/4"	ME233S	158.60
3 1/4"	2"	ME503S-16	336.85

Steel Male Acme x FNPT Adapter



ME252S-16

Male Acme Thread	Female NPT Thread	Steel	
		Part #	Price/E
3 1/4"	2"	ME252S-16	\$229.85

Wrench



Description	Aluminum	
	Part #	Price/E
Acme spanner wrench for 1 3/4", 2 1/4", 3 1/4" and 4 1/4" fittings	MEP120B	\$102.10

LP Gas Hose Couplings and Adapters

Female Acme x Male Acme Adapters



ME612



ME612S

Female Acme Thread	Male Acme Thread	Material	Part #	Price/E
3/4"	1 3/4"	brass	ME612	\$245.40
3/4"	1 3/4"	steel	ME612S	362.35

Female Acme x MNPT Filler Couplings, Brass Nut



ME112



ME130



ME120

Female Acme Thread	Male NPT Thread	Material	Part #	Price/E
1 3/4"	1"	brass nut, brass nipple	ME112	\$42.50
2 1/4"	1 1/4"	brass nut, brass nipple	ME120	194.10
2 1/4"	1 1/4"	brass nut, steel nipple	ME120S	199.65
3 1/4"	2"	brass nut, steel nipple	ME130	283.65

Female Acme x MNPT Filler Couplings, Steel Nut



ME112S



ME130S



ME121S

Female Acme Thread	Male NPT Thread	Material	Part #	Price/E
1 3/4"	1"	steel nut and nipple	ME112S	\$94.00
2 1/4"	1 1/4"	steel nut and nipple	ME121S	202.90
3 1/4"	2"	steel nut and nipple	ME130S	232.50

Acme Gaskets

Size	Material	Part #	Price/E
1 3/4"	nitrile	MEW2	\$0.60
2 1/4"	nitrile	MEW5	3.05
3 1/4"	nitrile	MEW6	3.25

Clamp Style Hose Couplings

- Clamp sections and hose barbs are made of steel and ductile iron.

- The 32B and 32S size offers a female Acme swivel to eliminate the need to add additional weight and bulk to the hose assembly.



ME3162-20



ME3162-32B

Hose Barb Size	Thread Size	Material	Part #	Price/E
1"	1" MNPT	steel nipple with 2 piece ductile iron clamp	ME3162-16	\$87.90
1 1/4"	1 1/4" MNPT	steel nipple with 2 piece ductile iron clamp	ME3162-20	141.20
1 1/2"	1 1/2" MNPT	steel nipple with 2 piece ductile iron clamp	ME3162-24	184.40
2"	2" MNPT	steel nipple with 2 piece ductile iron clamp	ME3162-32	210.70
2"	3/4" female Acme	steel nipple and brass nut with 2 piece ductile iron clamp	ME3162-32B	418.50
2"	3/4" female Acme	steel nipple and steel nut with 2 piece ductile iron clamp	ME3162-32S	413.70

Safety Break-away Coupling - Breaking Bolt Series Industrial Version - Female NPT x Female NPT

Application:

- designed to be installed between a fixed point (pipe, pump, manifold) and a hose
- coupling automatically senses an excessive load, closes the valves and disconnects
- suitable for LP Gas service

Features:

- high flow rate / low pressure drop
- female NPT is standard, optional ANSI / DIN flanges or male NPT are available
- working pressure: **360 PSI** at ambient temperature (70°F)
- Viton® is standard seal



Size	DN	Stainless Steel	
		Part #	Price/E
2"	50	SBC200SS	\$3667.85

E

LP Gas Hose Caps and Plugs Metal Acme Caps



ME229



ME441F

Female Acme Thread	Description	Part #	Price/E
1 3/4"	cap with ring and chain, brass	ME229-1	\$65.50
1 3/4"	cap with ring and chain, steel	ME229S-1	111.40
2 1/4"	cap with knob plug and chain, brass	ME431F-1	165.40
2 1/4"	cap with knob plug, ring, chain, steel	ME431FS-1	186.85
3 1/4"	cap knob with ring and chain, brass	ME441F-1	250.05
3 1/4"	cap with knob plug, ring and chain, steel	ME441FS-1	273.85

Plastic Acme Caps



ME109



ME109-NH3

Female Acme Thread	Description	Part #	Price/E
1 3/4"	cap with ring and chain, yellow plastic	ME109-1	\$7.85
1 3/4"	cap with chain assembly, for any hydrous service	ME109-NH3-1	8.90

Plastic Dust Plugs



ME179



ME180



ME181

Male Acme Thread	Description	Part #	Price/E
1 3/4"	plug with dust seal and chain assembly, yellow plastic	ME179-1	\$29.45
2 1/4"	plug with dust seal and chain assembly, yellow plastic	ME180-1	35.95
3 1/4"	plug with dust seal and chain assembly, yellow plastic	ME181-1	78.95

Air King Universal Couplings

Hose Ends



Features:

- may use with Air King ferrules

Size	Iron		Opt Qty	Brass		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E		Qty	Price/E
3/8"	AMH ¹	\$10.40	25	ABH	\$37.80	25	RAMH	\$75.30
1/2"	AM1	7.05	50	AB1 ¹	24.10	50	RAM1	57.40
5/8"	AM5	10.40	50	AB5	26.20	50	---	---
3/4"	AM6	7.05	50	AB6 ¹	24.95	50	RAM6	48.25
1"	AM11	9.90	50	AB11	32.00	50	RAM11	53.35

Male NPT Ends



Size	Iron		Opt Qty	Brass		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E		Part #	Price/E
1/4"	AMB1	\$10.75	25	ABB1	\$26.90	25	---	---
3/8"	AMB	9.35	25	ABB	31.50	25	RAMB	\$82.45
1/2"	AM2	8.20	50	AB2 ¹	26.10	50	RAM2	55.65
3/4"	AM7	8.40	50	AB7 ¹	25.80	50	RAM7	49.80
1"	AM12	9.20	50	AB12	26.80	50	RAM12	53.35

Female NPT Ends



Size	Iron		Opt Qty	Brass		Opt Qty	316 Stainless Steel	
	Part #	Price/E		Part #	Price/E		Part #	Price/E
1/4"	AMC1	\$9.70	25	ABC1	\$28.85	25	---	---
3/8"	AMC	9.35	25	ABC	28.50	25	RAMC	\$78.20
1/2"	AM3	8.55	50	AB3 ¹	22.15	50	RAM3	57.40
3/4"	AM8	8.30	50	AB8 ¹	26.35	50	RAM8	49.80
1"	AM13	10.40	50	AB13	26.80	50	RAM13	55.90

Blank Ends



Iron		Opt Qty	Brass		Opt Qty	316 Stainless Steel	
Part #	Price/E		Part #	Price/E		Part #	Price/E
AM0	\$13.25	25	AB0	\$26.60	25	RAM0	\$51.80

Triple Connections



Iron		Opt Qty	Brass		Opt Qty
Part #	Price/E		Part #	Price/E	
AM10	\$24.00	25	AB10	\$54.10	25

¹ global investment cast

- Prices for Universal couplings listed above include safety clip.
- The use of an Air King safety clip or wire type retainer is necessary to ensure Air King universal couplings will not become accidentally disconnected. This guarantees the fittings are properly connected because the safety pin will not go through the holes in mating flanges until couplings are locked in place. Only one Air King safety clip or wire type retainer is required for each Air King universal coupling.
- To provide protection against coupling breakage and related hazards, Dixon recommends the use of a whip hose. See page 684 for Whip Hose safety information.
- Air King is rated to **150 PSI** at ambient temperature (**70°F**).
- Air King fittings are supplied with rubber washers, part # AWR4
- Air King meets pressure requirements as specified in A-A-59553 commercial item description superseding Mil Spec.WWC-633D.



Air King is for air and water service only *Warning: Never use any Air King coupling for steam service!*
None of Dixon's catalog information is to be interpreted to mean that this type of coupling is suitable for use on steam hose.

Global Air King Universal Couplings Hose Ends

Size	Plated Steel		Pkg Qty
	Part #	Price/E	
1/2"	GAM1	\$3.70	25
3/4"	GAM6	4.00	50
1"	GAM11	5.30	50



Male NPT Ends

Size	Plated Steel		Pkg Qty
	Part #	Price/E	
1/2"	GAM2	\$4.30	25
3/4"	GAM7	4.70	50
1"	GAM12	5.30	50



Female NPT Ends

Size	Plated Steel		Pkg Qty
	Part #	Price/E	
1/2"	GAM3	\$3.90	25
3/4"	GAM8	4.10	50
1"	GAM13	4.50	50



Blank End

Plated Steel		Pkg Qty
Part #	Price/E	
GAM0	\$4.25	25



Triple Connection

Plated Steel		Pkg Qty
Part #	Price/E	
GAM10	\$9.05	25



- Price for Universal couplings listed above includes safety clip.
- couplings are supplied with rubber washers, part # AWR4

Global Air King 4 - Lug Quick-Acting Couplings

Features:

- Price for couplings listed below includes safety clip.
- rated to **150 PSI** at ambient temperature (70°F)
- use with Boss clamps, see page 99-100.
- couplings are supplied with rubber washers, part # AWR14

- *Not to be used for steam service.*
- *Must use safety clips. Safety clips are same size for both 2-lug and 4-lug Air King Couplings, see page 108.*



Hose Ends

Size	Plated Steel		Pkg Qty
	Part #	Price/E	
1¼"	GAM16	\$13.15	25
1½"	GAM21	15.35	25
2"	GAM26	18.00	10



Female NPT Ends

Size	Plated Steel		Pkg Qty
	Part #	Price/E	
1¼"	GAM18	\$12.30	25
1½"	GAM23	13.40	25
2"	GAM28	14.50	20



Air King is for air and water service only *Warning: Never use any Air King coupling for steam service!*
None of Dixon's catalog information is to be interpreted to mean that this type of coupling is suitable for use on steam hose.

Global Air King Ferrules

Features:

- a low profile streamline appearance with maximum retention.
- lightweight
- can be crimped
- designed for global Air King
- See page 731 for crimp recommendations and ferrule OD ranges.



Size	Ferrule ID	Plated Steel	
		Part #	Price/E
1/2"	0.906	CCF0906	\$1.05
	1.120	CCF1120	1.55
	1.149	CCF1149	1.55
3/4"	1.190	CCF1190	1.55
	1.218	CCF1218	1.55
	1.246	CCF1246	1.55
	1.438	CCF1438	2.25
1"	1.469	CCF1469	2.25
	1.500	CCF1500	2.25
	1.531	CCF1531	2.25

E

Air King Clamps



- Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance.



Size	Hose OD		Plated Iron		Opt Qty	Torque ¹
	From:	To:	Part #	Price/E		
3/8"	44/64"	56/64"	CD ³	\$8.50	100	6
1/2"	1"	1-12/64"	A4	8.60	50	6
3/4"	1-8/64"	1-20/64"	A9 ³	9.85	50	21
1"	1-20/64"	1-32/64"	A10 ^{2,3}	12.75	50	21
1"	1-32/64"	1-52/64"	A14	17.20	50	21

¹ recommended torque rating in lbs.

² can be used with **AM6** and **AM11**

³ global investment cast carbon steel

Air King 4 - Lug Quick-Acting Couplings

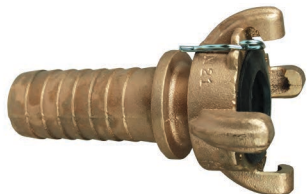
Features:

- Prices for couplings listed includes safety clip.
- rated to **150 PSI** at ambient temperature (70°F)
- use with Boss clamps, see page 99.
- couplings are supplied with rubber washers, part # AWR14

- **Warning:** Not to be used for steam service.
- **Caution:** Must use safety clips. Safety clips are same size for both 2-lug and 4-lug, Air King Couplings see page 108.

WARNING

Hose Ends



Size	Iron		Brass		Opt Qty
	Part #	Price/E	Part #	Price/E	
1¼"	AM16	\$27.80	AB16 ¹	\$63.50	25
1½"	AM21	28.85	AB21 ¹	65.80	25
2"	AM26	40.75	AB26	84.60	10

¹ Item will be discontinued when stock is depleted.

Female NPT Ends



Size	Iron		Brass		Opt Qty
	Part #	Price/E	Part #	Price/E	
1¼"	AM18	\$27.80	AB18 ¹	\$72.50	25
1½"	AM23	26.40	AB23 ¹	68.65	25
2"	AM28	33.20	AB28	79.70	10

¹ Item will be discontinued when stock is depleted.



Air King is for air and water service only **Warning:** Never use any Air King coupling for steam service!
None of Dixon's catalog information is to be interpreted to mean that this type of coupling is suitable for use on steam hose.

Air King with Ferrules

Application:

- Universal design provides quick, easy and effective coupling of air hose.
- Exclusive interlocking ferrule can be crimped or swaged to achieve maximum coupling sealing and retention with a low profile streamline appearance. For crimp or swage diameter recommendations see page 730.

Features:



- iron and stainless steel Air King with carbon steel ferrules can be crimped or swaged
- rated to **150 PSI** working pressure at ambient temperature (70°F)
- for air and water service only

Style	Hose OD		Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	54/64"	1-2/64"	AM1WF	\$14.50	---	---
3/4"	1-4/64"	1-22/64"	AM6WF	12.15	RAM6WF	\$64.00
1"	1-18/64"	1-34/64"	AM11WF-1	22.00	---	---
1"	1-30/64"	1-46/64"	AM11WF	15.90	---	---



E

Air King with Gauge Port

Features:

- drilled with 1/4" NPT for mounting gauge
- gauge sold separately

Size	Iron		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
3/4"	AM7T	\$23.60	RAM7T	\$76.00



Air King Universal Swivels

Application:

- These universal swivel fittings interchange with other Air King fittings and include a heavy-duty, free-turning joint that swivels under pressure to prevent hose kinking.

Features:



- Working pressure: **150 PSI** at ambient temperature (70°F). For air and water service only.



hose end



male NPT



female NPT

Style	Iron		Iron		Iron	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	---	---	AM2SWIV	\$62.50	---	---
3/4"	AM6SWIV	\$72.10	AM7SWIV	59.60	AM8SWIV	\$63.10



Air King is for air and water service only *Warning: Never use any Air King coupling for steam service!* None of Dixon's catalog information is to be interpreted to mean that this type of coupling is suitable for use on steam hose.

Compressor Y

Application:

- converts a single supply source to a dual outlet

Female NPT Inlet (1)	Male NPT Outlet (2)	Iron	
		Part #	Price/E
1"	3/4"	Y10075	\$59.75



Air King Accessories

Applications:

- The use of an Air King safety clip or wire type retainer is necessary to ensure couplings will not become accidentally disconnected.
- This guarantees the fittings are properly connected as the pin will not go through the holes in the mating flanges until couplings are locked in place.
- Only one Air King safety clip or wire type retainer is required for each Air King universal coupling.

E

Standard Safety Clip



- same size for all coupling sizes

Wire Diameter	Part #	Price/E	Pkg Qty
.080	AC1	\$0.30	25

Air King Safety Pins



- heavy duty
- oversized

Wire Diameter	Part #	Price/E
.058	AKSP1	\$1.30
.091	AKSP25	1.45

Stainless Steel Clip



- same size for all coupling sizes

Wire Diameter	Part #	Price/E
.072	AC7	\$2.25

Lanyards



- synthetic cord
- same size for all coupling sizes

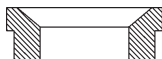
Part #	Price/E	Pkg Qty
ACL8	\$0.40	25



- 304 stainless
- breaking strength: 160 lbs.
- overall length: 7" eye to eye

Part #	Price/E
LR7	\$7.75

Washers



- all 2 lug couplings use the same size washer (AWR4 and AWS6)
- all 4 lug couplings use the same size washer (AWR14)
- rubber temperature range: **-20°F to 160°F**
- neoprene temperature range: **-20°F to 190°F**
- neoprene is oil resistant


Part #	Material	Description	Price/E	Pkg Qty
AWR4	<i>rubber</i>	2 lug	\$0.60	50
AWS6	<i>neoprene</i>	2 lug	0.80	50
AWR14	<i>rubber</i>	4 lug	4.40	---

Sand Blast Couplings

Applications:

- Sand blast couplings are designed for use on sand blast hose.

Features:

- supplied with screws
- nozzle holders have 1 $\frac{1}{4}$ " NPSM thread
- rated to **110 PSI** at ambient temperature (70°F)
-  Abrasive blasting equipment must have hose safety cables (page 119) or hose coupling safety locks.

Installation:

- Ends of hose must be cut square to fit snug against metal end.
- Holding hose tight to end of fitting, insert screws and turn in full, putting screw 180° from first to ensure best centering.
- After all screws have been placed, check tube opposite screws to be sure screws have not penetrated completely through.
- On quick couplings, insert safety clips

E

Quick Couplings

Hose Size	Hose OD	Brass		Aluminum	
		Part #	Price/E	Part #	Price/E
3/4"	1-1/2"	BSB75	\$47.35	ASB75	\$16.10
1"	1-7/8"	BSB100	48.20	ASB100	17.95
1-1/4"	2-5/32"	BSB125	85.70	ASB125	30.15
1-1/2"	2-3/8"	BSB150	96.15	ASB150	35.35



Nozzle Holders

Hose Size	Hose OD	Brass		Aluminum	
		Part #	Price/E	Part #	Price/E
3/4"	1-1/2"	BNH75	\$44.00	ANH75	\$14.75
1"	1-7/8"	BNH100	50.30	ANH100	16.80
1-1/4"	2-5/32"	BNH125	72.90	ANH125	22.10
1-1/2"	2-3/8"	BNH150	94.65	ANH150	29.25



Threaded Couplings

Hose Size	Brass		Aluminum	
	Part #	Price/E	Part #	Price/E
1-1/4"	BSC125	\$52.70	ASC125	\$15.90
1-1/2"	BSC150	52.70	ASC150	15.90



Replacement Parts

Part #	Description	Price/E
SBG	black nitrile replacement gasket	\$1.20
USBG	urethane replacement gasket	4.85
SBCS	replacement screw, sold only in multiples of 8	0.45

Surelock Quick Acting Couplings

Applications:

- The Surelock coupling is a multi-purpose coupling for water and air, commonly used in construction and mining. This coupling excels where ease, economy, safety and speed are paramount. They are stocked in sizes from 3/8" through 2". The pressure activated gasket allows easy coupling (less than 15 lbs. of force is required to connect the coupling) and gaskets seal upon introduction of line pressure.

Features:

- body: SG iron AS1831 400-250-12
- bellow seal: natural rubber (patent pending), other seal material available upon request



- working pressure: **500 PSI** at ambient temperature (70°F)
- Safety pin is supplied with each coupling and is required as a safety precaution.

E



Hose Ends

Head	Size	Part #	Price/E	Pkg Qty
small	3/8"	SL038H	\$10.20	50
	1/2"	SL050H	11.00	50
	3/4"	SL075H	11.70	50
	1"	SL100H	13.50	50
medium	1-1/2"	SL150H	39.00	15
	2"	SL200H	46.75	10



Male NPT Ends

Head	Size	Part #	Price/E	Pkg Qty
small	3/8"	SL038M	\$13.40	50
	1/2"	SL050M	13.30	50
	3/4"	SL075M	12.70	50
	1"	SL100M	13.30	50
medium	1-1/2"	SL150M	38.25	15
	2"	SL200M	39.25	15



Female NPT Ends

Head	Size	Part #	Price/E	Pkg Qty
small	3/8"	SL038F	\$14.00	50
	1/2"	SL050F	14.40	50
	3/4"	SL075F	11.70	50
	1"	SL100F	13.25	50
medium	1-1/2"	SL150F	35.00	15
	2"	SL200F	35.75	15

Surelock Quick Acting Couplings with Ferrules

Application:

- Universal design provides quick, easy and effective coupling of air hose.

Features:

- Exclusive interlocking ferrule can be crimped or swaged to achieve maximum coupling sealing and retention with a low profile streamline appearance. See page 732 for crimp recommendations.



- Dixon recommends that all hose assemblies be tested in accordance with RMA testing procedures.
- rated to **500 PSI** working pressure at ambient temperature (70°F)
- for air and water service only



Head	Size	Hose OD		Part #	Price/E
		From:	To:		
small	1/2"	1/2"	1-2/64"	SL050CR	\$16.40
	3/4"	3/4"	1-22/64"	SL075CR	17.90
	1"	1"	1-46/64"	SL100CR	18.50

Surelock Accessories

Blank Ends

Head	Size	Part #	Price/E	Pkg Qty
small	½" to 1"	SL00	\$13.40	15
medium ¹	1½" to 2"	SL01	44.00	3

¹ medium blank end comes with 1" NPT pipe plug



small blank end

medium blank end ¹

Three Way Connectors

Head	Size	Part #	Price/E	Pkg Qty
small	½" to 1"	SL09	\$32.20	15
medium ¹	1½" to 2"	SL10	129.25	3

¹ medium three way connector comes with 1" NPT pipe plug



small three way connector

medium three way connector ¹

Standard Natural Rubber Seals

Head	Size	Part #	Price/E	Pkg Qty
small	½" to 1"	SLR1	\$1.60	1
medium	1½" to 2"	SLR2	2.00	1



SLR2

Safety Locking Pin



Warning: The use of a safety locking pin is necessary to ensure that Surelock couplings will not become accidentally disconnected. This guarantees that the fittings are properly connected as the pin will not go through the holes in both couplings until the couplings are locked into place.

Part #	Price/E	Pkg Qty
SLP1	\$0.32	25



Dix-Lock Quick Acting Couplings

Feature:

- Dix-Lock is rated to **300 PSI** at ambient temperature (70°F)

Male Head x Hose End

Body Size	Hose Shank Size	Material	Part #	Price/E	Opt Qty
3/8"	1/2"	plated steel	QM1	\$54.58	25
1/2"	3/8"	plated steel	QM2	23.41	25
1/2"	1/2"	plated steel	QM3	23.88	25
1/2"	3/4"	plated steel	QM4	23.88	25
1/2"	1"	plated steel	QM5	26.43	25
1/2"	3/8"	brass	QB2	40.21	--
1/2"	1/2"	brass	QB3	40.21	--
1/2"	3/4"	brass	QB4	40.21	--
1/2"	1"	brass	QB5	40.79	25
1/2"	3/4"	303 stainless	QSS4	80.96	--

Female Head x Hose End

Body Size	Hose Shank Size	Material	Part #	Price/E	Opt Qty
3/8"	1/2"	plated steel	QM20	\$47.72	25
1/2"	3/8"	plated steel	QM21	19.35	25
1/2"	1/2"	plated steel	QM22	19.35	25
1/2"	3/4"	plated steel	QM23	19.35	25
1/2"	1"	plated steel	QM25	21.32	25
1/2"	3/8"	brass	QB21	28.94	--
1/2"	1/2"	brass	QB22	28.94	--
1/2"	3/4"	brass	QB23	28.94	--
1/2"	1"	brass	QB25	31.77	25
1/2"	3/4"	303 stainless	QSS23	59.43	--

Male Head x Male NPT End

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
3/8"	1/2"	plated steel	QM40	\$51.46	25
1/2"	3/8"	plated steel	QM41	24.68	25
1/2"	1/2"	plated steel	QM42	24.68	25
1/2"	3/4"	plated steel	QM43	24.68	25
1/2"	1"	plated steel	QM45	26.43	25
1/2"	3/8"	brass	QB41	36.07	--
1/2"	1/2"	brass	QB42	36.07	--
1/2"	3/4"	brass	QB43	36.07	25
1/2"	1"	brass	QB45	37.73	--
1/2"	3/4"	303 stainless	QSS43	80.96	10

Female Head x Male NPT End

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
3/8"	1/2"	plated steel	QM60	\$42.41	25
1/2"	3/8"	plated steel	QM61	19.35	25
1/2"	1/2"	plated steel	QM62	19.35	25
1/2"	3/4"	plated steel	QM63	19.35	25
1/2"	1"	plated steel	QM65	34.61	25
1/2"	3/8"	brass	QB61	28.94	--
1/2"	1/2"	brass	QB62	28.94	--
1/2"	3/4"	brass	QB63	28.94	--
1/2"	1"	brass	QB65	31.65	25
1/2"	3/4"	303 stainless	QSS63	59.43	--

E



Dix-Lock Quick Acting Couplings

Features:

- Dix-Lock is rated to **300 PSI** at ambient temperature (70°F)

Male Head x Female NPT End

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
1/2"	3/8"	plated steel	QM81	\$23.88	25
1/2"	1/2"	plated steel	QM82	23.88	25
1/2"	3/4"	plated steel	QM83	23.88	25
1/2"	1"	plated steel	QM85	26.43	25
1/2"	3/8"	brass	QB81	37.61	--
1/2"	1/2"	brass	QB82	37.61	--
1/2"	3/4"	brass	QB83	37.61	--
1/2"	1"	brass	QB85	39.26	25
1/2"	3/4"	303 stainless	QSS83	80.96	--



E

Female Head x Female NPT End

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
1/2"	3/8"	plated steel	QM101	\$19.35	25
1/2"	1/2"	plated steel	QM102	19.35	25
1/2"	3/4"	plated steel	QM103	19.35	25
1/2"	1"	plated steel	QM105	21.32	25
1/2"	3/8"	brass	QB101	28.94	--
1/2"	1/2"	brass	QB102	28.94	--
1/2"	3/4"	brass	QB103	28.94	--
1/2"	1"	brass	QB105	31.77	25
1/2"	3/4"	303 stainless	QSS103	59.29	--



Male Locking Head x Hose Shank

Body Size	Hose Shank Size	Material	Part #	Price/E
1/2"	1/2"	plated steel	QM33	\$32.72
1/2"	3/4"	plated steel	QM44	31.87
1/2"	1/2"	brass	QB33	43.86
1/2"	3/4"	brass	QB44	43.86



Male Locking Head x Male NPT

Body Size	NPT Thread Size	Material	Part #	Price/E
1/2"	1/2"	plated steel	QM66	\$32.72
1/2"	3/4"	plated steel	QM88	32.72
1/2"	1/2"	brass	QB66	43.86
1/2"	3/4"	brass	QB88	43.86



Positive safety lock

With locking nut in place sleeve cannot be moved to open coupling.

Dix-Lock Gaskets

Body Size	Buna-N	
	Part #	Price/E
3/8"	QBM1	\$1.39
1/2"	QBM2	1.39



Dix-Lock Converter



Body Size	Part #	Plated Steel		Opt Qty
		Price/E		
1/2"	QMO	\$64.03		25

Dix-Lock Cap

E



Body Size	Part #	Brass		Opt Qty	Plated Steel		Opt Qty
		Price/E			Part #	Price/E	
1/2"	QBCAP	\$26.06		25	QMCAP	\$22.69	25

Dix-Lock Quick-Acting Couplings with Ferrules

Features:

- rated to **300 PSI** working pressure at ambient temperature (70°F)
- for crimp recommendations see page 729
- also available in stainless steel, contact Dixon for further information

Male Head



Body Size	Hose ID	Hose OD		Material	Part #	Price/E
		From:	To:			
1/2"	1/2"	27/32"	1-1/32"	plated steel	QM3WF	\$33.20
1/2"	3/4"	1-5/32"	1-11/32"	plated steel	QM4WF	33.20
1/2"	1/2"	27/32"	1-1/32"	brass	QB3WF	50.20
1/2"	3/4"	1-5/32"	1-11/32"	brass	QB4WF	50.20

Female Head



Body Size	Hose ID	Hose OD		Material	Part #	Price/E
		From:	To:			
1/2"	1/2"	27/32"	1-1/32"	plated steel	QM22WF	\$26.60
1/2"	3/4"	1-5/32"	1-11/32"	plated steel	QM23WF	26.60
1/2"	1/2"	27/32"	1-1/32"	brass	QB22WF	36.60
1/2"	3/4"	1-5/32"	1-11/32"	brass	QB23WF	36.60

Male Locking Head



Body Size	Hose ID	Hose OD		Material	Part #	Price/E
		From:	To:			
1/2"	1/2"	27/32"	1-1/32"	plated steel	QM33WF	\$41.60
1/2"	3/4"	1-5/32"	1-11/32"	plated steel	QM44WF	41.60
1/2"	1/2"	27/32"	1-1/32"	brass	QB33WF	52.90
1/2"	3/4"	1-5/32"	1-11/32"	brass	QB44WF	52.90

Dual Lock Quick-Acting Couplings

Features:

- Interchanges with National A type, Dixon Quick Coupling P type and Thor PHC series couplings.
- PM and PF series must be used with mating locking sleeve fittings.
- spring loaded interlocking engagement
- full opening permits full flow to tool
- optional locking key prevents sleeve retraction
- **300 PSI** working pressure at ambient temperature (70°F)
- trivalent chrome plated

Male Pipe Thread

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
1/2"	3/8"	plated steel	PM6	\$19.72	25
1/2"	1/2"	plated steel	PM8	19.35	25
1/2"	3/4"	plated steel	PM12	20.32	25
1/2"	1"	plated steel	PM16	22.78	25
1/2"	1/2"	brass	PMB8	58.78	25
1/2"	3/4"	brass	PMB12	63.47	25
1/2"	1"	brass	PMB16	63.47	25
1/2"	3/4"	303 stainless	PM12SS	141.52	10



Must be used with locking sleeve fittings below.

E

Female Pipe Thread

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
1/2"	3/8"	plated steel	PF6	\$22.74	25
1/2"	1/2"	plated steel	PF8	24.63	25
1/2"	3/4"	plated steel	PF12	24.74	25
1/2"	1"	plated steel	PF16	26.94	25
1/2"	1/2"	brass	PFB8	62.87	25
1/2"	3/4"	brass	PFB12	61.29	25
1/2"	1"	brass	PFB16	63.47	25
1/2"	3/4"	303 stainless	PF12SS	141.52	10



Must be used with locking sleeve fittings below.

Hose End Barb with Locking Sleeve

Body Size	Hose Shank Size	Material	Part #	Price/E	Opt Qty
1/2"	3/8"	plated steel	PHL6	\$35.23	25
1/2"	1/2"	plated steel	PHL8	35.23	25
1/2"	3/4"	plated steel	PHL12	37.22	25
1/2"	1"	plated steel	PHL16	56.71	25
1/2"	3/4"	brass	PHLB12	82.73	25
1/2"	1"	brass	PHLB16	90.21	25
1/2"	3/4"	303 stainless	PHL12SS	327.82	10



Male Pipe Thread with Locking Sleeve

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
1/2"	3/8"	plated steel	PML6	\$33.33	25
1/2"	1/2"	plated steel	PML8	33.15	25
1/2"	3/4"	plated steel	PML12	33.15	25
1/2"	3/4"	303 stainless	PML12SS	285.84	10



Female Pipe Thread with Locking Sleeve

Body Size	NPT Thread Size	Material	Part #	Price/E	Opt Qty
1/2"	1/2"	plated steel	PFL8	\$37.96	25
1/2"	3/4"	plated steel	PFL12	37.96	25
1/2"	3/4"	303 stainless	PFL12SS	273.53	10



Replacement Gaskets

Buna-N		FKM	
Part #	Price/E	Part #	Price/E
855206	\$2.63	452963	\$6.54



Locking Key

Body Size	Steel	
	Part #	Price/E
1/2"	855231	\$1.81



fits couplings with locking sleeve

Dual Lock Quick-Acting Couplings with Ferrule

Features:

- Dual Lock couplings with ferrules are rated to **300 PSI** working pressure at ambient temperature (70°F).
- trivalent chrome plated coupling with plated steel ferrule
- also available in brass and stainless steel
- for crimp recommendations see page 729



Body Size	Hose ID	Hose OD		Part #	Price/E
		From:	To:		
1/2"	1/2"	5/16"	1-2/64"	PHL8WF	\$42.00
1/2"	3/4"	1-10/64"	1-22/64"	PHL12WF	43.95

E

Dual Lock Quick-Acting Couplings with Knurled Flanged Sleeve

Features:

- large, raised collar sleeve permits easier handling when wearing gloves
- trivalent chrome plated steel

Hose End Barb with Knurled Flanged Sleeve



Body Size	Hose ID Size	Part #	Price/E	Opt Qty
1/2"	3/8"	PHL6FS	\$38.99	25
1/2"	1/2"	PHL8FS	38.99	25
1/2"	3/4"	PHL12FS	40.98	25

Male Pipe Thread with Knurled Flanged Sleeve



Body Size	NPT Thread Size	Part #	Price/E	Opt Qty
1/2"	3/8"	PML6FS	\$37.09	25
1/2"	1/2"	PML8FS	36.91	25
1/2"	3/4"	PML12FS	36.91	25

Female Pipe Thread with Knurled Flanged Sleeve



Body Size	NPT Thread Size	Part #	Price/E	Opt Qty
1/2"	1/2"	PFL8FS	\$41.72	25
1/2"	3/4"	PFL12FS	41.72	25

Dual Y Valves

Features:

- dual action valve, ideal for compressor applications
- female NPT threads
- non-vented rated to **600 PSI WOG**
- vented rated to **125 PSI CWP** (Cold Working Pressure)



vented

Non-Vented

Female NPT Inlet (1)	Female NPT Outlet (2)	Brass	
		Part #	Price/E
1"	3/4"	BBV100DW	\$156.10
1 1/4"	3/4"	BBV125DW	156.10

Vented

Female NPT Inlet (1)	Female NPT Outlet (2)	Brass	
		Part #	Price/E
1"	3/4"	BBV100DWV	\$156.10
1 1/4"	3/4"	BBV125DWV	156.10

Steel 3500 Nipples

Features:

- rated to **600 PSI** working pressure at ambient temperature (70°F)
- for *air and water service only*
- The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide protection against coupling breakage and related hazards, Dixon recommends the use of a whip hose. To construct a whip hose, connect one end of a short (3' to 10') air hose to the air tool using a 3500 type steel nipple. Connect the other end of the hose to the air supply using the standard quick-acting coupling. The heat-treated 3500 nipple will withstand vibration far better than the standard coupling and provide a safer connection. The whip hose should remain permanently connected to the tool.



Male Nipples

Hose Size	NPT Size	Zinc Plated Steel		Opt Qty
		Part #	Price/E	
1/4"	1/8"	3501	\$6.80	100
1/4"	1/4"	3502	5.50	100
1/4"	3/8"	3504	7.20	100
3/8"	1/4"	3505	6.60	100
3/8"	3/8"	3506	6.45	100
3/8"	1/2"	3508	9.60	100
1/2"	1/4"	3509	7.65	100
1/2"	3/8"	3510	7.30	100
1/2"	1/2"	3512	9.00	100
1/2"	3/4"	3511	13.00	50
3/4"	1/2"	3513	12.75	50
3/4"	3/4"	3514	11.60	50
3/4"	1"	3515	24.10	25
1"	3/4"	3516	20.45	25
1"	1"	3518	17.40	25



Female Nipples

Hose Size	NPT Size	Zinc Plated Steel		Opt Qty
		Part #	Price/E	
1/4"	1/4"	3542	\$11.70	100
3/8"	1/4"	3545	11.90	50
3/8"	3/8"	3546	12.15	50
1/2"	3/8"	3550	11.55	100
1/2"	1/2"	3552	14.25	50
3/4"	3/4"	3554	19.50	50



3500 Nipples with Ferrules

- zinc plated steel 3500 nipple with carbon steel ferrule
- can be crimped or swaged-on to achieve maximum coupling sealing and retention, for crimp dimensions see page 729
- low profile, streamline appearance.

Hose Size	NPT Size	Hose OD		Steel	
		From:	To:	Part #	Price/E
3/8"	1/4"	46/64"	50/64"	3505WF	16.20
3/8"	1/2"	46/64"	50/64"	3508WF	18.90
1/2"	1/4"	54/64"	58/64"	3509WF	18.00
1/2"	3/8"	54/64"	58/64"	3510WF	17.80
1/2"	3/4"	54/64"	58/64"	3511WF	24.00
1/2"	1/2"	54/64"	58/64"	3512WF	21.25
3/4"	3/4"	1-10/64"	1-14/64"	3514WF	21.70
1"	1"	1-30/64"	1-34/64"	3518WF	23.60
1"	1"	1-34/64"	1-38/64"	3518WF2	23.60



In-Line Lubricators

Application:

- Designed to protect portable or stationary air tools by efficiently oiling the tool mechanisms. Each time an air tool is operated, a fine mist of oil is injected into it along with the air from the compressor.

Features:

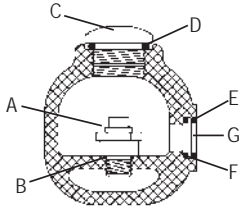
- Installation is recommended within 25 feet of the tool to be lubricated. Refer to the arrow for proper air flow direction.
- Transparent sight disc allows visual inspection of oil level. Oil flow regulated by screwdriver screw adjustment. Minimum flow rate is 30 SCFM.

Not recommended for constant flow applications. For reciprocating tools only.



Type of oil to use: Use any petroleum-based, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. *Do not use any synthetic oil or oils containing additives or solvents.* See page 136 for air tool lubricant.

E



NPT Size	Oil Capacity	Max. Working Pressure at ambient temperature (70°F)	Air Flow at 70 PSI	Aluminum	
				Part #	Price/E
½"	1.4 fluid ozs.	500 PSI	30 SCFM	PL300	\$111.80
¾"	3.7 fluid ozs.	200 PSI	70 SCFM	PL400	116.90
¾"	11.0 fluid ozs.	300 PSI	70 SCFM	PL400L	145.00
1"	16.0 fluid ozs.	250 PSI	100 SCFM	PL500	193.40

Replacement Parts

Description	Part #	Price/E	Description	Part #	Price/E
(A) oil adjustment valve assembly	851661	\$46.00	(D) fill plug O-ring	700013-214	\$1.70
(B) valve gasket	452531	2.75	(E) sight disk	452532	2.90
(C) fill plug	452525	14.00	(F) sight disk seal	700013-016	2.00
			(G) sight disk lock nut	452533	6.75

Application:

- Designed specifically for the protection of small air tools, such as impact wrenches, nut runners, grinders and screwdrivers. The all-anodized, lightweight aluminum housing is compact and can be used directly before the air tool.

Features:

- maximum operating pressure: **500 PSI**
- operating temperatures: **35°F to 200°F**
- air flow is 140 SCFM



- male x female
- standard element is 40 micron, which ensures minimum pressure drop
- elements can be replaced quickly

Male NPT	Overall Length	Diameter	Weight Lbs.	Aluminum	
				Part #	Price/E
¾"	3-13/16" ozs.	1½"	.46	9076M	\$72.00

In-Line Lubricator with Filter

Features:

- Combination unit consists of **9076M** particle filter with 40 micron sintered bronze element and **PL400** (3.7 ounce) or **PL400L** (11.0 ounce) lubricator.



NPT Size	Oil Capacity	Max. Work. Press. at ambient temp. (70°F)	Aluminum	
			Part #	Price/E
¾"	3.7 fluid ozs.	200 PSI	PL400WF	\$197.10
	11.0 fluid ozs.	300 PSI	PL400LWF	223.25

In-Line Lubricator Base



Lubricator is not included with the base

Application:

- Base can be fitted to any existing PL lubricator, keeps lubricator from flipping or rolling over, ensuring that it provides continuous lubrication to the downstream air tool.

Description	Aluminum	
	Part #	Price/E
leveling base for PL300	LB300	\$15.00
leveling base for PL400	LB400	15.75
leveling base for PL500	LB500	16.00

King Safety Cables

Application:

- When hose, couplings or clamps fail, or there is an accidental separation of the assembly, King safety cables minimize damage to equipment and injuries to operators.
- King safety cable reaches across the hose fittings to provide standby safety for hose. Spring-loaded loops in the cable ends open easily to pass over the couplings for a firm grip on the hose.
- Thoroughly tested with years of service. A positive safeguard for air hose connections - helps you meet today's safety standards. *King safety cable must be installed in the extended position (no slack).*

Features:

- hose-to-hose or hose-to-rigid outlet
- King cable is the low cost answer to eliminate injuries caused by broken air hose connections
- highly resistant to rust and corrosion
- no tools needed - easy to install and remove
- maximum working pressure: **200 PSI**



incorrect installation



correct installation



Style WSR, for hose-to-tool service

Hose ID	Cable	Length	Maximum Working Pressure PSI	Steel		Stainless Steel	
				Part #	Price/E	Part #	Price/E
1/2" - 1 1/4"	1/8"	20 1/4"	200	WSR1	\$18.45	WSR1SS	\$48.25
1/2" - 2"	3/16"	28"	200	WSR3	26.50	---	---
1 1/2" - 3"	1/4"	38"	200	WSR2	29.10	WSR2SS	101.80
4"	3/8"	44"	200	WSR4	64.40	---	---



Style W, for hose-to-hose service

Hose ID	Cable	Length	Maximum Working Pressure PSI	Steel		Stainless Steel	
				Part #	Price/E	Part #	Price/E
1/2" - 1 1/4"	1/8"	20 1/4"	200	WB1	\$18.45	WB1SS	\$51.05
1/2" - 2"	3/16"	28"	200	WB3	27.35	---	---
1 1/2" - 3"	1/4"	38"	200	WA2	30.00	WA2SS	107.10
4"	3/8"	44"	200	WA4	64.45	---	---

Note: Cables are shipped with safety restraint labels attached. Labels are not pictured.

King Safety Cable Options



WB1C

WB1 with safety clip and lanyard



WSR1E

WSR1E with stainless steel marine eye

Hose ID	Cable	Part #	Description	Max. Work. Press. PSI	Price/E
1/2" - 1 1/4"	1/8"	WSR1C	WSR1 with safety clip and lanyard used to lock Air King couplings	200	\$32.10
1/2" - 1 1/4"	1/8"	WB1C	WB1 with safety clip and lanyard used to lock Air King couplings	200	31.55
1/2" - 1 1/4"	1/8"	WSR1E	WSR1 with stainless steel safety marine eye used to connect safety cable to a bolt on tool	200	53.25
1 1/2" - 3"	1/4"	WA2B	WA2 with bronze/copper ferrule for special environmental conditions	200	60.10

• see page 683 for OSHA regulations



ASME Air Receiver Manifold

Features:

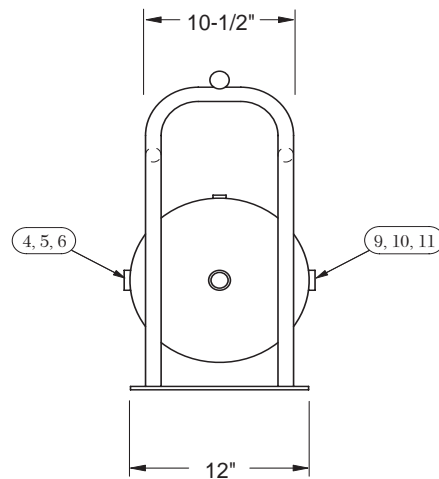
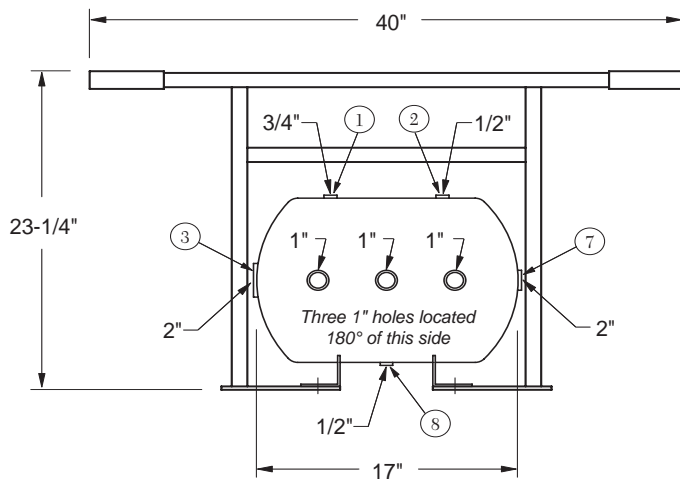
- built to ASME Code, National Board registered
- 7 gallon capacity
- all openings are female NPT thread
- conforms to OSHA standards 1910.169 and 1926.306
- painted safety orange
- **200 PSI** working pressure



1217AR-4AK



1217AR-4FR



Dixon 1217AR-4AK air receiver manifold assembly with Air King outlet ports includes the following:

Part # / Locations	Description	Price/E	Price
1217AR-4	ASME compressed air receiver	---	\$1185.00
1217FRAME	1 protective frame	---	390.00
Location 1	1 HB2F6M 3/4" male x 1/4" female hex bushing	\$7.65	7.65
	1 GL345 0-300 PSI gauge	18.95	18.95
Location 2	1 HB2F4M 1/2" male x 1/4" female hex bushing	4.19	4.19
	1 SV200 safety pop-off valve	35.75	35.75
Location 3	1 GM28 2" male spud	54.00	54.00
	1 B27SC wing nut cap	80.65	80.65
Locations 4, 5, 6, 9, 10, 11	6 HB1075G 1" male x 3/4" female bushings	6.55	39.30
	6 BCN75 3/4" brass hex nipples	7.47	44.82
	6 BBLV75 ball valves	66.50	399.00
	6 SCVS6 safety shut-off valves	95.00	570.00
	6 AM7 Air King universal couplings	8.40	50.40
	4 SE45100 45° street elbow (1 each in locations 4, 6, 9 and 11 only)	9.20	36.80
Location 7	1 HB2075 2" male x 3/4" female bushing	8.45	8.45
	1 BCN75 3/4" brass hex nipples	7.47	7.47
	1 BBLV75 ball valve	66.50	66.50
	1 SCVS6 safety shut-off valve	95.00	95.00
	1 AM7 Air King universal coupling	8.40	8.40
Location 8	1 HB2F4M 1/2" male x 1/4" female hex bushing	4.19	4.19
	1 D04 1/4" drain cock	4.90	4.90
	Labor cost for assembly of complete unit	---	320.00
1217AR-4AK	7 gallon ASME compressed air receiver manifold complete assembly with Air King	---	3431.42
1217AR-4PHL	7 gallon ASME compressed air receiver manifold complete assembly with Dual Lock	---	3885.45
	Tank and Frame only		
1217AR-4FR	7 gallon ASME compressed air receiver with frame only	---	\$1575.00

ASME Air Receiver Manifold Assembly with Air King Fittings and Watts Filter

Application:

- Designed to remove compressed air contaminants such as water, compressor oil, dirt, pipe scale and water particles from the air supply at the point of entry into the ASME air receiver manifold.

Features:

- includes basic 1217AR-4AKASME manifold assembly
- F602-16WJR 2" auto drain filter with 26 ounce metal bowl and related plumbing installed on the inlet port of the ASME air receiver manifold
- Air supply hose connects directly to GM28 2" male spud on the filter air inlet.
- includes a B27SC wing nut cap with a chain

ASME air receiver manifold assembly with air king fittings and Watts filter



E

Size	Part #	Price/E
2" inlet, 3/4" outlets	1217AR-4AKWF	\$4712.85

Wilkerson Combination Unit with Protective Frame

Application:

- Provides downstream air preparation with protective frame

Features:

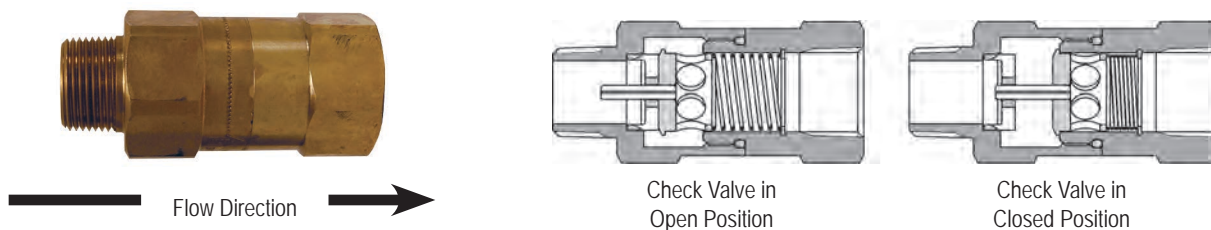
- C31-08AMB 1" FRL with metal bowls and auto drain filter
- FBV100 1" brass ball valve and AM12 air king on inlet port
- BBV100DTW 2-way ball valve installed between regulator and lubricator provides option for non-lubricated air
- heavy duty frame protects air prep components
- operating conditions:
 - maximum pressure: **250 PSIG**
 - temperature range: **40°F to 150°F**
 - SCFM: 320

FRL with protective frame

Size	Part #	Price/E
1"	C31-08FRAME	\$1910.00



Safety Check Valves



E Application:

- conforms to OSHA regulation 1926.302 (b) (7) requiring a safety device at the source of the air supply and at branch air lines
- applications include temporary plant/factory air, construction sites, shipyards or utilities

Features:

- high flow valve to provide optimum performance
- controls excess air flow (SCFM) in only one direction
- automatically senses change in air flow and shuts off the flow in the event of a surge in excess of valve flow rating thus preventing hose whip



- not for use in applications where 100% of the available air is required, i.e. sand blast, pile driving rigs, expansion joint blow down pipes, etc.*
- does not prevent backflow*

Construction:

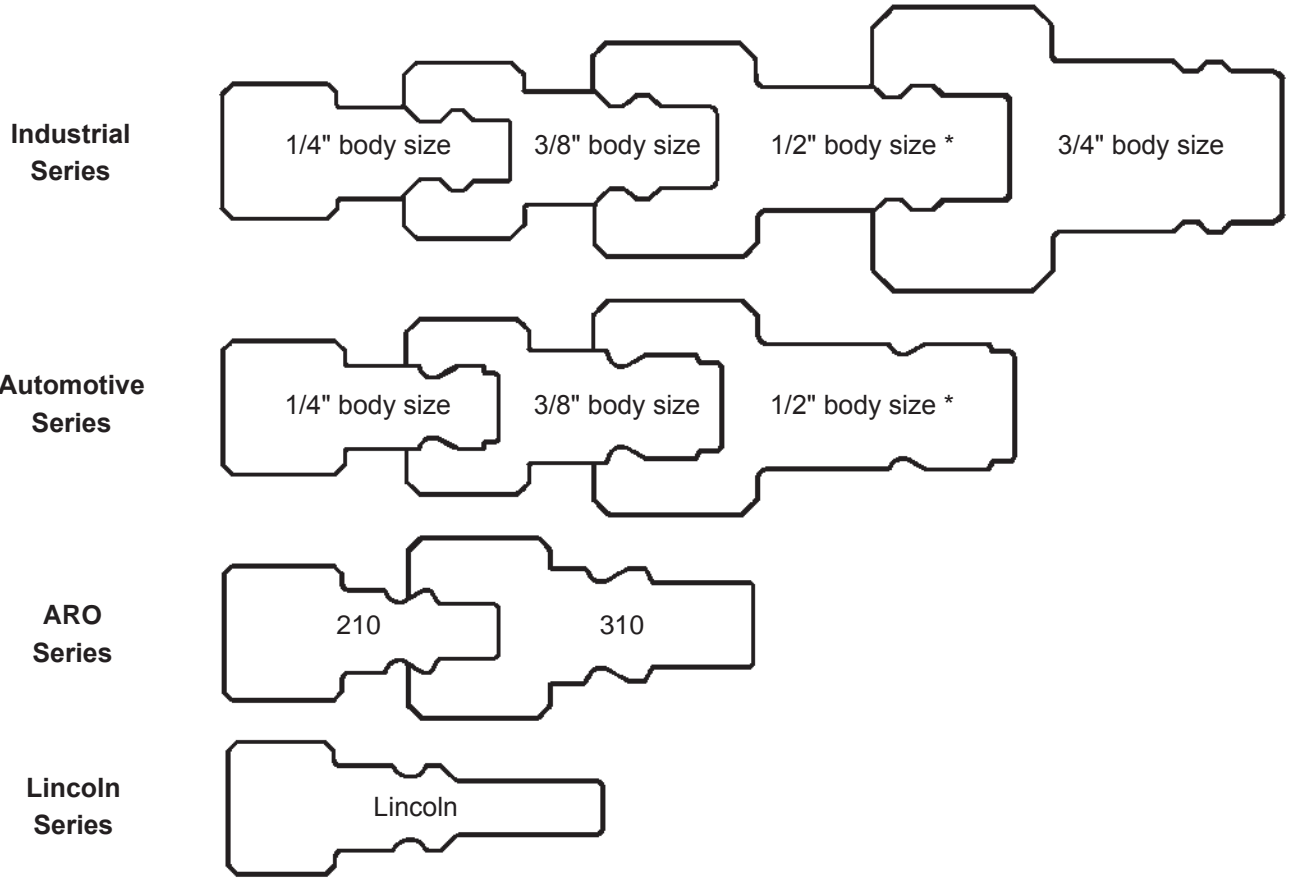
- solid brass body and valve
- stainless steel spring and roll pin
- maximum working pressure: **250 PSI**
- maximum temperature: **250°F**

Use:

- Safety check valves operate by using the pressure differential across the valve to operate the valve and spring assembly. The pressure differential is directly related to the flow of air (SCFM) through the valve.
- When the pressure differential is within the operating limits - below the cutoff flow - of the unit, the force on the valve exerted by the spring is greater than that caused by the pressure differential (see "Open Position" graphic above). The valve remains open and normal operation continues.
- When the pressure differential is above the cutoff limit, the force on the valve exerted by the pressure differential is greater than the force exerted by the spring, and the valve closes (see the "Closed Position" graphic above).
- After the repair is made, normal operation is automatically enabled when pressure across the valve equalizes through the bleeder hole.
- The valve spring size can be specified by determining the air flow during normal operation and by estimating the air flow if a failure or rupture occurs.

NPT and Hose ID Size	Part #	Cut-off Flow Rate (SCFM at 90 PSI)	Price/E	NPT and Hose ID Size	Part #	Cut-off Flow Rate (SCFM at 90 PSI)	Price/E
1/4"	SCVL2	23-29	\$59.60	1-1/4"	SCVL10	260-290	\$221.95
3/8"	SCVM3	39-47	55.90		SCVM10	300-340	221.95
	SCVS3	52-65	55.90		SCVS10	440-500	221.95
1/2"	SCVM4	70-78	60.03		SCVH10	570-630	221.95
	SCVS4	80-96	60.03	1-1/2"	SCVL12	300-360	373.29
3/4"	SCVL6	72-88	95.01		SCVM12	470-530	373.29
	SCVM6	92-108	95.01		SCVS12	640-720	373.29
	SCVR6	112-128	95.01		SCVH12	750-830	373.29
	SCVJ6	132-148	95.01	2"	SCVL16	510-590	508.37
	SCVS6	160-180	95.01		SCVM16	725-825	508.37
SCVH6	180-200	95.01	SCVS16		900-1050	508.37	
1"	SCVL8	165-195	107.45	SCVH16	1100-1200	508.37	
	SCVM8	220-260	107.45	3"	SCVL24	1200-1400	2158.73
	SCVS8	280-320	107.45		SCVS24	2400-2700	2158.73
	SCVH8	310-340	107.45		SCVH24	2850-3050	2158.73

Actual Size Profile Chart



E

* 1/2" industrial series may also interchange with 1/2" automotive series

1/4" Ball Swivel Plugs

Features:

- threaded portion is brass
- plug and nut portion is nickel-plated hardened steel
- rated **250 PSI**

Male NPT Ball Swivel x Industrial Plug

Size	Part #	Price/E	Opt Qty
1/4"	DCP21SWIV	\$16.75	10



Male NPT Ball Swivel x ARO Plug

Size	Part #	Price/E	Opt Qty
1/4"	DCP37SWIV	\$16.75	10



Male NPT Ball Swivel x Automotive Plug

Size	Part #	Price/E	Opt Qty
1/4"	DCP1SWIV	\$16.75	25



Air Chief Industrial Interchange Quick-Connect Plugs

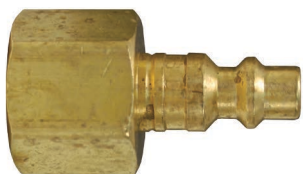
Application:

- Air Chief industrial quick-connect plugs are the popular industrial interchange design and will interchange with many other makes.

Features:

- rated to **300 PSI**
- temperature range: **-40°F to 250°F**
- for *air service only*
- interchanges with MIL Spec. MIL-C-4109F/A-A-59439

E



Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	steel	37 CFM	DCP2021	\$3.55	20
1/4"	1/4"	steel	37 CFM	DCP20	2.85	20
1/4"	3/8"	steel	37 CFM	DCP2023	5.80	20
3/8"	1/4"	steel	70 CFM	DCP2622	4.60	10
3/8"	3/8"	steel	70 CFM	DCP26	5.30	10
3/8"	1/2"	steel	70 CFM	DCP2624	10.10	10
1/2"	3/8"	steel	150 CFM	DCP1823	9.90	10
1/2"	1/2"	steel	150 CFM	DCP18	8.70	10
1/2"	3/4"	steel	150 CFM	DCP1826	14.95	10
3/4"	1/2"	steel	200 CFM	DCP7024	16.60	10
3/4"	3/4"	steel	200 CFM	DCP7026	18.15	5
3/4"	1"	steel	200 CFM	DCP7028	32.95	5
1/4"	1/4"	brass	37 CFM	DCP20B	3.31	20
1/4"	3/8"	brass	37 CFM	DCP2023B	5.08	20
1/4"	1/4"	303 stainless	37 CFM	DCP20S	11.24	5
3/8"	3/8"	303 stainless	70 CFM	DCP26S	25.55	5
1/2"	1/2"	303 stainless	150 CFM	DCP18S	27.82	5



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	steel	37 CFM	DCP2101	\$2.80	20
1/4"	1/4"	steel	37 CFM	DCP21	2.45	20
1/4"	3/8"	steel	37 CFM	DCP2103	4.00	20
3/8"	1/4"	steel	70 CFM	DCP2502	4.15	10
3/8"	3/8"	steel	70 CFM	DCP25	4.15	10
3/8"	1/2"	steel	70 CFM	DCP2504	8.60	10
1/2"	3/8"	steel	150 CFM	DCP1703	7.10	10
1/2"	1/2"	steel	150 CFM	DCP17	6.85	10
1/2"	3/4"	steel	150 CFM	DCP1706	13.35	10
3/4"	1/2"	steel	200 CFM	DCP7104	15.10	10
3/4"	3/4"	steel	200 CFM	DCP7106	15.35	5
3/4"	1"	steel	200 CFM	DCP7108	23.95	5
1/4"	1/8"	brass	37 CFM	DCP2101B	3.53	20
1/4"	1/4"	brass	37 CFM	DCP21B	2.32	20
1/4"	3/8"	brass	37 CFM	DCP2103B	4.41	20
1/4"	1/4"	303 stainless	37 CFM	DCP21S	8.86	5
3/8"	3/8"	303 stainless	70 CFM	DCP25S	18.17	5
1/2"	1/2"	303 stainless	150 CFM	DCP17S	27.82	5

Air Chief Industrial Interchange Quick-Connect Plugs

Application:

- Air Chief industrial quick-connect plugs are the popular industrial interchange design and will interchange with many other makes.

Features:

- rated to **300 PSI**
- temperature range: **-40°F to 250°F**
- *for air service only*
- interchanges with MIL Spec. MIL-C-4109F/A-A-59439

Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP2142	\$3.62	20
1/4"	5/16"	steel	37 CFM	DCP2143	5.00	20
1/4"	3/8"	steel	37 CFM	DCP2144	4.75	20
3/8"	1/4"	steel	70 CFM	DCP2542	6.81	10
3/8"	3/8"	steel	70 CFM	DCP2544	5.28	10
3/8"	1/2"	steel	70 CFM	DCP2545	8.10	10
1/2"	3/8"	steel	150 CFM	DCP1744	7.38	10
1/2"	1/2"	steel	150 CFM	DCP1745	6.81	10
1/2"	3/4"	steel	150 CFM	DCP1746	11.00	10
3/4"	1/2"	steel	200 CFM	DCP7145	21.50	5
3/4"	3/4"	steel	200 CFM	DCP7146	21.05	5
3/4"	1"	steel	200 CFM	DCP7148	32.00	5
1/4"	1/4"	brass	37 CFM	DCP2142B	3.81	20
1/4"	3/8"	brass	37 CFM	DCP2144B	4.49	20
1/4"	1/4"	303 stainless	37 CFM	DCP2142S	11.58	5
3/8"	3/8"	303 stainless	70 CFM	DCP2544S	18.74	5
1/2"	1/2"	303 stainless	150 CFM	DCP1745S	27.82	5



DCP7145

Push-On Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP2142L	\$3.62	25
1/4"	3/8"	steel	37 CFM	DCP2144L	4.25	25
3/8"	1/4"	steel	70 CFM	DCP2542L	6.95	25
3/8"	3/8"	steel	70 CFM	DCP2544L	5.75	25



Air Chief Industrial Interchange Quick-Connect Couplers

Application:

Air Chief industrial quick-connect couplers are the popular Industrial Interchange design and will interchange with many other makes. Couplers shut-off when disconnected.

Features:

- rated to **300 PSI**
- temperature range: **-40°F to 250°F**

- for air service only
- interchanges with MIL Spec. MIL-C-4109F/A-A-59439

Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	brass	37 CFM	DC2021	\$14.95	10
1/4"	1/4"	brass	37 CFM	DC20	9.85	10
1/4"	3/8"	brass	37 CFM	DC2023	13.60	10
3/8"	1/4"	steel	70 CFM	DC2622	22.45	10
3/8"	3/8"	steel	70 CFM	DC26	21.00	10
3/8"	1/2"	steel	70 CFM	DC2624	27.15	10
1/2"	3/8"	steel	150 CFM	DC1023	31.45	10
1/2"	1/2"	steel	150 CFM	DC10	29.50	10
1/2"	3/4"	steel	150 CFM	DC1026	38.75	10
3/4"	1/2"	brass	200 CFM	DC7024 ¹	65.00	1
3/4"	3/4"	brass	200 CFM	DC7026 ¹	66.50	1
3/4"	1"	brass	200 CFM	DC7028 ¹	72.30	1
1/4"	1/4"	303 stainless	37 CFM	DC20S	47.69	5
3/8"	3/8"	303 stainless	70 CFM	DC26S	82.89	5
1/2"	1/2"	303 stainless	150 CFM	DC10S	104.46	5

Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	brass	37 CFM	DC2101	\$12.70	10
1/4"	1/4"	brass	37 CFM	DC21	10.55	10
1/4"	3/8"	brass	37 CFM	DC2103	12.65	10
3/8"	1/4"	steel	70 CFM	DC2502	20.95	10
3/8"	3/8"	steel	70 CFM	DC25	21.80	10
3/8"	1/2"	steel	70 CFM	DC2504	26.00	10
1/2"	3/8"	steel	150 CFM	DC903	29.45	10
1/2"	1/2"	steel	150 CFM	DC9	25.95	10
1/2"	3/4"	steel	150 CFM	DC906	34.90	10
3/4"	1/2"	brass	200 CFM	DC7104 ¹	68.90	1
3/4"	3/4"	brass	200 CFM	DC7106 ¹	70.50	1
3/4"	1"	brass	200 CFM	DC7108 ¹	78.25	1
1/4"	1/4"	303 stainless	37 CFM	DC21S	44.28	5
3/8"	3/8"	303 stainless	70 CFM	DC25S	79.48	5
1/2"	1/2"	303 stainless	150 CFM	DC9S	108.20	5

Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	37 CFM	DC2042	\$12.70	10
1/4"	5/16"	brass	37 CFM	DC2043	13.50	10
1/4"	3/8"	brass	37 CFM	DC2044	12.85	10
3/8"	1/4"	steel	70 CFM	DC2642	25.48	10
3/8"	3/8"	steel	70 CFM	DC2644	22.70	10
3/8"	1/2"	steel	70 CFM	DC2645	24.15	10
1/2"	3/8"	steel	150 CFM	DC1044	33.70	10
1/2"	1/2"	steel	150 CFM	DC1045	31.60	10
1/2"	3/4"	steel	150 CFM	DC1046	33.40	10
3/4"	1/2"	brass	200 CFM	DC7045 ¹	75.70	1
3/4"	3/4"	brass	200 CFM	DC7046 ¹	76.65	1
3/4"	1"	brass	200 CFM	DC7048 ¹	79.20	1
1/4"	1/4"	303 stainless	37 CFM	DC2042S	54.50	5
3/8"	3/8"	303 stainless	70 CFM	DC2644S	84.02	5
1/2"	1/2"	303 stainless	150 CFM	DC1045S	108.20	5

¹ 3/4" are automatic sleeve

Push-On Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	37 CFM	DC2042L	\$12.95	25
1/4"	3/8"	brass	37 CFM	DC2044L	12.90	25
3/8"	1/4"	steel	70 CFM	DC2642L	30.70	25
3/8"	3/8"	steel	70 CFM	DC2644L	24.15	25

E

semi-automatic
pull sleeve to connect



semi-automatic
pull sleeve to connect



semi-automatic
pull sleeve to connect



semi-automatic
pull sleeve to connect



Air Chief Industrial Interchange Quick-Connect Couplers

Application:

- Air Chief industrial quick-connect couplers are the popular industrial interchange design and will interchange with many other makes. Couplers shut-off when disconnected.

Features:

- rated to **300 PSI**
- temperature range: **-40°F to 250°F**
- *for air service only*
- interchanges with MIL Spec. MIL-C-4109F/A-A-59439

Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	27 CFM	DCB20	\$12.79	24
1/4"	3/8"	brass	27 CFM	DCB2023	15.09	24
3/8"	1/4"	brass	45 CFM	DCB2622	26.00	12
3/8"	3/8"	brass	45 CFM	DCB26	24.98	12
3/8"	1/2"	brass	45 CFM	DCB2624	27.25	12
1/2"	3/8"	brass	91 CFM	DCB1023	34.58	6
1/2"	1/2"	brass	91 CFM	DCB10	35.20	6
1/2"	3/4"	brass	91 CFM	DCB1026	35.20	6
3/4"	1/2"	brass	200 CFM	DC7024	65.00	1
3/4"	3/4"	brass	200 CFM	DC7026	66.50	1
3/4"	1"	brass	200 CFM	DC7028	72.30	1
1/4"	1/4"	303 stainless	27 CFM	DCS20	67.26	5
3/8"	3/8"	303 stainless	45 CFM	DCS26	100.49	5
1/2"	1/2"	303 stainless	91 CFM	DCS10	135.55	5

automatic
push to connect



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	27 CFM	DCB21	\$12.79	24
1/4"	3/8"	brass	27 CFM	DCB2103	15.09	24
3/8"	1/4"	brass	45 CFM	DCB2502	26.00	12
3/8"	3/8"	brass	45 CFM	DCB25	24.98	12
3/8"	1/2"	brass	45 CFM	DCB2504	26.42	12
1/2"	3/8"	brass	91 CFM	DCB903	33.00	6
1/2"	1/2"	brass	91 CFM	DCB9	32.10	6
1/2"	3/4"	brass	91 CFM	DCB906	33.87	6
3/4"	1/2"	brass	200 CFM	DC7104	68.90	1
3/4"	3/4"	brass	200 CFM	DC7106	70.50	1
3/4"	1"	brass	200 CFM	DC7108	78.25	1
1/4"	1/4"	303 stainless	27 CFM	DCS21	60.76	5
3/8"	3/8"	303 stainless	45 CFM	DCS25	97.51	5
1/2"	1/2"	303 stainless	91 CFM	DCS9	128.24	5

automatic
push to connect



Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	27 CFM	DCB2042	\$13.06	24
1/4"	3/8"	brass	27 CFM	DCB2044	15.10	24
3/8"	1/4"	brass	45 CFM	DCB2642	27.25	12
3/8"	3/8"	brass	45 CFM	DCB2644	23.84	12
3/8"	1/2"	brass	45 CFM	DCB2645	28.39	12
1/2"	3/8"	brass	91 CFM	DCB1044	34.58	6
1/2"	1/2"	brass	91 CFM	DCB1045	35.06	6
1/2"	3/4"	brass	91 CFM	DCB1046	35.38	6
3/4"	1/2"	brass	200 CFM	DC7045	75.70	1
3/4"	3/4"	brass	200 CFM	DC7046	76.65	1
3/4"	1"	brass	200 CFM	DC7048	79.20	1
1/4"	1/4"	303 stainless	27 CFM	DCS2042	73.62	5
3/8"	3/8"	303 stainless	45 CFM	DCS2644	98.16	5
1/2"	1/2"	303 stainless	91 CFM	DCS1045	115.66	5

automatic
push to connect



Parker Ez-Mate Industrial Interchange Couplers

Application:

- Ez-Mate couplings combine push-to-connect, exhaust-style action with a self-locking valve sleeve to guard against accidental disconnection. Simply follow the direction of the on-off arrow stamped on the yellow chromate valve sleeve. Valve sleeve acts as an integral shut-off valve that allows connection and disconnection at zero pressure. When the sleeve is moved to shut off air flow, it automatically vents downstream allowing for disconnection at zero pressure and eliminating the risk of hose whip.

Features:

- rated to **300 PSI**
- temperature range (standard seals): **-40°F to +250°F**
- Meet ISO 4414 requirements for a controlled pressure release system.
- not recommended for vacuum service

Female Pipe Thread



Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"-18	steel	37 CFM	DC20SE	\$50.75	10
1/4"	3/8"-18	steel	37 CFM	DC2023SE	54.85	10
3/8"	3/8"-18	steel	70 CFM	DC26SE	61.30	5
3/8"	1/2"-14	steel	70 CFM	DC2624SE	66.95	5
1/2"	1/2"-14	steel	150 CFM	DC10SE	72.25	5
1/2"	3/4"-14	steel	150 CFM	DC1026SE	81.30	5
3/4"	3/4"-14	steel	200 CFM	DC7026SE	105.95	5
3/4"	1"-11-1/2	steel	200 CFM	DC7028SE	125.30	5

Male Pipe Thread



Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"-18	steel	37 CFM	DC21SE	\$58.40	10
1/4"	3/8"-18	steel	37 CFM	DC2103SE	68.30	10
3/8"	3/8"-18	steel	70 CFM	DC25SE	74.10	5
1/2"	1/2"-14	steel	150 CFM	DC9SE	78.85	5
3/4"	3/4"-14	steel	200 CFM	DC7106SE	146.65	5

Standard Hose Barb



Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DC2042SE	\$70.05	10
1/4"	3/8"	steel	37 CFM	DC2044SE	73.30	10
3/8"	3/8"	steel	70 CFM	DC2644SE	78.10	5
1/2"	1/2"	steel	150 CFM	DC1045SE	84.50	5

Push-Lock Hose Barb



Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DC2042LSE	\$84.10	10
1/4"	3/8"	steel	37 CFM	DC2044LSE	70.90	10
3/8"	3/8"	steel	70 CFM	DC2644LSE	75.60	5
1/2"	1/2"	steel	150 CFM	DC1045LSE	84.35	5

Legris Automatic Industrial Interchange Safety Couplers

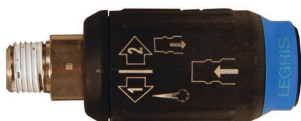
- composite, non-marring body
- 1/4" body size ensures excellent flow and total security due to disconnection in two steps
- compatible with industrial interchange plugs
- Perfectly suited for numerous installations including:
 - pneumatic tools
 - blow guns
 - pneumatic automotive equipment



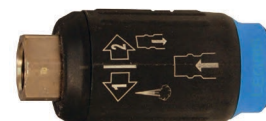
1. vents plug side



2. disconnects



male NPT straight body



female NPT straight body

NPT Size	Body Size	Part #	Price/E
1/4"	1/4"	9405U0614	\$37.10
3/8"	1/4"	9405U0618	39.40

NPT Size	Body Size	Part #	Price/E
1/4"	1/4"	9415U0614	\$37.15
3/8"	1/4"	9415U0618	39.30

Air Chief Automotive Interchange Quick-Connect Plugs

Application:

- Air Chief automotive quick-connect plugs will interchange with the popular makes of automotive quick-connect fittings such as Amflo, Dill, Milton and Truflate. There are some makes however, which do not interchange with any others. If you plan to interchange these couplings, make sure you have plug ends with the proper configuration.

Features:

- rated **300 PSI**
- temperature range: **-40°F to 250°F**

Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	steel	37 CFM	DCP221	\$3.25	25
1/4"	1/4"	steel	37 CFM	DCP2	3.25	20
1/4"	3/8"	steel	37 CFM	DCP223	6.65	20
3/8"	1/4"	steel	70 CFM	DCP8	4.10	10
3/8"	3/8"	steel	70 CFM	DCP6	7.85	10
3/8"	1/2"	steel	70 CFM	DCP624	11.00	10
1/2"	3/8"	steel	150 CFM	DCP1823	9.90	10
1/2"	1/2"	steel	150 CFM	DCP18	8.70	10
1/2"	3/4"	steel	150 CFM	DCP1826	14.95	10



E

Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	steel	37 CFM	DCP101	\$4.15	20
1/4"	1/4"	steel	37 CFM	DCP1	2.50	20
1/4"	3/8"	steel	37 CFM	DCP103	4.55	20
3/8"	1/4"	steel	70 CFM	DCP7	4.05	10
3/8"	3/8"	steel	70 CFM	DCP5	4.50	10
1/2"	3/8"	steel	150 CFM	DCP1703	7.10	10
1/2"	1/2"	steel	150 CFM	DCP17	6.85	20
1/2"	3/4"	steel	150 CFM	DCP1706	13.35	10



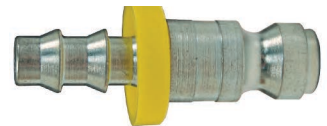
Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP142	\$4.85	20
1/4"	3/8"	steel	37 CFM	DCP144	4.80	20
3/8"	1/4"	steel	70 CFM	DCP542	7.45	10
3/8"	3/8"	steel	70 CFM	DCP544	6.25	25
1/2"	3/8"	steel	150 CFM	DCP1744	7.38	10
1/2"	1/2"	steel	150 CFM	DCP1745	6.81	10
1/2"	3/4"	steel	150 CFM	DCP1746	11.00	10



Push-On Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP142L	\$5.45	25
1/4"	3/8"	steel	37 CFM	DCP144L	5.45	25
3/8"	3/8"	steel	70 CFM	DCP544L	6.75	25



Air Chief Automotive Interchange Quick-Connect Couplers

Features:

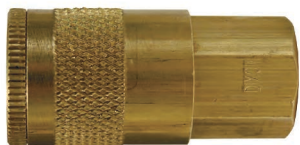
- Air Chief automotive quick-connect couplers will interchange with the popular makes of automotive quick-connect fittings such as Amflo, Dill, Milton and Truflate. There are some makes however, which do not interchange with any others. If you plan to interchange these couplings, make sure you have plug ends with the proper configuration.

Features:

- rated **300 PSI**
- temperature range: **-40°F to 250°F**

E

semi-automatic
pull sleeve to connect



Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	brass	37 CFM	DC221	\$14.40	25
1/4"	1/4"	brass	37 CFM	DC2	10.45	25
1/4"	3/8"	brass	37 CFM	DC223	14.45	10
3/8"	1/4"	steel	70 CFM	DC8	21.90	10
3/8"	3/8"	steel	70 CFM	DC6	21.35	10
3/8"	1/2"	steel	70 CFM	DC624	29.45	10
1/2"	3/8"	steel	150 CFM	DC1023	31.45	10
1/2"	1/2"	steel	150 CFM	DC10	29.50	10
1/2"	3/4"	steel	150 CFM	DC1026	38.75	10

semi-automatic
pull sleeve to connect



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/8"	brass	37 CFM	DC101	\$13.35	10
1/4"	1/4"	brass	37 CFM	DC1	10.40	10
1/4"	3/8"	brass	37 CFM	DC103	13.30	10
3/8"	1/4"	steel	70 CFM	DC7	21.85	10
3/8"	3/8"	steel	70 CFM	DC5	21.30	10
3/8"	1/2"	steel	70 CFM	DC504	25.40	10
1/2"	3/8"	steel	150 CFM	DC903	29.45	10
1/2"	1/2"	steel	150 CFM	DC9	25.95	10
1/2"	3/4"	steel	150 CFM	DC906	34.90	10

semi-automatic
pull sleeve to connect



Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	37 CFM	DC242	\$13.85	10
1/4"	5/16"	brass	37 CFM	DC243	11.25	10
1/4"	3/8"	brass	37 CFM	DC244	14.15	10
3/8"	1/4"	steel	70 CFM	DC642	25.48	10
3/8"	3/8"	steel	70 CFM	DC644	22.60	10
3/8"	1/2"	steel	70 CFM	DC645	25.00	10
1/2"	3/8"	steel	150 CFM	DC1044	33.70	10
1/2"	1/2"	steel	150 CFM	DC1045	31.60	10
1/2"	3/4"	steel	150 CFM	DC1046	33.40	10

semi-automatic
pull sleeve to connect



Push-On Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	37 CFM	DC242L	\$13.60	25
1/4"	3/8"	brass	37 CFM	DC244L	13.55	25
3/8"	1/4"	steel	70 CFM	DC642L	36.10	25
3/8"	3/8"	steel	70 CFM	DC644L	24.75	25

Air Chief ARO Speed Quick-Connect Plugs

Features:

- These semi-automatic quick connects interchange with both the ARO 210 and 310 Design.
- rated **300 PSI** at ambient temperature (70°F)

Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP38	\$2.90	10
1/4"	3/8"	steel	37 CFM	DCP3823	7.75	10
3/8"	3/8"	steel	70 CFM	DCP36	9.15	25



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP37	\$2.80	10
1/4"	3/8"	steel	37 CFM	DCP3703	6.05	10
3/8"	3/8"	steel	70 CFM	DCP35	8.20	25



Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP3742	\$4.90	10
1/4"	3/8"	steel	37 CFM	DCP3744	4.91	25



Push-On Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DCP3742L	\$6.10	25
1/4"	3/8"	steel	37 CFM	DCP3744L	9.80	25



Air Chief ARO Speed Quick-Connect Couplers

Features:

- These semi-automatic quick connects interchange with both the ARO 210 and 310 design. Couplers shut-off when disconnected.
- rated **300 PSI** at ambient temperature (70°F)

semi-automatic - pull sleeve to connect

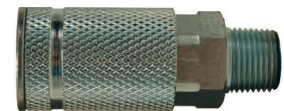
Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	37 CFM	DC38	\$11.05	10
1/4"	3/8"	brass	37 CFM	DC3823	14.95	10
3/8"	3/8"	steel	70 CFM	DC36	33.45	25



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	37 CFM	DC37	\$11.85	10
1/4"	3/8"	brass	37 CFM	DC3703	14.85	10
3/8"	3/8"	steel	70 CFM	DC35	30.50	25



Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	steel	37 CFM	DC3842	\$18.55	10
1/4"	3/8"	steel	37 CFM	DC3844	22.00	25



Push-On Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/4"	1/4"	brass	37 CFM	DC3842L	\$14.45	25
1/4"	3/8"	brass	37 CFM	DC3844L	14.85	25



Air Chief A Series Quick-Connect Plugs

Application:

- Air Chief A series are intended for use in compressed air service where the convenience of one hand operation and a compact profile is desired. Machined from solid brass bar stock, stainless steel balls and springs maximize corrosion resistance.

Features:

- maximum working pressure: **500 PSI** at ambient temperature (70°F)

E



Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/8"	1/8"	brass	7 CFM	A1F1-B	\$7.59	20
1/4"	1/4"	brass	25 CFM	A2F2-B	7.59	20



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/8"	1/8"	brass	7 CFM	A1M1-B	\$7.59	20
1/4"	1/4"	brass	25 CFM	A2M2-B	7.59	20



Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/8"	1/8"	brass	7 CFM	A1S1-B	\$7.59	20

Air Chief A Series Quick-Connect Couplers

automatic - push to connect



Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/8"	1/8"	brass	7 CFM	1AF1-B	\$24.74	20
1/4"	1/4"	brass	25 CFM	2AF2-B	25.86	20



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/8"	1/8"	brass	7 CFM	1AM1-B	\$24.74	20
1/4"	1/4"	brass	25 CFM	2AM2-B	25.86	20



Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E	Opt Qty
1/8"	1/8"	brass	7 CFM	1AS1-B	\$26.99	20
1/4"	1/4"	brass	25 CFM	2AS2-B	28.11	20

Air Chief Universal Quick-Connect Fittings

Features:

- U-series are the first 6-in-1 couplers, works with: ARO 210, MIL-C-4109F, Truflate, Lincoln Interchange, Italian Standard and CEJN 320.
- Euro-style valving ensures maximum flow performance and automatic connection with minimal force required.
- Couplers have a sleeve-guard lip to reduce the risk of accidental disconnection while in service.

automatic - push to connect

Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E
1/4"	1/4"	brass	37 CFM	UDC20	\$17.07
1/4"	3/8"	brass	37 CFM	UDC2023	17.68



E

Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E
1/4"	1/4"	brass	37 CFM	UDC21	\$17.07
1/4"	3/8"	brass	37 CFM	UDC2103	18.70



Standard Hose Barb

Body Size	Hose ID	Material	Flow Rating at 100 PSI	Part #	Price/E
1/4"	1/4"	brass	37 CFM	UDC2042	\$18.13
1/4"	3/8"	brass	37 CFM	UDC2044	18.70



Air Chief Lincoln Interchange Series Quick-Connect Plugs

Features:

- These plugs are interchangeable with Lincoln Interchange's long stem series.
- rated **300 PSI** at ambient temperature (70°F)

Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Pkg Qty
1/4"	1/4"	steel	37 CFM	DCP28	\$7.50	10



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Pkg Qty
1/4"	1/4"	steel	37 CFM	DCP27	\$6.15	10



Air Chief Lincoln Interchange Series Quick-Connect Couplers

Features:

- These sockets are interchangeable with Lincoln Interchange's long stem series. Couplers shut-off when disconnected.
- rated **300 PSI**

semi-automatic - pull sleeve to connect

Female Pipe Thread

Body Size	Female NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Pkg Qty
1/4"	1/4"	brass	37 CFM	DC28	\$17.10	10



Male Pipe Thread

Body Size	Male NPT	Material	Flow Rating at 100 PSI	Part #	Price/E	Pkg Qty
1/4"	1/4"	brass	37 CFM	DC27	\$17.60	10



Dixon Keychain

Feature:

- halves separate like a coupler and plug



Part #	Plated Steel	Price/E
DKC1		\$19.80

Breather Vents

Applications:

- Breather vents have many applications, including vacuum relief or pressure equalization on gear boxes, oil tanks or reservoirs.
- Common uses can be found on single acting cylinders or valves to prevent dirt and foreign particles from entering ports open to the atmosphere.

Features:

- standard pipe thread fittings for quick assembly and removal for cleaning
- nickel plated steel insert with a bronze filter
- The filter element is rated for 40 micron filtration.
- maximum operating pressure: **150 PSI**
- operating temperatures: **35°F to 300°F**



NPT Thread Size	Overall Length	Nickel Plated Steel	
		Part #	Price/E
1/8"	7/16"	ASP-1BV	\$2.40
1/4"	5/8"	ASP-2BV	2.50
3/8"	3/4"	ASP-3BV	3.75
1/2"	7/8"	ASP-4BV	5.35
3/4"	1"	ASP-6BV	8.60
1"	1-5/16"	ASP-8BV	17.20

Conical Mufflers

Application:

Conical mufflers are easy to install, threading the exhaust ports of air tool, valves, cylinders and other pneumatic equipment. They offer an economical method of reducing the noise levels below 90 dBA, conforming with OSHA standards.

Features:

- The bronze filter element is rated for 40 micron filtration.
- The element is bonded directly to the fitting. *These elements are not replaceable.*
- maximum operating pressure: **300 PSI**
- operating temperature: **35°F to 300°F**



NPT Thread Size	Overall Length	Nickel Plated Steel	
		Part #	Price/E
1/8"	1-1/8"	CMF18	\$3.60
1/4"	1-3/8"	CMF28	4.30
3/8"	1-1/2"	CMF38	5.60
1/2"	1-7/8"	CMF48	8.35
3/4"	2-1/8"	CMF68	13.80
1"	2-7/8"	CMF88	19.90

Speed Control Mufflers

Application:

Speed control mufflers provide an infinite variation of metering air flow at an acceptable sound level on exhaust ports of air valves with complete safety. The speed of an operating cylinder or air tool may be increased or decreased with the adjusting screw. The final position is then locked in place by the lock nut. Objectionable exhaust air noise is eliminated by the surrounding sleeve of sintered bronze.

Features:

- maximum operating pressure: **300 PSI**
- operating temperature: **35°F to 300°F**



aluminum



brass

NPT Thread Size	Approximate Full Operating Height	Maximum Adjusted SCFM	2011T3 Aluminum		Brass	
			Part #	Price/E	Part #	Price/E
1/8"	1-5/16"	20	ASCM18	\$8.00	SCM18	\$6.30
1/4"	1-9/16"	30	ASCM28	9.10	SCM28	7.30
3/8"	1-5/8"	40	ASCM38	12.10	SCM38	10.50
1/2"	2"	60	ASCM48	16.50	SCM48	16.30
3/4"	2-3/8"	70	ASCM68	28.95	SCM68	21.75
1"	2-1/2"	100	ASCM88	35.85	SCM88	39.50

Mini In-Line Lubricators

Features:

- can be refilled under line pressure
- oil capacity is ¼ fluid ounce
- flow rating is 22 SCFM at 100 PSIG
- maximum operating conditions: **200 PSIG** and **175°F**

Female NPT Inlet	NPT Outlet	Aluminum	
		Part #	Price/E
1/4"	1/4" female	ML200	\$75.25
1/4"	1/4" male	ML200M	75.25
3/8"	3/8" male	ML300M	75.25



E

Mini In-Line Filter

Features:

- either port may be used as an inlet port
- filter element rated at 5 microns
- flow rating is 17 SCFM inlet pressure at 100 PSIG
- maximum operating conditions: **200 PSIG** and **175°F**

Female NPT	Male NPT	Aluminum	
		Part #	Price/E
1/4"	1/4"	MF200	\$43.90



Description	Part #	Price/E
Replacement element	FRP-95-199	\$14.00

In-Line Air Filter

Application:

Designed specifically for the protection of small air tools, such as impact wrenches, nut runners, grinders and screwdrivers. The all-anodized, lightweight aluminum housing is compact and can be used directly before the air tool.

Features:

- standard element is 40 micron, which ensures minimum pressure drop
- elements can be replaced quickly
- male x female
- maximum operating pressure: **500 PSI**
- operating temperatures: **35°F** to **200°F**
- air flow is 140 SCFM

NPT	Overall Length	Diameter	Weight Lbs.	Aluminum	
				Part #	Price/E
3/4"	3-13/16"	1-1/2"	.46	9076M	\$72.00



Miniature Non-Repairable General Purpose Regulators

Features:

- Relieving piston design allows reduction of downstream pressure when the system is dead-ended.
- reliable pressure regulation at air flows up to 13 SCFM
- left to right flow
- 5 to 125 PSIG outlet pressure adjustment range
- compact design and light weight construction
- wrench flats for easy installation
- *model supplied with a GC620 gauge*

with gauge			without gauge		
Size	Part #	Price/E	Size	Part #	Price/E
1/4"	R46-200RG	\$62.05	1/4"	R46-200R	\$45.35



Anti-Freeze Lubricants

Application:

Winter grade air tool lubricant that prevents air line, air tool and in-line lubricator freeze-up.

Features:

- can be poured directly into tool or used with air line lubricators
- performance is good to **-45°F**



1 pint



1 gallon

Size	Part #	Price/E	Opt Qty
1 pint	DATLO16W	\$26.00	12
1 gallon	DATL128W	158.00	4

E

Air Tool Lubricants

Application:

A specially formulated high grade lubricant that prolongs the service life of air tools, cylinders and accessories while permitting maximum performance.

Features:

- #10 weight lubricant
- compound is superior in performance to ordinary lubricants.
- Prohibits rust and removes moisture as it lubricates.
- non-corrosive, non-reactive and does not decompose.
- The easy pour spout helps prevent costly spills. Use with the in-line lubricators on page 118.



1 pint



1 gallon

Size	Part #	Price/E	Opt Qty
1 pint	DATLO16	\$16.00	12
1 gallon	DATL128	69.00	4

NEW
FOR 2013

Valves Button



Thread	Brass	
	Part #	Price/E
1/4" NPT female	BV2F	\$23.75
1/4" NPT male	BV2M	24.00

Tank Filler



TFV1S



TFV1L



TFV2



TFV2HB

Application:

- Used on compressed air tanks and other applications

Feature:

- standard valve stem thread

Thread	Length	Material	Part #	Price/E
1/8" NPT	7/16"	<i>nickel plated</i>	TFV1S	\$4.95
1/8" NPT	3/4"	<i>brass</i>	TFV1L	6.05
1/4" NPT	3/4"	<i>nickel plated</i>	TFV2	5.70
1/4" barb	11/16"	<i>brass</i>	TFV2HB	8.20

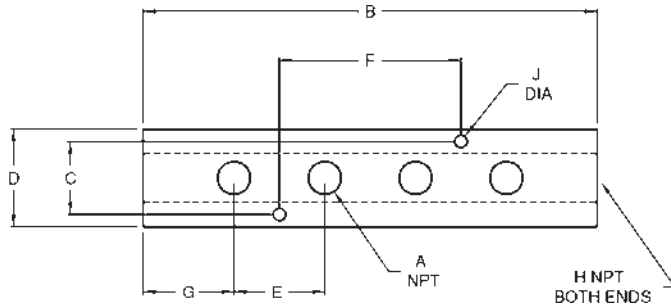
Bar Manifolds

Application:

- The bar manifold can be mounted on a wall or work bench, safely distributing four hose lines to a work area.

Features:

- maximum working pressure is **300 PSI** at ambient temperature (70°F)
- brass hex head plugs sold on page 313



E

Aluminum		A	B	C	D	E	F	G	H	J
Part #	Price/E									
AMF32	\$74.10	1/4"	7-5/8"	7/8"	1-1/4"	1-7/8"	3-3/4"	1"	3/8"	.20"
AMF42	74.10	1/4"	7-5/8"	1-1/8"	1-1/2"	1-7/8"	3-3/4"	1"	1/2"	.20"
AMF43	74.10	3/8"	8"	1-1/8"	1-1/2"	2"	4"	1"	1/2"	.20"

3 in 1 Manifolds

Application:

- supplies 3 air operated tools from a single hose, permits use of air by more than one mechanic

Features:

- mount to pipe at workbench or overhead
- different tools in the shop use different styles of couplers, mount 3 different style couplers on one manifold

NPT Inlet	NPT Outlet	Aluminum	
(1)	(3)	Part #	Price/E
1/4"	1/4"	D3404	\$18.55
3/8"	1/4"	D3406	17.80
1/2"	1/4"	D3408	18.55

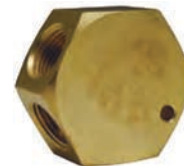


Flat Hex Manifolds

Feature:

- The flat hex manifold is designed to lay flat on the floor, safely distributing three hose lines to the work area.

NPT Inlet	NPT Outlet	Brass	
(1)	(3)	Part #	Price/E
1/4"	1/4"	3122	\$19.30
3/8"	1/4"	3132	23.15
3/8"	3/8"	3133	26.95



Safety Pop-Off Valves

Heavy Duty, High Capacity Safety Pop-Off Valves

Application:

- ASME Code, National Board Certified Safety Valves are designed to protect un-fired pressure vessels from over-pressure.

Features:

- all brass construction with chrome steel ball on a precision machined brass seat
- equipped with a pull ring for manual testing
- maximum temperature **400°F (204°C)**

E



1/2" male NPT

Preset Pressure PSI	SCFM	Brass	
		Part #	Price/E
30	73	SV30HD	\$84.20
100	192	SV100HD	84.20
125	234	SV125HD	84.20
150	277	SV150HD	84.20
175	319	SV175HD	84.20
200	361	SV200HD	84.20

Standard Safety Pop-Off Valves

Application:

- ASME Code, National Board Certified Safety Valves are designed to protect un-fired pressure vessels from over-pressure.

Features:

- Brass valves are supplied with a stainless steel ball.
- Stainless valves are all stainless construction and a soft seat
- maximum operating temperature is **400°F (204°C)**



1/4" male NPT

Preset Pressure PSI	SCFM	Brass		Stainless Steel	
		Part #	Price/E	Part #	Price/E
30	24	SV30	\$35.75	SV30SS	\$268.40
100	64	SV100	35.75	SV100SS	268.40
125	78	SV125	35.75	SV125SS	268.40
150	92	SV150	35.75	SV150SS	268.40
175	106	SV175	35.75	SV175SS	268.40
200	120	SV200	35.75	SV200SS	268.40

Soft Seat Safety Pop-Off Valves

Application:

- ASME Code, National Board Certified Safety Valve for compressed air service applications. Designed for Original Equipment Manufacturers, utilizing ASME Code un-fired pressure vessels in their finished product.

Features:

- constructed of precision machined brass bar stock, with a silicone disc seating on brass
- maximum operating temperature is **400°F (204°C)**



1/4" male NPT

Preset Pressure PSI	SCFM	Brass	
		Part #	Price/E
100	33	KSV10-100	\$16.40
125	40	KSV10-125	16.40
150	47	KSV10-150	16.40
175	54	KSV10-175	16.40

Brass Lever External Drains

Features:

- for air service only
- maximum working pressure: **30 PSI** at ambient temperature (70°F)

female NPT x male NPT

Female NPT	Male NPT	Brass	
		Part #	Price/E
1/4"	1/4"	LDC2	\$32.00


Male NPT x Male NPT

Male NPT	Male NPT	Brass	
		Part #	Price/E
1/4"	1/4"	LDCM2	\$35.50


Female NPT x Female NPT

Female NPT	Female NPT	Brass	
		Part #	Price/E
1/4"	1/4"	LDCF2	\$34.00



Brass External Drain Cocks

Features:

- designed for low pressure water and air applications
- maximum working pressure: **150 PSI** at ambient temperature (70°F)

NPT Size	Brass	
	Part #	Price/E
1/8"	D02	\$3.40
1/4"	D04	4.90



Brass Needle Valves

Features:

- metal-to-metal seats allow positive sealing and flow adjustment
- designed for air and water applications
- maximum working pressure: **150 PSI** at ambient temperature (70°F)

Female NPT	Female NPT	Brass	
		Part #	Price/E
1/8"	1/8"	NV2F	\$16.30
1/4"	1/4"	NV4F	24.25



Male NPT	Male NPT	Brass	
		Part #	Price/E
1/4"	1/4"	NV4M	\$22.50



Brass Flow Control Valves Series F

Features:

- Flow control valves provide precision flow control and full shutoff in one flow direction and automatically allow unrestricted free flow in the opposite direction.
- Two-step needle provides fine adjustments at low flow with the first three turns of the adjusting knob. The next three turns give full-open needle position and conventional throttling control.
- When flow is reversed, the heavy-duty poppet/retainer permits full-flow return capacity.

- Exclusive color coded reference scale on the adjusting knob greatly simplifies flow setting, resetting, adjusting and return to an original flow.
- A simple set screw locks the valve on any desired setting.
- maximum operating pressure: **2000 PSI** at ambient temperature (70°F) for sizes 1/8" - 3/4", **500 PSI** at ambient temperature (70°F) for 1"
- also available in steel, see page 392



Thread	Brass	
	Part #	Price/E
1/8"	BFC200	\$90.00
1/4"	BFC400	95.80
3/8"	BFC600	124.75
1/2"	BFC800	176.25
3/4"	BFC1200	278.50
1"	BFC1600	1082.00

Series PF

Features:

- Utilizes a ball type check that meters flow of air in one direction and allows free flow in the reverse direction.
- Used to control actuator speed by acting as a restriction.

- maximum operating pressure: **2000 PSI** at ambient temperature (70°F)
- cracking pressure: **5 PSI**
- also available in steel, see page 392



Thread	Brass	
	Part #	Price/E
1/8"	BPF200	\$55.50
1/4"	BPF400	67.50
3/8"	BPF600	88.50
1/2"	BPF800	130.00

Series N

Features:

- Ideal for use as speed controls on pneumatic systems where a reverse flow check valve is not needed.
- Provides excellent control and reliable shutoff in a very small envelope.
- Color coded reference scale on the adjusting knob simplifies setting, resetting, adjusting and quick return to a previous speed setting.

- maximum operating pressure: **2000 PSI** at ambient temperature (70°F) for sizes 1/8" - 3/4", **500 PSI** at ambient temperature (70°F) for 1"
- also available in steel, see page 392



Thread	Brass	
	Part #	Price/E
1/8"	BN200	\$86.00
1/4"	BN400	81.00
3/8"	BN600	115.25
1/2"	BN800	161.50
3/4"	BN1200	226.50
1"	BN1600	1013.00

Brass Check Valves - Series C

Features:

- provides free flow in one direction and dependable shutoff in the opposite direction
- maximum operating pressure: **2000 PSI** at ambient temperature (70°F)

- cracking pressure: **5 PSI**
- also available in steel, see page 392



Female NPT	Free Flow GPM	Brass	
		Part #	Price/E
1/8"	3	BCV200	\$51.25
1/4"	5	BCV400	48.75
3/8"	8	BCV600	78.50
1/2"	15	BCV800	100.25

Safety Blow Guns



Safety blow guns have a safety tip which prevents buildup of tip pressure in the event the outlet is obstructed or "dead ended". They comply with the requirements for OSHA 1910.242 (B) and 1910.95 when used on air lines of 150 PSI or less.

Features:

- Blow gun body is designed to comfortably fit the contour of the hand, minimizing user fatigue.
- Large lever with black vinyl grip further adds to the ergonomic design and allows for easy air flow activation.
- 1/4" female NPT inlet

Air Chief



The air chief safety blow gun is designed to conform to OSHA Standard 1910.242 (B) permitting a maximum of 30 PSI outlet pressure when dead ended based on a maximum of 150 PSI inlet pressure as well as OSHA Standard 1910.95 regulating occupational noise level exposure. *Safety glasses or shield must be worn when using any blow gun.*

Features:

- Recessed internal slotted screw allows easy access to valve assembly for repairs or replacement.
- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass tip combine for superior corrosion resistance as well as a contemporary look.



Part #	Price/E
D204-30	\$19.00

Premium



The premium safety blow gun is designed to conform to OSHA Standard 1910.242 (B) permitting a maximum of 30 PSI outlet pressure when dead ended based on a maximum of 150 PSI inlet pressure as well as OSHA Standard 1910.95 regulating occupational noise level exposure. *Safety glasses or shield must be worn when using any blow gun.*

Features:

- Zinc die cast body with a black powder coat finish, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass tip.



Part #	Price/E
D204-30P	\$19.75

Safety Air Booster



The multiple holes in the safety booster tip of the safety air booster gun create a venturi effect that increases air flow (working capacity) while still remaining compliant with OSHA Standard 1910.242 (B). *Safety glasses or shield must be worn when using any blow gun.*

Features:

- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and nickel plated brass Safety Booster tip provide superior corrosion resistance.



Part #	Price/E
D204-30SB	\$22.60

Non-Safety Blow Guns



Non-Safety blow guns **do not** have a safety by-pass to prevent buildup of tip pressure in the event of tip blockage. They may be used for cleaning purposes only if the air supply (inlet pressure) has been reduced to 30 PSI or less.

Features:

- Blow gun body is designed to comfortably fit the contour of the hand, minimizing user fatigue.
- Large lever with vinyl grip further adds to the ergonomic design and allows for easy air flow activation.
- ¼" female NPT inlet

Brass Tip



The ventless, nickel-plated tip provides the most economical means of achieving a concentrated stream of air for many blow-off applications. All other components and design features are the same as our Air Chief safety blow gun (D204-30). *Must be used on air lines having a maximum regulated pressure of 30 PSI in order to comply with OSHA Standard 1910.242 (B). Safety glasses or shield must be worn when using any blow gun.*



Features:

- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and ventless, nickel plated brass tip provide superior corrosion resistance.

Part #	Price/E
D605	\$17.90

Rubber Tipped



The rubber tip will not scratch or mar delicate surfaces. The conical, rubber tip can also be used to create a seal between the blow gun and fluid lines (or any other opening). Base of the tip is nickel-plated brass for additional corrosion resistance. *Must be used on air lines having a maximum regulated pressure of 30 PSI in order to comply with OSHA Standard 1910.242 (B). Safety glasses or shield must be worn when using any blow gun.*



Features:

- Chrome plated zinc die cast body, nickel plated steel lever, vinyl thumb grip, stainless steel spring, brass valve, Buna-N seals and rubber tip with a nickel plated brass base provide superior corrosion resistance.

Part #	Price/E
D201	\$21.25

Blow Gun Extensions

Application:

- These extension tips allow easier access to blow-off applications in high or hard to reach places.

Size Extension	Part #	Price/E
6"	BGE6	\$13.90
10"	BGE10	17.40
12"	BGE12	18.80
18"	BGE18	28.70
24"	BGE24	31.45

Features:

- Supplied with 1/8" male NPT connections.
- Can be used with all Dixon Air Chief lever operated blow guns as well as most blow guns from other manufacturers.
- Made from a brass base with a rugged steel extension tube, all nickel plated.



Blow Gun Tips

Feature:

- Nickel plated brass safety tip with 1/8" male NPT connection can be used with all Dixon Air Chief lever operated blow guns as well as most blow guns from other manufacturers.



Part #	Price/E
SST10	\$3.05

Feature:

- Rubber non-safety tip with nickel-plated brass 1/8" male NPT connection can be used with all Dixon Air Chief lever operated blow guns as well as most blow guns from other manufacturers.



Part #	Price/E
D201RT	\$7.75

Cannon Blow Guns

High Volume Cannon® Blow Gun


Application:

- Ideal where a large air supply is available to move heavy, stubborn debris. Designed for, but not limited to, outdoor use. Compliant with OSHA Standard 1910.242 (B). *Safety glasses or shield must be worn when using any blow gun.*

Features:

- 3/4" female NPT inlet
- minimum inlet pressure 90 PSI on 1/2" hose
- consumes 135 CFM at 100 PSI
- 48" long extension

Part #	Price/E
9000-48S	\$395.00



E

Multi-Jet Cannon® Blow Gun


Application:

- Ideal where a large air supply is available to move heavy, stubborn debris. Designed for, but not limited to, outdoor use. Compliant with OSHA Standard 1910.242 (B). *Safety glasses or shield must be worn when using any blow gun.*

Features:

- 3/4" female NPT inlet
- minimum inlet pressure 90 PSI on 1/2" hose
- consumes 120 CFM at 100 PSI
- 2" long extension

Part #	Price/E
9000-MJ	\$410.00



Heavy Duty - High Volume Blow Guns

Features:

- heavy duty - high volume safety blow guns
- requires high volume coupler and plug for optimum performance
- lightweight and ergonomic
- pistol grip / hanging hook handle

- made from high quality aluminum casting
- maximum operating pressure: **150 PSI**
- 1/4" female NPT inlet



- *Safety glasses or shield must be worn when using any blow gun.*

Blow Gun with Safety Tip



HTBG6

- reduced to 30 PSI when tip is blocked

Part #	Description	Price/E
HTBG	gun with <i>no</i> extension	\$62.75
HTBG6	gun with 6" extension	64.25
HTBG12	gun with 12" extension	67.00
HTBG24	gun with 24" extension	72.00
HTBG36	gun with 36" extension	79.00



Note: The safety air booster blow gun has a safety tip which prevents buildup of tip pressure in the event the outlet obstructed or "dead ended". It complies with the requirements for OSHA 1910.242 (B) and 1910.95 when used on air lines of 150 PSI or less.

Blow Gun with Quiet Conical Tip



- 7.0 CFM

Part #	Description	Price/E
HTBG-CT	gun with tip only	\$55.00

Accessories

Part #	Description	Material	Price/E	Part #	Description	Material	Price/E
HTBG6EXT	6" extension with safety tip	aluminum	\$40.00	HTBG6S	safety tip	aluminum	\$28.00
HTBG12EXT	12" extension with safety tip	aluminum	43.00	HTBG6C	conical tip	aluminum	28.50
HTBG24EXT	24" extension with safety tip	aluminum	48.75	HTBG6A	tip adapter	aluminum	7.70
HTBG36EXT	36" extension with safety tip	aluminum	54.50	DC41	high flow female coupler	brass	62.30
				DPC41	high flow male plug	brass	12.50

High Volume Typhoon Blow Guns

Features:

- chrome plated aluminum body
- variable flow control
- silicone free for use in paint applications

- 1/4" female NPT inlet
- 34 CFM at 125 PSI



- Compliant with OSHA Standard 1910.242 (B). *Safety glasses or shield must be worn when using any blow gun.*



Part #	Description	Price/E
TYP2501-12	gun with 12" extension	\$87.75
TYP2501-24	gun with 24" extension	92.50
TYP2501-36	gun with 36" extension	100.60

Pistol Grip Safety Blow Gun

Features:

- conforms to U.S. Department of Labor, OSHA Standard 1910.242 (B) allowing a maximum of 30 PSI outlet pressure at the nozzle when dead-ended
- conforms to U.S. Department of Labor, OSHA Standard 1910.95 regulating noise level exposure
- conforms to Title 41, Walsh-Healy Rules and Regulations P50-204.8, Safety and Health Standards
- Contoured pistol-grip for safe, comfortable handling, even with greasy hands.
- convenient hang-up hook
- ¼" female NPT inlet



- *Safety glasses or shield must be worn when using any blow gun.*



E

Part #	Price/E
PG700	\$55.90

Extended Nozzle Pistol Grip Safety Blow Gun

Features:

- conforms to U.S. Dept. of Labor, OSHA Standard 1910.242 (B) allowing a maximum of 30 PSI outlet pressure at the nozzle when dead-ended
- conforms to U.S. Dept. of Labor, OSHA Standard 1910.95 regulating noise level exposure
- conforms to Title 41, Walsh-Healy Rules and Regulations P50-204.8 Safety and Health Standards
- Slender 4" extended nozzle allows access to hard to reach places and holes as small as .200".
- variable output trigger enables user to control air flow
- Hook design near trigger provides finger protection as well as easy storage.
- lightweight to help minimize user fatigue.
- Side holes allow air to escape if nozzle tip is dead-ended, thus preventing back pressure buildup.
- pressure rating: **150 PSI**
- ¼" female NPT inlet



- *Safety glasses or shield must be worn when using any blow gun.*



Part #	Price/E
ENBG1	\$36.50

Polyurethane Whip Hose

fittings included



Features:

- bright orange
- for use with jack hammers, chipping hammers, rock drills and other large pneumatic tools
- ½" male NPT swivels on each end
- abrasion resistant
- oil and grease resistant
- working pressure: **200 PSI at 70°F**
- strain relief steel spring bend restrictors

Hose ID	Length	Male NPT	Part #	Price/E
½"	6'	½"	PFD068	\$143.00
½"	10'	½"	PFD108	162.00
½"	25'	½"	PFD125	232.00

E

Polyurethane Air Hose

fittings included

Application:

- A sturdy, nylon-reinforced braid between the inner and outer tube allows for a higher working pressure.



Features:

- durable
- lightweight
- excellent flexibility
- oil resistant
- durometer: Shore A 85
- temperature range: **-40°F to 155°F**
- working pressure: **210 PSI at 70°F**

Hose ID	Length	Male NPT	Part #	Price/E
1/4"	50'	1/4"	450-4S	\$81.50
3/8"	50'	1/4"	650-4S	157.00
3/8"	50'	3/8"	650-6S	161.00

Polyurethane Self-Storing Air Hose

fittings included

Features:

- extremely flexible - resists kinking
- impervious to abrasions, heat and oil
- superior elasticity and coil memory
- blue
- polyurethane working pressure: **125 PSI at 70°F**
- both ends swivel



Hose ID	Length	Male NPT	Part #	Price/E
1/4"	10'	1/4"	PU1410	\$44.70
1/4"	15'	1/4"	PU1415	50.25
1/4"	25'	1/4"	PU1425	58.40
3/8"	15'	3/8"	PU3815	82.00
3/8"	20'	3/8"	PU3820	94.50
3/8"	25'	3/8"	PU3825	108.00
3/8"	50'	3/8"	PU3850	213.00
1/2"	15'	1/2"	PU1215	151.50

Repair Kits

ID	Tubing Size		Size	Type	Part #	Price/E
	OD					
1/4"	3/8"		1/4"	swivel male	PSM0404	\$11.20
3/8"	9/16"		1/4"	swivel male	PSM0604	15.20

Coil-Chief Self-Storing Air Hose

Features:

- yellow
- Coil-Chief comes standard with swivel on one end

fittings included

Hose ID	Length	Male NPT	Working Pressure at 70°F	Nylon Part #	Price/E
1/4"	12'	1/4"	185	CC1412	\$34.50
1/4"	25'	1/4"	185	CC1425	48.25
1/4"	50'	1/4"	185	CC1450	86.00
3/8"	25'	3/8"	165	CC3825	84.00
3/8"	50'	3/8"	165	CC3850	148.00
1/2"	25'	1/2"	170	CC1225	169.00
1/2"	50'	1/2"	170	CC1250	258.00



E

Features:

- bulk hose needs assembly kits for ends

bulk hose - no fittings

Hose ID	Length	Part #	Price/E
1/4"	100'	CC14100B	\$135.50
3/8"	100'	CC38100B	260.00
1/2"	100'	CC12100B	440.00



Assembly Kits

Features:

- kits include fittings, nut, insert, ferrule and spring guard

Size	Fitting Type	Part #	Price/E
1/4"	rigid male	RK090	\$7.30
1/4"	swivel male	RK092	9.65
3/8"	rigid male	RK110	10.15
3/8"	swivel male	RK112	13.75
1/2"	rigid male	RK118	21.50
1/2"	swivel male	RK119	24.55



RK110 assembly kit

Tire Pressure Gauges and Accessories

Heavy Duty Tire Gauge


Features:

- 12" hose with swivel dual foot chuck inflator
- tapered chuck nut fits wheel cover holes on cars and light trucks
- calibrated in 2 PSI increments from **10 to 120 PSI**

Part #	Price/E
D101	\$100.20

Passenger Car Tire Gauge


Features:

- 12" hose with straight-on chuck
- straight chuck nut fits wheel cover holes on cars and light trucks
- ideal for use on wells and reels
- calibrated in 2 PSI increments from **10 to 90 PSI**

Part #	Price/E
D150	\$74.50

Professional Tire Pressure Gauge


Features:

- permanently lubricated
- easy to read, dual calibrated (PSI and kPa), four-sided nylon indicator bar
- body is made of chrome-plated brass, head is chrome-plated zinc
- pocket clip
- calibrated in 2 PSI increments from **10 to 50 PSI**

Part #	Price/E
DFG5	\$12.10

Dual Foot Gauges


Features:

- handy pocket clip
- calibrated in 2 PSI increments from **20 to 120 PSI**

Part #	Price/E
DFG1	\$17.40


Features:

- heavy duty hang-up ring
- calibrated in 2 PSI increments from **10 to 130 PSI**

Part #	Price/E
DFG2	\$35.80

Brass Tire Inflator Chuck


Features:

- ball foot chuck
- for direct connection to live air only
- features a built-in shutoff valve (will not work on inflator gauges)
- 1/4" NPT female thread
- maximum pressure is **300 PSI**

Part #	Price/E	Opt Qty
D104	\$8.00	10

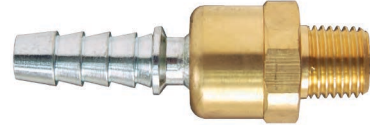
Ball and Push-On Ball Swivels

Ball Swivels

Features:

- brass and hardened steel construction
- O-ring seals
- wobble action for increased flexibility with air driven tools

Hose Size	Male NPT	Part #	Price/E	Opt Qty
1/4"	1/4"	D444S	\$21.15	25
3/8"	1/4"	D446S	15.40	25



E

Push-On Ball Swivels

Features:

- special barb design for secure grip in push-on type air hoses

Hose Size	Male NPT	Part #	Price/E	Opt Qty
1/4"	1/4"	D444SL	\$16.45	25
3/8"	1/4"	D446SL	17.05	25



In-Line Swivels

Features:

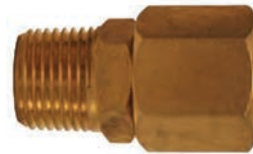
- heavy-duty, free turning steel swivel
- *for air service only*
- rated to **250 PSI** at ambient temperature (70°F), minimum **35 PSI**

Male NPT	Female NPT	<i>Steel</i>	
		Part #	Price/E
3/8"	1/2"	SV17	\$70.90
1/2"	1/2"	SV20	72.30
3/4"	3/4"	SV26	75.60


Features:

- *for air service only*
- rated to **150 PSI** at ambient temperature (70°F)

Male NPT	Female NPT	<i>Brass</i>	
		Part #	Price/E
1/4"	1/4"	D344R	\$10.50
3/8"	3/8"	D366R	22.75



Steel Bent Stem Swivels

- bent stem swivels are designed for normal operation at **90 PSI** at ambient temperature (70°F)

1/2" hose barb



Features:

- 7/8" thread fits the following tool brands:
Ingersoll-Rand, Thor, Black & Decker, Harper, Jet, Texas Pneumatic, Kent and Sullair
- 1/2" thread fits all tools with 1/2" female NPT thread

Description	Steel		Opt Qty
	Part #	Price/E	
7/8" - 24 thread x 1/2" hose barb	ATS7812H	\$49.60	50
1/2" NPT thread x 1/2" hose barb	ATS1212H	49.60	50

3/8" female pipe thread



Features:

- 7/8" thread fits most chipping hammers

Description	Steel		Opt Qty
	Part #	Price/E	
7/8" - 24 thread x 3/8" female NPT	ATS7838F	\$65.15	25

3/8" male pipe thread



Features:

- 7/8" thread fits most chipping hammers

Description	Steel		Opt Qty
	Part #	Price/E	
7/8" - 24 thread x 3/8" male NPT	ATS7838M	\$49.60	50

Air Tool Swivels



Features:

- swivels at two locations so air hose can drop directly to the floor
- rated to **150 PSI** at ambient temperature (70°F)

Size	Aluminum	
	Part #	Price/E
1/4"	D344U ¹	\$49.05
3/8"	D346U	136.30
1/2"	D348U	177.25

¹ D344U is a non-marring composite.

Spring Driven Hose Reels

Reelcraft® 5000 Series

Features:

- reel inlet 3/8" NPTF
- all steel construction
- full shaft and swivel
- furnished standard with PVC hose
- maximum temperature is **150°F**



- Compressed air hose should not be converted to oxygen service. Compressed air hoses are often contaminated with an oil coating, which can react explosively when oxygen is introduced.

with hose

Hose ID	Hose Length	Service	PSI	Weight Lbs.	Part #	Price/E
1/4"	50'	air / water	300	26	5450LP	\$730.60
3/8"	35'	air / water	300	25	5635LP	694.55
3/8"	50'	air / water	300	37	5650LP	838.85

without hose

Hose Capacity	Service	PSI	Weight Lbs.	Part #	Price/E
50' of 1/4" or 35' of 3/8"	air / water	500	21	5600LP	\$598.30
50' of 3/8"	air / water	500	31	5605LP	697.55



E

Reelcraft® 7000 Series

Features:

- all steel construction
- "LP" Low Pressure reels:
 - maximum temperature **150°F**
 - reel inlet 1/2" NPTF
 - PVC hose is standard
- "MP" Medium Pressure reels:
 - maximum temperature **210°F**
 - reel inlet 1/2" NPTF
 - SAE 100 R1T 1-wire braid hose available
- "HP" High Pressure reels:
 - maximum temperature **210°F**
 - reel inlet 1/4" NPTF
 - SAE 100 R2T 2-wire braid hose available

with hose

Hose ID	Hose Length	Service	PSI	Weight Lbs.	Part #	Price/E
3/8"	70'	air / water	300	50	7670LP	\$1115.45
1/2"	50'	air / water	300	51	7850LP	1091.40

without hose

Hose Capacity	Service	PSI	Weight Lbs.	Part #	Price/E
70' of 3/8", 50' of 1/2"	air / water	500	43	7800LP	\$880.90
50' of 3/8" or 50' of 1/2"	oil	3000	44	7800MP	1025.25
50' of 1/4" or 50' of 3/8"	grease	5000	46	7600HP	1184.60



Reelcraft® 80000 Series

Features:

- reel inlet 3/4" NPTF
- Five-in-one heat treated aluminum casting incorporates main shaft, ratchet, spring arbor and inlet/outlet plumbing in one piece casting.
- furnished standard with PVC hose
- The most compact 3/4" x 50' hose reel of its capacity available.
- maximum temperature is **150°F with hose**
- maximum temperature is **210°F without hose**

with hose

Hose ID	Hose Length	Service	PSI	Weight Lbs.	Part #	Price/E
1/2"	75'	air / water	300	90	82075LP	\$1671.65
1/2"	100'	air / water	300	99	82100LP	1740.80
3/4"	50'	air / water	250	89	83050LP	1671.65

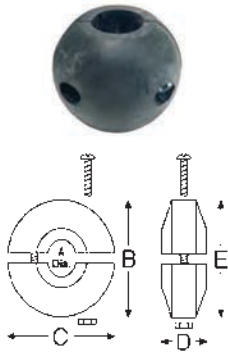
without hose

Hose Capacity	Service	PSI	Weight Lbs.	Part #	Price/E
50' of 3/4" or 100' of 1/2"	air / water	500	74	83000LP	\$1476.25



See next page for bumper stops.
Consult factory for uses
other than stated services.

Adjustable Hose Bumper Stops



E

Hose ID	Hose OD		Dimensions		Reel Series Used On	Part #	Price/E
	From:	To:	B,C,E	D			
1/4"	.438"	.625"	2-1/2"	1-1/4"	5000 series	1-HR1004A	\$29.50
3/8"	.625"	.749"	2-1/2"	1-1/4"	5000 series	1-HR1004	29.50
3/8"	.625"	.749"	3"	1-1/4"	7000 series	1-HR1004-3	29.50
1/2" or 3/8" 2-wire	.750"	1.050"	3"	1-1/4"	7000 series	2-HR1004-3	29.50
3/4"	1.060"	1.300"	3"	1-1/4"	7000 series	3-HR1004-3	29.50
1/2"	.750"	1.050"	3-1/2"	2-7/8"	9000 series	2-HR1005	68.00
3/4"	1.060"	1.380"	3-1/2"	2-7/8"	9000 series	3-HR1005	68.00
1"	1.390"	1.550"	3-1/2"	2-7/8"	9000 series	4-HR1005	68.00

Adjustable Hose Bumper Stops are not included on hose reels ordered without hose. Order separately.

Reelcraft® 30,000 Manual Driven Hose Reels

**Features:**

- unitized construction: reel frame, spool and drum are fabricated from heavy gauge steel
- all bolted construction - no welds
- manual driven standard
- motor drive available
- 1/2" inlet

without hose

Hose ID	Hose Capacity	Spool Width	PSI	Weight Lbs.	Part #	Price/E
3/4"	100'	12"	1000	46	C33112L	\$790.75
1/2"	200'	12"	3000	46	C32112M	679.50

Hose Racks

Features:

- can be used for fire or water hose
- fabricated of heavy, 12 gauge sheet steel for rugged industrial and shipboard use
- provides compact and economical hose storage
- curved saddle design avoids sharp bends in the hose prolonging hose life
- red enamel finish



Hose Size	Hose Capacity			Weight Lbs.	Part #	Price/E
	Rack	Single Jacket	Double Jacket			
1 1/2" - 1 3/4"	50'	---	---	---	HR1610-3	\$110.65
1 1/2" - 1 3/4"	100'	---	---	---	HR1610-6	130.15
1 1/2" - 2 1/2"	200'	150'	100'	7.8	HR1610	162.80
2" - 2 1/2"	50'	---	---	---	HR1610-4	119.45

Instrumentation Fittings

Applications:

- high pressure
- high temperature
- nitrogen
- helium
- flammable gases
- hydraulic gases
- corrosive media

Instrumentation fittings come completely assembled.

Installation Instructions:

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Insert the tubing into the assembly making sure the tubing seats firm against the shoulder of the body and the nut is finger tight.
3. Tighten the nut with a wrench 1¼ turns, while holding the body with a second wrench.

Suggested Working Pressures

wall thk.	.028	.035	.049	.065	.083	.095	.109
1/4"	4,000	5,100	7,500	10,100	---	---	---
3/8"	---	3,300	4,700	6,600	---	---	---
1/2"	---	2,600	3,700	5,000	6,600	---	---
5/8"	---	---	2,900	3,900	5,200	6,000	---
3/4"	---	---	2,400	3,200	4,200	4,900	5,700

Features:

- fully interchangeable with Swagelok® and Parker A-Lok® fittings
- double collet (ferrule) swaging action
- two positive seal points
- ASTM material construction
- material: 316 stainless steel
- temperature ratings: **-325°F to 1200°F** (-198°C to 648°C)
- pressure ratings: see chart to the left
Ratings listed are for reference only.

Safety Guidelines:

- Never connect, disconnect or remake a fitting with pressure in the system.
- Make sure all fittings are properly installed.
- It is not recommended to go beyond the pressure rating of the tubing. Elongation could occur in the tubing, shrinking the wall thickness and cause potential harm.
- For proper sealing it is recommended that the tubing and fittings be of like material.
- Always use proper thread lubricant and sealants on tapered pipe threads.
- Never bleed a system by loosening a fitting.

E

Male Connectors

Tube OD	Male NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
1/8"	1/8"-27	200-1-2	2-DMC-2	15.90	10
	1/4"-18	200-1-4	2-DMC-4	16.80	10
1/4"	1/8"-27	400-1-2	4-DMC-2	15.20	10
	1/4"-18	400-1-4	4-DMC-4	16.55	10
	3/8"-18	400-1-6	4-DMC-6	18.65	10
	1/2"-14	400-1-8	4-DMC-8	24.75	10
3/8"	1/4"-18	600-1-4	6-DMC-4	19.50	10
	3/8"-18	600-1-6	6-DMC-6	22.05	10
	1/2"-14	600-1-8	6-DMC-8	26.55	10
1/2"	1/4"-18	810-1-4	8-DMC-4	28.90	10
	3/8"-18	810-1-6	8-DMC-6	29.70	10
	1/2"-14	810-1-8	8-DMC-8	33.10	10
5/8"	1/2"-14	1010-1-8	10-DMC-8	44.85	10
3/4"	1/2"-14	1210-1-8	12-DMC-8	60.40	10
	3/4"	1210-1-12	12-DMC-12	60.40	10
	1"	1210-1-16	12-DMC-16	83.00	10
1"	3/4"	1610-1-12	16-DMC-12	105.00	10
	1"	1610-1-16	16-DMC-16	138.00	10



NEW

NEW

Female Connectors

Tube OD	Female NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
1/8"	1/8"-27	200-7-2	2-DFC-2	\$18.90	10
1/4"	1/8"-27	400-7-2	4-DFC-2	18.70	10
	1/4"-18	400-7-4	4-DFC-4	23.10	10
3/8"	1/4"-18	600-7-4	6-DFC-4	23.95	10
	1/2"-14	600-7-8	6-DFC-8	41.50	10
1/2"	1/2"-14	810-7-8	8-DFC-8	46.25	10
5/8"	1/2"	1010-7-8	10-DFC-8	54.00	10
3/4"	1/2"	1210-7-8	12-DFC-8	62.00	10
	3/4"	1210-7-12	12-DFC-12	73.00	10
1"	1"	1610-7-16	16-DFC-16	134.00	10



NEW

NEW

Instrumentation Fittings

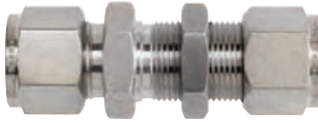
Unions

E



Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
		Part #	Price/E	
NEW [1/8" x 1/8"	200-6	2-DU	\$22.75	10
	400-6-2	4-DU-2	24.00	10
1/4" x 1/4"	400-6	4-DU	23.85	10
3/8" x 1/4"	600-6-4	6-DU-4	33.10	10
3/8" x 3/8"	600-6	6-DU	33.10	10
1/2" x 1/2"	810-6	8-DU	50.00	10
NEW [5/8" x 5/8"	1010-6	10-DU	72.00	10
	1210-6	12-DU	97.00	10
	1610-6	16-DU	190.00	10

Bulkhead Unions



Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
		Part #	Price/E	
1/4"	400-61	4-DBHU-4	\$32.85	10
3/8"	600-61	6-DBHU-6	47.55	10
1/2"	810-61	8-DBHU-8	75.90	10
NEW [5/8"	1010-61	10-DBHU-10	98.00	10
	1210-16	12-DBHU-12	124.00	10
	1610-16	16-DBHU-16	242.00	10

Reducers



Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
		Part #	Price/E	
1/4" x 1/8"	400-R-2	4-DRATT-2	\$24.50	10
3/8" x 1/4"	600-R-4	6-DRATT-4	24.50	10
3/8" x 1/2"	600-R-8	6-DRATT-8	25.25	10
1/2" x 3/4"	810-R-12	8-DRATT-12	32.05	10
NEW [3/4" x 1/2"	1210-R-8	12-DRATT-8	62.25	10
	1210-R-16	12-DRATT-16	68.00	10

Male Elbows



Tube OD	Male NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
1/4"	1/8"-27	400-2-2	4-DME-2	\$28.30	10
	1/4"-18	400-2-4	4-DME-4	28.30	10
3/8"	1/4"-18	600-2-4	6-DME-4	33.95	10
	3/8"-18	600-2-6	6-DME-6	40.75	10
1/2"	1/2"-14	810-2-8	8-DME-8	59.95	10
3/4"	1/2"-14	1210-2-8	12-DME-8	92.45	10
	3/4"	1210-2-12	12-DME-12	103.10	10
NEW [1"	3/4"	1610-2-12	16-DME-12	206.00	10
	1"	1610-2-16	16-DME-16	186.00	10

Female Elbows



Tube OD	Female NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
1/4"	1/4"-18	400-8-2	4-DFE-2	\$40.70	10
3/8"	1/4"-18	600-8-4	6-DFE-4	41.35	10
1/2"	1/2"-14	810-8-8	8-DFE-8	80.00	10
NEW [3/4"	1/2"	1210-8-8	12-DFE-8	120.00	10
	3/4"	1210-8-12	12-DFE-12	163.00	10
	1"	1610-8-16	16-DFE-16	276.00	10

Instrumentation Fittings

Union Elbows

Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
		Part #	Price/E	
1/4"	400-9	4-DELU-4	\$38.70	10
3/8"	600-9	6-DELU-6	43.50	10
1/2"	810-9	8-DELU-8	65.10	10
5/8"	1010-9	10-DELU-10	97.00	10
3/4"	1210-9	12-DELU-12	130.00	10
1"	1610-9	16-DELU-16	256.00	10



NEW

E

Male Branch Tee

Tube OD	Male NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
1/8"	1/8"-27	200-3TTM	2-DTTM-2	\$49.00	10
1/4"	1/4"-18	400-3-4TMT	4-DTTM-4	56.00	10
1/2"	3/8	810-3TTM	8-DTTM-6	90.00	10
1/2"	1/2"	810-3-8TTM	8-DTTM-8	96.00	10
3/4"	1/2"	1210-3-8TTM	12-DTTM-8	294.00	10
3/4"	3/4"	1210-3TTM	12-DTTM-12	151.00	10
1"	3/4"	1610-3-12TTM	16-DTTM-12	560.00	10
1"	1"	1610-3-16TTM	16-DTTM-16	650.00	10

NEW
FOR 2013

Female Branch Tee

Tube OD	Female NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
1/4"	1/4"-18	400-3-4TTF	4-DTTF-4	\$65.00	10



NEW

Union Tees

Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
		Part #	Price/E	
1/4"	400-3	4-DTTT-4	\$55.20	10
3/8"	600-3	6-DTTT-6	76.20	10
1/2"	810-3	8-DTTT-8	109.10	10
5/8"	1010-3	10-DTTT-10	145.00	10
3/4" x 3/8"	1210-3-12-6	12-DTTT-6	235.00	10
3/4" x 1/2"	1210-3-12-8	12-DTTT-8	235.00	10
3/4"	1210-3	12-DTTT-12	191.00	10
1" x 3/4"	1610-3-12-16	16-DTTT-12	500.00	10
1"	1610-3	16-DTTT-16	440.00	10



NEW

Male Run Tees

Tube OD	Male NPT	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
1/8"	1/8"-27	200-3TMT	2-DTMT-2	\$49.00	10
1/4"	1/4"-18	400-3-4TMT	4-DTMT-4	56.00	10
3/8"	1/4"-18	600-3TMT	6-DTMT-4	59.40	10
1/2"	3/8"	810-3TMT	8-DTMT-6	90.00	10
1/2"	1/2"	810-3-8TMT	8-DTMT-8	96.00	10
3/4"	3/4"	1210-3TMT	12-DTMT-12	152.00	10
1"	3/4"	1610-3-12TMT	16-DTMT-12	560.00	10
1"	1"	1610-3-16TMT	16-DTMT-16	650.00	10

NEW
FOR 2013

Instrumentation Fittings

Front Ferrules



NEW	Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
	1/8"	203-1	DFC-2	\$2.95	10
	1/4"	403-1	DFC-4	3.15	10
	3/8"	603-1	DFC-6	3.20	10
	1/2"	813-1	DFC-8	3.90	10
	5/8"	1013-1	DFC-10	5.85	10
	3/4"	1213-1	DFC-12	8.30	10
	1"	1613-1	DFC-16	17.00	10

Rear Ferrules



NEW	3718	Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
				Part #	Price/E	
		1/8"	204-1	DRC-2	\$2.45	10
		1/4"	404-1	DRC-4	2.40	10
		3/8"	604-1	DRC-6	2.95	10
		1/2"	814-1	DRC-8	3.85	10
		5/8"	1014-1	DRC-10	13.80	10
		3/4"	1214-1	DRC-12	15.50	10
		1"	1614-1	DRC-16	41.00	10

Nuts



NEW	Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
	1/4"	402-1	DN-4	\$4.50	10
	3/8"	602-1	DN-6	6.25	10
	1/2"	812-1	DN-8	10.00	10
	5/8"	1012-1	DN-10	13.10	10
	3/4"	1212-1	DN-12	16.50	10
	1"	1612-1	DN-16	30.00	10

Caps



NEW	Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
	1/4"	400-C	4-DCAP	\$12.75	10
	3/8"	600-C	6-DCAP	15.90	10
	1/2"	810-C	8-DCAP	26.45	10
	5/8"	1010-C	10-DCAP	35.00	10
	3/4"	1210-C	12-DCAP	48.00	10
	1"	1610-C	16-DCAP	105.00	10

Plugs



NEW	Tube OD	Interchanges	316 Stainless Steel		Pkg Qty
			Part #	Price/E	
	1/4"	400-P	4-DFPLUG	\$11.10	10
	3/8"	600-P	6-DFPLUG	12.80	10
	1/2"	810-P	8-DFPLUG	19.00	10
	5/8"	1010-P	10-DFPLUG	25.25	10
	3/4"	1210-P	12-DFPLUG	31.00	10
	1"	1610-P	16-DFPLUG	62.00	10

Brass SAE 45° Flare Fittings

Advantages:

- economical fitting resists mechanical pullout
- easy to disassemble and may be reassembled repeatedly, for a leak-proof connection
- manufactured from CA 360, CA 345, or CA377 brass
- manufactured especially for hard-to-hold liquids and gases

Specifications:

- Listed with Underwriter's Laboratories for flammable liquid, marine, refrigeration and gas applications. Meets functional requirements of SAE J512 and J513, ASA and MS (Military Standards).
- temperature range: **-65°F to 250°F**

Applications:

- use with copper, brass, aluminum and welded steel hydraulic tubing that can be flared

Working Pressure Ranges:

Temperature and type of tubing used are important factors, the following table is a good guide for proper selection. The PSI rating given is based on a temperature of **73°F** using copper tubing.

PSI	Tube OD	Tube Wall
1400	1/4"	.030
1000	3/8"	.032
750	1/2"	.032
650	5/8"	.035
550	3/4"	.035

Assembly Instructions:

1. Cut tubing squarely and clean tube end thoroughly to remove burrs.
2. Place nut onto tube. Place threaded end of nut toward end of tube.
3. Flare tube end with flaring tool to provide 45° flare. (flare tools are available, please contact the factory for pricing and availability)
4. Clamp tube flare between nut and nose of fitting body by screwing nut on finger-tight. Tighten with a wrench an additional ¼ turn for a metal-to-metal seal.

Male Connectors

Tube Size	Pipe Size	Straight Thread	Hex	Brass	
				Part #	Price/E
1/4"	1/4"	7/16"-20	9/16"	48F-4-4	\$2.35
1/4"	3/8"	7/16"-20	11/16"	48F-4-6	4.15
1/4"	1/2"	7/16"-20	7/8"	48F-4-8	11.90
3/8"	1/8"	5/8"-18	5/8"	48F-6-2	4.35
3/8"	1/4"	5/8"-18	5/8"	48F-6-4	3.35
3/8"	3/8"	5/8"-18	11/16"	48F-6-6	3.85
3/8"	1/2"	5/8"-18	7/8"	48F-6-8	5.70
1/2"	1/4"	3/4"-16	3/4"	48F-8-4	7.00
1/2"	3/8"	3/4"-16	3/4"	48F-8-6	4.55
1/2"	1/2"	3/4"-16	7/8"	48F-8-8	6.15
5/8"	3/8"	7/8"-14	7/8"	48F-10-6	6.65
3/4"	3/4"	1-1/16"-14	1-1/16"	48F-12-12	12.60



Female Connectors

- reference SAE 010103

Tube Size	Pipe Size	Straight Thread	Hex	Brass	
				Part #	Price/E
1/4"	1/4"	7/16"-20	11/16"	46F-4-4	\$4.00
3/8"	1/4"	5/8"-18	11/16"	46F-6-4	4.65
3/8"	3/8"	5/8"-18	13/16"	46F-6-6	7.35
3/8"	1/2"	5/8"-18	1"	46F-6-8	12.00
1/2"	1/4"	3/4"-16	3/4"	46F-8-4	7.20
1/2"	3/8"	3/4"-16	13/16"	46F-8-6	7.15
5/8"	3/8"	7/8"-14	7/8"	46F-10-6	11.40



Brass SAE 45° Flare Fittings

Unions



- reference SAE 010101

Tube Size	Straight Thread	Hex	Brass	
			Part #	Price/E
1/4"	7/16"-20	7/16"	42F-4	\$1.95
3/8"	5/8"-18	5/8"	42F-6	4.45
1/2"	3/4"-16	3/4"	42F-8	5.70

Male Elbows



- reference SAE 010202

Tube Size	Pipe Size	Straight Thread	Brass	
			Part #	Price/E
1/4"	1/8"	7/16"-20	149F-4-2	\$4.10
1/4"	1/4"	7/16"-20	149F-4-4	6.25
1/4"	3/8"	7/16"-20	149F-4-6	11.75
3/8"	1/4"	5/8"-18	149F-6-4	7.65
3/8"	3/8"	5/8"-18	149F-6-6	8.90
3/8"	1/2"	5/8"-18	149F-6-8	11.20
1/2"	1/4"	3/4"-16	149F-8-4	11.60
1/2"	3/8"	3/4"-16	149F-8-6	8.50
1/2"	1/2"	3/4"-16	149F-8-8	8.95
5/8"	1/2"	7/8"-14	149F-10-8	11.20
3/4"	3/4"	1-1/16"-14	149F-12-12	21.00

Female Elbows



- reference SAE 010203

Tube Size	Pipe Size	Straight Thread	Brass	
			Part #	Price/E
1/4"	1/4"	7/16"-20	150F-4-4	\$10.70
3/8"	3/8"	5/8"-18	150F-6-6	14.40
3/8"	1/2"	5/8"-18	150F-6-8	22.20

90° Swivel Elbows



Tube Size	Straight Thread	Brass	
		Part #	Price/E
1/4"	7/16"-20	166FSV-4-4	\$13.00
3/8"	5/8"-18	166FSV-6-6	16.20
1/2"	3/4"-16	166FSV-8-8	21.80

Brass SAE 45° Flare Fittings

45° Elbows

- reference SAE 010302

Tube Size	Pipe Size	Straight Thread	Brass	
			Part #	Price/E
1/4"	1/4"	7/16"-20	159F-4-4	\$9.70
3/8"	1/4"	5/8"-18	159F-6-4	7.45
3/8"	3/8"	5/8"-18	159F-6-6	6.75
1/2"	1/4"	3/4"-16	159F-8-4	19.60
1/2"	3/8"	3/4"-16	159F-8-6	7.15
1/2"	1/2"	3/4"-16	159F-8-8	13.50



E

Union Tees

- reference SAE 010401

Tube Size	Straight Thread	Brass	
		Part #	Price/E
1/4"	7/16"-20	144F-4	\$7.35
3/8"	5/8"-18	144F-6	12.50
1/2"	3/4"-16	144F-8	15.30



Short Nuts

Features:

- short nut may be used when vibration is minimal
- reference SAE 010110

Tube Size	Straight Thread	Hex	Brass	
			Part #	Price/E
1/4"	7/16"-20	9/16"	41FS-4	\$1.80
3/8"	5/8"-18	3/4"	41FS-6	3.25
1/2"	3/4"-16	7/8"	41FS-8	4.55



Long Nuts

Features:

- long nut offers additional vibration capacity
- reference SAE 010111

Tube Size	Straight Thread	Hex	Brass	
			Part #	Price/E
1/4"	7/16"-20	9/16"	41FL-4	\$2.55
3/8"	5/8"-18	3/4"	41FL-6	6.55
1/2"	3/4"-16	7/8"	41FL-8	8.20



NEW
FOR 2013

Flareless Bite Fittings

Applications:

- chemical, pulp and paper, oil and gas refineries, military, air compressors and machine tools
- well-suited for a variety of processing and general industry hydraulic applications

Features:

- Ideally suited for use with tubing having medium to extra heavy wall thicknesses.
- 3 piece design including only one ferrule eliminates possible make-up errors that may occur using a twin ferrule tube fitting.
- Minimal risk of improper assembly as the ferrule visibly bites into the tubing which allows installer to visually inspect the bite quality.
- fittings are suitable for sub-zero through elevated temperature applications
- temperature rating is limited by the material chosen
- pressure ratings are determined by the size (OD) and wall thickness (inches/mm) of the tubing on which they are to be installed

Specifications:

- exceeds Military (MIL F18866) and SAE J514 standards

Assembly Instructions:

- cut, de-burr and clean tubing
- pre-set ferrule onto tubing
- Inspect ferrule bite in tubing by disassembling the fitting and visually inspecting the de-burred end of tube for slight indentation
- finger tighten nut and then further wrench tighten nut another 1/3 to 1/2 turn

Male Tube x Male NPTF Adapters

Tube OD	Male NPTF	Steel	
		Part #	Price/E
1/8"	1/8"	FLC2404-02	\$7.85
1/8"	1/4"	FLC2404-02-04	7.75
3/16"	1/8"	FLC2404-03-02	8.40
1/4"	1/8"	FLC2404-04-02	5.75
1/4"	1/4"	FLC2404-04	7.45
1/4"	3/8"	FLC2404-04-06	8.75
1/4"	1/2"	FLC2404-04-08	10.10
5/16"	1/8"	FLC2404-05-02	9.25
5/16"	1/4"	FLC2404-05-04	10.65
3/8"	1/8"	FLC2404-06-02	12.10
3/8"	1/4"	FLC2404-06-04	7.70
3/8"	3/8"	FLC2404-06	9.60
3/8"	1/2"	FLC2404-06-08	9.50
1/2"	1/4"	FLC2404-08-04	11.30
1/2"	3/8"	FLC2404-08-06	10.80
1/2"	1/2"	FLC2404-08	9.45
1/2"	3/4"	FLC2404-08-12	17.10
5/8"	3/8"	FLC2404-10-06	12.85
5/8"	1/2"	FLC2404-10-08	12.50
5/8"	3/4"	FLC2404-10-12	33.50
3/4"	1/2"	FLC2404-12-08	19.50
3/4"	3/4"	FLC2404-12	18.25
3/4"	1"	FLC2404-12-16	34.45
1"	3/4"	FLC2404-16-12	32.75
1"	1"	FLC2404-16	29.95
1"	1-1/4"	FLC2404-16-20	45.80
1-1/4"	3/4"	FLC2404-20-12	169.65
1-1/4"	1-1/4"	FLC2404-20	65.00
1-1/2"	1-1/2"	FLC2404-24	72.95



Flareless Bite Fittings



Male Tube x Female NPTF Adapters

Tube OD	Female NPTF	Steel	
		Part #	Price/E
1/8"	1/8"	FLC2405-02	\$14.55
1/4"	1/8"	FLC2405-04-02	7.25
1/4"	1/4"	FLC2405-04	7.55
5/16"	1/8"	FLC2405-05-02	11.95
3/8"	1/4"	FLC2405-06-04	9.00
3/8"	3/8"	FLC2405-06	10.20
1/2"	1/4"	FLC2405-08-04	12.95
1/2"	3/8"	FLC2405-08-06	13.05
1/2"	1/2"	FLC2405-08	13.05
5/8"	1/2"	FLC2405-10-08	13.55
3/4"	3/4"	FLC2405-12	21.55
1"	1"	FLC2405-16	32.65
1-1/4"	1-1/4"	FLC2405-20	83.35



E

Tube Unions

Tube OD	Steel	
	Part #	Price/E
1/8"	FLC2403-02	\$18.15
3/16"	FLC2403-03	13.25
1/4"	FLC2403-04	9.70
5/16"	FLC2403-05	28.45
3/8"	FLC2403-06	12.50
1/2"	FLC2403-08	16.55
5/8"	FLC2403-10	21.15
3/4"	FLC2403-12	29.85
1"	FLC2403-16	46.40
1-1/4"	FLC2403-20	76.00
1-1/2"	FLC2403-24	159.10



Male Tube x Male NPTF Adapter 90° Elbows

Tube OD	Male NPTF	Steel	
		Part #	Price/E
1/8"	1/8"	FLC2501-02	\$11.45
3/16"	1/8"	FLC2501-03-02	13.15
1/4"	1/8"	FLC2501-04-02	7.60
1/4"	1/4"	FLC2501-04	10.60
1/4"	3/8"	FLC2501-04-06	13.50
5/16"	1/8"	FLC2501-05-02	17.85
5/16"	1/4"	FLC2501-05-04	11.65
3/8"	1/8"	FLC2501-06-02	15.65
3/8"	1/4"	FLC2501-06-04	10.25
3/8"	3/8"	FLC2501-06	14.05
3/8"	1/2"	FLC2501-06-08	17.25
1/2"	1/4"	FLC2501-08-04	14.30
1/2"	3/8"	FLC2501-08-06	14.50
1/2"	1/2"	FLC2501-08	20.70
1/2"	3/4"	FLC2501-08-12	44.00
5/8"	3/8"	FLC2501-10-06	27.15
5/8"	1/2"	FLC2501-10-08	18.80
3/4"	1/2"	FLC2501-12-08	54.50
3/4"	3/4"	FLC2501-12	27.00
1"	3/4"	FLC2501-16-12	48.35
1"	1"	FLC2501-16	43.60
1-1/4"	1-1/4"	FLC2501-20	84.00
1-1/2"	1-1/2"	FLC2501-24	128.65



NEW
FOR 2013

Flareless Bite Fittings

Male Union 90° Elbows

**E**

Tube OD	Steel	
	Part #	Price/E
1/4"	<i>FLC2500-04</i>	\$10.80
5/16"	<i>FLC2500-05</i>	22.95
3/8"	<i>FLC2500-06</i>	13.70
1/2"	<i>FLC2500-08</i>	17.70
5/8"	<i>FLC2500-10</i>	25.20
3/4"	<i>FLC2500-12</i>	36.35
1"	<i>FLC2500-16</i>	59.45
1-1/4"	<i>FLC2500-20</i>	201.10

Male Tube Union Tees



Tube OD	Steel	
	Part #	Price/E
1/8"	<i>FLC2603-02</i>	\$16.55
3/16"	<i>FLC2603-03</i>	31.65
1/4"	<i>FLC2603-04</i>	20.40
5/16"	<i>FLC2603-05</i>	26.55
3/8"	<i>FLC2603-06</i>	22.05
1/2"	<i>FLC2603-08</i>	30.15
5/8"	<i>FLC2603-10</i>	44.70
3/4"	<i>FLC2603-12</i>	55.00
1"	<i>FLC2603-16</i>	87.65
1-1/4"	<i>FLC2603-20</i>	240.95

Ferrules



Tube OD	Steel	
	Part #	Price/E
1/8"	<i>FLC0319-02</i>	\$2.35
3/16"	<i>FLC0319-03</i>	3.65
1/4"	<i>FLC0319-04</i>	1.80
5/16"	<i>FLC0319-05</i>	5.75
3/8"	<i>FLC0319-06</i>	2.10
1/2"	<i>FLC0319-08</i>	2.70
5/8"	<i>FLC0319-10</i>	3.55
3/4"	<i>FLC0319-12</i>	4.90
1"	<i>FLC0319-16</i>	7.75
1-1/4"	<i>FLC0319-20</i>	18.15
1-1/2"	<i>FLC0319-24</i>	25.85

Nuts



Tube OD	Steel	
	Part #	Price/E
1/8"	<i>FLC0318-02</i>	\$2.05
3/16"	<i>FLC0318-03</i>	1.55
1/4"	<i>FLC0318-04</i>	1.75
5/16"	<i>FLC0318-05</i>	3.15
3/8"	<i>FLC0318-06</i>	1.45
1/2"	<i>FLC0318-08</i>	2.25
5/8"	<i>FLC0318-10</i>	3.75
3/4"	<i>FLC0318-12</i>	4.95
1"	<i>FLC0318-16</i>	9.15
1-1/4"	<i>FLC0318-20</i>	14.60
1-1/2"	<i>FLC0318-24</i>	22.85

Brass Compression Fittings

Advantages:

- no flaring, soldering or other preparation of tubing necessary to assemble
- manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved

Specifications:

Underwriter's Laboratories listed for flammable liquid. Compression fittings meet functional requirements of SAE J-512 and ASA.

Applications:

- use with copper, aluminum and Parflex thermoplastic tubing
- not recommended for steel tubing
- not recommended for application using gaseous media

Assembly Instructions:

1. Slide nut, then sleeve onto tubing. The thread end of the nut must face out.
2. Insert the tube into the fitting. Be sure the tube is bottomed on the fitting shoulder.
3. Assemble nut to body, and tighten hand-tight. Then follow the number of wrench turns as indicated in the table to the right.

Fitting Size	Tube Size	Turns required to seal from hand-tight	
		60C Series with soft metal tubing	60PT Series with thermoplastic tubing
2	1/8	1-1/4	-
3	3/16	1-1/4	-
4	1/4	1-1/4	2
5	5/16	1-1/4	2
6	3/8	2-1/4	2
8	1/2	2-1/4	2
10	5/8	2-1/4	2
12	3/4	2-1/4	2
14	7/8	2-1/4	-

E

Male Connectors



- reference SAE 060102 BA

Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/8"	1/8"	68C-0202	\$3.46
3/16"	1/8"	68C-0302	3.46
3/16"	1/4"	68C-0304	5.93
1/4"	1/8"	68C-0402	2.90
1/4"	1/4"	68C-0404	4.21
1/4"	3/8"	68C-0406	6.59
1/4"	1/2"	68C-0408	10.51
5/16"	1/8"	68C-0502	5.34
5/16"	1/4"	68C-0504	4.63
3/8"	1/8"	68C-0602	4.35
3/8"	1/4"	68C-0604	4.67
3/8"	3/8"	68C-0606	5.93
3/8"	1/2"	68C-0608	8.46
7/16"	1/4"	68C-0704	13.12
1/2"	1/4"	68C-0804	9.02
1/2"	3/8"	68C-0806	10.55
1/2"	1/2"	68C-0808	10.51
5/8"	3/8"	68C-1006	14.02
5/8"	1/2"	68C-1008	13.22
5/8"	3/4"	68C-1012	23.04
3/4"	1/2"	68C-1208	21.59
3/4"	3/4"	68C-1212	27.61
7/8"	3/4"	68C-1412	26.96

Female Connectors



- reference SAE 060103 BA

Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/8"	1/8"	66C-0202	\$5.78
3/16"	1/8"	66C-0302	5.28
3/16"	1/4"	66C-0304	15.27
1/4"	1/8"	66C-0402	3.46
1/4"	1/4"	66C-0404	8.55
5/16"	1/8"	66C-0502	7.72
5/16"	1/4"	66C-0504	14.44
3/8"	1/8"	66C-0602	5.33
3/8"	1/4"	66C-0604	8.55
3/8"	3/8"	66C-0606	9.02
3/8"	1/2"	66C-0608	13.78
1/2"	1/4"	66C-0804	15.24
1/2"	3/8"	66C-0806	12.62
1/2"	1/2"	66C-0808	18.78
5/8"	1/2"	66C-1008	18.23

Unions



- reference SAE 060101 BA

Tube Size	Brass	
	Part #	Price/E
1/8"	62C-02	\$6.49
3/16"	62C-03	4.77
1/4"	62C-04	4.35
5/16"	62C-05	6.17
3/8"	62C-06	5.51
7/16"	62C-07	27.40
1/2"	62C-08	13.13
5/8"	62C-10	17.71
3/4"	62C-12	36.82
7/8"	62C-14	43.13

Brass Compression Fittings

Union Reducers



- reference SAE 060101 BA

Tube Size	Brass	
	Part #	Price/E
3/16" x 1/4"	62C-0403	\$12.78
1/4" x 3/8"	62C-0604	12.71
3/8" x 1/2"	62C-0806	24.15
3/8" x 5/8"	62C-1006	17.38

Bulkhead Unions



Tube Size	Brass	
	Part #	Price/E
1/4"	62CBH-04	\$13.36
3/8"	62CBH-06	25.64

Straight Through Tank Fittings



Tube Size	Pipe Thread	Brass	
		Part #	Price/E
3/16"	1/8"	682C-0302	\$12.09
3/8"	3/8"	682C-0606	16.91
1/2"	1/2"	682C-0808	23.37

Male Elbows



- reference SAE 060202 BA

Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/8"	1/8"	269C-0202	\$6.00
3/16"	1/8"	169C-0302	8.78
3/16"	1/4"	169C-0304	14.31
1/4"	1/8"	169C-0402	7.06
1/4"	1/4"	169C-0404	7.32
1/4"	3/8"	169C-0406	17.66
5/16"	1/8"	169C-0502	11.51
5/16"	1/4"	169C-0504	11.82
5/16"	3/8"	169C-0506	26.28
3/8"	1/8"	169C-0602	10.28
3/8"	1/4"	169C-0604	8.07
3/8"	3/8"	169C-0606	9.87
3/8"	1/2"	169C-0608	17.56
1/2"	1/4"	169C-0804	19.41
1/2"	3/8"	169C-0806	14.50
1/2"	1/2"	169C-0808	19.22
5/8"	1/2"	169C-1008	23.80
3/4"	1/2"	169C-1208	38.99
3/4"	3/4"	169C-1212	38.77

Female Elbows



- reference SAE 060203 BA

Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/8"	1/8"	170C-0202	\$10.99
3/16"	1/8"	170C-0302	12.67
1/4"	1/8"	170C-0402	9.95
1/4"	1/4"	170C-0404	14.88
3/8"	1/4"	170C-0604	15.65
3/8"	3/8"	170C-0606	18.17
7/16"	1/4"	170C-0704	28.84
1/2"	3/8"	170C-0806	19.08

45° Elbows



Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/4"	1/8"	179C-0402	\$12.73
1/4"	1/4"	179C-0404	15.07
3/8"	1/8"	179C-0602	21.81
3/8"	1/4"	179C-0604	16.38
3/8"	3/8"	179C-0606	22.39
1/2"	3/8"	179C-0806	27.60

Union Elbows



- reference SAE 060201 BA

Tube Size	Brass	
	Part #	Price/E
1/8"	165C-02	\$18.12
3/16"	165C-03	9.97
1/4"	165C-04	10.19
5/16"	165C-05	15.75
3/8"	165C-06	9.54
7/16"	165C-07	23.51
1/2"	165C-08	22.75
5/8"	165C-10	26.60
3/4"	165C-12	51.46

Brass Compression Fittings

Male Branch Tees



• reference SAE 060425 BA

Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/8"	1/8"	172C-0202	\$14.79
3/16"	1/8"	172C-0302	14.75
1/4"	1/8"	172C-0402	10.49
1/4"	1/4"	172C-0404	13.40
3/8"	1/8"	172C-0602	17.35
3/8"	1/4"	172C-0604	14.40
3/8"	3/8"	172C-0606	21.14
1/2"	3/8"	172C-0806	25.75

Female Branch Tee



Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/4"	1/8"	177C-0402	\$16.60

Union Tees



• reference SAE 060401 BA

Tube Size 1 and 2	Tubing Size 3	Brass	
		Part #	Price/E
1/8"	1/8"	164C-02	\$20.28
3/16"	3/16"	264C-03	16.16
1/4"	1/4"	164C-04	10.97
5/16"	5/16"	164C-05	16.74
3/8"	3/8"	164C-06	14.50
1/2"	1/2"	164C-08	28.04
5/8"	5/8"	164C-10	46.69
3/4"	3/4"	164C-12	101.71
3/8"	1/4"	164C-06-06-04	18.33
1/2"	3/8"	164C-08-08-06	71.59

Male Run Tees



Tube Size	Pipe Thread	Brass	
		Part #	Price/E
1/8"	1/8"	171C-0202	\$15.50
1/4"	1/8"	171C-0402	11.56
1/4"	1/4"	171C-0404	13.99
3/8"	1/4"	171C-0604	16.43

Adapter Tee



Tube Size	Pipe Thread	Straight Thread	Brass	
			Part #	Price/E
1/4"	1/8"	7/16"-24	176C-0402	\$12.09

Seal Plug



Tube Size	Brass	
	Part #	Price/E
1/4"	639C-04	\$4.21

Brass Compression Fittings

Brass Inserts



E

Tube Size	Wall Thickness	Brass	
		Part #	Price/E
1/8"	.016	63PT-0216	\$0.94
1/8"	.023	63PT-0223	1.11
1/8"	.032	63PT-0232	1.21
3/16"	.025	63PT-0325	1.03
3/16"	.040	63PT-0340	0.84
1/4"	.040	63PT-0440	0.70
1/4"	.062	63PT-0462	1.21
5/16"	.040	63PT-0540	1.73
5/16"	.062	63PT-0562	1.09
3/8"	.062	63PT-0662	0.77
1/2"	.062	63PT-0862	1.03
5/8"	.062	63PT-1062	2.05

Brass Sleeves



- reference SAE 060115

Tube Size	Brass	
	Part #	Price/E
1/8"	60C-02	\$0.70
3/16"	60C-03	0.70
1/4"	60C-04	0.70
5/16"	60C-05	0.70
3/8"	60C-06	0.70
7/16"	60C-07	1.68
1/2"	60C-08	1.03
5/8"	60C-10	1.40
3/4"	60C-12	1.92
7/8"	60C-14	4.02

Note: Delrin® sleeves and brass inserts convert standard compression fittings for use with industrial grades of thermoplastic tubing.

Delrin® Sleeves



Tube Size	Delrin®	
	Part #	Price/E
1/4"	60PT-04	\$0.75
5/16"	60PT-05	0.94
3/8"	60PT-06	0.84
1/2"	60PT-08	1.03
5/8"	60PT-10	1.50

Nuts



- reference SAE 060110

Tube Size	Straight Thread	Brass	
		Part #	Price/E
1/8"	5/16"-24	61C-02	\$1.09
3/16"	3/8"-24	61C-03	1.17
1/4"	7/16"-24	61C-04	1.11
5/16"	1/2"-24	61C-05	1.50
3/8"	9/16"-24	61C-06	1.36
7/16"	5/8"-24	61C-07	3.22
1/2"	11/16"-20	61C-08	2.90
5/8"	13/16"-18	61C-10	5.27
3/4"	1"-18	61C-12	9.20
7/8"	1-1/8"-18	61C-14	9.77

Long Nuts



- reference SAE 060111

Tube Size	Straight Thread	Brass	
		Part #	Price/E
1/4"	7/16"-24	61CL-04	\$2.79
5/16"	1/2"-24	61CL-05	13.15
3/8"	9/16"-24	61CL-06	4.81
1/2"	11/16"-20	61CL-08	8.60
5/8"	13/16"-18	61CL-10	17.75
3/4"	1"-18	61CL-12	18.36

Brass Push-In Fittings

Features:

- Quick connect: simply push tubing in, no tools required. Saves up to 75% of assembly time versus the standard compression fittings.
- Quick disconnect: hold two fingers on insert and pull tubing out, no tools required.
- reusable: connect and disconnect numerous times
- Full flow design provides up to 60% more flow than conventional fittings with internal tube supports.
- positive seal: no leaks, after tubing is inserted, seal is made
- secure tube retention: pulling on tubing only serves to tighten the connection
- Pre-applied PTFE based pipe sealant on all male pipe threads saves customer additional labor.
- Working pressure: fittings are suitable for use up to the maximum working pressure of the plastic tubing used. also suitable for vacuum service
- working temperature: **-10°F to 200°F**

Male Connectors



tube to male NPTF

Tube OD	Male NPTF	Brass		Opt Qty
		Part #	Price/E	
1/8"	10-32 *	684x10	\$10.60	20
1/8"	1/8"	684x4	7.70	20
5/32"	10-32 *	685x10	9.10	20
5/32"	1/8"	685x4	6.40	20
5/32"	1/4"	685x8	8.80	10
3/16"	10-32 *	686x10	10.25	20
3/16"	1/8"	686x4	8.75	20
1/4"	10-32 *	688x10	9.55	20
1/4"	1/8"	688x4	5.35	20
1/4"	1/4"	688x8	5.80	10
1/4"	3/8"	688x12	10.10	10
3/8"	1/8"	6812x4	7.70	10
3/8"	1/4"	6812x8	7.55	10
3/8"	3/8"	6812x12	8.70	10
3/8"	1/2"	6812x16	13.85	5
1/2"	1/4"	6816x8	12.40	5
1/2"	3/8"	6816x12	12.65	5
1/2"	1/2"	6816x16	16.10	5

* UNF - Straight thread, supplied with gasket

Female Connectors



tube to female NPTF

Tube OD	Female NPTF	Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	664x4	\$17.20	10
5/32"	1/8"	665x4	14.35	10
1/4"	1/8"	668x4	10.00	10
1/4"	1/4"	668x8	13.00	10
3/8"	1/4"	6612x8	14.05	10
3/8"	3/8"	6612x12	19.00	5

Unions



tube to tube

Tube OD	Brass		Opt Qty
	Part #	Price/E	
1/8"	624	\$9.00	20
5/32"	625	9.45	10
1/4"	628	8.80	10
3/8"	6212	11.00	10
1/2"	6216	14.30	5

Bulkhead Unions



tube to male thread

Tube OD	Thread	Brass		Opt Qty
		Part #	Price/E	
1/8"	7/16"-20	824	\$23.40	10
5/32"	7/16"-20	825	22.00	10
3/16"	1/2"-20	826	16.65	10
1/4"	1/2"-20	828	16.50	10
3/8"	3/4"-16	8212	23.00	5
1/2"	15/16"-16	8216	32.70	5

Brass Push-In Fittings

Male Elbows



tube to male NPTF

Tube OD	Male NPTF	Forged Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	694x4	\$7.45	10
5/32"	1/8"	695x4	7.25	10
3/16"	1/8"	696x4	7.90	10
1/4"	1/8"	698x4	6.75	10
1/4"	1/4"	698x8	7.75	10
1/4"	3/8"	698x12	12.75	10
3/8"	1/8"	6912x4	10.20	10
3/8"	1/4"	6912x8	10.55	10
3/8"	3/8"	6912x12	12.75	10
1/2"	1/4"	6916x8	14.45	5
1/2"	3/8"	6916x12	13.95	5

Female Elbows



tube to female NPTF

Tube OD	Female NPTF	Forged Brass		Opt Qty
		Part #	Price/E	
5/32"	1/8"	705x4	\$7.80	10
1/4"	1/8"	708x4	8.90	10
1/4"	1/4"	708x8	11.50	5
3/8"	1/4"	7012x8	19.05	5

E

Union Elbows



tube to tube

Tube OD	Forged Brass		Opt Qty
	Part #	Price/E	
1/8"	654	\$9.80	10
5/32"	655	8.70	10
1/4"	658	9.65	10
3/8"	6512	13.50	10
1/2"	6516	20.80	5

Male Swivel Elbows



tube to male NPTF

Tube OD	Male NPTF	Forged Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	69S4x4	\$9.10	10
5/32"	10-32 *	69S5x10	10.35	10
5/32"	1/8"	69S5x4	9.60	10
5/32"	1/4"	69S5x8	11.45	10
1/4"	10-32 *	69S8x10	11.75	10
1/4"	1/8"	69S8x4	8.60	10
1/4"	1/4"	69S8x8	10.90	10
1/4"	3/8"	69S8x12	16.40	10
3/8"	1/8"	69S12x4	13.35	10
3/8"	1/4"	69S12x8	13.60	10
3/8"	3/8"	69S12x12	14.45	5
3/8"	1/2"	69S12x16	18.50	5
1/2"	3/8"	69S16x12	18.05	5
1/2"	1/2"	69S16x16	21.55	5

* UNF - Straight thread, supplied with gasket

Brass Push-In Fittings

Male Branch Tees



tube to male NPTF

Tube OD	Male NPTF	Forged Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	724x4	\$10.80	10
5/32"	1/8"	725x4	12.30	10
3/16"	1/8"	726x4	11.95	10
1/4"	1/8"	728x4	12.75	10
1/4"	1/4"	728x8	13.60	5
3/8"	1/8"	7212x4	16.10	5
3/8"	1/4"	7212x8	17.80	5
3/8"	3/8"	7212x12	19.50	5
1/2"	3/8"	7216x12	23.65	5

Union Tees



tube to tube

Tube OD	Forged Brass		Opt Qty
	Part #	Price/E	
1/8"	644	\$13.95	10
5/32"	645	11.40	10
3/16"	646	13.40	10
1/4"	648	13.30	10
3/8"	6412	18.00	5
1/2"	6416	27.75	5

E

Male Swivel Branch Tees



tube to male NPTF

Tube OD	Male NPTF	Forged Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	72S4x4	\$14.30	10
5/32"	10-32 *	72S5x10	20.60	10
5/32"	1/8"	72S5x4	14.30	10
1/4"	1/8"	72S8x4	14.45	10
1/4"	1/4"	72S8x8	15.30	5
3/8"	1/4"	72S12x8	18.65	5
3/8"	3/8"	72S12x12	21.25	5
1/2"	3/8"	72S16x12	29.30	5
1/2"	1/2"	72S16x16	34.10	5

* UNF - Straight thread, supplied with gasket.

Male Run Tees



tube to male NPTF

Tube OD	Male NPTF	Forged Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	714x4	\$12.65	10
5/32"	1/8"	715x4	10.60	10
3/16"	1/8"	716x4	11.85	10
1/4"	1/8"	718x4	12.75	10
1/4"	1/4"	718x8	14.20	5
3/8"	1/8"	7112x4	16.80	5
3/8"	1/4"	7112x8	14.80	5
3/8"	3/8"	7112x12	18.90	5
1/2"	3/8"	7116x12	22.80	5

Male Swivel Run Tees

tube to male NPTF

Tube OD	Male NPTF	Forged Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	71S4x4	\$11.95	10
5/32"	10-32 *	71S5x10	20.10	10
5/32"	1/8"	71S5x4	13.60	5
1/4"	1/8"	71S8x4	14.45	5
1/4"	1/4"	71S8x8	15.30	5
3/8"	1/4"	71S12x8	18.90	5
3/8"	3/8"	71S12x12	19.95	5
1/2"	3/8"	71S16x12	30.25	5
1/2"	1/2"	71S16x16	33.95	5

* UNF - Straight thread, supplied with gasket.



Stainless Steel Legris Push-In Fittings

Applications:

Suitable for many industries such as: chemical, food, packaging and medical.

Features:

Technical characteristics:

- working temperature: **-4°F to 245°F**
- working pressure: **290 PSI** maximum



Maximum circuit pressure depends equally on the type and diameter of the tube used.

- no silicone
- conforms to FDA and 1934/2004 CE standards

Compatible with a range of tubes:

- semi-rigid nylon tube
- flexible polyurethane tube
- low density polyethylene
- PTFE tube FEP 140
- stainless steel and copper tube (when grooved)

Materials of construction:

- body - AISI 316 stainless steel
- backup washer - 316L stainless steel
- collet - 303L stainless steel
- seal - FKM O-ring
- Thread sealant does not come pre-applied on male threads, allowing the appropriate sealant for the application to be applied by the user.

Straight Male Connectors



tube to male NPT

Tube OD	Male NPT	Stainless Steel		Pkg Qty
		Part #	Price/E	
1/4"	1/8"	38055611	\$58.05	10
1/4"	1/4"	38055614	61.15	10
3/8"	1/4"	38056014	72.55	10
3/8"	3/8"	38056018	75.70	10
1/2"	3/8"	38056218	98.35	10
1/2"	1/2"	38056222	104.55	10

Unions



tube to tube

Tube OD	Stainless Steel		Pkg Qty
	Part #	Price/E	
1/4"	38065600	\$65.35	10
3/8"	38066000	90.10	10
1/2"	38066200	114.95	10

Bulkhead Connectors



tube to tube

Tube OD	Stainless Steel		Pkg Qty
	Part #	Price/E	
1/4"	38165600	\$132.50	10
3/8"	38166000	142.85	10
1/2"	38166200	165.90	10

Male Swivel Elbows



tube to male NPT

Tube OD	Male NPT	Stainless Steel		Pkg Qty
		Part #	Price/E	
1/4"	1/8"	38895611	\$83.85	10
1/4"	1/4"	38895614	94.20	10
3/8"	1/4"	38896014	155.40	10
3/8"	3/8"	38896018	161.50	10
1/2"	3/8"	38896218	190.50	10
1/2"	1/2"	38896222	199.75	10

Equal Elbow Union



tube to tube

Tube OD	Stainless Steel		Pkg Qty
	Part #	Price/E	
1/4"	38025600	\$79.70	10

Union Tees



tube to tube to tube

Tube OD	Stainless Steel		Pkg Qty
	Part #	Price/E	
1/4"	38045600	\$111.80	10
3/8"	38046000	169.75	10
1/2"	38046200	202.85	10

Nickel-Plated Brass Legris Push-In Fittings

Features:

Technical characteristics and materials of construction:

- brass body with external and internal nickel plating
- chemical (electroless) nickel plated
- working temperature: **5°F to 180°F**
- seal: Buna-N
- pressure: vacuum to **290 PSI**



Maximum circuit pressure depends equally on the type and diameter of the tube used.

- thread: length of threads in accordance with ISO 7.1 standards

- pre-applied thread sealant on all male NPT threads
- no silicone
- nickel-plated brass push-to-connect fitting
- tube compatibility: urethane, nylon, polyethylene, PTFE, metallic tubes (stainless steel and copper, when grooved)

Applications:

- A solution for pneumatic applications and fluids in aggressive environments where stainless steel is not necessary.
- various fluids: compressed air and fluids compatible with materials of construction
- typical industries: automotive, packaging, paper mills, wood working, factories with wash-down processes

Female Connectors



tube to female NPT

Tube OD	Female NPTF	Brass		Opt Qty
		Part #	Price/E	
5/32"	1/4"	32150414	\$12.40	10
1/4"	1/8"	32155611	7.90	10
1/4"	1/4"	32155614	10.30	10
3/8"	1/4"	32156014	16.00	10
3/8"	3/8"	32156018	16.45	10
1/2"	3/8"	32156218	16.65	10
1/2"	1/2"	32156222	17.25	10

Male Connectors



tube to male NPT

Tube OD	Male NPT	Nickel-plated Brass		Opt Qty
		Part #	Price/E	
5/32"	10-32 *	32010420	\$4.80	10
5/32"	1/8"	32750411	4.50	10
5/32"	1/4"	32750414	7.05	10
1/4"	10-32 *	32015620	6.40	10
1/4"	1/8"	32755611	5.35	10
1/4"	1/4"	32755614	5.90	10
1/4"	3/8"	32755618	7.20	10
3/8"	1/8"	32756011	10.45	10
3/8"	1/4"	32756014	8.15	10
3/8"	3/8"	32756018	10.60	10
3/8"	1/2"	32756022	13.35	10
1/2"	3/8"	32756218	13.35	10
1/2"	1/2"	32756222	13.55	10

* UNF - Straight thread, supplied with gasket and plastic button

Male Swivel Elbows



tube to male NPT

Tube OD	Male NPT	Nickel-plated Brass		Pkg Qty
		Part #	Price/E	
5/32"	10-32 *	32990420	\$9.60	10
5/32"	1/8"	32090411	7.65	10
5/32"	1/4"	32090414	9.60	10
1/4"	1/8"	32095611	6.05	10
1/4"	1/4"	32095614	6.90	10
1/4"	3/8"	32095618	9.95	10
3/8"	1/4"	32096014	14.50	10
3/8"	3/8"	32096018	11.85	10
3/8"	1/2"	32096022	14.70	10
1/2"	1/2"	32096222	18.25	10

* UNF - Straight thread, supplied with gasket and plastic button

Male Run Swivel Tees



tube to male NPT

Tube OD	Male NPT	Nickel-plated Brass		Pkg Qty
		Part #	Price/E	
5/32"	10-32 *	32930420	\$15.60	10
5/32"	1/8"	32030411	11.45	10
5/32"	1/4"	32030414	13.25	10
1/4"	1/8"	32035611	12.65	10
1/4"	1/4"	32035614	13.50	10
1/4"	3/8"	32035618	14.50	10
3/8"	1/4"	32036014	19.05	10
3/8"	3/8"	32036018	20.55	10
3/8"	1/2"	32036022	22.15	10

* UNF - Straight thread, supplied with gasket and plastic button

Nickel-Plated Brass Legris Push-In Fittings

Equal Unions



tube to tube

Union Elbows



tube to tube

Equal Union Tees



tube to tube

E

Tube OD	Nickel-plated Brass		Nickel-plated Brass		Nickel-plated Brass		Pkg Qty
	Part #	Price/E	Part #	Price/E	Part #	Price/E	
5/32"	32060400	\$6.75	32020400	\$6.50	32040400	\$8.50	10
1/4"	32065600	7.65	32025600	7.05	32045600	9.45	10
3/8"	32066000	15.25	32026000	12.90	32046000	16.80	10
1/2"	32066200	16.00	32026200	16.80	32046200	21.30	10

Features:

- materials:
 - nickel-plated brass threads; black body is glass-filled nylon; Buna-N D seal; polypropylene release button; silicone free
- positive seal: sealing and holding is accomplished instantaneously
- reusable: connect and disconnect numerous times
- full flow: fitting seals on outside diameter of tubing
- working pressure: fittings rated to **290 PSI** at ambient temperature. *Maximum circuit pressure depends equally on the type and diameter of the tube used.*
- working temperature: **-4°F to 175°F**
- pre-applied thread sealant on all tapered male pipe threads
- compatible tubing: semi-rigid nylon, polyurethane and polyethylene tube
- vacuum capability: vacuum of 28" Hg (99% vacuum)

Nylon/Nickel-Plated Brass Legris Push-In Fittings

Gripping Ring Technology



Quick Connect and Disconnect:

- To connect, simply push tubing in.
- To disconnect, press the release ring towards the fitting and pull tubing out.
- No tools required.

Male Connectors



tube to male NPT

Tube OD	Male NPT	Nickel-plated Brass		Opt Qty
		Part #	Price/E	
1/8"	1/16"	31755308	\$7.15	10
1/8"	1/8"	31755311	5.00	10
1/8"	1/4"	31755314	8.15	10
5/32"	1/8"	31750411	3.90	10
5/32"	1/4"	31750414	8.15	10
1/4"	1/8"	31755611	4.65	10
1/4"	1/4"	31755614	4.65	10
1/4"	3/8"	31755618	6.40	10
5/16"	1/8"	31750811	8.20	10
5/16"	1/4"	31750814	8.25	10
5/16"	3/8"	31750818	9.50	10
3/8"	1/8"	31756011	9.05	10
3/8"	1/4"	31756014	6.70	10
3/8"	3/8"	31756018	8.30	10
3/8"	1/2"	31756022	11.40	10
1/2"	1/4"	31756214	11.50	10
1/2"	3/8"	31756218	11.75	10
1/2"	1/2"	31756222	12.05	10

Female Connectors



tube to female NPT

Tube OD	Female NPT	Nickel-plated Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	30145311	\$8.40	10
1/8"	1/4"	30145314	8.35	10
5/32"	1/8"	30140411	8.90	10
5/32"	1/4"	30140414	10.70	10
1/4"	1/8"	30145611	6.95	10
1/4"	1/4"	30145614	9.00	10
5/16"	1/8"	30140811	12.05	10
5/16"	1/4"	30140814	12.10	10
3/8"	1/8"	30146011	11.35	10
3/8"	1/4"	30146014	13.60	10
3/8"	3/8"	30146018	14.90	10

"Hybrid" Male Connectors



fractional inch tube to male BSPT

Tube OD	Male BSPT	Nickel-plated Brass		Opt Qty
		Part #	Price/E	
1/4"	1/8"	31755610	\$8.10	10
1/4"	1/4"	31755613	8.10	10
3/8"	1/4"	31756013	12.15	10

Nylon/Nickel-Plated Brass Legris Push-In Fittings

Unions



tube to tube

Bulkhead Unions



tube to tube

Union Elbows



tube to tube

Tube OD	Nylon		Nylon		Nylon		Pkg Qty
	Part #	Price/E	Part #	Price/E	Part #	Price/E	
1/8"	31065300	\$6.35	31165300	\$7.10	31025300	\$6.55	10
5/32"	31060400	4.70	31160400	8.30	31020400	5.35	10
1/4"	31065600	5.25	31165600	8.80	31025600	6.00	10
5/16"	31060800	6.70	31160800	10.95	31020800	7.10	10
3/8"	31066000	7.70	31166000	13.10	31026000	9.25	10
1/2"	31066200	12.65	31166200	19.05	31026200	12.45	10

Male Swivel Elbows



tube to male NPT

Tube OD	Male NPT	Nylon/Nickel-plated Brass		Opt Qty
		Part #	Price/E	
1/8"	10-32 *	31095320	\$8.35	10
1/8"	1/16"	31095308	10.40	10
1/8"	1/8"	31095311	5.60	10
1/8"	1/4"	31095314	8.20	10
5/32"	10-32 *	31090420	7.60	10
5/32"	1/8"	31090411	4.75	10
5/32"	1/4"	31090414	9.80	10
1/4"	10-32 *	31095620	9.35	10
1/4"	1/8"	31095611	5.25	10
1/4"	1/4"	31095614	5.85	10
1/4"	3/8"	31095618	7.50	10
5/16"	1/8"	31090811	10.40	10
5/16"	1/4"	31090814	10.40	10
5/16"	3/8"	31090818	10.90	10
3/8"	1/8"	31096011	8.80	10
3/8"	1/4"	31096014	7.80	10
3/8"	3/8"	31096018	8.80	10
3/8"	1/2"	31096022	12.45	10
1/2"	1/4"	31096214	9.70	10
1/2"	3/8"	31096218	12.65	10
1/2"	1/2"	31096222	13.90	10

* UNF - Straight thread, supplied with gasket

Female Swivel Elbows



tube to female NPT

Tube OD	Female NPT	Nylon/Nickel-plated Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	30095311	\$9.75	10
5/32"	1/4"	30090414	12.55	10
1/4"	1/8"	30095611	6.45	10
1/4"	1/4"	30095614	9.75	10
5/16"	1/8"	30090811	13.30	10
5/16"	1/4"	30090814	13.60	10
3/8"	1/4"	30096014	12.50	10
1/2"	3/8"	30096218	17.65	10

Nylon/Nickel-Plated Brass Legris Push-In Fittings

45° Male Elbows Extended Male Swivel Elbows



fractional inch tube to male NPT



fractional inch tube to male NPT

E

Tube OD	Male NPT	Nylon/Nickel-plated Brass		Nylon/Nickel-plated Brass		Pkg Qty
		Part #	Price/E	Part #	Price/E	
1/4"	1/8"	31135611	\$6.45	31295611	\$8.65	10
1/4"	1/4"	31135614	7.05	31295614	9.05	10
3/8"	1/4"	31136014	9.40	31296014	12.50	10
3/8"	3/8"	31136018	9.55	31296018	16.35	10

Male Swivel Branch Tees



tube to male NPT

Tube OD	Male NPT	Nylon/Nickel-plated Brass		Pkg Qty
		Part #	Price/E	
1/8"	10-32 *	31085320	\$11.75	10
1/8"	1/8"	31085311	8.80	10
5/32"	10-32 *	31080420	12.65	10
5/32"	1/8"	31080411	8.30	10
5/32"	1/4"	31080414	12.30	10
1/4"	1/8"	31085611	7.50	10
1/4"	1/4"	31085614	8.10	10
1/4"	3/8"	31085618	9.80	10
5/16"	1/8"	31080811	11.45	10
5/16"	1/4"	31080814	11.95	10
5/16"	3/8"	31080818	12.30	10
3/8"	1/8"	31086011	15.65	10
3/8"	1/4"	31086014	11.45	10
3/8"	3/8"	31086018	13.30	10
3/8"	1/2"	31086022	17.35	10
1/2"	1/4"	31086214	15.00	10
1/2"	3/8"	31086218	18.75	10
1/2"	1/2"	31086222	21.15	10

Male Swivel Run Tees



tube to male NPT

Tube OD	Male NPT	Nylon/Nickel-plated Brass		Pkg Qty
		Part #	Price/E	
1/8"	10-32 *	31035320	\$11.80	10
1/8"	1/16"	31035308	12.25	10
1/8"	1/8"	31035311	9.30	10
5/32"	10-32 *	31030420	13.00	10
5/32"	1/8"	31030411	9.20	10
5/32"	1/4"	31030414	12.65	10
1/4"	1/8"	31035611	7.60	10
1/4"	1/4"	31035614	8.10	10
1/4"	3/8"	31035618	9.95	10
5/16"	1/8"	31030811	11.20	10
5/16"	1/4"	31030814	11.75	10
3/8"	1/8"	31036011	15.05	10
3/8"	1/4"	31036014	12.65	10
3/8"	3/8"	31036018	14.00	10
1/2"	1/4"	31036214	15.40	10
1/2"	3/8"	31036218	18.75	10
1/2"	1/2"	31036222	20.75	10

* UNF - Straight thread, supplied with gasket

* UNF - Straight thread, supplied with gasket

Y Male Swivel Connectors



tube to male NPT

Tube OD	Male NPT	Nylon/Nickel-plated Brass		Pkg Qty
		Part #	Price/E	
5/32"	1/8"	31480411	\$11.20	10
5/32"	1/4"	31480414	11.50	10
1/4"	1/8"	31485611	10.95	10
1/4"	1/4"	31485614	11.40	10

Y Connectors



tube to tube

Tube OD	Nylon		Pkg Qty
	Part #	Price/E	
1/8"	31405300	\$7.00	10
5/32"	31400400	7.00	10
1/4"	31405600	7.80	10
5/16"	31400800	9.75	10
3/8"	31406000	14.15	10

Union Tees



tube to tube

Tube OD	Nylon		Pkg Qty
	Part #	Price/E	
1/8"	31045300	\$9.20	10
5/32"	31040400	7.05	10
1/4"	31045600	7.95	10
5/16"	31040800	9.75	10
3/8"	31046000	11.05	10
1/2"	31046200	17.85	10

Plugs



Tube OD	Plastic		Pkg Qty
	Part #	Price/E	
1/8"	31265300	\$1.85	10
5/32"	31260400	0.85	10
1/4"	31265600	2.20	10
5/16"	31260800	2.25	10
3/8"	31266000	2.50	10
1/2"	31266200	2.70	10

Push-In Fitting Kit

Kit includes plastic case with threaded connectors, threaded elbows and several tube to tube connector configurations found on pages 172-174. A tubing cutter is also included in the kit.

Part #	Price/E
TFK	\$1082.60

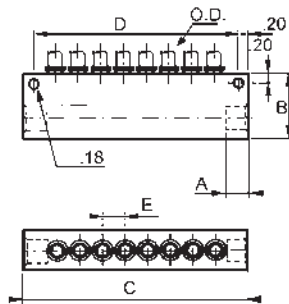
Kit contains the following parts:

Part #	Qty	Description
31755311	10	tube to male NPT connector
31750411	10	tube to male NPT connector
31755611	10	tube to male NPT connector
31755614	10	tube to male NPT connector
31756014	5	tube to male NPT connector
31756018	5	tube to male NPT connector
31090411	10	tube to male NPT elbow
31095611	10	tube to male NPT elbow
31095614	10	tube to male NPT elbow
31096011	5	tube to male NPT elbow
31096014	5	tube to male NPT elbow
31096018	5	tube to male NPT elbow
31060400	10	tube to tube union
31065600	10	tube to tube union
31066000	5	tube to tube union
31400400	10	Y connector
31405600	10	Y connector
31406000	5	Y connector
31040400	10	tube to tube union tee
31045600	5	tube to tube union tee
31046000	5	tube to tube union tee
30007100	1	tubing cutter



E

Legris Modular Manifolds



manifold with push-to-connect ports

OD	NPT Size	Number of Outlets	A	B	C	D	E	Part #	Price/E
5/32"	1/4"	8	.55	1.30	4.49	4.09	.45	33150414	\$97.90
1/4"	1/4"	8	.55	1.30	4.92	4.53	.50	33155614	103.10
3/8"	3/8"	6	---	1.57	5.73	5.33	.67	33156018	116.10

Legris Composite Mini Ball Valves

Applications: Mini ball valves enable in-line opening and closing of a pneumatic circuit. Compact and lightweight, they are suited to all types of installations. Their screwdriver slot allows opening and closing even when access is difficult. The handle is differentiated by a blue color and marked with the corresponding pneumatic symbol in order to enable immediate identification by the user. 2-way, non-venting valve

Features:

Materials:

- nylon body
- nickel-plated brass ball



Technical specifications:

- suitable fluid: compressed air
- maximum pressure: **145 PSI**
- vacuum capability: vacuum of 28" Hg (99% of vacuum)
- working temperature: **-4°F to 175°F**

Size	Part #	Price/E
5/32"	79100400	\$35.60
1/4"	79105600	34.45
5/16"	79100800	36.95
3/8"	79106000	41.25

E

Legris Quick Exhaust Valves

Applications: The quick exhaust valve can be used in all pneumatic equipment. It dramatically increases system efficiency and speed of a cylinder by purging cylinder air at the cylinder port rather than the control valve.

Features:

Materials:

- body: nickel-plated brass
- piston: polyurethane
- seals: nylon



Technical specifications:

- working pressure: **10 PSI to 150 PSI**
- working temperature: **0°F to 160°F**

NPT Thread	Part #	Price/E
1/8"	79821111	\$15.85
1/4"	79821414	16.85
3/8"	79821818	25.75
1/2"	79822222	35.05

Legris Flow Control Valves

Applications: Push-to connect, unidirectional flow control valves, with one-piece design. Controls the speed of a cylinder by regulating air exhaust. Intake air flows freely through the flow control and exhaust air is metered out through a specially designed fine adjustment screw. Control pressure range: **15 PSI to 145 PSI**. Temperature range: **30°F to 160°F**.



compact flow control valves

Tube OD	NPT Size	Part #	Price/E	Pkg Qty
5/32"	1/8"	70650411	\$25.10	10
1/4"	1/8"	70655611	27.65	10
1/4"	1/4"	70655614	30.25	10
3/8"	1/4"	70656014	50.20	10
3/8"	3/8"	70656018	60.30	10

miniature exhaust flow control valves

Tube OD	NPT Size	Part #	Price/E	Pkg Qty
5/32"	10-32 *	76600420	\$22.30	10
5/32"	1/8"	76650411	22.45	10
1/4"	10-32 *	76605620	27.45	10
1/4"	1/8"	76655611	27.45	10
1/4"	1/4"	76655614	27.45	10

* UNF - Straight thread, supplied with gasket

Legris In-Line Flow Control Valves

Applications: Push-to connect flow control valve for use where cylinder access is difficult or another fitting is attached to the cylinder port. Stackable using 2 joining clips supplied, or panel mountable using existing holes.

Features:

Materials:

- body: nylon
- gripping ring: stainless steel
- adjustment screw: nickel-plated brass



- locking nut: nickel-plated brass

Technical specifications:

- working fluid: compressed air
- working pressure: **15 PSI to 145 PSI**
- working temperature: **30°F to 160°F**

Tube OD	Part #	Price/E	Pkg Qty
5/32"	77700400	\$42.65	10
1/4"	77705600	45.05	10
3/8"	77706000	68.70	10
1/2"	77706200	73.80	10

Legris Threaded In-Line Flow Control Valves

Applications: Threaded in-line flow control valves are unidirectional flow control valves. Intake air flows freely through the flow control; exhaust air is metered out through a specially designed adjustment screw. An arrow on the body of the valve indicates the direction of controlled flow. The valves may be installed as meter in or meter out devices.

Features:

Technical specifications:

- working fluid: compressed air
- working pressure: **15 PSI to 145 PSI**
- working temperature: **30°F to 160°F**

Female NPT	Part #	Price/E
1/8"	77751111	\$43.60
1/4"	77751414	48.05
3/8"	77751818	67.70
1/2"	77752222	83.55

Materials:

- body: nylon with nickel plated brass thread
- adjustment screw: nickel-plated brass
- locking nut: nickel-plated brass
- threads: nickel-plated brass



E

Legris In-Line Check Valves

Applications: Allows air to pass in one direction while blocking flow in the other direction. A pressure of more than 7 PSI will overcome the spring pressure and allow flow. An arrow indicates free flow direction. Maximum working pressure: **145 PSI** at ambient temperature (70°F)

Tube OD	Part #	Price/E	Pkg Qty
5/32"	79960400	\$26.70	10
6mm	79960600	27.60	10
1/4"	79965600	29.70	10
5/16"	79960800	34.50	10



Legris In-Line Check Valves

Applications: These in-line check valves allow air to pass in one direction while blocking flow in the other direction. Their extreme compactness and light weight make them suitable as a safety item in compressed air circuits. The body of the fitting contains an arrow to indicate the direction of flow. A pressure of more than 7 PSI will overcome the spring pressure, which is keeping the valve closed, thus allowing the passage of air. Meter out check valve.

Features:

Technical specifications:

- working pressure: **15 PSI to 145 PSI** at ambient temperature (70°F)

Tube OD	NPT Size	Part #	Price/E
5/32"	10-32 *	79940420	\$25.55
5/32"	1/8"	79950411	26.70
1/4"	1/8"	79955611	29.20
1/4"	1/4"	79955614	30.50
3/8"	1/4"	79956014	36.45
3/8"	3/8"	79956018	42.50

* UNF - Straight thread, supplied with gasket

Materials:

- body: nylon with nickel plated brass base
- pre-applied thread sealant on tapered threads



Stainless Steel Legris Uni-Directional Check Valves

Applications: Stainless steel valve blocks the fluid passage when the pressure differential is lower than 3.6 PSI.

Features:

Technical specifications:

- working pressure: **7 PSI to 580 PSI**
- working temperature: **-4°F to 356°F**

NPT Thread	Part #	Price/E
1/8"	48951111	\$157.80
1/4"	48951414	157.80
3/8"	48951818	191.50
1/2"	48952222	190.30

Materials:

- body: 316L stainless steel
- shut-off valve: 316L stainless steel
- return spring: 302 stainless steel
- seals: Viton®



Tubing

Polyurethane Tubing

Features:

- naturally transparent
- temperature range: **-40°F to 165°F** (working pressure given at 75°F)
- designed for use with the push-in fittings sold on pages 167-174

- excellent memory, flexibility and resistance to kinking
- good resistance to fuels and oils
- low gas and vapor permeability
- high compressive strength
- low compressive set and extractability levels
- outstanding abrasion resistance

E



Size OD ID	Wall Thickness	Working Pressure @ 75°F	Length	Part #	Price/Length
1/8" x .062"	.0295	233	250' roll	04063	\$46.10
5/32" x .094"	.0315	176	100' roll	05094	32.60
1/4" x .160"	.0450	148	100' roll	08160	62.20
3/8" x .250"	.0650	147	100' roll	12250	116.80
1/2" x .320"	.0900	140	50' roll	16320	156.00

Polyethylene Tubing

Features:

- designed for FDA applications
- temperature range: **-50°F to 140°F** (working pressure given at 70°F)
- designed for use with the push-in fittings sold on pages 167-174

- flexible, lightweight, low-density polyethylene (LDPE) tubing
- for use with plastic or metal inserts with outer sleeve; ferrule or clamps
- formulated to resist stress cracking



Size OD ID	Wall Thickness	Working Pressure @ 75°F	Length	Tubing Color	Part #	Price/Length
1/4" x .125"	.062	150	100' roll	natural	0804	\$14.70
1/4" x .170"	.040	150	100' roll	natural	0817	13.35
1/4" x .170"	.040	150	100' roll	blue	0817BL100	17.30
3/8" x .250"	.062	150	100' roll	natural	1208	28.00
1/2" x .375"	.062	125	100' roll	natural	1612	36.85

Size OD ID	Wall Thickness	Working Pressure @ 75°F	Length	Tubing Color	Part #	Price/Length
1/4" x .170"	.040	150	500' roll	blue	0817BL	\$67.00
1/4" x .170"	.040	150	500' roll	black	0817BR	67.00
1/4" x .170"	.040	150	500' roll	natural	0817CR	67.00
3/8" x .250"	.062	150	500' roll	black	1208BR	119.20
3/8" x .250"	.062	150	500' roll	natural	1208CR	119.20

Nylon 12 Tubing

Features:

- naturally transparent
- temperature range: **-40°F to 180°F** (working pressure given at 75°F)

- designed for use with the push-in fittings sold on pages 167-174
- recommended for applications requiring low density, lightweight toughness, flexibility and chemical resistance
- 100' lengths are packaged in plastic bags.



Size OD ID	Wall Thickness	Working Pressure @ 75°F	Length	Part #	Price/Length
1/8" x .093"	.016	225	100' roll	04093	\$28.00
5/32" x .106"	.025	275	100' roll	05106	37.75
3/16" x .138"	.025	225	100' roll	06138	48.00
1/4" x .170"	.040	265	100' roll	08170	79.75
1/4" x .180"	.035	250	100' roll	08180	76.00
3/8" x .275"	.050	220	100' roll	12275	161.75
1/2" x .375"	.062	200	100' roll	16375	244.30

Tubing cutters sold on page 337

Legris Tubing Nylon Tubing



Applications: Nylon tubing is ideal for many industrial applications. It has optimum mechanical properties and good chemical, humidity and abrasive resistance.

Features:

- semi rigid tubing

- working temperature: **-65°F to 200°F**
(working pressure given at 75°F)

Size		Wall Thickness	Working Pressure @75°F	Length	Natural		Black		Blue	
OD	ID				Part #	Price/Lgth	Part #	Price/Lgth	Part #	Price/Lgth
1/8"	x .093"	.016	250	50' roll	1091P5300	\$30.50	1091P5301	\$29.75	1091P5304	\$30.50
5/32"	x .106"	.025	300	50' roll	1091P0400	29.75	1091P0401	27.00	1091P0404	27.00
3/16"	x .138"	.025	250	50' roll	1091P5500	48.75	1091P5501	50.90	---	---
1/4"	x .17"	.040	300	50' roll	1091P5600	54.75	1091P5601	58.10	1091P5604	52.25
5/16"	x .233"	.040	250	50' roll	1091P0800	79.75	1091P0801	79.60	1091P0804	79.60
3/8"	x .275"	.050	250	50' roll	1091P6000	110.75	1091P6001	112.25	1091P6004	105.30
1/2"	x .375"	.062	250	50' roll	1091P6200	186.50	1091P6201	177.00	1091P6204	179.00

Size		Wall Thickness	Working Pressure @75°F	Length	Natural		Black		Blue	
OD	ID				Part #	Price/Lgth	Part #	Price/Lgth	Part #	Price/Lgth
1/8"	x .093"	.016	250	100' roll	1094P5300	\$50.50	1094P5301	\$50.80	1094P5304	\$50.50
5/32"	x .106"	.025	300	100' roll	1094P0400	55.25	1094P0401	50.50	1094P0404	50.50
3/16"	x .138"	.025	250	100' roll	1094P5500	91.25	1094P5501	91.29	---	---
1/4"	x .17"	.040	300	100' roll	1094P5600	102.00	1094P5601	104.20	1094P5604	93.75
5/16"	x .233"	.040	250	100' roll	1094P0800	139.50	1094P0801	150.00	1094P0804	138.75
3/8"	x .275"	.050	250	100' roll	1094P6000	199.50	1094P6001	201.75	1094P6004	189.75
1/2"	x .375"	.062	250	100' roll	1094P6200	335.40	1094P6201	331.00	1094P6204	322.00

Polyurethane - 95 Durometer Tubing



Applications: Polyurethane tubing has high flexibility and a small bend radius and thus is very good for applications where space is tight. For applications where the tubing will be exposed, black tubing is recommended.

Features:

- working temperature: **-40°F to 165°F** (working pressure given at 75°F)

Size		Wall Thickness	Working Pressure @75°F	Length	Clear		Black		Blue	
OD	ID				Part #	Price/Lgth	Part #	Price/Lgth	Part #	Price/Lgth
1/8"	x .062"	.031	233	50' roll	1091U53R00	\$23.00	1091U5301	\$22.40	1091U5304	\$23.90
5/32"	x .093"	.031	176	50' roll	1091U04R00	32.00	1091U0401	28.30	1091U0404	29.10
1/4"	x .160"	.045	148	50' roll	1091U56R00	51.50	1091U5601	54.40	1091U5604	52.75
5/16"	x .216"	.049	148	50' roll	1091U08R00	81.75	1091U0801	75.00	1091U0804	77.00
3/8"	x .250"	.066	147	50' roll	1091U60R00	99.75	1091U6001	108.00	1091U6004	99.10
1/2"	x .320"	.090	140	50' roll	1091U62R00	194.00	1091U6201	185.50	1091U6204	203.00

Size		Wall Thickness	Working Pressure @75°F	Length	Clear		Black		Blue	
OD	ID				Part #	Price/Lgth	Part #	Price/Lgth	Part #	Price/Lgth
1/8"	x .062"	.031	233	100' roll	1094U53R00	\$41.00	1094U5301	\$40.40	1094U5304	\$44.50
5/32"	x .093"	.031	176	100' roll	1094U04R00	56.00	1094U0401	52.70	1094U0404	56.00
1/4"	x .160"	.045	148	100' roll	1094U56R00	96.25	1094U5601	101.25	1094U5604	91.75
5/16"	x .216"	.049	148	100' roll	1094U08R00	152.50	1094U0801	140.90	1094U0804	149.50
3/8"	x .250"	.066	147	100' roll	1094U60R00	186.50	1094U6001	193.90	1094U6004	185.10
1/2"	x .320"	.090	140	100' roll	1094U62R00	350.00	1094U6201	347.00	1094U6204	364.50

Fluoropolymer FEP 140 Tubing

Applications: Fluoropolymer tubing is of food quality and provides excellent resistance to aggressive and corrosive agents as well as high temperatures.

Features:

- FDA compliant materials
- maximum working temperature: **300°F** (working pressure given at 72°F)



Size		Wall Thickness	Working Pressure @72°F	Length	Clear	
OD	ID				Part #	Price/Length
1/8"	x .062"	.031	500	25' roll	1092T5300	\$77.60
1/4"	x .188"	.031	165	25' roll	1092T5600	177.25
3/8"	x .250"	.062	249	25' roll	1092T6000	277.00
1/2"	x .375"	.062	165	25' roll	1092T6200	375.50

Metric Push-In Fittings

Features:

- materials:
 - nickel-plated brass threads; black body is glass-filled nylon; Buna-N D seal; polypropylene release button; silicone free
- positive seal: sealing and holding is accomplished instantaneously
- reusable: connect and disconnect numerous times
- full flow: fitting seals on outside diameter of tubing
- working pressure: fittings rated to **290 PSI** at ambient temperature
- working temperature: **-4°F to 175°F**
- pre-applied thread sealant on all tapered male pipe threads
- compatible tubing: semi-rigid nylon, polyurethane and polyethylene tube
- vacuum capability: vacuum of 28" Hg (99% vacuum)

Gripping Ring Technology



Quick Connect and Disconnect:

- To connect, simply push tubing in.
- To disconnect, press the release ring towards the fitting and pull tubing out.
- No tools required.

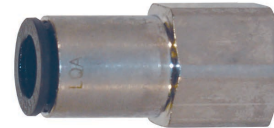
Male Connectors



tube to male BSPT

Tube OD	Male BSPT	Part #	Price/E	Pkg Qty
4 mm	1/8"	31750410	\$4.80	10
4 mm	1/4"	31750413	7.75	10
6 mm	1/8"	31750610	5.40	10
6 mm	1/4"	31750613	6.15	10
8 mm	1/8"	31750810	7.95	10
8 mm	1/4"	31750813	7.95	10
8 mm	3/8"	31750817	9.35	10
10 mm	1/4"	31751013	9.90	10
10 mm	3/8"	31751017	11.00	10

Female Connectors



tube to female BSPP

Tube OD	Female BSPT	Part #	Price/E	Pkg Qty
4 mm	1/8"	31140410	\$8.30	10
4 mm	1/4"	31140413	11.10	10
6 mm	1/8"	31140610	8.30	10
6 mm	1/4"	31140613	9.45	10
8 mm	1/8"	31140810	10.60	10
8 mm	1/4"	31140813	10.00	10

Male Swivel Elbows



tube to male BSPT

Tube OD	Male BSPT	Part #	Price/E	Pkg Qty
4 mm	1/8"	31090410	\$6.25	10
4 mm	1/4"	31090413	9.65	10
6 mm	1/8"	31090610	6.65	10
6 mm	1/4"	31090613	6.85	10
8 mm	1/8"	31090810	9.80	10
8 mm	1/4"	31090813	9.80	10
8 mm	3/8"	31090817	11.50	10
10 mm	1/4"	31091013	15.30	10
10 mm	3/8"	31091017	15.70	10

Male Swivel Branch Tees



tube to male BSPT

Tube OD	Male BSPT	Part #	Price/E	Pkg Qty
4 mm	1/8"	31080410	\$8.85	10
4 mm	1/4"	31080413	13.00	10
6 mm	1/8"	31080610	9.40	10
6 mm	1/4"	31080613	9.55	10
8 mm	1/8"	31080810	11.70	10
8 mm	1/4"	31080813	12.30	10

Nylon Metric Tubing Rolls

Features:

- translucent color
- resistant to fungus, abrasion, moisture and UV radiation
- temperature range **-60°F to 200°F** (working pressure given at 75°F)



Size		Wall Thickness	Working Pressure @ 75°F	Length	Part #	Price/Length
OD	ID					
4 mm	2.7 mm	.65 mm	275	25 m	1025P0400	\$39.10
6 mm	4 mm	1 mm	280	25 m	1025P0600	76.00
8 mm	6 mm	1 mm	210	25 m	1025P0800	110.50

Tubing cutters sold on page 337

Metric Push-In Fittings

Unions



tube to tube

Tube OD	Tube OD	Part #	Price/E	Pkg Qty
4 mm	6 mm	31060406	\$10.45	10
6 mm	6 mm	31060600	6.00	10
10 mm	10 mm	31061000	14.85	10

Union Tees



tube to tube

Tube OD	Part #	Price/E	Pkg Qty
6 mm	31040600	\$8.75	10
10 mm	31041000	20.45	10

Union Elbows



tube to tube

Tube OD	Tube OD	Part #	Price/E	Pkg Qty
6 mm	6 mm	31020600	\$7.45	10
10 mm	10 mm	31021000	14.30	10

Bulkhead Unions



Tube OD	Tube OD	Part #	Price/E	Pkg Qty
6 mm	6 mm	31160600	\$9.60	10

Y Connectors



Tube OD	Tube OD	Part #	Price/E	Pkg Qty
6 mm	6 mm	31400600	\$8.75	10

Plugs



Tube OD	Tube OD	Part #	Price/E	Pkg Qty
6 mm	6 mm	31260600	\$2.25	10
10 mm	10 mm	31261000	4.60	10

Male Connectors



tube to thread

Tube OD	Thread	Part #	Price/E	Pkg Qty
4 mm	M5	31010419	\$6.70	10
4 mm	1/8 BSPP	31010410	5.55	10
6 mm	M5	31010619	9.00	10
6 mm	1/8 BSPP	31010610	6.45	10
6 mm	1/4 BSPP	31010613	7.35	10
8 mm	1/8 BSPP	31010810	8.25	10
8 mm	1/4 BSPP	31010813	8.75	10
10 mm	1/4 BSPP	31011013	14.45	10

Male Swivel Elbows



tube to thread

Tube OD	Thread	Part #	Price/E	Pkg Qty
4 mm	M5	31990419	\$7.00	10
4 mm	1/8 BSPP	31990410	7.60	10
6 mm	M5	31990619	7.60	10
6 mm	1/8 BSPP	31990610	7.70	10
6 mm	1/4 BSPP	31990613	10.45	10
8 mm	1/8 BSPP	31990810	11.80	10
8 mm	1/4 BSPP	31990813	11.80	10
10 mm	1/8 BSPP	31991013	16.25	10

D.O.T. Push-In Fittings

Features:

- materials:
 - body (straights) tube, supports and grippers: brass CA360
 - forged elbows and tees: brass CA377
 - O-ring: Buna-N
- working pressure: Fittings are suitable for use up to the maximum working pressure of the plastic tubing used. Also suitable for vacuum service.
- working temperature: **-40°F to 212°F**
- pre-applied thread sealant (Loctite 516) on all male pipe threads
- compatible tubing: SAE J844
- specifications: meets D.O.T FMVSS 571.106 and SAE J1131, SAE J2494-1 and SAE J2494-3

Male Elbows



tube to male NPT

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
1/4"	1/8"	AQ69DOT4x2	\$8.95	10
1/4"	1/4"	AQ69DOT4x4	10.15	10
3/8"	1/4"	AQ69DOT6x4	11.40	10

Swivel Male Elbows



tube to male NPT

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
1/4"	1/8"	AQ69DOTS4x2	\$10.55	10
1/4"	1/4"	AQ69DOTS4x4	11.40	10
1/4"	3/8"	AQ69DOTS4x6	16.45	10
3/8"	1/4"	AQ69DOTS6x4	15.10	10
3/8"	3/8"	AQ69DOTS6x6	17.00	5

Male Connectors



tube to male NPT

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
1/4"	1/8"	AQ68DOT4x2	\$6.15	10
1/4"	1/4"	AQ68DOT4x4	6.95	10
1/4"	3/8"	AQ68DOT4x6	11.10	5
3/8"	1/4"	AQ68DOT6x4	9.60	10
3/8"	3/8"	AQ68DOT6x6	10.30	10

Swivel Male Run Tees



tube to male NPT

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
1/4"	1/8"	AQ71DOTS4x2	\$17.95	10
1/4"	1/4"	AQ71DOTS4x4	17.95	5

Union Connectors



tube to tube

Tube OD	Part #	Price/E	Pkg Qty
1/4"	AQ62DOT4	\$11.45	10
3/8"	AQ62DOT6	13.00	10

Swivel Male Branch Tees



tube to tube

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
1/4"	1/8"	AQ72DOTS4x2	\$17.95	10
1/4"	1/4"	AQ72DOTS4x4	18.80	5

Union Tees



tube to tube

Tube OD	Part #	Price/E	Pkg Qty
1/4"	AQ64DOT4	\$17.05	10
3/8"	AQ64DOT6	20.80	10

D.O.T. Push-In Fittings

Features:

- materials of construction:
 - body is composite; brass collet; stainless steel tube support; threads are brass
 - Buna-N O-ring
- straight male and female (3115 and 3114) connectors have brass bodies
- pressure range: up to **250 PSI** at ambient temperature
- working temperature: **-40°F to 200°F**
- suitable fluids: compressed air only (lubricated or non-lubricated)
- complies with the performance requirements of D.O.T FMVSS 571.106 (SAE J1131) and SAE J2494-3
- These fittings are designed for use on all pneumatic circuits other than air brake assemblies between the frame and axle or between towed and towing vehicle.*



Straight Male Connectors



tube to male NPT

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
5/32"	1/8"	31150411DOT	\$5.90	10
5/32"	1/4"	31150414DOT	8.25	10
3/16"	1/8"	31155511DOT	7.75	10
3/16"	1/4"	31155514DOT	10.30	10
1/4"	1/8"	31155611DOT	5.30	10
1/4"	1/4"	31155614DOT	5.40	10
1/4"	3/8"	31155618DOT	7.30	10
3/8"	1/8"	31156011DOT	10.20	10
3/8"	1/4"	31156014DOT	7.85	10
3/8"	3/8"	31156018DOT	9.90	10
3/8"	1/2"	31156022DOT	14.05	10
1/2"	1/4"	31156214DOT	21.80	10
1/2"	3/8"	31156218DOT	21.75	10
1/2"	1/2"	31156222DOT	15.70	10

Straight Female Connectors



tube to female NPT

Tube OD	Female NPT	Part #	Price/E	Pkg Qty
5/32"	1/8"	31140411DOT	\$15.60	10
3/16"	1/8"	31145511DOT	12.90	10
1/4"	1/8"	31145611DOT	10.90	10
1/4"	1/4"	31145614DOT	10.80	10
3/8"	1/4"	31146014DOT	15.25	10
3/8"	3/8"	31146018DOT	18.40	10

- complies with performance requirements of SAE J2494

Unions



tube to tube

Tube OD	Part #	Price/E	Pkg Qty
5/32"	31060400DOT ¹	\$6.90	10
3/16"	31065500DOT ¹	10.90	10
1/4"	31065600DOT	6.10	10
3/8"	31066000DOT	9.45	10
1/2"	31066200DOT	16.05	10

¹ brass body

Bulkhead Unions



tube to tube

Tube OD	Part #	Price/E	Pkg Qty
1/4"	31165600DOT	\$12.10	10
3/8"	31166000DOT	14.85	10
1/2"	31166200DOT	24.50	10

D.O.T. Push-In Fittings

Union Elbows



tube to tube

Male Elbows



tube to male NPT

E

Tube OD	Part #	Price/E	Pkg Qty
5/32"	31020400DOT ¹	\$8.55	10
1/4"	31025600DOT	7.10	10
3/8"	31026000DOT	12.90	10
1/2"	31026200DOT	14.70	10

¹ brass body

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
5/32"	1/8"	31090411DOT ¹	\$8.85	10
3/16"	1/8"	31095511DOT ¹	12.80	10
1/4"	1/8"	31095611DOT	6.10	10
1/4"	1/4"	31095614DOT	7.20	10
1/4"	3/8"	31095618DOT	16.10	10
3/8"	1/4"	31096014DOT	15.25	10
3/8"	3/8"	31096018DOT	17.20	10
3/8"	1/2"	31096022DOT	16.60	10
1/2"	1/4"	31096214DOT	18.50	10
1/2"	3/8"	31096218DOT	17.80	10
1/2"	1/2"	31096222DOT	21.85	10

Note: This fitting can be oriented 360° allowing proper positioning of the fitting.

¹ brass body

Reducers



Plug In Elbow



Tube OD	Tube OD	Part #	Price/E	Pkg Qty
1/4"	3/8"	31665660DOT	\$4.90	10

Tube OD	Part #	Price/E	Pkg Qty
1/4"	31825600DOT	\$4.55	10

Male Branch Tees



tube to male NPT to tube

Union Tees



tube to tube to tube

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
5/32"	1/8"	31080411DOT ¹	\$15.10	10
5/32"	1/4"	31080414DOT ¹	19.50	10
3/16"	1/8"	31085511DOT ¹	15.40	10
1/4"	1/8"	31085611DOT	8.70	10
1/4"	1/4"	31085614DOT	9.50	10
1/4"	3/8"	31085618DOT	17.05	10
3/8"	1/4"	31086014DOT	15.75	10
3/8"	3/8"	31086018DOT	19.10	10
3/8"	1/2"	31086022DOT	20.00	10
1/2"	1/4"	31086214DOT	24.45	10
1/2"	3/8"	31086218DOT	24.30	10
1/2"	1/2"	31086222DOT	27.70	10

¹ brass body

Tube OD	Part #	Price/E	Pkg Qty
5/32"	31040400DOT ¹	\$10.30	10
3/16"	31045500DOT ¹	16.00	10
1/4"	31045600DOT	9.60	10
3/8"	31046000DOT	12.55	10
1/2"	31046200DOT	20.85	10

Note: This fitting can be oriented 360° allowing proper positioning of the fitting.

D.O.T. Push-In Fittings

Male Run Tees



tube to tube to male NPT

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
3/16"	1/8"	31035511DOT ¹	\$19.90	10
1/4"	1/8"	31035611DOT	8.70	10
1/4"	1/4"	31035614DOT	10.05	10
1/4"	3/8"	31035618DOT	17.20	10
3/8"	1/4"	31036014DOT	16.85	10
3/8"	3/8"	31036018DOT	20.25	10
3/8"	1/2"	31036022DOT	20.60	10
1/2"	1/4"	31036214DOT	25.05	10
1/2"	3/8"	31036218DOT	24.70	10
1/2"	1/2"	31036222DOT	27.70	10

¹ brass body

Note: This fitting can be oriented 360° allowing proper positioning of the fitting.

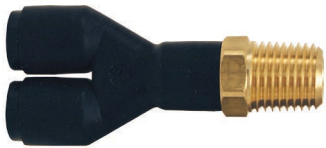
Plug In Run Tee



Tube OD	Part #	Price/E	Pkg Qty
1/4"	31835600DOT	\$11.00	10

E

Y Connectors



tube to tube to male NPT

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
1/4"	1/8"	31485611DOT	\$14.20	10
1/4"	1/4"	31485614DOT	14.90	10

Y Unions



tube to tube to tube

Tube OD	Part #	Price/E	Pkg Qty
1/4"	31405600DOT	\$11.80	10
3/8"	31406000DOT	19.10	10

Note: This fitting can be oriented 360° allowing proper positioning of the fitting.

Air Brake Fittings

Applications:

Compression style air brake fittings utilizes ribbed sleeve for compression and positive grip.

Features:

- materials: machined from CA360, CA345, or CA377 brass
- pre-applied thread sealant on all male pipe threads
- working pressure: **150 PSI** maximum
- working temperature: **-40°F to 200°F**
- compatible tubing: SAE J844 type A and B
- specifications: meets D.O.T FMVSS 571.106 and SAE J1131, and SAE J2494
- These fittings are designed for use in air brake systems or in cab controls.*

Assembly Instructions:

- Cut tubing squarely - maximum of 15° angle allowable.
- Check that port or mating part is clean and free of debris.
- Insert tubing into fittings until it bottoms on seat.
- Tighten nut with wrench until one thread remains visible on the fittings body; (this will allow for a number of remakes) or, the nut should be screwed down finger tight, then wrench-tightened as indicated in the chart below.

Tube Size	Turns required to seal from hand tight
3/16"	2½
1/4"	3
3/8" & 1/2"	4
5/8" & 3/4"	3½

E

Male Connectors



- ref. SAE 100102 BA
- thread sealant may be white or burnt orange

Tube OD	Pipe Thread	Straight Thread	Part #	Price/E	Pkg Qty
3/16"	1/16"	5/16"-24	68NAB31VS	\$19.73	25
3/16"	1/8"	5/16"-24	68NAB32VS	15.33	50
3/16"	1/4"	5/16"-24	68NAB34VS	20.18	25
1/4"	1/8"	7/16"-24	68NAB42VS	5.19	50
1/4"	1/4"	7/16"-24	68NAB44VS	6.15	50
1/4"	3/8"	7/16"-24	68NAB46VS	7.39	10
3/8"	1/8"	17/32"-24	68NAB62VS	7.48	25
3/8"	1/4"	17/32"-24	68NAB64VS	6.19	25
3/8"	3/8"	17/32"-24	68NAB66VS	7.89	25
3/8"	1/2"	17/32"-24	68NAB68VS	12.25	25
1/2"	1/4"	11/16"-20	68NAB84VS	9.47	10
1/2"	3/8"	11/16"-20	68NAB86VS	10.18	25
1/2"	1/2"	11/16"-20	68NAB88VS	12.87	25
5/8"	3/8"	13/16"-18	68NAB106VS	18.56	10
5/8"	1/2"	13/16"-18	68NAB108VS	16.16	10
3/4"	3/8"	1"-18	68NAB126VS	48.05	10
3/4"	1/2"	1"-18	68NAB128VS	26.17	10
3/4"	3/4"	1"-18	68NAB1212VS	28.24	10

Unions



Tube OD	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	7/16"-24	62NAB4	\$7.27	10
3/8"	17/32"-24	62NAB6	8.93	10
1/2"	11/16"-20	62NAB8	13.87	10
5/8"	13/16"-18	62NAB10	21.18	10
3/4"	1"-18	62NAB12	36.34	10

Female Connectors



- ref. SAE 100103 BA

Tube OD	Pipe Thread	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	1/8"	7/16"-24	66NAB42	\$7.48	25
1/4"	1/4"	7/16"-24	66NAB44	8.22	10
3/8"	1/8"	17/32"-24	66NAB62	8.93	10
3/8"	1/4"	17/32"-24	66NAB64	9.76	10
1/2"	3/8"	11/16"-20	66NAB86¹	14.66	10
1/2"	1/2"	11/16"-20	66NAB88	22.43	10
5/8"	3/8"	13/16"-18	66NAB106	20.35	10
5/8"	1/2"	13/16"-18	66NAB108	27.20	10

¹ not full hex as shown

Bulkhead Unions



Tube OD	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	7/16"-24	62NABH4	\$40.20	10
3/8"	17/32"-24	62NABH6	51.92	10
1/2"	11/16"-20	62NABH8	84.23	10

Bulkhead Unions



Tube OD	Straight Thread	Part #	Price/E	Pkg Qty
3/16"	5/16"-24	62NBH3	\$50.30	10
1/4"	7/16"-24	62NBH4	25.17	10
3/8"	17/32"-24	62NBH6	34.14	10
1/2"	11/16"-20	62NBH8	32.89	10
5/8"	13/16"-18	62NBH10	98.02	10

Air Brake Fittings

Bulkhead Unions



Tube OD	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	7/16"-24	62NFBH4	\$15.91	10
3/8"	17/32"-24	62NFBH6	36.55	10
1/2"	11/16"-20	62NFBH8	29.45	10
5/8"	13/16"-18	62NFBH10	44.48	10

Male Elbows



- ref. SAE 100202 BA
- thread sealant may be white or burnt orange

Tube OD	Pipe Thread	Straight Thread	Part #	Price/E	Pkg Qty
3/16"	1/8"	5/16"-24	69NAB32VS	\$19.42	10
3/16"	1/4"	5/16"-24	69NAB34VS	28.31	10
1/4"	1/8"	7/16"-24	69NAB42VS	6.65	50
1/4"	1/4"	7/16"-24	69NAB44VS	8.10	50
1/4"	3/8"	7/16"-24	69NAB46VS	9.76	10
3/8"	1/8"	17/32"-24	69NAB62VS	9.76	10
3/8"	1/4"	17/32"-24	69NAB64VS	9.55	25
3/8"	3/8"	17/32"-24	69NAB66VS	9.72	25
3/8"	1/2"	17/32"-24	69NAB68VS	17.65	10
1/2"	1/4"	11/16"-20	69NAB84VS	14.70	10
1/2"	3/8"	11/16"-20	69NAB86VS	14.16	10
1/2"	1/2"	11/16"-20	69NAB88VS	17.78	10
5/8"	3/8"	13/16"-18	69NAB106VS	20.43	10
5/8"	1/2"	13/16"-18	69NAB108VS	22.14	5
3/4"	1/2"	1"-18	69NAB128VS	37.30	5
3/4"	3/4"	1"-18	69NAB1212VS	39.87	5

Union Elbows



- ref. SAE 100201 BA

Tube OD	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	7/16"-24	65NAB4	\$12.25	10
3/8"	17/32"-24	65NAB6	14.12	10
1/2"	11/16"-20	65NAB8	23.88	10
5/8"	13/16"-18	65NAB10	45.48	10

Bulkhead Union



Tube OD	Pipe Thread	Part #	Price/E	Pkg Qty
1/2"	3/8"	66NBH86	\$39.79	10

Female Elbows



- ref. SAE 100203 BA

Tube OD	Pipe Thread	Straight Thread	Part #	Price/E	Pkg Qty
3/16"	1/8"	5/16"-24	70NAB32	\$62.63	25
1/4"	1/8"	7/16"-24	70NAB42	10.13	25
1/4"	1/4"	7/16"-24	70NAB44	14.12	25
3/8"	1/8"	17/32"-24	70NAB62	15.87	10
3/8"	1/4"	17/32"-24	70NAB64	10.05	10
3/8"	3/8"	17/32"-24	70NAB66	18.81	10
1/2"	3/8"	11/16"-20	70NAB86	25.54	10
1/2"	1/2"	11/16"-20	70NAB88	31.23	10
5/8"	1/2"	13/16"-18	70NAB108	58.10	10

45° Elbows



- ref. SAE 100302 BA
- thread sealant may be white or burnt orange

Tube OD	Pipe Thread	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	1/8"	7/16"-24	79NAB42VS	\$9.64	10
1/4"	1/4"	7/16"-24	79NAB44VS	10.80	10
3/8"	1/8"	17/32"-24	79NAB62VS	11.01	10
3/8"	1/4"	17/32"-24	79NAB64VS	10.18	10
3/8"	3/8"	17/32"-24	79NAB66VS	12.50	10
3/8"	1/2"	17/32"-24	79NAB68VS	17.65	10
1/2"	1/4"	11/16"-20	79NAB84VS	15.57	10
1/2"	3/8"	11/16"-20	79NAB86VS	15.99	10
1/2"	1/2"	11/16"-20	79NAB88VS	21.80	10
5/8"	3/8"	13/16"-18	79NAB106VS	28.95	10
5/8"	1/2"	13/16"-18	79NAB108VS	25.96	10
3/4"	1/2"	1"-18	79NAB128VS	35.76	10

Air Brake Fittings

Male Branch Tees



- ref. SAE 100425 BA
- thread sealant may be white or burnt orange

E

Tube OD	Pipe Thread	Straight Thread	Part #	Price/E	Pkg Qty
3/16"	1/8"	7/16"-24	72NAB32VS	\$116.99	10
1/4"	1/8"	7/16"-24	72NAB42VS	15.78	10
1/4"	1/4"	7/16"-24	72NAB44VS	15.78	10
3/8"	1/8"	17/32"-24	72NAB62VS	18.90	10
3/8"	1/4"	17/32"-24	72NAB64VS	17.44	10
3/8"	3/8"	17/32"-24	72NAB66VS	18.94	10
1/2"	1/4"	11/16"-20	72NAB84VS	25.33	10
1/2"	3/8"	11/16"-20	72NAB86VS	25.75	10
1/2"	1/2"	11/16"-20	72NAB88VS	32.19	10
5/8"	1/2"	13/16"-18	72NAB108VS	49.42	10

Union Tees



- ref. SAE 100401 BA

Tube OD	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	7/16"-24	64NAB4	\$15.57	25
3/8"	17/32"-24	64NAB6	17.24	25
1/2"	11/16"-20	64NAB8	30.53	10
5/8"	13/16"-18	64NAB10	48.18	10

Male Run Tees



- ref. SAE 100424 BA
- thread sealant may be white or burnt orange

Tube OD	Pipe Thread	Straight Thread	Part #	Price/E	Pkg Qty
1/4"	1/8"	7/16"-24	71NAB42VS	\$14.54	25
1/4"	1/4"	7/16"-24	71NAB44VS	19.10	10
3/8"	1/4"	17/32"-24	71NAB64VS	17.03	10
3/8"	3/8"	17/32"-24	71NAB66VS	21.60	10
1/2"	3/8"	11/16"-20	71NAB86VS	26.25	10
1/2"	1/2"	11/16"-20	71NAB88VS	35.93	10
5/8"	1/2"	13/16"-18	71NAB108VS	48.34	10

Sleeves



- ref. SAE 100115

Tube OD	Part #	Price/E	Pkg Qty
3/16"	60NAB3	\$0.96	100
1/4"	60NAB4	0.58	100
3/8"	60NAB6	0.79	100
1/2"	60NAB8	0.91	100
5/8"	60NAB10	1.91	100
3/4"	60NAB12	2.49	50

Inserts



- for SAE J844 Tubing

Tube OD	302/304 Stainless Steel Part #	Price/E	Pkg Qty
1/4"	63NAB4	\$9.14	200
3/8"	63NAB6	0.96	200
1/2"	63NAB8	1.08	100
5/8"	63NAB10	2.49	100
3/4"	63NAB12	4.03	100

Nuts



- ref. SAE 100110

Tube OD	Male NPT	Part #	Price/E	Pkg Qty
3/16"	5/16"-24	61NAB3	\$3.47	100
1/4"	7/16"-24	61NAB4	1.25	100
3/8"	17/32"-24	61NAB6	1.74	100
1/2"	11/16"-20	61NAB8	3.28	50
5/8"	13/16"-18	61NAB10	5.40	25
3/4"	1"-18	61NAB12	7.97	25

Air Brake Fittings Springs

Hose Size	Part #	Price/E
3/8"	56RBSG-06	\$2.34
1/2"	56RBSG-08	2.42



Spring Guard Nuts

Hose Size	Straight Thread	Part #	Price/E
3/8"	31/32"-20	61RBSG-06	\$5.74
1/2"	1-3/32"-20	61RBSG-08	10.01



E

Hose Nut and Attached Spring

Hose Size	Length	Part #	Price/E
3/8"	3½"	67RBSG-06	\$7.00
1/2"	3¾"	67RBSG-08	13.53



Male Connector - Body Only

Tube OD	Pipe Thread	Straight Thread	Hex	Part #	Price/E
3/8"	1/4"	31/32"-20	31/32"	68RB-0604B	\$7.04
3/8"	3/8"	31/32"-20	31/32"	68RB-0606B	7.31
3/8"	1/2"	31/32"-20	31/32"	68RB-0608B	9.39
1/2"	3/8"	1-3/32"-20	1-1/8"	68RB-0806B	13.99
1/2"	1/2"	1-3/32"-20	1-1/8"	68RB-0808B	16.83



Male Connector with Spring Guard

Hose Size	Pipe Thread	Hex	Part #	Price/E
3/8"	1/4"	31/32"	68RBSG-0604	\$16.06
3/8"	3/8"	31/32"	68RBSG-0606	16.68
3/8"	1/2"	31/32"	68RBSG-0608	17.92
1/2"	3/8"	1-1/8"	68RBSG-0806	29.15
1/2"	1/2"	1-1/8"	68RBSG-0808	30.44



D.O.T. Air Brake Tubing Rolls

Features:

- meets Department of Transportation FMVSS-106 nylon material conforming to SAE J844
- shipped in lengths of 100' roll
- working pressure: **150 PSI**
- temperature range: **-40°F to 200°F**

Size OD	Tubing Color	Part #	Price/E
3/16"	black	J844-03-BL-100	\$62.25
1/4"	black	J844-04-BL-100	95.00
1/4"	blue	J844-04-B-100	95.00
1/4"	red	J844-04-R-100	95.00
3/8"	black	J844-06-BL-100	235.65
3/8"	blue	J844-06-B-100	235.65
3/8"	red	J844-06-R-100	235.65
1/2"	black	J844-08-BL-100	316.60
5/8"	black	J844-10-BL-100	533.40
3/4"	black	J844-12-BL-100	806.80

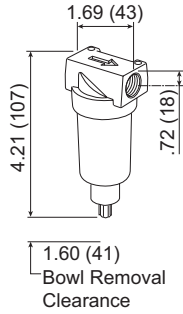
Tubing cutters sold on page 337



Wilkerson Miniature Filters



transparent bowl



Features:

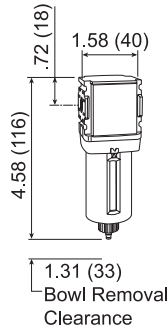
- excellent water removal efficiency
- 5 micron element
- .5 oz. bowl
- maximum operating conditions:
transparent bowl: **150 PSIG** (10 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17 bar) and **32°F to 175°F** (0°C to 80°C)

E

Size	SCFM	With Transparent Bowl				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	22	F03-01A	\$56.35	F03-01M	\$46.95	F03-01AMB	\$63.65	F03-01MMB	\$54.35
1/4"	24	F03-02A	56.35	F03-02M	46.95	F03-02AMB	63.65	F03-02MMB	54.35



metal bowl



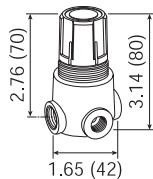
Features:

- 5 micron element
- .4 oz. bowl
- maximum operating conditions:
transparent bowl: **150 PSIG** (10 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	25	F08-01A	\$60.30	F08-01M	\$51.15	F08-01AMB	\$66.30	F08-01MMB	\$58.80
1/4"	50	F08-02A	60.30	F08-02M	51.15	F08-02AMB	66.30	F08-02MMB	58.80

See pages 212-215 for filter accessories.

Wilkerson Miniature Regulators



Features:

- 2-125 PSI adjusting range
- balanced valve design
- self-relieving standard
- non-rising push/pull locking adjustment knob
- two 1/8" NPT gauge ports standard on models without gauge, one 1/8" NPT gauge port standard on models with gauge - can be used for additional outlet ports.
- models supplied without gauge use a GC620 gauge.
- panel mount nuts sold separately
- maximum operating conditions:
300 PSIG (20.17 bar) and **32°F to 125°F** (0°C to 52°C)

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/8"	13	R03-01RG	\$52.80	R03-01R	\$36.10
1/4"	15	R03-02RG	52.80	R03-02R	36.10

See pages 215-217 for regulator accessories.



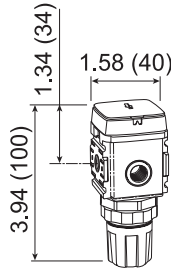
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Miniature Regulators

Features:

- 0-125 PSI adjusting range
- balanced valve design
- self-relieving standard
- non-rising push/pull locking adjustment knob
- two 1/8" NPT gauge ports standard on models without gauge, one 1/8" NPT gauge port standard on models with gauge - can be used for additional outlet ports.
- models with gauge are supplied with a 0-160 flush mount style gauge
- models supplied without gauge use a GC620 gauge.
- panel mount nuts sold separately
- maximum operating conditions:
300 PSIG (20.7 bar) and **32°F to 150°F** (0°C to 65.5°C)



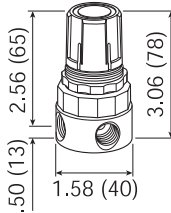
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Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/8"	29.2	R08-01RG	\$63.00	R08-01R	\$41.30
1/4"	44	R08-02RG	63.00	R08-02R	41.30

Wilkerson Miniature Water Regulators

Features:

- 2-125 PSI adjusting range
- suitable for water and compressed air service
- brass construction - wetted parts
- non-relieving spring-loaded diaphragm
- panel mount nut included
- two 1/8" NPT gauge ports standard
- models supplied without gauge use a GC620 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and **40°F to 125°F** (4.4°C to 52°C)



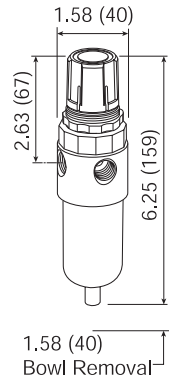
Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/8"	11	RB3-01RG	\$66.50	RB3-01R	\$49.80
1/4"	14	RB3-02RG	66.50	RB3-02R	49.80

See pages 216-217 for regulator accessories.

Wilkerson Miniature Filter / Regulators

Features:

- 2-125 PSI adjusting range
- 5 micron element
- .5 oz. bowl
- self-relieving
- supplied with a GC620 gauge
- maximum operating conditions:
transparent bowl: **125 PSIG** (8.6 bar) and **40°F to 125°F** (4.4°C to 52°C)
metal bowl: **300 PSIG** (20.7 bar) and **40°F to 125°F** (4.4°C to 52°C)



transparent bowl

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	13	BB3-01AG	\$124.50	BB3-01MG	\$114.80	BB3-01AGMB	\$132.00	BB3-01MGMB	\$122.30
1/4"	16	BB3-02AG	124.50	BB3-02MG	114.80	BB3-02AGMB	132.00	BB3-02MGMB	122.30



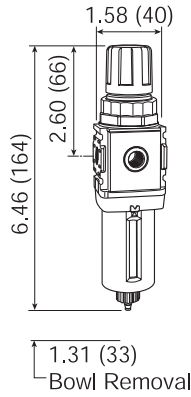
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Miniature Filter / Regulators



metal bowl



Features:

- 0-125 PSI adjusting range
- 5 micron element
- .4 oz. bowl
- self-relieving
- supplied with a 0-160 PSI flush mount style gauge
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

E

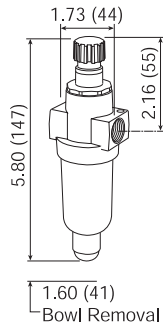
Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	28.6	B08-01AG	\$110.95	B08-01MG	\$101.60	B08-01AGMB	\$131.80	B08-01MGMB	\$122.50
1/4"	42.1	B08-02AG	110.95	B08-02MG	101.60	B08-02AGMB	131.80	B08-02MGMB	122.50

See pages 220-221 for filter/regulator accessories.


Wilkerson Miniature Lubricators



transparent bowl



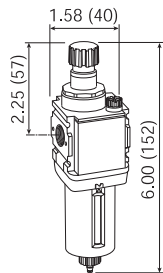
Features:

- 1 oz. bowl
- adjustable oil feed
- full view sight dome
-  **Do not fill under pressure. Air supply must be turned off and pressure bled from unit prior to adding oil.**
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 175°F** (0°C to 80°C)

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/8"	20	L03-01A	\$72.05	L03-01AMB	\$79.35
1/4"	20	L03-02A	72.05	L03-02AMB	79.35



metal bowl



Features:

- .6 oz. bowl
- adjustable oil feed
- full view sight dome
- fill under pressure design
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/8"	23.5	L08-01A	\$72.25	L08-01AMB	\$79.90
1/4"	57.5	L08-02A	72.25	L08-02AMB	79.90

See pages 218-220 for lubricator accessories. See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Miniature Combination Units (Filter, Regulator, Lubricator)

Features:

- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 175°F** (0°C to 80°C)

Filter series F03:

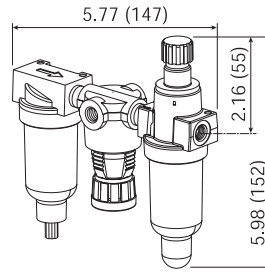
- 5 micron element
- .5 oz. bowl

Regulator series R03:

- 2-125 PSI adjusting range
- balanced valve design
- self-relieving
- supplied with a GC620 gauge
- Regulator can be mounted with knob in up or down position.

Lubricator series L03:

- 1 oz. bowl
 - adjustable oil feed
 - full view sight dome
- Included components:
- (2) adapters



1.60 (41)
Bowl Removal
Clearance



transparent bowl

E

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	20	C03-01A	\$225.55	C03-01M	\$216.15	C03-01AMB	\$240.15	C03-01MMB	\$230.85
1/4"	20	C03-02A	223.70	C03-02M	213.90	C03-02AMB	241.30	C03-02MMB	228.80

Features:

- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

Filter series F08:

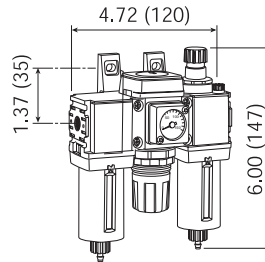
- 5 micron element
- .4 oz. bowl

Regulator series R08:

- 0-125 PSI adjusting range
- balanced valve design
- self-relieving
- supplied with a 0-160 PSI flush mount style gauge

Lubricator series L08:

- .6 oz. bowl
 - adjustable oil feed
 - full view sight dome
- Included components:
- (2) mounting brackets with joiner set



1.31 (33)
Bowl Removal
Clearance



metal bowl

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	29	C08-01A	\$263.55	C08-01M	\$254.40	C08-01AMB	\$277.20	C08-01MMB	\$269.70
1/4"	44	C08-02A	263.55	C08-02M	254.40	C08-02AMB	277.20	C08-02MMB	269.70

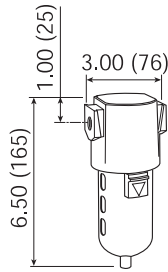
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Airline Compact Filters



with guard



Features:

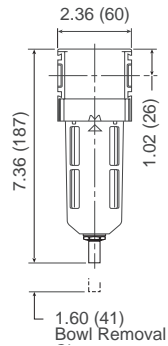
- 5 micron element
- 5 oz. bowl
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)

E

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	63.0	F16-02A	\$179.25	F16-02M	\$122.45	F16-02AMB	\$195.80	F16-02MMB	\$139.00
3/8"	74.1	F16-03A	179.25	F16-03M	122.45	F16-03AMB	195.80	F16-03MMB	139.00
1/2"	80.4	F16-04A	179.25	F16-04M	122.45	F16-04AMB	195.80	F16-04MMB	139.00



transparent bowl with guard



Features:

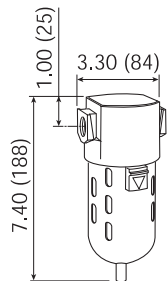
- high flow capacity
- 5 micron element
- 4 oz. bowl
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	110	F18-02A	\$149.50	F18-02M	\$93.30	F18-02AMB	\$160.20	F18-02MMB	\$107.60
3/8"	120	F18-03A	149.50	F18-03M	93.30	F18-03AMB	160.20	F18-03MMB	107.60
1/2"	145	F18-04A	149.50	F18-04M	93.30	F18-04AMB	160.20	F18-04MMB	107.60

Wilkerson Airline Standard Filters



with guard



Features:

- 5 micron element
- 10 oz. bowl
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	81.3	F26-02A	\$222.55	F26-02M	\$165.75	F26-02AMB	\$240.75	F26-02MMB	\$183.95
3/8"	117.8	F26-03A	222.55	F26-03M	165.75	F26-03AMB	240.75	F26-03MMB	183.95
1/2"	149.8	F26-04A	222.55	F26-04M	165.75	F26-04AMB	240.75	F26-04MMB	183.95

See pages 212-215 for filter accessories.



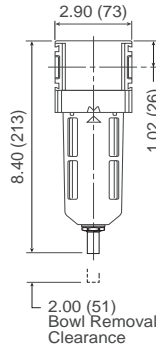
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Airline Standard Filters

Features:

- high flow capacity
- 5 micron element
- 6 oz. bowl
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)



with metal bowl

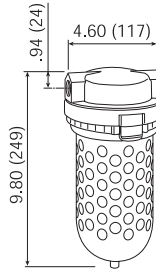


Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/8"	144	F28-03A	\$184.60	F28-03M	\$128.65	F28-03AMB	\$196.25	F28-03MMB	\$143.60
1/2"	160	F28-04A	184.60	F28-04M	128.65	F28-04AMB	196.25	F28-04MMB	143.60
3/4"	165	F28-06A	184.60	F28-06M	128.65	F28-06AMB	196.25	F28-06MMB	143.60

Wilkerson Airline Jumbo Filters

Features:

- 5 micron element
- 1 qt. bowl
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)

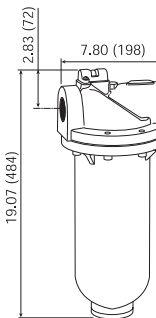


with guard

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4"	316	F30-06A	\$335.60	F30-06M	\$278.80	F30-06AMB	\$389.90	F30-06MMB	\$333.10
1"	323	F30-08A	335.60	F30-08M	278.80	F30-08AMB	389.90	F30-08MMB	333.10

Features:

- 5 micron element
- 1 qt. bowl
- maximum operating conditions:
metal bowl: **150 PSIG** (10.3 bar) and **32°F to 150°F** (0°C to 65.5°C)



with metal bowl

Size	SCFM	With Heavy Duty Metal Bowl			
		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1 1/2"	1280	F35-0BAMB	\$1315.35	F35-0BMMB	\$1258.55
2"	1400	F35-0CAMB	1315.35	F35-0CMMB	1258.55

See pages 212-215 for filter accessories.

FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Modular Coalescing Filters

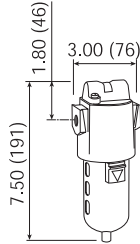


- for removal of extremely fine oil mists, oil aerosols and microscopic particles
- A standard airline filter should be installed as a pre-filter when using a coalescing filter.
- 0.5 micron type B and 0.003 micron type D elements are optional
- differential pressure indicator changes from green to red with pressure loss

E



with guard



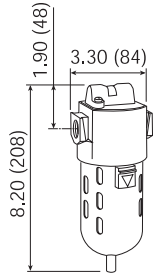
Features:

- 0.01 micron type C element
- 5 oz. bowl
- can be installed in modular system
- maximum operating conditions:
150 PSIG (10.3 bar) and 32°F to 125°F (0°C to 52°C)

Size	SCFM	With Compact Transparent Bowl and Guard			
		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	37.0	M16-02A	\$282.00	M16-02M	\$225.20
3/8"	44.7	M16-03A	282.00	M16-03M	225.20
1/2"	46.1	M16-04A	282.00	M16-04M	225.20



with guard



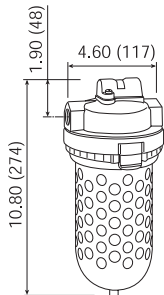
Features:

- 0.01 micron type C element
- 10 oz. bowl
- can be installed in modular system
- maximum operating conditions:
150 PSIG (10.3 bar) and 32°F to 125°F (0°C to 52°C)

Size	SCFM	With Standard Transparent Bowl and Guard			
		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	55.0	M26-02A	\$344.85	M26-02M	\$288.05
3/8"	65.5	M26-03A	344.85	M26-03M	288.05
1/2"	79.5	M26-04A	344.85	M26-04M	288.05



with guard



Features:

- 0.01 micron type C element
- 1 qt. bowl
- maximum operating conditions:
150 PSIG (10.3 bar) and 32°F to 125°F (0°C to 52°C)

Size	SCFM	With Jumbo Transparent Bowl and Guard	
		Automatic Drain	
		Part #	Price/E
1/2"	123	M30-04A	\$585.00
3/4"	173	M30-06A	585.00
1"	203	M30-08A	585.00

See pages 212-215 for filter accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

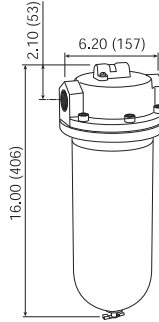
Wilkerson Heavy Duty Modular Coalescing Filters



- for removal of extremely fine oil mists, oil aerosols and microscopic particles
- A standard airline filter should be installed as a pre-filter when using a coalescing filter.
- 1.0 micron type B1 and 0.003 micron type D elements are optional
- differential pressure indicator changes from green to red with pressure loss

Features:

- 0.01 micron type C element
- 1 qt. bowl
- differential pressure indicator eliminates the guesswork of element placement
- maximum operating conditions:
150 PSIG (10.3 bar) and **32°F to 150°F** (0°C to 65.5°C)

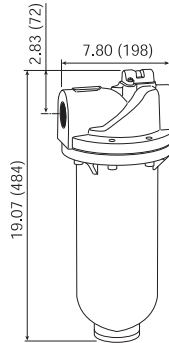


E

Size	SCFM	With Metal Bowl	
		Automatic Drain	Price/E
1 1/4"	741	Part # M32-0AAMB	\$1675.15

Features:

- 0.01 micron type C element
- 1 qt. bowl
- differential pressure indicator eliminates the guesswork of element placement
- maximum operating conditions:
150 PSIG (10.3 bar) and **32°F to 150°F** (0°C to 65.5°C)



Size	SCFM	With Metal Bowl	
		Automatic Drain	Price/E
1 1/2"	710	Part # M35-0BAMB	\$1789.55
2"	710	M35-0CAMB	1789.55

See pages 212-215 for filter accessories.

FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Manual In-Line Desiccant Dryers

Manual air dryers are used to remove water vapor from compressed air systems, in applications such as paint spraying, laboratory instruments and small control air systems. Filtration for absorber type dryers is important to protect the desiccant bed from contamination. Cleaner incoming air will result in better performance, longer life and fewer service problems. To regenerate silica gel desiccant, it must be heated to at least 350°F for approximately 3 hours or until color has changed from pink to blue. Allow desiccant to cool to room temperature before pouring back into unit bowl.

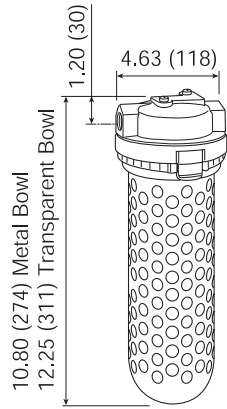


An after-filter should be placed downstream from the desiccant dryer to ensure solid contaminants such as desiccant dust do not migrate downstream.

E



with metal bowl



Features:

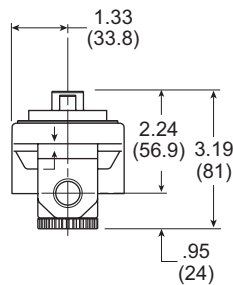
- 1.64 lb. bowl
- will dry up to 4400 standard cubic feet of air
- desiccant is good for approximately 440 minutes at maximum continuous air flow before regeneration is required
- silica gel changes from blue to pink to indicate the need to replace or regenerate the desiccant
- slotted bowl guard for visual detection of color change
- no electrical connection necessary
- provides atmospheric dew point of -45°F with dry desiccant at **100 PSI and 70°F**
- maximum operating conditions:
transparent bowl: **150 PSIG** (10 bar) and **125°F** (52°C)
metal bowl: **150 PSIG** (10 bar) and **150°F** (66°C)

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/4"	10	X03-02	\$338.30	X03-02MB	\$440.55

See page 212 for silica gel refill.

Wilkerson Dial Air Regulators

Dial-air regulators feature a transparent, pressure-calibrated, non-rising adjustment dial for quick adjustment of secondary pressure. The full reduced pressure range can be dialed in less than 270° of dial rotation. This feature is particularly advantageous if secondary pressure must be changed frequently. Dial air regulators can be mounted in any position so dial face is always visible. All dial-air units have a slight constant air bleed.



Features:

- 0-160 PSI adjusting range
- balanced valve design
- relieving type
- non-rising pressure adjusting dial
- piston operated
- two 1/4" NPT gauge ports standard on models without gauge, one 1/4" NPT gauge port standard on models with gauge - can be used for additional outlet ports.
- models supplied without gauge use a GC230 gauge
- maximum supply pressure: **300 PSIG** (20.7 bar)
- operating temperature: **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	117	R21-02RG	\$215.50	R21-02R	\$194.80
3/8"	180	R21-03RG	215.50	R21-03R	194.80
1/2"	195	R21-04RG	215.50	R21-04R	194.80
3/4"	220	R21-06RG	215.50	R21-06R	194.80

See pages 215-217 for regulator accessories.



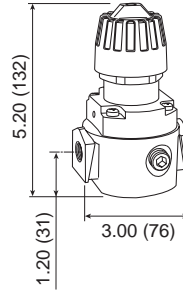
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 100 PSIG inlet pressure.

Wilkerson Compact Regulators

Features:

- 0-125 PSI adjusting range
- for 0-60 PSI adjusting range, add an L to the end of the part number
- self-relieving standard
- can be installed with the adjusting knob in any position
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC230 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)

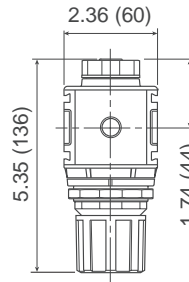


E

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	71.5	R16-02RG	\$117.75	R16-02R	\$97.05
3/8"	80.5	R16-03RG	117.75	R16-03R	97.05
1/2"	88.0	R16-04RG	117.75	R16-04R	97.05

Features:

- 0-125 PSI adjusting range
- self-relieving standard
- can be installed with the adjusting knob in any position
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- Two ¼" NPT gauge ports located on the front and rear faces of the body. These ports may be used as additional regulated ports or for pressure gauges.
- models supplied without gauge use a GC230 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)

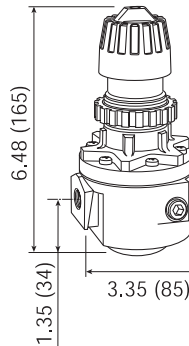


Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	82	R18-02RG	\$92.60	R18-02R	\$71.90
3/8"	97	R18-03RG	92.60	R18-03R	71.90
1/2"	97	R18-04RG	92.60	R18-04R	71.90

Wilkerson Standard Regulators

Features:

- 0-125 PSI adjusting range
- non-rising push/pull locking adjustment knob
- panel mount nut standard
- excellent flow characteristics
- can be installed with the adjusting knob in any position
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC230 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)



Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	112	R26-02RG	\$168.55	R26-02R	\$147.85
3/8"	148	R26-03RG	168.55	R26-03R	147.85
1/2"	185	R26-04RG	168.55	R26-04R	147.85

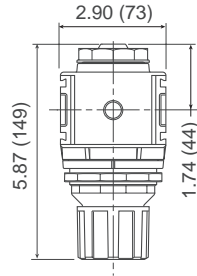
See pages 215-217 for regulator accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 100 PSIG inlet pressure.

Wilkerson Standard Regulators

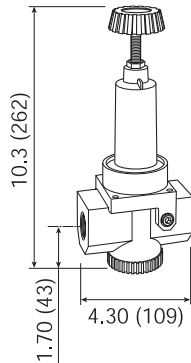

Features:

- 0-125 PSI adjusting range
- self-relieving standard
- four adjusting pressure ranges available
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- Two ¼" NPT gauge ports located on the front and rear faces of the body. These ports may be used as additional regulated ports or for pressure gauges.
- models supplied without gauge use a GC230 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)

E

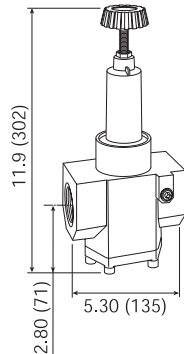
Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
3/8"	162	R28-03RG	\$132.85	R28-03R	\$112.15
1/2"	170	R28-04RG	132.85	R28-04R	112.15
3/4"	176	R28-06RG	132.85	R28-06R	112.15

Wilkerson High Flow Regulators


Features:

- 0-125 PSI adjusting range
- self-relieving standard
- piston operated
- can be installed with the adjusting knob in any position
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC230 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
¾"	480	R30-06RG	\$266.80	R30-06R	\$246.10
1"	500	R30-08RG	266.80	R30-08R	246.10
1¼"	800	R30-0ARG	266.80	R30-0AR	246.10


Features:

- 0-125 PSI adjusting range
- self-relieving standard
- piston operated
- can be installed with the adjusting knob in any position
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC230 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1½"	1200	R40-0BRG	\$488.60	R40-0BR	\$467.90
2"	1200	R40-0CRG	488.60	R40-0CR	467.90

See pages 215-217 for regulator accessories.



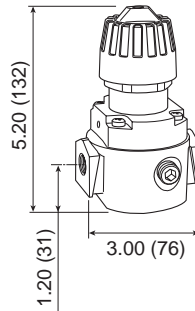
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 100 PSIG inlet pressure.

Wilkerson High Pressure Compact Regulators

Features:

- 0-250 PSI adjusting range
- self-relieving standard
- non-rising push/pull locking adjustment knob
- panel mount nut standard
- excellent flow characteristics
- can be installed with the adjusting knob in any position
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC240 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and **32°F to 150°F** (0°C to 65.5°C)



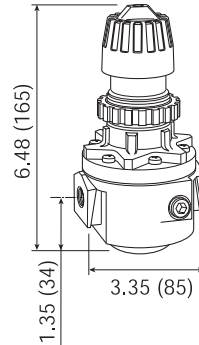
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Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	71.5	R16-02RHG	\$117.75	R16-02RH	\$97.05
3/8"	80.5	R16-03RHG	117.75	R16-03RH	97.05
1/2"	88.0	R16-04RHG	117.75	R16-04RH	97.05

Wilkerson High Pressure Standard Regulators

Features:

- 0-250 PSI adjusting range
- self-relieving standard
- non-rising push/pull locking adjustment knob
- panel mount nut standard
- excellent flow characteristics
- can be installed with the adjusting knob in any position
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC240 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and **32°F to 150°F** (0°C to 65.5°C)



Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	112	R26-02RHG	\$168.55	R26-02RH	\$147.85
3/8"	148	R26-03RHG	168.55	R26-03RH	147.85
1/2"	185	R26-04RHG	168.55	R26-04RH	147.85

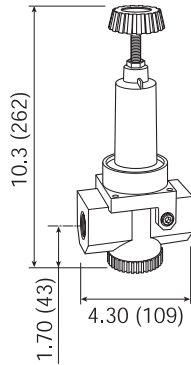
See pages 215-217 for regulator accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 100 PSIG inlet pressure.

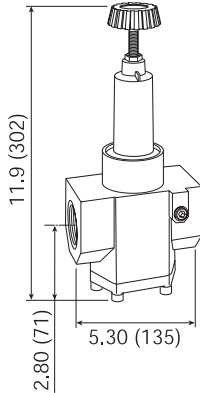
Wilkerson High Pressure High Flow Regulators

**Features:**

- 0-180 PSI adjusting range
- self-relieving standard
- piston operated
- can be installed with the adjusting knob in any position
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC240 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)

E

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
¾"	480	R30-06RHG	\$266.80	R30-06RH	\$246.10
1"	500	R30-08RHG	266.80	R30-08RH	246.10
1¼"	800	R30-0ARHG	266.80	R30-0ARH	246.10

**Features:**

- 0-180 PSI adjusting range
- self-relieving standard
- piston operated
- can be installed with the adjusting knob in any position
- To increase regulated pressure, pull adjusting knob up and turn clockwise. To reduce pressure, turn knob counter clockwise.
- two ¼" NPT gauge ports standard on models without gauge, one ¼" NPT gauge port standard on models with gauge - can be used for additional outlet ports
- models supplied without gauge use a GC240 gauge
- maximum operating conditions:
300 PSIG (20.7 bar) and 32°F to 150°F (0°C to 65.5°C)

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1½"	1200	R40-0BRHG	\$488.60	R40-0BRH	\$467.90
2"	1200	R40-0CRHG	488.60	R40-0CRH	467.90

See pages 215-217 for regulator accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 100 PSIG inlet pressure.

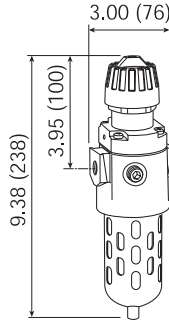
Wilkerson Compact Filter / Regulators

Application:

Over-under units are space savers and provide for installation in tight areas. One common inlet/outlet for both filter and regulator saves on piping costs.

Features:

- 0-125 PSIG adjusting range
- 5 micron reusable element
- 5 oz. bowl
- self-relieving standard
- diaphragm operated
- quick-disconnect bowl guard with integral plastic bowl and safety latch standard
- Two 1/4" gauge ports are provided in either side of the regulator body for installation of a gauge or to use as an additional outlet port. Plug unused port(s).
- supplied with GC230 gauge
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)



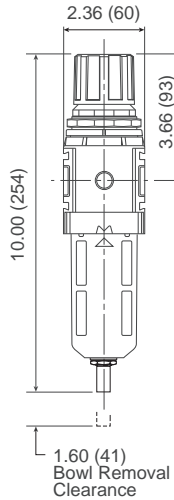
with guard



Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	64.0	CB6-02AG	\$277.30	CB6-02MG	\$220.50	CB6-02AGMB	\$293.85	CB6-02MGMB	\$237.05
3/8"	70.0	CB6-03AG	277.30	CB6-03MG	220.50	CB6-03AGMB	293.85	CB6-03MGMB	237.05
1/2"	70.0	CB6-04AG	277.30	CB6-04MG	220.50	CB6-04AGMB	293.85	CB6-04MGMB	237.05

Features:


- 0-125 PSIG adjusting range
- 5 micron element
- 4 oz. bowl
- self-relieving standard
- spring-loaded diaphragm
- To increase regulated pressure, pull adjusting knob and turn clockwise. To reduce pressure, turn knob counter clockwise. To lock knob, push down.
- Two 1/4" gauge ports located on the front and rear faces of the body. These ports may be used as additional regulated ports or for pressure gauges. Plug unused port(s).
- supplied with GC230 gauge
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)



with metal bowl

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	88	B18-02AG	\$211.85	B18-02MG	\$155.05	B18-02AGMB	\$215.70	B18-02MGMB	\$158.90
3/8"	117	B18-03AG	211.85	B18-03MG	155.05	B18-03AGMB	215.70	B18-03MGMB	158.90
1/2"	121	B18-04AG	211.85	B18-04MG	155.05	B18-04AGMB	215.70	B18-04MGMB	158.90

See page 221 for filter/regulator accessories.

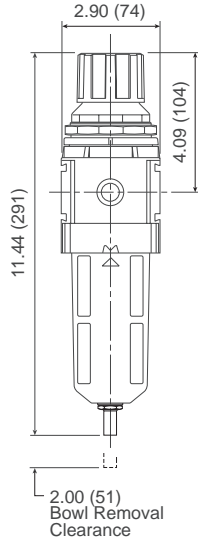
 FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 100 PSIG inlet pressure.

Wilkerson Standard Filter / Regulators



with metal bowl



Features:

- 0-125 PSIG adjusting range
- 5 micron element
- 6 oz. bowl
- self-relieving standard
- spring-loaded diaphragm
- To increase regulated pressure, pull adjusting knob and turn clockwise. To reduce pressure, turn knob counter clockwise. To lock knob, push down.
- Two ¼" gauge ports located on the front and rear faces of the body. These ports may be used as additional regulated ports or for pressure gauges. Plug unused port(s).
- supplied with GC230 gauge
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/8"	140	B28-03AG	\$247.75	B28-03MG	\$190.95	B28-03AGMB	\$252.30	B28-03MGMB	\$195.50
1/2"	165	B28-04AG	247.75	B28-04MG	190.95	B28-04AGMB	252.30	B28-04MGMB	195.50
3/4"	175	B28-06AG	247.75	B28-06MG	190.95	B28-06AGMB	252.30	B28-06MGMB	195.50

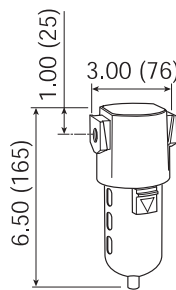
See page 221 for filter/regulator accessories.
SCFM ratings at 100 PSIG inlet pressure.

Wilkerson EconOmist® Compact Lubricators

Designed so that all the oil flow observed in the sight dome is broken into a mist and delivered via the airflow to the application. The oil in the bowl can be filled or replenished without interrupting airflow or bleeding pressure from the system. Once the oil-fill cap is removed, the bowl is depressurized and isolated from line pressure, and the bowl itself can then be removed for faster refill, if desired. The bowl can be filled right to the top.



transparent bowl with guard



Features:

- 5 oz. bowl
- full view sight dome
- fill under pressure design
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/4"	36.1	L16-02A	\$146.20	L16-02AMB	\$162.70
3/8"	58.5	L16-03A	146.20	L16-03AMB	162.70
1/2"	64.0	L16-04A	146.20	L16-04AMB	162.70

See pages 218-220 for lubricator accessories. See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Lubricators

Flow Guide®

The elastomer disc-shaped device is located in the throat of all Wilkerson lubricators and automatically maintains a constant ratio of oil flow to airflow regardless of changing rates of airflow. This allows one lubricator to serve several pneumatic components operating together or intermittently.

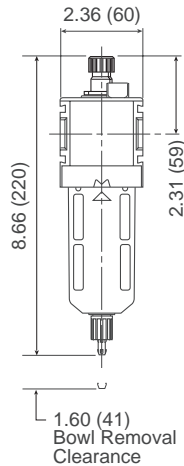
Type of oil to use:

For all Wilkerson lubricators, use any petroleum-base, non-detergent light weight oil (SAE 10/150SSU) which will readily break up into a mist, i.e., Mobil DTE light or comparable oil. Do not use any synthetic oil or oils containing additives or solvents. See page 136 for air tool lubricants.

Wilkerson EconOmist® Compact Lubricators

Features:

- 4.09 oz. bowl
- manual drain
- high flow capacity
- can be filled under pressure
- To adjust and set oil delivery rate the unit must be pressurized and air must be flowing through the unit. Turn the sight dome, located on the top of the unit, counter clockwise to initiate oil delivery. If flow increases or decreases, the oil delivery rate will increase or decrease proportionally. Turning the sight dome clockwise will stop all oil delivery.
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)



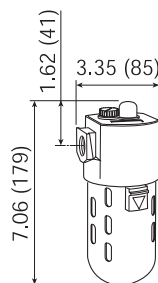
with metal bowl

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/4"	88	L18-02A	\$114.05	L18-02AMB	\$128.30
3/8"	90	L18-03A	114.05	L18-03AMB	128.30
1/2"	96	L18-04A	114.05	L18-04AMB	128.30

Wilkerson EconOmist® Standard Lubricators

Features:

- 10 oz. bowl
- adjustable oil feed
- can be filled under pressure
- quick-disconnect metal bowl guard with integral safety latch
- siphon tube filter provides clean lubricant downstream
- The rate of oil delivery may be controlled by turning the adjusting screw counter clockwise for more and clockwise for less oil delivery. If flow increases or decreases, the oil delivery rate will increase or decrease proportionally.
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)



with metal bowl

Size	SCFM	With Transparent Bowl		With Metal Bowl *	
		Part #	Price/E	Part #	Price/E
1/4"	35	L26-02A	\$179.25	L26-02AMB	\$197.45
3/8"	60	L26-03A	179.25	L26-03AMB	197.45
1/2"	128	L26-04A	179.25	L26-04AMB	197.45

* metal bowl has sight gauge with brass petcock drain

See pages 218-220 for lubricator accessories. See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

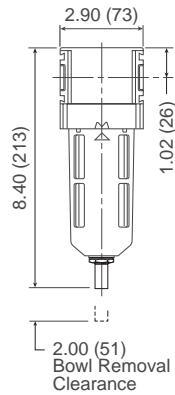
SCFM ratings at 150 PSIG inlet pressure.

Wilkerson EconOmist® Standard Lubricators

E



with metal bowl

**Features:**

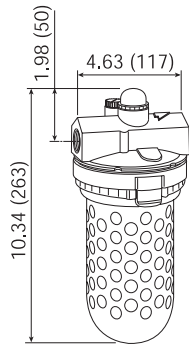
- 6.11 oz. bowl
- manual drain
- high flow capacity
- can be filled under pressure
- To adjust and set oil delivery rate the unit must be pressurized and air must be flowing through the unit. Turn the sight dome, located on the top of the unit, counter clockwise to initiate oil delivery. If flow increases or decreases, the oil delivery rate will increase or decrease proportionally. Turning the sight dome clockwise will stop all oil delivery.
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
3/8"	176	L28-03A	\$139.65	L28-03AMB	\$154.65
1/2"	184	L28-04A	139.65	L28-04AMB	154.65
3/4"	200	L28-06A	139.65	L28-06AMB	154.65

SCFM ratings at 150 PSIG inlet pressure.



with metal bowl

**Features:**

- 26 oz. bowl
- transparent bowl: no drain
- metal bowl: manual brass petcock drain
- can be filled under pressure
- The rate of oil delivery may be controlled by turning the adjusting screw counter clockwise for more and clockwise for less oil delivery. The oil delivery rate will change automatically to deliver more oil during higher air flows and less oil for air flows lower than the one at which the setting was made.
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
3/4"	196	L30-06A	\$275.45	L30-06AMB	\$329.75
1"	374	L30-08A	275.45	L30-08AMB	329.75

See pages 218-220 for lubricator accessories. See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 120 PSIG inlet pressure.

Wilkerson EconOmist® Standard Lubricators

Features:

- 26 oz. bowl
- transparent bowl: solid bottom
metal bowl: manual drain with sight glass
- full view sight dome
- adjustable oil feed
- can be filled under pressure
- quick-disconnect clamp ring for easy bowl removal
- The rate of oil delivery may be controlled by turning the adjusting screw counter clockwise for more and clockwise for less oil delivery. The oil delivery rate will change automatically to deliver more oil during higher air flows and less oil for air flows lower than the one at which the setting was made.
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (14 bar) and **32°F to 150°F** (0°C to 65.5°C)

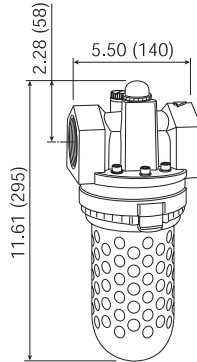


illustration represents L40 series



transparent bowl with guard

E

Size	SCFM	With Transparent Bowl		With Metal Bowl	
		Part #	Price/E	Part #	Price/E
1¼"	927	L40-0AA	\$623.30	L40-0AAMB	\$677.55
1½"	927	L40-0BA	623.30	L40-0BAMB	677.55
2"	1186	L50-0CA	845.25	L50-0CAMB	899.60

See pages 218-220 for lubricator accessories. See page 136 for air tool lubricant.

SCFM ratings at 120 PSIG inlet pressure.

Wilkerson Compact Combination Units

Features:

- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 175°F** (0°C to 80°C)

Filter series F16:

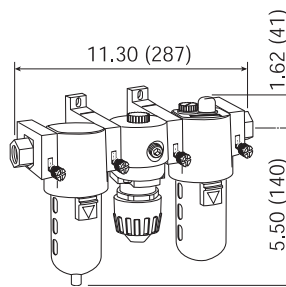
- 5 micron element
- 5 oz. bowl

Regulator series R16:

- 0-125 PSI adjusting range
- self-relieving
- supplied with a GC230 gauge

Lubricator series L16:

- 5 oz. bowl
- adjustable oil feed
- full view sight dome
- Included components:**
 - (2) modular sleeves
 - (2) mounting brackets (sleeve and bracket)
 - (2) end blocks



with metal bowl

Size	SCFM	With Transparent Bowl and Guard				Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	36.1	C16-02A	\$612.85	C16-02M	\$556.05	C16-02AMB	\$645.90	C16-02MMB	\$589.10
3/8"	58.5	C16-03A	612.85	C16-03M	556.05	C16-03AMB	645.90	C16-03MMB	589.10
1/2"	64.0	C16-04A	612.85	C16-04M	556.05	C16-04AMB	645.90	C16-04MMB	589.10



FRL's are designed for air service only, unless otherwise indicated.

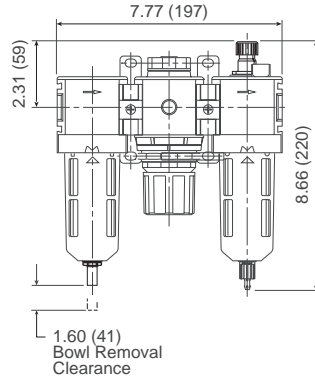
SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Compact Combination Units

E



with metal bowl



Features:

- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

Filter series F18:

- 5 micron element
- 4 oz. bowl

Regulator series R18:

- 0-125 PSI adjusting range
- self-relieving
- supplied with a GC230 gauge

Lubricator series L18:

- 4.09 oz. bowl
- adjustable oil feed
- full view sight dome

Included components:

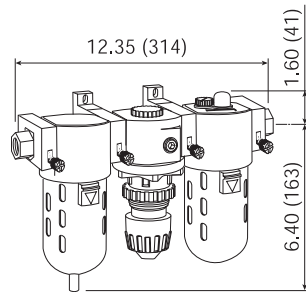
- (2) end blocks
- (2) mounting brackets with joiner set and port O-ring

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	110	C18-02A	\$529.85	C18-02M	\$473.65	C18-02AMB	\$554.85	C18-02MMB	\$502.20
3/8"	160	C18-03A	529.85	C18-03M	473.65	C18-03AMB	554.85	C18-03MMB	502.20
1/2"	160	C18-04A	529.85	C18-04M	473.65	C18-04AMB	554.85	C18-04MMB	502.20

Wilkerson Standard Combination Units



with metal bowl



Features:

- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 175°F** (0°C to 80°C)

Filter series F26:

- 5 micron element
- 10 oz. bowl

Regulator series R26:

- 0-125 PSI adjusting range
- self-relieving
- supplied with a GC230 gauge

Lubricator series L26:

- 10 oz. bowl
- adjustable oil feed
- full view sight dome

Included components:

- (2) modular sleeves
- (2) mounting brackets (sleeve and bracket)
- (2) end blocks

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	35	C26-02A	\$740.00	C26-02M	\$683.20	C26-02AMB	\$776.40	C26-02MMB	\$719.60
3/8"	60	C26-03A	740.00	C26-03M	683.20	C26-03AMB	776.40	C26-03MMB	719.60
1/2"	128	C26-04A	740.00	C26-04M	683.20	C26-04AMB	776.40	C26-04MMB	719.60



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Standard Combination Units

Features:

- modern design and appearance
- quick disconnect bowl / bowl guard
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 150°F** (0°C to 65.5°C)
metal bowl: **250 PSIG** (17.2 bar) and **32°F to 150°F** (0°C to 65.5°C)

Filter series F28:

- 5 micron element
- 6 oz. bowl

Regulator series R28:

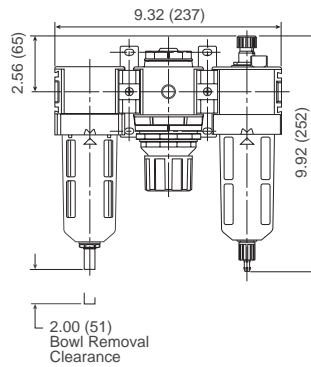
- 0-125 PSI adjusting range
- self-relieving
- supplied with a GC230 gauge

Lubricator series L28:

- 6.11 oz. bowl
- adjustable oil feed
- full view sight dome

Included components:

- (2) end blocks
- (2) mounting brackets with joiner set and port O-ring



with metal bowl

E

Size	SCFM	With Transparent Bowl and Guard				With Metal Bowl			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/8"	150	C28-03A	\$630.80	C28-03M	\$574.85	C28-03AMB	\$657.45	C28-03MMB	\$604.80
1/2"	175	C28-04A	630.80	C28-04M	574.85	C28-04AMB	657.45	C28-04MMB	604.80
3/4"	175	C28-06A	630.80	C28-06M	574.85	C28-06AMB	657.45	C28-06MMB	604.80

SCFM ratings at 150 PSIG inlet pressure.

Wilkerson Jumbo Combination Units

Features:

- high flow capacity
- large bowl reservoir
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 175°F** (0°C to 80°C)

Filter series F30:

- 5 micron element
- 1 qt. bowl

Regulator series R30:

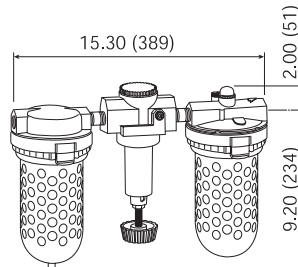
- 0-125 PSI adjusting range
- self-relieving
- supplied with a GC230 gauge

Lubricator series L30:

- 26 oz. bowl
- adjustable oil feed
- full view sight dome

Included components:

- (2) brass hex nipples



with metal bowl

Size	SCFM	With Transparent Bowl and Guard				Metal Bowl with Sight Glass			
		Automatic Drain		Manual Drain		Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4"	374	C31-06A	\$932.55	C31-06M	\$875.75	C31-06AMB	\$1041.15	C31-06MMB	\$984.35
1"	374	C31-08A	924.85	C31-08M	868.05	C31-08AMB	1033.45	C31-08MMB	976.65



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 120 PSIG inlet pressure.

Wilkerson Combination Unit with Protective Frame



Application:

Provides downstream air preparation with protection and convenience.

Features:

Includes components:

- C31-08AMB 1" FRL with metal bowls and auto drain filter
- BBLV100 1" brass ball valve and AM12 air king on inlet port
- BBV100DTW 2-way ball valve installed between regulator and lubricator provides option for non-lubricated air
- heavy duty frame protects air prep components
- operating conditions:
maximum pressure: **250 PSIG**
temperature range: **40°F to 150°F**
SCFM: 320

FRL with protective frame

Size	Part #	Price/E
1"	C31-08FRAME	\$1910.00

E



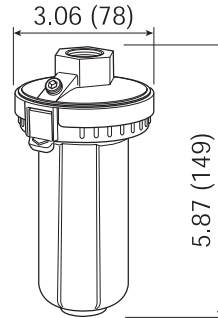
FRL's are designed for air service only, unless otherwise indicated.

Wilkerson Automatic Drain

As liquid contaminants collect in the bowl, they raise a closed-cell cellular float. When the liquid level reaches a given point, the float triggers a mechanism which pilots line pressure against a large area piston or diaphragm which snaps open the drain valve. The contaminants are discharged from the drain orifice at line pressure. As the liquid level falls, the pilot valve closes, line pressure against the piston/diaphragm returns to atmosphere and the drain valve snaps closed. A 1/8" NPT drain discharge orifice allows the liquid discharge to be piped to a container or sewer.

Features:

- 5 oz. bowl
- fully automatic, float operated
- full 1/2" NPT drain inlet
- quick-disconnect clamp ring for easy bowl removal when servicing
- no electrical connections
- easily installed
- maximum operating conditions:
transparent bowl: **150 PSIG** (10.3 bar) and **32°F to 125°F** (0°C to 52°C)
metal bowl: **200 PSIG** (13.8 bar) and **32°F to 150°F** (0°C to 65.5°C)



with metal bowl

Size	With Transparent Bowl		With Metal Bowl	
	Part #	Price/E	Part #	Price/E
1/2"	X02-04	\$134.35	X02-04MB	\$148.20

Wilkerson Automatic Drain Valve

Automatically drains liquid water and oil from compressed air receivers and systems. Drain valve automatically opens and closes every time the system pressure drops approximately 10 to 20 PSIG (0.7 to 1.4 bar) during the compressor cycle. An internal piston design, which utilizes no floats, minimizes the risks associated with drain failures.

Features:

- for up to 100 HP compressors
- maximum pressure: **200 PSIG** (13.5 bar)
- temperature range: **32°F to 150°F** (0°C to 65.5°C)
- minimum differential pressure required: 20 PSIG (1.4 bar)
- inlet/outlet ports: 1/4" NPT (F)
- screen adapter: 3/8" NPT (M) inlet, 1/4" NPT (M) outlet



Size	Part #	Price/E
1/4"	X51-02	\$137.70



FRL's are designed for air service only, unless otherwise indicated.

Wilkerson Filter Accessories

Elements



FRP-95-115

Used On	Description	Part #	Price/E
F00	5 micron element	FRP-95-235	\$11.45
F03	5 micron element	PS403	32.85
F08	5 micron element	FRP-96-729	12.55
F16	5 micron element	FRP-95-160	30.00
F18	5 micron element	FRP-96-639	20.15
F26	5 micron element	FRP-95-115	30.00
F28	5 micron element	FRP-96-653	23.95
F30	5 micron element	FRP-95-209	59.35
F35	5 micron element	FRP-95-505	127.50
F42	5 micron element	FRP-95-566	147.10



MTP-95-548

Used On	Description	Part #	Price/E
M16, M26, M30	type B element (0.5 micron)	MSP-95-989	\$55.10
M16	type C element (0.01 micron)	MTP-95-548	105.75
M26	type C element (0.01 micron)	MTP-95-549	111.90
M30	type C element (0.01 micron)	MTP-95-551	243.10
M35	type C element (0.01 micron)	MTP-95-502	516.00



DRP-85-059

Gel Refills

Used On	Description	Part #	Price/E
X03	8 bags of silica gel refill	DRP-85-059	\$395.05

Bowls and Bowl Guards



FRP-95-015

Used On	Description	Part #	Price/E
F00	plastic bowl with check valve drain	GRP-96-310	\$49.40
F03	plastic bowl with piston drain	PS408B	72.70
	metal bowl with manual drain	PS447B	40.50
F08	plastic bowl with guard and manual drain	GRP-96-712	25.45
	metal bowl with manual drain	GRP-96-714	43.00
F16, M16	plastic bowl and metal bowl guard with flex tip drain	FRP-95-014	80.95
	plastic bowl and metal bowl guard with auto drain	FRP-95-015	131.55
	metal bowl with sight glass and manual drain	GRP-95-133	127.85
	metal bowl with auto drain	FRP-95-950	157.35
F18	plastic bowl, bowl guard, manual drain	GRP-96-634	70.20
	plastic bowl, bowl guard, auto drain	GRP-96-635	117.85
	metal bowl with sight glass, manual drain	GRP-96-636	80.70
	metal bowl with sight glass, auto float drain	GRP-96-637	123.90
F26, M26	plastic bowl and metal bowl guard with flex tip drain	GRP-95-935	96.00
	plastic bowl and metal bowl guard with auto drain	GRP-95-948	162.00
	metal bowl with sight glass and manual drain	GRP-95-931	134.45
	metal bowl with auto drain	GRP-95-960	179.30
F28	plastic bowl with guard, auto drain	GRP-96-643	149.30
	plastic bowl, bowl guard, manual drain	GRP-96-642	77.60
	metal bowl, with sight glass, manual drain	GRP-96-644	76.10
	metal bowl with sight glass, auto float drain	GRP-96-645	147.20
F30, M30	plastic bowl and metal bowl guard with manual drain	FRP-95-832	121.25
	plastic bowl and metal bowl guard with auto drain	FRP-95-775	213.80
	plastic bowl with flex tip drain	FRP-96-315	71.45
	metal bowl with sight glass and manual drain	GRP-95-676	320.65
	metal bowl with auto drain	GRP-95-970	231.65

Wilkerson Filter Accessories

Auto and Manual Drains

Used On	Description	Part #	Price/E
F00	manual drain	GRP-96-102	\$25.45
F08	automatic drain	GRP-96-716	14.00
F16, F18, F26, F28, F30, F35, M16, M26, M30, M32, M35	automatic drain with flouorocarbon seal	GRP-95-981	76.30
F16, F18, F26, F28, F30, M16, M26, M30	automatic float drain with a nitrile seal	GRP-95-973	68.90
F16, F18, F26, F28, F30, F35, M16, M26, M30, M35	manual override drain	GRP-96-001	46.05
F16, F26, F30, M16, M26, M30	manual pet cock drain for use with metal bowl units	GRP-95-182	28.40
F16, F26, F30, M16, M26, M30	manual flex tip drain	FRP-95-610	10.40
F18, F28	manual drain	GRP-96-685	16.80



GRP-96-001

E

Sight Glass

Used On	Description	Part #	Price/E
M16, M26	sight glass kit for metal bowls	GRP-95-079	\$15.30



GRP-95-079

Mounting Brackets and Joiner Sets

Used On	Description	Part #	Price/E
F03	mounting bracket	PS417B	\$19.15
F08	mounting bracket (type T) with joiner set and port O-ring	GPA-96-737	14.00
	mounting bracket (type C)	GPA-97-010	11.85
	joiner set and port O-ring	GPA-96-738	8.50
F16, M16	mounting bracket (type L)	GPA-95-016	34.90
F18	mounting bracket (type C)	GPA-96-604	23.95
	mounting bracket (type L)	GPA-96-606	15.70
F18, F28	mounting bracket (type T)	GPA-96-602	17.85
	mounting bracket (type T) with joiner set and port O-ring	GPA-96-603	39.05
	joiner set and port O-ring with nitrile O-ring	GPA-96-601	21.40
	joiner set with port O-ring with fluorocarbon O-rings	GPA-96-614	33.05
	bracket with joiner set and port O-ring	GPA-96-754	40.50
F26, M26	mounting bracket (type L)	GPA-95-946	41.80
F28	mounting bracket (type C)	GPA-96-605	28.20
	mounting bracket (type L)	GPA-96-607	20.80
F30	wall mount, U-bolt pipe clamp	GRP-95-734	23.55



GPA-96-737

Modular Sleeve with Wall Mounting Brackets

Application:

- Designed for mounting a single unit or combination of units directly to the wall.

Features:

- The sleeve and mounting bracket can be ordered assembled from the factory, or just the mounting bracket alone to be used on existing modular sleeves.

Used On	Description	Part #	Price/E
F16, F26	bracket	GPA-95-968	\$14.40
	sleeve and bracket	GPA-95-969	32.45



GPA-95-969

Wilkerson Filter Accessories



GPA-95-292

- Application:**
- Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples.
- Features:**
- Hand tightening the threaded pin provides a tight seal between the units.

Used On	Description	Part #	Price/E
F16, F26	modular sleeve	GPA-95-292	\$17.00

End Blocks

- Application:**
- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.

- Features:**
- allows ease of unit servicing or replacement without disturbing the air line connections
 - set of 2 blocks (inlet and outlet)

Used On	Description	Part #	Price/E
F08	end block set, 1/4" NPT	GPA-97-019	\$35.80
	end block set, 3/8" NPT	GPA-97-020	35.80

Modular Blocks

Features:

Manifold Block

- allows easy design flexibility
- can be installed after the filter or regulator, providing three additional 1/4" NPT tapped auxiliary ports
- inlet/outlet ports are 1/2" non-tapped
- 1-17/32" width



GPA-95-919

End Block

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections



GPA-95-321

Used On	Description	Part #	Price/E
F16, M16, F26, M26	manifold block, three 1/4" NPT auxiliary ports	GPA-95-919	\$51.10
	end block, 1/4" NPT	GPA-95-223	30.75
	end block, 3/8" NPT	GPA-95-224	30.75
	end block, 1/2" NPT	GPA-95-225	30.75
	end block, 3/4" NPT	GPA-95-320	62.70
	end block, 1" NPT	GPA-95-321	62.70
F18, F28	end block, 1/4" NPT	GPA-96-610	27.80
	end block, 3/8" NPT	GPA-96-611	27.80
	end block, 1/2" NPT	GPA-96-612	27.80
	end block, 3/4" NPT	GPA-96-613	27.80
	end block, G1/4"	GPA-96-620	29.90
	end block, G3/8"	GPA-96-621	29.90
	end block, G1/2"	GPA-96-622	29.90
	end block, G3/4"	GPA-96-623	29.90



GPA-96-610

Modular Adapters

Application:

- When used with the modular sleeve, adapter inserts allow a single unit or a combination of units to be piped into the air system in the modular mode.

Features:

- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks



GPA-95-037

Used On	Description	Part #	Price/E
F16, M16, F26, M26	1/4" NPT pipe adapter	GPA-95-035	\$43.50
	3/8" NPT pipe adapter	GPA-95-036	43.50
	1/2" NPT pipe adapter	GPA-95-037	43.50

E

Wilkerson Filter Accessories

Modular Shut-Off Valves

Application:

- Useful for isolating and depressurizing a downstream unit requiring maintenance or replacement.

Features:

- can be installed immediately upstream of a single unit or combination of units
- secured to the unit with a modular sleeve or modular sleeve wall mounting bracket
- ball-type valve operates with a 1/4 turn from open to shut position
- can be locked in the open position
- left to right flow

Used On	Description	Part #	Price/E
F16, F26	1/4" NPT safety shut-off valve	GPA-95-096	\$135.85
	3/8" NPT safety shut-off valve	GPA-95-097	135.85
	1/2" NPT safety shut-off valve	GPA-95-098	135.85



GPA-95-098

E

Differential Pressure Indicators

Application:

- Used to replace damaged indicators on filters and modular coalescing filters.

Features:

- Pressure loss changes color of indicator window from green to red.

Used On	Description	Part #	Price/E
M16, M26, M30, M32	indicator	DP2-01-000	\$29.10
F35, M35	indicator	DP2-01-001	34.80



DP2-01-000

Wilkerson Regulator Accessories

Replacement Springs

Used On	Description	Part #	Price/E
R16	0-50 PSI spring	RRP-95-222	\$17.00
	0-125 PSI spring	RRP-95-224	17.00
R18	0-125 PSI spring	RRP-96-661	15.30
R26	0-60 PSI spring	RRP-95-962	15.70
	0-125 PSI spring	GRP-95-225	18.85
R28	0-125 PSI spring	RRP-96-165	19.35



RRP-95-222

Replacement Flush Mount Gauges

Application:

- for units originally purchased with a flush mounted gauge

Used On	Description	Part #	Price/E
R08	0-160 PSI	GRP-96-719	\$27.05



GRP-96-719

Tamper Resistant Kit

Used On	Description	Part #	Price/E
R00, R08	ring style tamper resistant kit	RPA-96-735	\$7.20
R16, R26	ring style tamper resistant kit	RPA-95-006	8.30
R18	ring style tamper resistant kit	RRP-96-671	7.65
R28	ring style tamper resistant kit	RRP-96-672	8.70



RPA-95-006

Wilkerson Regulator Accessories

Repair Kits



RRP-95-952

E

Used On	Description	Part #	Price/E
R16	self-relieving repair kit	RRP-95-131	\$56.20
R18	relieving diaphragm assembly	RRP-96-656	22.70
R26	self-relieving repair kit	RRP-95-952	37.75
R28	relieving diaphragm assembly	RRP-96-986	41.35
R30	valve assembly: valve, spring, bottom plug O-ring	RRP-95-159	46.05
R40	valve assembly: valve, spring, retaining ring O-ring	RRP-95-161	162.55

Mounting Brackets and Joiner Sets



GPA-96-737

Used On	Description	Part #	Price/E
R00, RB3	mounting bracket (type L) and nut	GRP-95-747	\$17.85
R03	mounting bracket	PS417B	19.15
R08	mounting bracket (type T) with joiner set	GPA-96-737	14.00
	mounting bracket (type C)	GPA-97-010	11.85
	mounting bracket (type L)	GRP-96-739	10.00
	joiner set with port O-ring	GPA-96-738	8.50
R16	mounting bracket (type L) and nut	GPA-95-011	22.90
R16, R21, R26, R30, R40	wall mount bracket with 1/4" NPT gauge port adapter	RRP-95-590	28.20
R26	mounting bracket (type C) and nut	RPA-95-947	18.85
R30	wall mount, U-bolt pipe clamp	GRP-95-734	23.55

Modular Sleeve with Wall Mounting Brackets

Application:

- Designed for mounting a single unit or combination of units directly to the wall.

Features:

- The sleeve and mounting bracket can be ordered assembled from the factory, or just the mounting bracket alone to be used on existing modular sleeves.



GPA-95-969

Used On	Description	Part #	Price/E
R16, R26	bracket	GPA-95-968	\$14.40
	sleeve and bracket	GPA-95-969	32.45

Modular Sleeve

Application:

- Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples.

Features:

- Hand tightening the threaded pin provides a tight seal between the units.



GPA-95-292

Used On	Description	Part #	Price/E
R16, R26	modular sleeve	GPA-95-292	\$17.00

End Blocks

Application:

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.

Features:

- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet and outlet)



GPA-97-019

Used On	Description	Part #	Price/E
R08	end block set, 1/4" NPT	GPA-97-019	\$35.80
	end block set, 3/8" NPT	GPA-97-020	35.80

Wilkerson Regulator Accessories

Features:

Manifold Block

- allows easy design flexibility
- can be installed after the filter or regulator, providing three additional 1/4" NPT tapped auxiliary ports
- inlet/outlet ports are 1/2" non-tapped
- 1-17/32" width

End Block

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet & outlet)

Modular Blocks

Used On	Description	Part #	Price/E
R16, R26	manifold block, three 1/4" NPT auxiliary ports	GPA-95-919	\$51.10
	end block, 1/4" NPT	GPA-95-223	30.75
	end block, 3/8" NPT	GPA-95-224	30.75
	end block, 1/2" NPT	GPA-95-225	30.75
	end block, 3/4" NPT	GPA-95-320	62.70
	end block, 1" NPT	GPA-95-321	62.70
R18, R28	end block, 1/4" NPT	GPA-96-610	27.80
	end block, 3/8" NPT	GPA-96-611	27.80
	end block, 1/2" NPT	GPA-96-612	27.80
	end block, 3/4" NPT	GPA-96-613	27.80
	end block, G1/4"	GPA-96-620	29.90
	end block, G3/8"	GPA-96-621	29.90
	end block, G1/2"	GPA-96-622	29.90
	end block, G3/4"	GPA-96-623	29.90



GPA-95-919



GPA-95-321



GPA-96-610

Modular Adapters

Application:

- When used with the modular sleeve, adapter inserts allow a single unit or a combination of units to be piped into the air system in the modular mode, and allows ease of unit servicing or replacement without disturbing the air line connections.

Features:

- set of 2 blocks

Used On	Description	Part #	Price/E
R16, R26	1/4" NPT pipe adapter	GPA-95-035	\$43.50
	3/8" NPT pipe adapter	GPA-95-036	43.50
	1/2" NPT pipe adapter	GPA-95-037	43.50



GPA-95-037

Modular Shut-Off Valves

Application:

- Useful for isolating and depressurizing a downstream unit requiring maintenance or replacement.

Features:

- can be installed immediately upstream of a single unit or combination of units
- secured to the unit with a modular sleeve or modular sleeve wall mounting bracket
- ball-type valve operates with a 1/4 turn from open to shut position
- can be locked in the open position
- left to right flow

Used On	Description	Part #	Price/E
R16, R26	1/4" NPT safety lock-out valve	GPA-95-096	\$135.85
	3/8" NPT safety lock-out valve	GPA-95-097	135.85
	1/2" NPT safety lock-out valve	GPA-95-098	135.85



GPA-95-098

see pages 254-259 for replacement gauges

Wilkerson Lubricator Accessories

Bowls and Bowl Guards

Used On	Description	Part #	Price/E
L03	metal bowl with manual drain	PS447B	\$40.50
	plastic bowl with no drain	PS421	36.90
L08	metal bowl with manual drain	GRP-96-714	43.00
	plastic bowl with guard and manual drain	LRP-96-736	30.10
L16	metal bowl with sight glass and manual drain	GRP-95-133	127.85
	plastic bowl, bowl guard, manual drain	GRP-95-019	96.05
	plastic bowl with no drain	LRP-96-937	39.90
L18	metal bowl with sight glass, manual drain	GRP-96-636	80.70
	plastic bowl, bowl guard, manual drain	LRP-96-701	70.25
L26	metal bowl with sight glass and manual drain	GRP-95-931	134.45
	plastic bowl with no drain	LRP-96-938	43.05
L28	metal bowl with sight glass, manual drain	GRP-96-644	76.10
	plastic bowl, bowl guard, manual drain	LRP-96-702	82.30
L30, L40	metal bowl with sight glass and manual drain	GRP-95-676	320.65
L30, L40, L50	plastic bowl with no drain	LRP-96-940	53.10



GRP-95-019

E

Drains

Used On	Description	Part #	Price/E
L16, L26, L30, L40, L50	manual pet cock drain for use with metal bowl units	GRP-95-182	\$28.40
L18, L28	manual drain	GRP-96-685	16.80



GRP-96-685

Sight Domes and Fill Plugs

Used On	Description	Part #	Price/E
L00, L08, L16, L26	sight dome kit: dome and O-ring	LRP-95-239	\$16.40
L08	fill plug kit: fill plug and O-ring	LRP-96-730	5.95
L08, L18, L28	sight dome kit (old style -08)	LRP-96-710	21.05
L16, L26	sight glass kit for metal bowls	GRP-95-079	15.30
L16, L26, L30	fill plug kit: fill plug and O-ring	LRP-95-253	10.65
L18, L28	sight dome assembly (new style)	LRP-96-310	16.10
L30, L40, L50	sight dome kit: dome and O-ring	LRP-95-249	22.10
L40, L50	fill plug kit: fill plug and O-ring	LRP-95-250	34.55



LRP-95-249

Mounting Brackets

Used On	Description	Part #	Price/E
L00	mounting bracket (type L)	GRP-95-754	\$15.30
L03	mounting bracket	PS419	19.15
L08	mounting bracket (type T) with joiner set and port O-ring	GPA-96-737	14.00
	mounting bracket (type C)	GPA-97-010	11.85
	joiner set and port O-ring	GPA-96-738	8.50
L16	mounting bracket (type L)	GPA-95-016	34.90
L18	mounting bracket (type C)	GPA-96-604	23.95
	mounting bracket (type L)	GPA-96-606	15.70
L18, L28	mounting bracket (type T)	GPA-96-602	17.85
	mounting bracket (type T) with joiner set and port O-ring	GPA-96-603	39.05
	joiner set with port O-ring	GPA-96-614	33.05
	bracket with joiner set and port O-ring	GPA-96-754	40.50
L26	mounting bracket (type L)	GPA-95-946	41.80
L28	mounting bracket (type C)	GPA-96-605	28.20
	mounting bracket (type L)	GPA-96-607	20.80
L30	wall mount, U-bolt pipe clamp	GRP-95-734	23.55



GPA-96-737

Wilkerson Lubricator Accessories

Modular Sleeve with Wall Mounting Brackets

Application:

- Designed for mounting a single unit or combination of units directly to the wall.

Features:

- The sleeve and mounting bracket can be ordered assembled from the factory, or just the mounting bracket alone to be used on existing modular sleeves.

Used On	Description	Part #	Price/E
L16, L26	bracket	GPA-95-968	\$14.40
	sleeve and bracket	GPA-95-969	32.45



GPA-95-969

Modular Sleeve

Application:

- Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples.

Features:

- Hand tightening the threaded pin provides a tight seal between the units.

Used On	Description	Part #	Price/E
L16, L26	modular sleeve	GPA-95-292	\$17.00



GPA-95-292

End Blocks

Application:

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.

Features:

- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet and outlet)

Used On	Description	Part #	Price/E
L08	end block set, 1/4" NPT	GPA-97-019	\$35.80
	end block set, 3/8" NPT	GPA-97-020	35.80



GPA-97-019

Modular Blocks

Features:
Manifold Block

- allows easy design flexibility
- can be installed after the filter or regulator, providing three additional 1/4" NPT tapped auxiliary ports
- inlet/outlet ports are 1/2" non-tapped
- 1-17/32" width

End Block

- When used with the modular sleeve, end blocks allow a single unit or a combination of units to be piped into the air system in the modular mode.
- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks (inlet and outlet)

Used On	Description	Part #	Price/E
L16, L26	manifold block, three 1/4" NPT auxiliary ports	GPA-95-919	\$51.10
	end block, 1/4" NPT	GPA-95-223	30.75
	end block, 3/8" NPT	GPA-95-224	30.75
	end block, 1/2" NPT	GPA-95-225	30.75
	end block, 3/4" NPT	GPA-95-320	62.70
	end block, 1" NPT	GPA-95-321	62.70
L18, L28	end block, 1/4" NPT	GPA-96-610	27.80
	end block, 3/8" NPT	GPA-96-611	27.80
	end block, 1/2" NPT	GPA-96-612	27.80
	end block, 3/4" NPT	GPA-96-613	27.80
	end block, G1/4"	GPA-96-620	29.90
	end block, G3/8"	GPA-96-621	29.90
	end block, G1/2"	GPA-96-622	29.90
	end block, G3/4"	GPA-96-623	29.90



GPA-95-919



GPA-95-321



GPA-96-610

Wilkerson Lubricator Accessories

Modular Adapters

Application:

- When used with the modular sleeve, adapter inserts allow a single unit or a combination of units to be piped into the air system in the modular mode.

Features:

- allows ease of unit servicing or replacement without disturbing the air line connections
- set of 2 blocks



GPA-95-037

E

Used On	Description	Part #	Price/E
L16, L26	1/4" NPT pipe adapter	GPA-95-035	\$43.50
	3/8" NPT pipe adapter	GPA-95-036	43.50
	1/2" NPT pipe adapter	GPA-95-037	43.50

Modular Shut-Off Valves

Application:

- Useful for isolating and depressurizing a downstream unit requiring maintenance or replacement.

Features:

- can be installed immediately upstream of a single unit or combination of units
- secured to the unit with a modular sleeve or modular sleeve wall mounting bracket
- ball-type valve operates with a 1/4 turn from open to shut position
- can be locked in the open position
- left to right flow



GPA-95-098

Used On	Description	Part #	Price/E
L16, L26	1/4" NPT safety lock-out valve	GPA-95-096	\$135.85
	3/8" NPT safety lock-out valve	GPA-95-097	135.85
	1/2" NPT safety lock-out valve	GPA-95-098	135.85

Wilkerson Filter/Regulator Accessories

Elements



FRP-96-729

Used On	Description	Part #	Price/E
B08	5 micron element	FRP-96-729	\$12.55
CB6	5 micron element	FRP-95-160	30.00
B18	5 micron element	FRP-96-639	20.15
B28	5 micron element	FRP-96-653	23.95

Bowls and Bowl Guards



GRP-96-636

Used On	Description	Part #	Price/E
B08	plastic bowl with guard and manual drain	GRP-96-712	\$25.45
	metal bowl with manual drain	GRP-96-714	43.00
CB6	plastic bowl and metal bowl guard with flex tip drain	FRP-95-014	80.95
	plastic bowl and metal bowl guard with auto drain	FRP-95-015	131.55
	metal bowl with auto drain	FRP-95-950	157.35
B18	plastic bowl, bowl guard, manual drain	GRP-96-634	70.20
	plastic bowl, bowl guard, auto drain	GRP-96-635	117.85
	metal bowl with sight glass, manual drain	GRP-96-636	80.70
	metal bowl with sight glass, auto float drain	GRP-96-637	123.90
B28	plastic bowl with guard, auto drain	GRP-96-643	149.30
	plastic bowl, bowl guard, manual drain	GRP-96-642	77.60
	metal bowl, with sight glass, manual drain	GRP-96-644	76.10
	metal bowl with sight glass, auto float drain	GRP-96-645	147.20

Wilkerson Filter/Regulator Accessories

Auto and Manual Drains

Used On	Description	Part #	Price/E
B08	automatic drain	GRP-96-716	\$14.00
CB6	manual pet cock drain for use with metal bowl units	GRP-95-182	28.40
	manual flex tip drain	FRP-95-610	10.40
CB6, B18, B28	automatic drain with flouracarbon seal	GRP-95-981	76.30
	automatic float drain with a nitrile seal	GRP-95-973	68.90
	manual override drain	GRP-96-001	46.05
B18, B28	manual drain	GRP-96-685	16.80



GRP-96-001

E

Accessories

Used On	Description	Part #	Price/E
CB6	sight glass kit for metal bowl	GRP-95-079	\$15.30

Replacement Springs

Used On	Description	Part #	Price/E
CB6	0-50 PSI spring	RRP-95-222	\$17.00
	0-125 PSI spring	RRP-95-224	17.00
B18	0-125 PSI spring	RRP-96-661	15.30
B28	0-125 PSI spring	RRP-96-165	19.35



RRP-95-222

Tamper Resistant Kits

Used On	Description	Part #	Price/E
B08	ring style tamper resistant kit	RPA-96-735	\$7.20
B18	ring style tamper resistant kit	RRP-96-671	7.65
B28	ring style tamper resistant kit	RRP-96-672	8.70

Repair Kits

Used On	Description	Part #	Price/E
B18	diaphragm assembly, relieving	RRP-96-656	\$22.70
B28	diaphragm assembly, relieving	RRP-96-986	41.35

Mounting Brackets and Joiner Sets

Used On	Description	Part #	Price/E
R08	mounting bracket (type T) with joiner set	GPA-96-737	\$14.00
	mounting bracket (type C)	GPA-97-010	11.85
	mounting bracket (type L)	GRP-96-739	10.00
	joiner set with port O-ring	GPA-96-738	8.50
CB6	mounting bracket (type L) and nut	GPA-95-011	22.90
	bracket, wall mount, gauge port adapter with 1/4" NPT	RRP-95-590	28.20
B18	mounting bracket (type C)	GPA-96-604	23.95
	mounting bracket (type L)	GPA-96-606	15.70
B18, B28	mounting bracket (type T)	GPA-96-602	17.85
	mounting bracket (type T) with joiner set	GPA-96-603	39.05
	joiner set with port O-ring	GPA-96-614	33.05
	bracket with joiner set and port O-ring	GPA-96-754	40.50
	joiner set	GPA-96-601	21.40
B28	mounting bracket (type C)	GPA-96-605	28.20
	mounting bracket (type L)	GPA-96-607	20.80



GPA-96-737

Wilkerson FRL Display

Increase your sales with this heavy duty, point-of-purchase Dixon FRL Display, designed to highlight the features and benefits of a modular Filter-Regulator-Lubricator Combination Unit for air line services. The display is perfect for your "Will Call" or showroom sales area.



Features:

- FRL combination unit with standard metal bowl with sight glass
- manual drain
- modular mounting clamps
- pipe adapters
- display stand

Note: assembly is required.

Part #	Price/E
WILK26DISPLAY	\$840.75

Series 1 FRL Display

Increase your sales with this heavy duty, point-of-purchase Dixon FRL Display, designed to highlight the features and benefits of a modular Filter-Regulator-Lubricator Combination Unit for air line services. The display is perfect for your "Will Call" or showroom sales area.



Features:

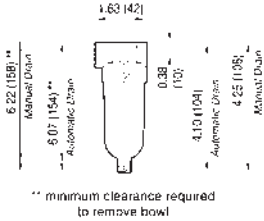
- 74 Series basic combination unit with metal bowl with sight glass
- manual drain
- modular mounting clamps
- pipe adapters
- display stand

Note: assembly is required.

Part #	Price/E
NORG74DISPLAY	\$822.35

Series 1 Carded Miniature FRL's

Dixon offers the Series I line of miniature filters, filter/regulators, regulators and lubricators in prepackaged clear plastic units suitable for hanging on store peg racks or displays. The primary features of each unit are printed on the packaging. Each package contains 1 miniature filter, filter/regulator, regulator or lubricator and instruction sheet.



Features:

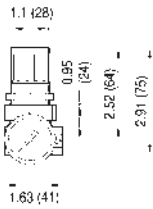
- 5 micron element
- 1 oz. reservoir
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)

Carded Miniature Filter with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	24	F07-200AC	\$67.65	F07-200MC	\$58.25



E

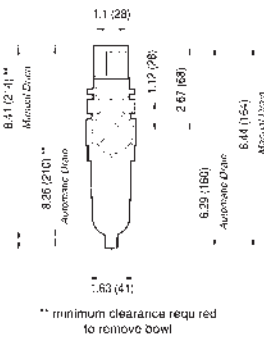


Features:

- 5-100 PSI range
- relieving type
- inlet pressure **250 PSI** at ambient temperature
- (70°F) maximum
- supplied with a GC620 gauge

Carded Miniature Regulator

Port Size	SCFM	with Gauge	
		Part #	Price/E
1/4"	15	R07-200RGC	\$67.30

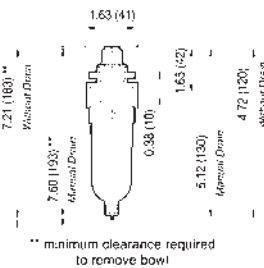


Features:

- 5-100 PSI range
- relieving type
- 5 micron element
- 1 oz. reservoir
- push to lock adjusting knob
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)
- supplied with a GC620 gauge
- bowl guard not available

Carded Miniature Filter/Regulator with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	14	B07-202AGC	\$134.20	B07-202MGC	\$122.10




Features:

- 1 oz. reservoir
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)

Carded Miniature Lubricator

Port Size	SCFM	Transparent Bowl	
		Part #	Price/E
1/4"	14	L07-200AC	\$84.60



 *FRL's are designed for air service only, unless otherwise indicated.*

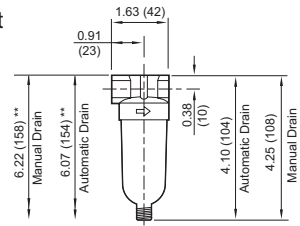
SCFM ratings at 100 PSIG inlet pressure for regulators, 90 PSIG all others.

Series 1 Miniature FRL's

- 5 micron element
- 1 oz. reservoir
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)

Miniature Filter with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/8"	19	F07-100A	\$64.70	F07-100M	\$55.45
1/4"	24	F07-200A	64.70	F07-200M	55.45

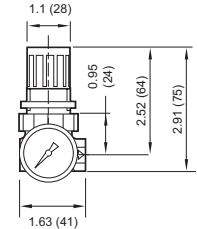


** minimum clearance to remove bowl

- 5-100 PSI range
- relieving type
- inlet pressure **300 PSI** max. at ambient temperature (70°F)
- regulation at flows up to 22 SCFM at 100 PSIG
- RG models supplied with a GC620 gauge
- panel nut not included

Miniature Regulators

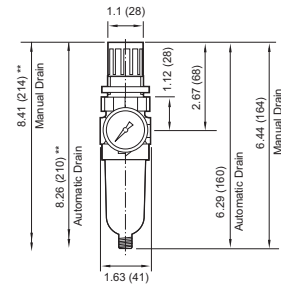
Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
1/8"	14	R07-100RG	\$59.90	R07-100R	\$43.20
1/4"	15	R07-200RG	59.90	R07-200R	43.20



- 5-100 PSI range
- relieving type
- 5 micron element
- 1 oz. reservoir
- push to lock adjusting knob
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)
- supplied with a GC620 gauge
- bowl guard not available

Miniature Filter/Regulator with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/8"	13	B07-102AG	\$119.30	B07-102MG	\$108.90
1/4"	24	B07-202AG	119.30	B07-202MG	108.90

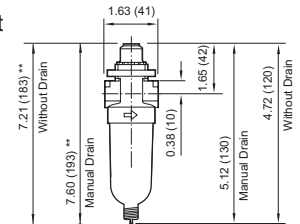


** minimum clearance to remove bowl

- 1 oz. reservoir
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)

Miniature Lubricators

Port Size	SCFM	Transparent Bowl	
		Part #	Price/E
1/8"	10	L07-100A	\$84.60
1/4"	14	L07-200A	84.60

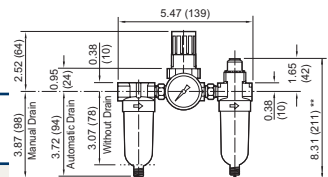


** minimum clearance to remove bowl

- 5-125 PSI range
- 1 oz. reservoir
- supplied with a GC620 gauge
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)

Miniature Combination Unit with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/8"	10	P1A-100A	\$253.55	P1A-100M	\$244.30
1/4"	14	P1A-200A	254.70	P1A-200M	245.45



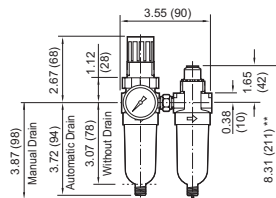
** minimum clearance to remove bowl

Series 1 Micro Mate Combination Units

- 5-125 PSI range
- requires only 2 pipe connections
- inlet pressure 150 PSI maximum at ambient temperature (70°F)

Miniature Filter/Regulator/Lubricator with Transparent Bowl

Port Size	SCFM	Automatic Drain	
		Part #	Price/E
1/8"	10	PTH-100AG	\$224.30
1/4"	14	PTH-200AG	235.55



** minimum clearance to remove bowl

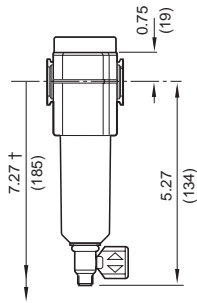


FRL's are designed for air service only, unless otherwise indicated.

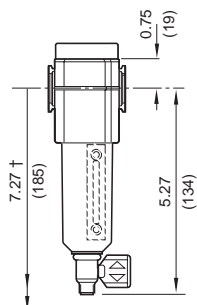
SCFM ratings at 100 PSIG inlet pressure for regulators, 90 PSIG all others.

E

Series 1 Airline Filters



† Minimum clearance to remove bowl



† Minimum clearance to remove bowl

Features:

- 40 micron element
- 2 oz. reservoir
- quick-release bayonet bowl
- prismatic lens liquid level indicator
- particle removal per ISO 8573-1, Class 5 and Class 3
- inlet pressure:
 - transparent bowl: **150 PSI** at ambient temperature (70°F)
 - metal bowl: **250 PSI** at ambient temperature (70°F)

Sub-Compact with Transparent Bowl

Port Size	SCFM	Semi-Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	55	F72G-2A	\$127.15	F72G-2M	\$70.75
3/8"	55	F72G-3A	130.50	F72G-3M	74.20

Sub-Compact with Metal Bowl and Sight Glass

Port Size	SCFM	Semi-Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	55	F72G-2A-MB	\$142.60	F72G-2M-MB	\$86.10
3/8"	55	F72G-3A-MB	145.95	F72G-3M-MB	89.50

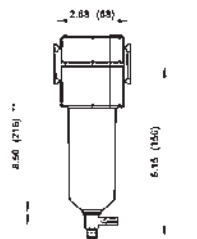


with transparent bowl

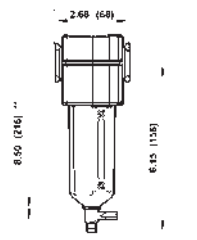


with metal bowl

E



** Minimum clearance required to remove bowl.



1/4 Turn Manual Drain

** Minimum clearance required to remove bowl

Features:

- 40 micron element
- 4 oz. reservoir
- quick-release bayonet bowl
- prismatic lens liquid level indicator
- particle removal per ISO 8573-1, Class 5 and Class 3
- inlet pressure:
 - transparent bowl: **150 PSI** at ambient temperature (70°F)
 - metal bowl: **250 PSI** at ambient temperature (70°F)

Compact with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	53	F73G-2A	\$178.70	F73G-2M	\$109.15
3/8"	65	F73G-3A	178.70	F73G-3M	109.15
1/2"	69	F73G-4A	178.70	F73G-4M	109.15

Compact with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	53	F73G-2A-MB	\$187.45	F73G-2M-MB	\$118.00
3/8"	65	F73G-3A-MB	187.45	F73G-3M-MB	118.00
1/2"	69	F73G-4A-MB	187.45	F73G-4M-MB	118.00



with transparent bowl



with metal bowl

See pages 240-242 for filter accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

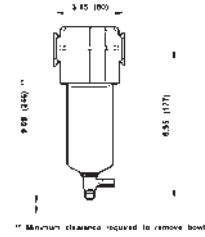
Series 1 Airline Filters



with transparent bowl

Features:

- 40 micron element
- 7 oz. reservoir
- quick-release bayonet bowl
- prismatic lens liquid level indicator
- particle removal per ISO 8573-1, Class 5 and Class 3
- inlet pressure: transparent bowl: **150 PSI** at ambient temperature (70°F)
metal bowl: **250 PSI** at ambient temperature (70°F)

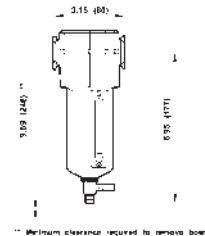


Standard with Transparent Bowl and Guard

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/8"	112	F74G-3A	\$226.65	F74G-3M	\$157.10
1/2"	140	F74G-4A	226.65	F74G-4M	157.10
3/4"	140	F74G-6A	226.65	F74G-6M	157.10

Standard with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/8"	112	F74G-3A-MB	\$231.05	F74G-3M-MB	\$161.80
1/2"	140	F74G-4A-MB	231.05	F74G-4M-MB	161.80
3/4"	140	F74G-6A-MB	231.05	F74G-6M-MB	161.80



with metal bowl



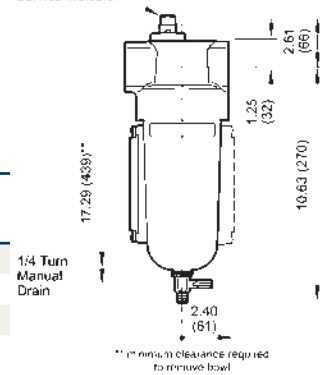
Features:

- 40 micron element
- 1 qt. reservoir
- general purpose with low pressure drop and excellent water removal characteristics
- inlet pressure: **250 PSI** at ambient temperature (70°F)

Optional Service Indicator

Jumbo with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/4"	325	F17-600A	\$413.10	F17-600M	\$342.95
1"	425	F17-800A	413.10	F17-800M	342.95
1 1/4"	425	F17-A00A	472.05	F17-A00M	401.60
1 1/2"	425	F17-B00A	472.05	F17-B00M	401.60

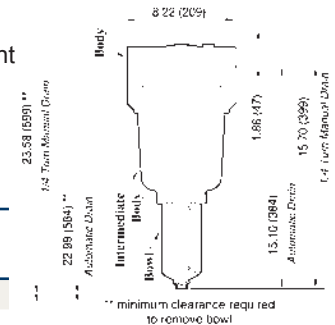


Features:

- 40 micron element
- quick-release bayonet bowl
- prismatic lens liquid level indicator
- 7 oz. reservoir
- inlet pressure: **250 PSI** at ambient temperature (70°F)

Jumbo with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
2"	1400	F18-C00A	\$1429.45	F18-C00M	\$1357.35



See pages 240-242 for filter accessories.



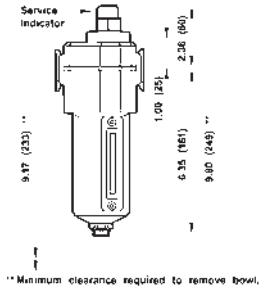
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Oil Removal (Coalescing) Filters

Features:

- in-line or modular installation
- quick-release bayonet bowl
- prismatic lens liquid level indicator
- provides air quality class 2 hydrocarbon and class 1 particulate removal per ISO 8573-1
- element removes particles down to 0.01mm. Maximum remaining oil content of air leaving the filter is 0.01 ppm at 70°F (21°C) with an inlet concentration of 8 ppm
- service life indicator turns from green to red when element needs to be replaced
- For maximum service life install a general purpose filter upstream of the oil removal filter.
- inlet pressure: **250 PSI** at ambient temperature (70°F)



E

Standard Standard Flow with Metal Bowl

Port Size	SCFM Saturated	SCFM Dry	Automatic Drain	
			Part #	Price/E
3/8"	35	70	F74C-3A-MB	\$370.40
1/2"	35	75	F74C-4A-MB	370.40

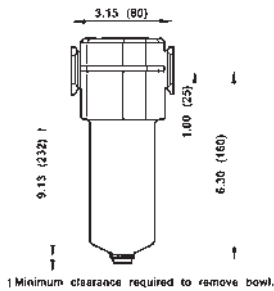
Standard High Flow with Metal Bowl

Port Size	SCFM Saturated	SCFM Dry	Automatic Drain	
			Part #	Price/E
1/2"	60	100	F74H-4A-MB	\$423.55
3/4"	60	120	F74H-6A-MB	423.55

Series 1 Oil Vapor Removal Filters

Features:

- in-line or modular installation
- quick-release bayonet bowl
- Activated carbon cartridge filter element absorbs oil vapors and removes most hydrocarbon odors.
- provides air quality class 1 particulate removal per ISO 8573-1, when used with the F74C series
- Filter and element designs optimizes air velocity and contact time to reduce oil content of air leaving the filter to 0.003 ppm at 70°F (21°C).
- Minimum service life of 400 hours can be expected if the vapor removal filter is protected upstream by an oil removal (coalescing) filter and if the filtration temperature is in the region of 70° to 80°F (21° to 26°C). Above this range, oil vapor content of compressed air increases substantially and element service life is reduced.
- Carbon cartridge element provides long service life.
- For maximum service life install a general purpose filter and an oil removal filter upstream of the oil vapor removal filter.
- inlet pressure: **250 PSI** at ambient temperature (70°F)



Standard with Metal Bowl

Port Size	SCFM	Automatic Drain	
		Part #	Price/E
3/8"	21	F74V-3A-MB	\$349.55
1/2"	21	F74V-4A-MB	349.55
3/4"	21	F74V-6A-MB	349.55

See pages 240-242 for filter accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

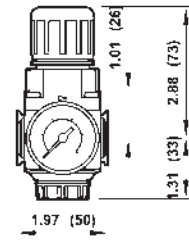
Series 1 Regulators

Features:

- 5-150 PSI range
- inlet pressure: **300 PSI** at ambient temperature (70°F)
- in-line or modular installation
- two full flow 1/8" NPT gauge ports
- RG models supplied with GC620 gauge
- For 0-60 PSI range, add an L to the end of the part number.

Sub-Compact

Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	70	R72G-2RG	\$78.60	R72G-2R	\$61.90
3/8"	70	R72G-3RG	82.35	R72G-3R	65.65



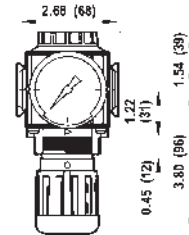
E

Features:

- 5-150 PSI range
- inlet pressure: **300 PSI** at ambient temperature (70°F)
- in-line or modular installation
- relieving type
- two full flow 1/4" NPT gauge ports
- RG models supplied with GC230 gauge
- For 0-60 PSI range, add an L to the end of the part number.

Compact

Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	91	R73G-2RG	\$108.60	R73G-2R	\$87.90
3/8"	144	R73G-3RG	108.60	R73G-3R	87.90
1/2"	144	R73G-4RG	108.60	R73G-4R	87.90

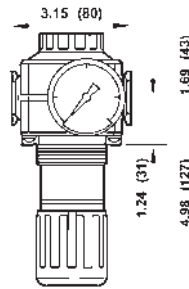


Features:

- 5-150 PSI range
- inlet pressure: **300 PSI** at ambient temperature (70°F)
- in-line or modular installation
- relieving type
- two full flow 1/4" NPT gauge ports
- RG models supplied with GC230 gauge
- For 0-60 PSI range, add an L to the end of the part number.

Standard

Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
3/8"	208	R74G-3RG	\$157.95	R74G-3R	\$137.25
1/2"	220	R74G-4RG	157.95	R74G-4R	137.25
3/4"	220	R74G-6RG	157.95	R74G-6R	137.25

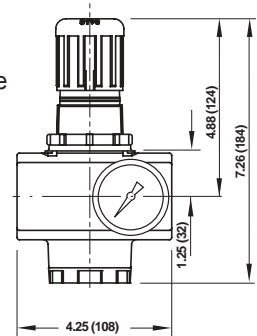


Features:

- 5-125 PSI range
- inlet pressure: **300 PSI** at ambient temperature (70°F)
- in-line or modular installation
- relieving type
- two full flow 1/4" NPT gauge ports
- RG models supplied with GC230 gauge

Jumbo

Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
3/4"	440	R17-600RG	\$282.60	R17-600R	\$261.90
1"	480	R17-800RG	282.60	R17-800R	261.90
1 1/4"	400	R17-A00RG	341.40	R17-A00R	320.70
1 1/2"	440	R17-B00RG	341.40	R17-B00R	320.70

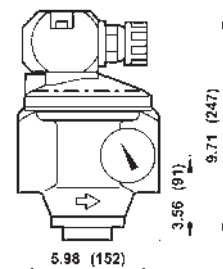


Features:

- 5-125 PSI range
- inlet pressure: **450 PSI** at ambient temperature (70°F)
- relieving type
- two full flow 1/4" NPT gauge ports
- RG model supplied with GC230 gauge

Jumbo

Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
2"	2000	R18-C05RG	\$1688.35	R18-C05R	\$1667.65



See pages 242-243 for regulator accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure, 2" unit at 100 PSIG.

Miniature Non-Repairable General Purpose Regulators

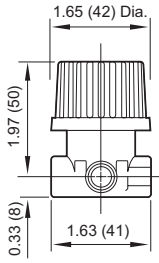
Features:

- 5-125 PSI range
- lightweight construction
- left to right flow
- wrench flats for easy installation
- relieving piston design allows reduction of downstream pressure when the system is dead-ended
- RG model supplied with a GC620 gauge

Compact

Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	13	R46-200RG	\$62.05	R46-200R	\$45.35

SCFM ratings at 100 PSIG.



E

Series 1 General Regulators

Floating valve pin provides positive seating and dependability. Large diaphragm provides quick response to flow demands and line pressure changes. Balanced valve reduces inlet pressure variations on outlet pressure.

Features:

- 5-125 PSI range
- inlet pressure: **400 PSI** at ambient temperature (70°F)
- T-handle adjustment
- supplied with GC620 gauge

Port Size	SCFM	with Gauge	
		Part #	Price/E
1/4"	110	R11-013RG	313.30
3/8"	110	R11-037RG	313.30
1/2"	260	R11-061RG	365.75

SCFM ratings at 150 PSIG.



Series 1 Manifold Regulators

Manifold up to six regulators on a single air supply. Design allows in-line installation with hex nipple or modular installation with 72 Series accessories (see pages 242-243).

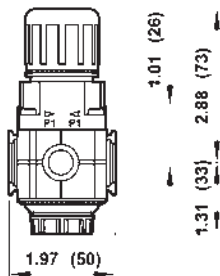
Features:

- 5-150 PSI range
- inlet pressure: **300 PSI** at ambient temperature (70°F)
- RG models supplied with GC620 gauge

Sub-Compact

Port Size	SCFM	with Gauge		without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	83	R72M-2RG	\$146.25	R72M-2R	\$129.55
3/8"	83	R72M-3RG	149.85	R72M-3R	133.15

SCFM ratings at 150 PSIG.



Series 1 Cylinder Gas Regulator



UL listed for service with Carbon Dioxide, water, pumped air, Nitrogen, Argon, Helium, Krypton, Neon and Xenon. *Not to be used with flammable gases.*

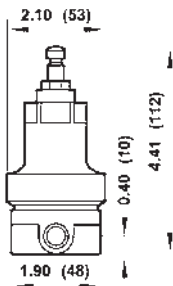
Features:

- 5-125 PSI range
- inlet pressure: **3000 PSI** at ambient temperature (70°F)
- relieving type
- two ports for high pressure and two ports for service

Port Size	SCFM	without Gauge	
		Part #	Price/E
1/4"	10	R83-200R	\$141.20

See pages 242-243 for regulator accessories.

SCFM ratings at 1000 PSIG inlet pressure.



FRL's are designed for air service only, unless otherwise indicated.

Series 1 Miniature Water Regulator

Application:

Designed for use with deionized water and potable water systems. Plastic and metals in contact with fluid are approved by the National Sanitation Foundation (NSF) or meet Food and Drug Administration (FDA) recommendations for use in potable water systems.

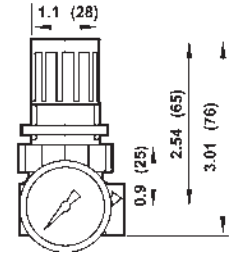
Features:

- inlet pressure: **150 PSI** at ambient temperature (70°F)
- non-relieving type
- supplied with GC620 gauge
- elastomers are food grade



Port Size	GPM	with Gauge	
		Part #	Price/E
1/4"	1.75	R91-221RG	\$83.15

SCFM ratings at 100 PSIG.



Series 1 Water Regulators

Application:

Used in water systems to reduce and maintain pressure at a nearly constant level despite changes in the inlet pressure and changes in downstream flow requirements.

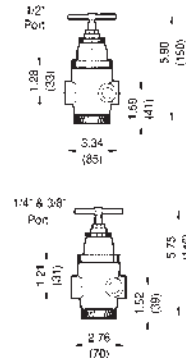
Features:

- 5-125 PSI range
- inlet pressure: **400 PSI** at ambient temperature (70°F)
- T-handle adjustment
- brass body and aluminum bonnet
- non-relieving type
- gauge port is full-flow and can be used as an outlet port
- supplied with GC230 gauge



Port Size	SCFM	with Gauge	
		Part #	Price/E
1/4"	5	R43-201RG	\$268.05
3/8"	5	R43-301RG	300.25
1/2"	10	R43-406RG	346.85

SCFM ratings at 100 PSIG.



Series 1 Water Regulators

Application:

Balanced valve minimizes effects of the inlet pressure variations on outlet pressure.

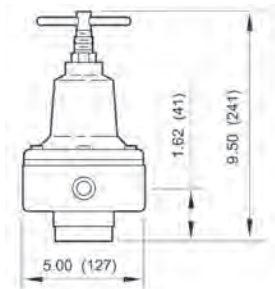
Features:

- inlet pressure: **400 PSI**
- T-handle adjustment
- non-relieving type
- body, valve and bottom plug are brass, bonnet is aluminum and steel
- elastomers are nitrile
- operating temperature:
 - water service: **35° to 200°F** (2° to 93°C)
 - air service: **-30° to 200°F** (-34° to 93°C)



Port Size	SCFM	without Gauge	
		Part #	Price/E
3/4"	27.5	11-009-065	\$1158.50
1"	27.5	11-009-081	1158.50

SCFM ratings at 100 PSIG inlet pressure.



See pages 242-243 for regulator accessories.



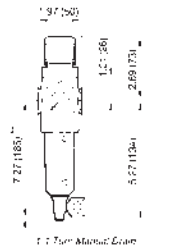
FRL's are designed for air service only, unless otherwise indicated.

Series 1 Filter / Regulators

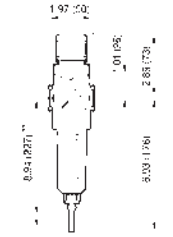
Features:

- 5-150 PSI range
- in-line or modular installation
- 40 micron element
- 2 oz. reservoir
- quick-release bayonet bowl
- prismatic lens liquid level indicator

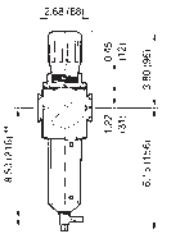
- particle removal per ISO 8573-1, Class 5 and Class 3
- supplied with GC620 gauge
- inlet pressure: transparent bowl: **150 PSI** at ambient temperature (70°F) metal bowl: **250 PSI** at ambient temperature (70°F)



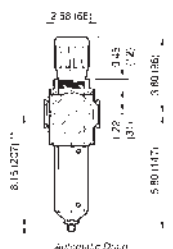
1.7 Turn Manual Drain
** minimum clearance required to remove bowl



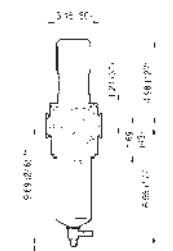
1.7 Turn Manual Drain
** minimum clearance required to remove bowl



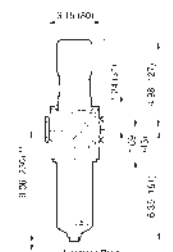
1.4 Turn Manual Drain
** minimum clearance required to remove bowl



Automatic Drain
** minimum clearance required to remove bowl



1.5 Turn Manual Drain
** minimum clearance required to remove bowl



Automatic Drain
** minimum clearance required to remove bowl

Sub-Compact with Transparent Bowl

Port Size	SCFM	Semi-Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	80	B72G-2AG	\$193.70	B72G-2MG	\$137.20
3/8"	80	B72G-3AG	196.85	B72G-3MG	140.60

Sub-Compact with Metal Bowl and Sight Glass

Port Size	SCFM	Semi-Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	80	B72G-2AG-MB	\$208.90	B72G-2MG-MB	\$152.55
3/8"	80	B72G-3AG-MB	212.75	B72G-3MG-MB	156.20

Features:

- 5-150 PSI range
- in-line or modular installation
- 40 micron element
- 3.5 oz. reservoir
- quick-release bayonet bowl
- prismatic lens liquid level indicator

- particle removal per ISO 8573-1, Class 5 and Class 3
- supplied with GC230 gauge
- inlet pressure: transparent bowl: **150 PSI** at ambient temperature (70°F) metal bowl: **250 PSI** at ambient temperature (70°F)

Compact with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	78	B73G-2AG	\$275.55	B73G-2MG	\$206.50
3/8"	123	B73G-3AG	275.55	B73G-3MG	206.20
1/2"	123	B73G-4AG	275.55	B73G-4MG	206.20

Compact with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	78	B73G-2AG-MB	\$284.35	B73G-2MG-MB	\$214.95
3/8"	123	B73G-3AG-MB	284.35	B73G-3MG-MB	214.95
1/2"	123	B73G-4AG-MB	284.35	B73G-4MG-MB	214.95

Features:

- 5-125 PSI range
- 40 micron element
- 7 oz. reservoir
- relieving type

- supplied with GC230 gauge
- inlet pressure: transparent bowl: **150 PSI** at ambient temperature (70°F) metal bowl: **250 PSI** at ambient temperature (70°F)

Standard with Transparent Bowl and Guard

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/8"	163	B74G-3AG	\$324.20	B74G-3MG	\$254.85
1/2"	212	B74G-4AG	324.20	B74G-4MG	254.85
3/4"	212	B74G-6AG	324.20	B74G-6MG	254.85

Standard with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/8"	163	B74G-3AG-MB	\$328.85	B74G-3MG-MB	\$259.35
1/2"	212	B74G-4AG-MB	328.85	B74G-4MG-MB	259.35
3/4"	212	B74G-6AG-MB	356.15	B74G-6MG-MB	259.35

See page 246 for filter/regulator accessories.



FRL's are designed for air service only, unless otherwise indicated.



with transparent bowl

E



with transparent bowl



with metal bowl



with guard



with metal bowl

SCFM ratings at 150 PSIG inlet pressure.

Series 1 Micro-Fog Lubricators

Application:

- Micro-fog lubricators, identified by a red adjusting screw, are used for applications containing one or more points of lubrication, cylinders and multiple or single tools.
- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome. Oil is dropped into the fog generator and atomized into a fine mist. Lightweight particles are delivered downstream for lubrication. Heavier particles fall back into the reservoir.
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome.



• *Micro-fog lubricators cannot be filled under pressure.*

E



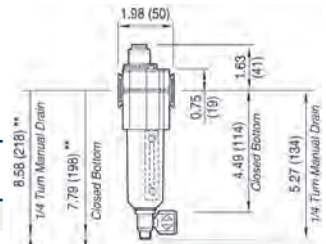
with transparent bowl

Features:

- 2 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- maximum operating conditions:
transparent bowl: **150 PSI** and **125°F**
metal bowl: **250 PSI** and **175°F**

Sub-Compact

Port Size	SCFM	Transparent Bowl		Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/4"	51	L72M-2	\$99.55	L72M-2MB	\$115.20
3/8"	51	L72M-3	103.15	L72M-3MB	118.75



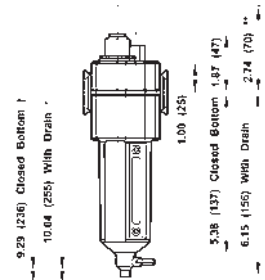
** minimum clearance required to remove bowl

Features:

- 4 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- maximum operating conditions:
transparent bowl: **150 PSI** and **125°F**
metal bowl: **250 PSI** and **175°F**

Compact

Port Size	SCFM	Transparent Bowl		Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/4"	70	L73M-2	\$134.50	L73M-2MB	\$143.35
3/8"	70	L73M-3	134.50	L73M-3MB	143.35
1/2"	70	L73M-4	134.50	L73M-4MB	143.35



with transparent bowl

See pages 244-245 for lubricator accessories. See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Micro-Fog Lubricators

Application:

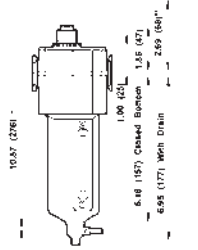
- Micro-fog lubricators, identified by a red adjusting screw, are used for applications containing one or more points of lubrication, cylinders and multiple or single tools.
- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome. Oil is dropped into the fog generator and atomized into a fine mist. Lightweight particles are delivered downstream for lubrication. Heavier particles fall back into the reservoir.
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome.



• *Micro-fog lubricators cannot be filled under pressure.*

Features:

- 7 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- maximum operating conditions:
transparent bowl: **150 PSI** and **125°F**
metal bowl: **250 PSI** and **175°F**



** Special pyrex sight-feed dome
Minimum clearance required to remove bowl.

Standard

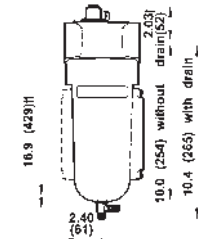
Port Size	SCFM	Transparent Bowl		Metal Bowl	
		Part #	Price/E	Part #	Price/E
3/8"	114	L74M-3	\$170.25	L74M-3MB	\$174.80
1/2"	154	L74M-4	170.25	L74M-4MB	174.80
3/4"	142	L74M-6	170.25	L74M-6MB	174.80



transparent bowl

Features:

- 1 qt. reservoir
- oil level sight gauge
- one turn threaded bowl attachment permits easy maintenance
- inlet pressure: **250 PSI** at ambient temperature (70°F)



1 quart US (1 liter) reservoir
1/4 turn drain

Jumbo

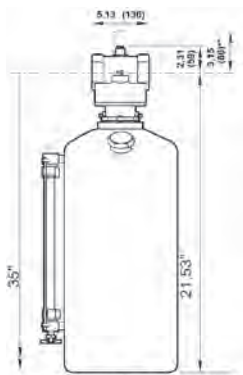
Port Size	SCFM	Metal Bowl with Sight Glass	
		Part #	Price/E
3/4"	160	L17-600A	\$346.05
1"	275	L17-800A	346.05
1 1/4"	275	L17-A00A	404.95
1 1/2"	275	L17-B00A	404.95



metal bowl

Features:

- 2 gallon reservoir
- oil flow can be positively set
- reservoir is ASME constructed
- inlet pressure: **250 PSI** at ambient temperature (70°F)
- oil level sight gauge



2 and 5 gallon (8 and 20 liter) reservoir
** Optional pyrex sight-feed dome.
† Minimum clearance required to remove bowl.

Jumbo General Purpose (Oil-Fog Only)

Port Size	SCFM	Metal Bowl with Sight Glass	
		Part #	Price/E
2"	1000	10-076-004	\$5683.70



metal bowl

See pages 244-245 for lubricator accessories.
See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Micro-Fog Lubricator with Pyrex® Sight Feed Dome

Application:

- Designed for use with alcohol or other anti-freeze agents when units are installed in cold temperature environments.

Features:

- Pyrex® sight feed dome with aluminum case and fluorocarbon O-Rings and seals; Pyrex® sight glass on bowls and metal petcock drain.
- Micro-fog lubricators are used for applications containing one or more points of lubrication, cylinders and multiple or single tools.
- Air flow through the lubricator lifts oil from the reservoir to the sight-feed dome. Oil is dropped into the fog generator and atomized into a fine mist. Lightweight particles are delivered downstream for lubrication. Heavier particles fall back into the reservoir.
- The micro-fog lubricator delivers 10% of the oil drops visible through the transparent sight-feed dome.

E



- *Micro-fog lubricators cannot be filled under pressure.*

Features:

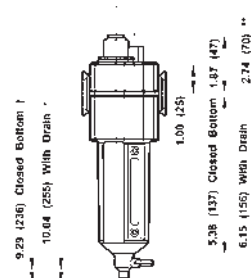
- 4 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- inlet pressure: **250 PSI**
- maximum temperature: **175°F**



metal bowl

Compact

Port Size	SCFM	Metal Bowl with Sight Glass	
		Part #	Price/E
1/4"	60	L73M-2MBPX	\$250.65
3/8"	60	L73M-3MBPX	271.30
1/2"	60	L73M-4MBPX	271.30



Features:

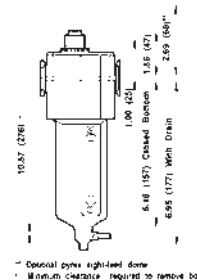
- 7 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- inlet pressure: **250 PSI**
- maximum temperature: **175°F**



metal bowl

Standard

Port Size	SCFM	Metal Bowl with Sight Glass	
		Part #	Price/E
3/8"	114	L74M-3MBPX	\$331.35
1/2"	154	L74M-4MBPX	331.35
3/4"	142	L74M-6MBPX	331.35



Features:

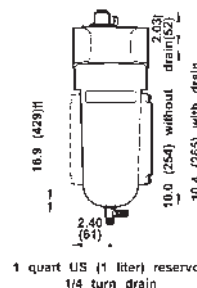
- 1 qt. reservoir
- oil level sight gauge
- particle removal per ISO 8573-1, class 5 and class 3
- one turn threaded bowl attachment permits easy maintenance
- inlet pressure: **250 PSI**



metal bowl

Standard

Port Size	SCFM	Metal Bowl with Sight Glass	
		Part #	Price/E
3/4"	160	L17-600APX	\$382.10
1"	275	L17-800APX	382.10



See pages 244-245 for lubricator accessories. See page 136 for air tool lubricant.



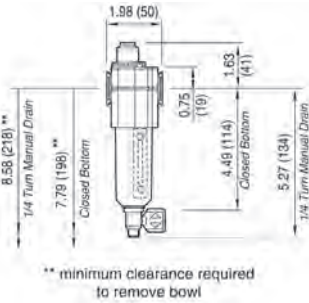
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Oil-Fog Lubricators

Application:

- Oil-fog lubricators, identified by a green adjusting screw, are used for lubricating a single air tool or air motor, and are located as near the device as possible.
- All the oil visible dropping through the transparent sight-feed dome goes to the airstream.
- L72C, L73C and L74C OIL-FOG lubricators can be filled under pressure.



Features:

- 2 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- can be filled under pressure
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- maximum operating conditions:
transparent bowl: **150 PSI** and **125°F**
metal bowl: **250 PSI** and **175°F**

Sub-Compact

Port Size	SCFM	Transparent Bowl		Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/4"	51	L72C-2	\$99.55	L72C-2MB	\$115.20
3/8"	51	L72C-3	103.15	L72C-3MB	118.75



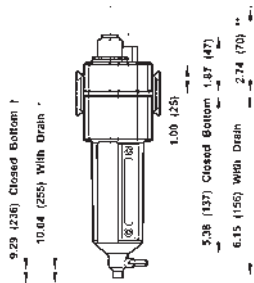
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Features:

- 4 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- can be filled under pressure
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- maximum operating conditions:
transparent bowl: **150 PSI** and **125°F**
metal bowl: **250 PSI** and **175°F**

Compact

Port Size	SCFM	Transparent Bowl		Metal Bowl	
		Part #	Price/E	Part #	Price/E
1/4"	60	L73C-2	\$134.50	L73C-2MB	\$143.35
3/8"	60	L73C-3	134.50	L73C-3MB	143.35
1/2"	60	L73C-4	134.40	L73C-4MB	143.35



See pages 244-245 for lubricator accessories. See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Oil-Fog Lubricators

Application:

- Oil-fog lubricators, identified by a green adjusting screw, are used for lubricating a single air tool or air motor, and are located as near the device as possible.
- All the oil visible dropping through the transparent sight-feed dome goes to the airstream.
- L72C, L73C and L74C OIL-FOG lubricators can be filled under pressure.

E



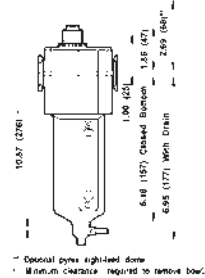
metal bowl

Features:

- 7 oz. reservoir
- in-line or modular installation
- quick release bayonet bowl
- micro-fog design delivers aerosol mist
- can be filled under pressure
- recommended lubricants: misting type oil rated 50 to 200 SSU (ISO Grade 7 to 46) at 100°F
- maximum operating conditions:
transparent bowl: **150 PSI** and **125°F**
metal bowl: **250 PSI** and **175°F**

Standard

Port Size	SCFM	Transparent Bowl		Metal Bowl	
		Part #	Price/E	Part #	Price/E
3/8"	118	L74C-3	\$170.25	L74C-3MB	\$174.80
1/2"	192	L74C-4	170.25	L74C-4MB	174.80
3/4"	186	L74C-6	170.25	L74C-6MB	174.80



* Optional pyrex sight-feed dome
† Minimum clearance required to remove bowl.

Features:

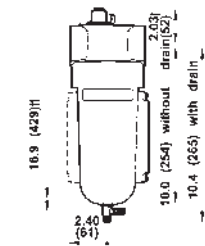
- 1 qt. reservoir
- oil level sight gauge
- **cannot be filled under pressure**
- one turn threaded bowl attachment permits easy maintenance
- inlet pressure: **250 PSI** at ambient temperature (70°F)

Jumbo

Port Size	SCFM	Metal Bowl with Sight Glass	
		Part #	Price/E
3/4"	160	L17-600D	\$346.05
1"	275	L17-800D	346.05
1 1/4"	275	L17-A00D	404.95
1 1/2"	275	L17-B00D	404.95



metal bowl



1 quart US (1 liter) reservoir
1/4 turn drain

Features:

- 2 gallon reservoir
- oil flow can be positively set
- **cannot be filled under pressure**
- reservoir is ASME construction
- inlet pressure: **250 PSI** at ambient temperature (70°F)
- oil level sight gauge

Jumbo General Purpose (Oil-Fog Only)

Port Size	SCFM	Metal Bowl with Sight Glass	
		Part #	Price/E
2"	1000	10-076-004	\$5683.70



metal bowl



2 and 5 gallon (8 and 20 liter) reservoir
** Optional pyrex sight-feed dome.
† Minimum clearance required to remove bowl.

See pages 244-245 for lubricator accessories. See page 136 for air tool lubricant.




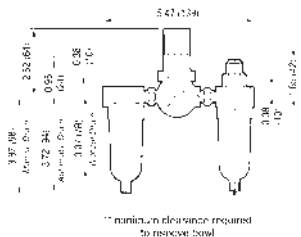
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Combination Units

Application:

- These units are intended for use in industrial compressed air systems only. Not for use with fluids. They must not be used where pressure or temperature may exceed maximum rated operating conditions.
- Combination Units are supplied with micro-fog lubricators.
-  The polycarbonated plastic bowls used on these units can be damaged and possibly burst if exposed to such substances as certain solvents, strong alkalis, compressor oils that contain ester-based additives or synthetic oils. Fumes of these substances in contact with the polycarbonate bowl, externally or internally, can also result in damage. Use metal bowl in applications where a plastic bowl might be exposed to substances that are incompatible with polycarbonates. Clean with warm water only.



Features:

- 5-125 PSI range
- 1 oz. reservoir
- inlet pressure **150 PSI** maximum at ambient temperature (70°F)
- supplied with a GC620 gauge

Miniature Combination Units with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/8"	14	P1A-100A	\$253.55	P1A-100M	\$244.30
1/4"	14	P1A-200A	254.70	P1A-200M	245.45



transparent bowls

E

Features:

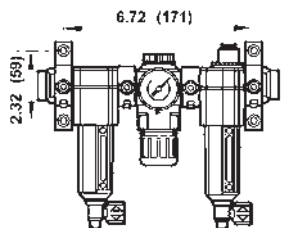
- 5-150 PSI range
- 2 oz. reservoir
- inlet pressure: transparent bowl: **150 PSI** at ambient temperature (70°F) metal bowl: **250 PSI** at ambient temperature (70°F)
- supplied with a GC620 gauge
- connected modularly
- Includes 2 clamps and wall mounting brackets # 4214-52, 2 clamps # 4214-51 and 2 NPT pipe adapters. See modular components on pages 241, 243 and 245 for other options.

Sub-Compact Combination Unit with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	36	E72-2A	\$496.40	E72-2M	\$440.00
3/8"	36	E72-3A	507.10	E72-3M	450.80



metal bowls



Sub-Compact Combination Unit with Metal Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	36	E72-2A-MB	\$527.50	E72-2M-MB	\$471.00
3/8"	36	E72-3A-MB	538.15	E72-3M-MB	481.70

Features:

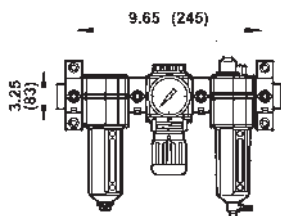
- 5-150 PSI range
- 4 oz. reservoir
- inlet pressure: transparent bowl: **150 PSI** at ambient temperature (70°F) metal bowl: **250 PSI** at ambient temperature (70°F)
- supplied with a G230 gauge
- connected modularly
- Includes 2 clamps and wall mounting brackets # 4314-52, 2 clamps # 4314-51 and 2 NPT pipe adapters #4315-01. See modular components on pages 241, 243 and 245 for other options.

Compact Combination Unit with Transparent Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	70	E73-2A	\$619.95	E73-2M	\$550.45
3/8"	70	E73-3A	619.95	E73-3M	550.45
1/2"	70	E73-4A	619.95	E73-4M	550.45



metal bowls



Compact Combination Unit with Metal Bowl

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	70	E73-2A-MB	\$637.60	E73-2M-MB	\$568.15
3/8"	70	E73-3A-MB	637.60	E73-3M-MB	568.15
1/2"	70	E73-4A-MB	637.60	E73-4M-MB	568.15



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Combination Units

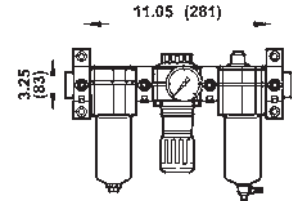
Features:

- 5-150 PSI range
- 7 oz. reservoir
- inlet pressure:
transparent bowl: **150 PSI** at ambient temperature (70°F)
metal bowl: **250 PSI** at ambient temperature (70°F)

- models supplied with a GC230 gauge
- connected modularly
- Includes 2 clamps and wall mounting brackets # 4314-52, 2 clamps # 4314-51 and 2 NPT pipe adapters. See modular components on pages 241, 243 and 245 for other options.

Standard Combination Unit with Transparent Bowl and Guard

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/8"	110	E74-3A	\$753.05	E74-3M	\$683.50
1/2"	150	E74-4A	753.05	E74-4M	683.50
3/4"	140	E74-6A	753.05	E74-6M	683.50



E



transparent bowl with guard

Standard Combination Unit with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/8"	110	E74-3A-MB	\$762.00	E74-3M-MB	\$692.75
1/2"	150	E74-4A-MB	762.00	E74-4M-MB	692.75
3/4"	140	E74-6A-MB	762.00	E74-6M-MB	692.75

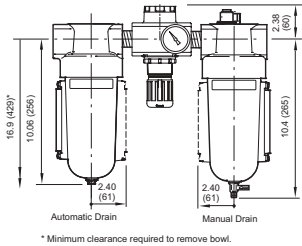
Features:

- 5-125 PSI range
- 1 qt. reservoir

- inlet pressure: **250 PSI** at ambient temperature (70°F)

Jumbo Combination Unit with Metal Bowl and Sight Glass

Port Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/4"	160	P8A-660A	\$1096.40	P8A-660M	\$1026.25
1"	275	P8A-860A	1088.75	P8A-860M	1018.60



* Minimum clearance required to remove bowl.



with metal bowls

Desiccant Compressed Air Dryers

Application:

- Compressed air dryers help to eliminate condensation at the point of use. A replaceable element filters outlet air to help prevent desiccant dust migration downstream.
- Silica gel desiccant changes color from blue to pink when desiccant replacement is needed. Desiccant can be dried and reused by heating to 275°F, or replaced. Moisture indicator on top of body.
- An after filter should be placed downstream from the desiccant dryer to ensure solid contaminants such as desiccant dust do not migrate downstream.

7 oz. reservoir features:

- uses 1 gel packet
- nominal air drying capacity 750 cubic feet at 100 PSI and 77°F
- maximum inlet pressure: **150 PSI**
- maximum temperature: **175°F**

1 qt. reservoir features:

- uses 5 gel packets
- nominal air drying capacity 6000 cubic feet at 100 PSI and 77°F
- maximum inlet pressure: **250 PSI**
- maximum temperature: **175°F**

- in-line or modular installation
- 1.25 lb. bowl capacity
- quick release bayonet bowl



7 oz. reservoir

1 qt. reservoir

Sub-Compact

Reservoir Size	SCFM	Metal Bowl with Guard	
		Part #	Price/E
7 oz.	5	W74D-2A-MB7	\$268.75
1 qt.	10	W74D-2A-MB32	535.25

See page 240 for silica gel refills.



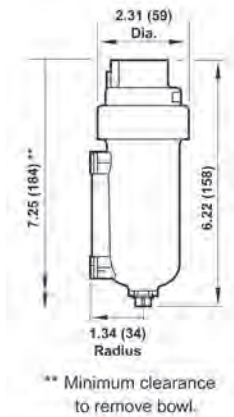
FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 90 PSIG inlet pressure.

Series 1 Drip Leg Automatic Drain

Application:

Used in compressed air systems to automatically expel liquids from piping systems. Installed at low points in piping and at end of pipe network, where water is likely to accumulate.



Features:

- metal bowl
- drain is ported to 1/8" NPT
- inlet for metal bowl: **250 PSIG** at ambient temperature (70°F)

Port Size	Part #	Price/E
1/2"	17-016-107	\$281.75



E

Hex Nipples

- ref SAE 130137

NPTF Thread	Brass Part #	Price/E	Opt Qty
1/8" x 1/8"	BCN12	\$2.15	100
1/4" x 1/4"	BCN25	2.78	100
3/8" x 3/8"	BCN37	3.81	50
1/2" x 1/2"	BCN50	5.64	25
3/4" x 3/4"	BCN75	7.47	25
1" x 1"	BCN100	17.77	10



Close Nipples

- Stainless steel close nipples are available on page 628.
- Brass close nipples are available on page 315.

Size	Carbon Steel Part #	Price/E	Opt Qty
1" x 1"	CN100	\$3.50	10
1-1/4" x 1-1/4"	CN125	4.40	10
1-1/2" x 1-1/2"	CN150	5.50	10
2" x 2"	CN200	7.45	10



Do not use pipe nipples as hose inserts.

Series 1 Filter Accessories

Elements

Used On	Description	Part #	Price/E
F07	5 micron	3652-11	\$25.05
F08	5 micron	3161-16	24.50
	40 micron	3161-18	24.50
F17	5 micron	5311-01	129.20
	25 micron	5311-02	129.20
	40 micron	5311-03	100.65
F18	5 micron	5882-11	347.70
	25 micron	5882-12	347.70
	50 micron	5882-13	347.70
F72	5 micron	5925-03	16.10
	40 micron	5925-02	13.35
F73	5 micron	4438-01	19.50
	40 micron	4438-03	19.50
	5 micron	4338-04	20.65
F74	40 micron	4338-05	16.75
F74C	oil removal filter	4344-01	109.85
F74H	oil removal filter	4344-02	162.80
F74V	vapor removal filter	4341-01	218.45



5 micron element
5925-03

E

Silica Gel Refills

Used On	Description	Part #	Price/E
W74D	5 silica gel refills, .25 lb. ea	4385-700	\$208.35

Bowls and Bowl Guards

Used On	Description	Part #	Price/E
F07	polycarbonate bowl with auto drain	3646-51	\$34.50
	polycarbonate bowl with manual drain	3646-53	23.65
F08	transparent bowl with manual drain	3776-50	90.50
	transparent bowl with auto drain	3776-51	336.25
F17	metal bowl with drain	5390-77	258.80
F72	transparent bowl with manual drain	4266-50RF	44.10
	transparent bowl with semi-automatic drain	4266-52RF	59.40
F73	transparent bowl with manual drain, ¼ turn	4425-50RF	64.10
	transparent bowl with auto drain	4425-51RF	162.95
F74	plastic bowl assembly, with guard, ¼ turn manual drain	4325-51R	61.25
	plastic bowl assembly, with guard and automatic drain	4325-52R	160.70
	bowl guard only	4326-01	28.25



transparent bowl and guard
4325-51R

Auto and Manual Drains

Used On	Description	Part #	Price/E
F08, F17	auto drain	3000-10	\$79.65
	manual drain assembly	2796-52	17.40
F72	semi-automatic drain	5379-RK	56.80
F72, F73	auto drain	4000-51R	40.35
F74	auto drain	3000-10	79.65
F72, F73, F74	manual drain	619-50	14.75



auto drain
3000-10

Lens Kits

Used On	Description	Part #	Price/E
F72	liquid level lens kit	4380-020	\$20.75
F73	liquid level lens kit	4380-030	21.10
F74	Pyrex® sight glass kit	4380-051	32.65



liquid level lens kit
4380-030

Series 1 Filter Accessories

Features:**Indicator Conversion Kit**

- allows addition of service life indicator in the field
- for general purpose and oil removal filters

Used On	Description	Part #	Price/E
F72, F73, F74	service life indicator	5797-50	\$74.95



service life indicator

Mounting Brackets

Used On	Description	Part #	Price/E
F07	mounting bracket only	5939-06	\$15.40
F08	mounting bracket only	3783-52	55.25
F17	mounting bracket kit for 3/4" and 1" ported units	6212-50	120.40
	mounting bracket kit for 1 1/4" and 1 1/2" ported units	6212-51	131.80

mounting bracket
6212-50**Features:****Wall Mounting Brackets**

- For use instead of quick-clamps and pipe adapters to secure to a wall, machine panel or other flat surface
- Use close nipples to connect combination unit and then place in bracket.

Used On	Description	Part #	Price/E
F72	wall mounting bracket for all F72 series	4224-50	\$21.30
F73	wall mounting bracket for all F73 series	4424-50	19.85
F74	wall mounting bracket for all F74 series	4324-50	26.20



4324-50

Features:**Quick Clamps and Brackets****Quick-clamp**

- provides modular installation capability
- flanges on the products slide into V grooves in clamp
- face-sealing O-rings provide a positive seal when clamp is closed and screw tightened

Bracket for quick-clamp

- provides secure mounting to a wall, machine panel or other flat surface

Used On	Description	Part #	Price/E
F72	quick-clamp	4214-51	\$18.70
	quick-clamp service kit (2 O-rings)	4384-570	13.35
	wall bracket for quick-clamp (uses 3/16" screws)	4213-89	13.35
	quick-clamp and bracket assembly	4214-52	24.10
F73, F74	quick-clamp	4314-51	20.20
	quick-clamp service kit (2 O-rings)	4384-770	14.75
	wall bracket for quick-clamp (uses 7/32" screws)	4313-50	16.00
	quick-clamp and bracket assembly	4314-52	30.80



quick-clamp

bracket

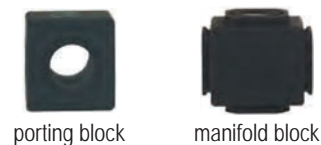


quick-clamp with bracket

Features:**Blocks**

- installs with quick-clamps
- provides additional outlets and manifolding capability

Used On	Description	Part #	Price/E
F72	porting block, three 1/4" PTF outlets	4216-50	\$38.35
	manifold block, three 3/8" PTF outlets	4228-01	86.55
F73, F74	porting block, three 1/4" PTF outlets	4316-50	40.65
	manifold block, three 3/4" PTF outlets	4328-50	80.70



porting block

manifold block

Features:**Adapters**

- installs with quick-clamps
- provides PTF connections to system piping
- sold individually

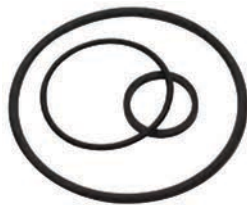
Used On	Description	Part #	Price/E
F72	1/4" PTF connections	4215-02	\$32.75
	3/8" PTF connections	4215-03	21.40
F73, F74	1/4" PTF connections	4315-01	28.10
	3/8" PTF connections	4315-02	28.10
	1/2" PTF connections	4315-03	29.40
	3/4" PTF connections	4315-04	28.10



pipe adapters

Series 1 Filter Accessories

Service Kits



4380-700

Used On	Description	Part #	Price/E
F08	O-rings, seals, and gaskets	3163-05	\$11.80
F17	O-rings, seals, and gaskets	5578-05	35.95
F18	O-rings, seals, and gaskets	5945-50	44.45
F72	O-rings, seals, and gaskets	4380-500	13.80
F73	O-rings, seals, and gaskets	4380-600	13.55
F74	O-rings, seals, and gaskets	4380-700	14.75

E

Series 1 Regulator Accessories

Replacement Springs



4432-02

Used On	Description	Part #	Price/E
R72	5-60 PSI	4232-02	\$16.00
	5-150 PSI	4232-03	13.90
R73	5-60 PSI	4432-01	16.00
	5-150 PSI	4432-02	16.10
R74	5-60 PSI	4332-01	14.20
	5-150 PSI	4332-02	14.20

Tamper Resistant Cover and Seal Wire

Features:

- helps prevent unauthorized adjustment to the pressure setting
- cover can be locked in place with up to four padlocks
- installs on adjusting knob



tamper resistant cover

Used On	Description	Part #	Price/E
R72	tamper proof kit	4255-51	\$17.40
R73	tamper proof kit	4455-51	23.10
R74	tamper proof kit	4355-51	22.85

Panel Nuts



panel nut

Used On	Description	Part #	Price/E
R07	plastic panel nut	2962-89	\$8.70
R08	plastic panel nut	5191-89	16.95
R17	metal panel nut	5226-97	36.50
R22	stainless steel panel nut	5988-02	108.55
R72	plastic panel nut	4248-89	10.70
R73	zinc panel nut	5191-88	12.40
R74	zinc panel nut	4348-89	10.65

Repair Kits



3407-01



4381-700

Used On	Description	Part #	Price/E
R06	diaphragm, relieving	3407-01	\$29.95
R07	diaphragm, relieving	3407-02	29.95
R08	diaphragm, relieving	5298-14	75.05
R11	diaphragm, relieving	529-03	117.95
R17	diaphragm, relieving	5578-02	104.65
R18	seal kit only	5945-40	35.00
R72	diaphragm, relieving	4381-500	25.70
R73	diaphragm, relieving	4381-600	38.80
R74	diaphragm, relieving	4381-700	44.85

Series 1 Regulator Accessories

Mounting Brackets

Used On	Description	Part #	Price/E
R07	mounting bracket with plastic panel nut	18-025-003	\$18.55
R08	mounting bracket with plastic panel nut	5203-06	34.35
R17	mounting bracket with plastic panel nut	5570-04	46.65
R22	mounting bracket	18-001-962	87.40
	mounting bracket with panel nut	18-001-959	277.65



18-025-003



5203-06

Features:

- For use instead of quick-clamps and pipe adapters to secure to a wall, machine panel or other flat surface
- Use close nipples to connect combination unit and then place in bracket.

Wall Mounting Brackets

Used On	Description	Part #	Price/E
R72	wall mounting bracket for all R72 series	4224-50	\$21.30
R73	wall mounting bracket for all R73 series	4424-50	19.85
R74	wall mounting bracket for all R74 series	4324-50	26.20



4324-50

Features:

Quick-clamp

- provides modular installation capability
- flanges on the products slide into V grooves in clamp
- face-sealing O-rings provide a positive seal when clamp is closed and screw tightened

Bracket for quick-clamp

- provides secure mounting to a wall, machine panel or other flat surface

Used On	Description	Part #	Price/E
R72	quick-clamp	4214-51	\$18.70
	quick-clamp service kit (2 O-rings)	4384-570	13.35
	wall bracket for quick-clamp (uses 3/16" screws)	4213-89	13.35
	quick-clamp and bracket assembly	4214-52	24.10
R73, R74	quick-clamp	4314-51	20.20
	quick-clamp service kit (2 O-rings)	4384-770	14.75
	wall bracket for quick-clamp (uses 7/32" screws)	4313-50	16.00
	quick-clamp and bracket assembly	4314-52	30.80



quick-clamp

bracket



quick-clamp with bracket

Features:

Blocks

- installs with quick-clamps
- provides additional outlets and manifolding capability

Used On	Description	Part #	Price/E
R72	porting block, three 1/4" PTF outlets	4216-50	\$38.35
	manifold block, three 3/8" PTF outlets	4228-01	86.55
R73, R74	porting block, three 1/4" PTF outlets	4316-50	40.65
	manifold block, three 3/4" PTF outlets	4328-50	80.70



porting block

manifold block

Features:

Adapters

- installs with quick-clamps
- provides PTF connections to system piping
- sold individually

Used On	Description	Part #	Price/E
R72	1/4" PTF connections	4215-02	\$32.75
	3/8" PTF connections	4215-03	21.40
R73, R74	1/4" PTF connections	4315-01	28.10
	3/8" PTF connections	4315-02	28.10
	1/2" PTF connections	4315-03	29.40
	3/4" PTF connections	4315-04	28.10



pipe adapter

see page 255 for replacement gauges

Series 1 Lubricator Accessories

Bowls and Bowl Guards



3776-54

E

Used On	Description	Part #	Price/E
L07	polycarbonate bowl with manual drain	3646-54	\$21.25
L08	transparent bowl with manual drain	3776-54	80.70
L73	transparent bowl with manual drain	4425-50RL	72.15
L74	metal bowl with Pyrex® liquid level indicator and ¼ turn manual drain	4303-77R	129.80
	transparent bowl with manual drain	4325-50R	61.25
	bowl guard only	4326-01	28.25

Auto and Manual Drain



2796-52

Used On	Description	Part #	Price/E
L08, L17	manual drain assembly	2796-52	\$17.40

Seal Wire

- provides tamper resistant protection of the lubricator drip rate setting



seal wire

Used On	Description	Part #	Price/E
L73, L74	metal wire	2117-01	\$15.50

Domes, Caps and Plugs



18-011-021



5605-50

Used On	Description	Part #	Price/E
L08	quick fill cap	18-011-024	\$30.20
L17, L74	quick fill cap	18-011-021	42.80
L72	acetal fill plug	4272-99	13.35
L73, L74	aluminum fill plug	5301-55	14.10
L17, L72, L74, L73	sight feed dome (micro-fogging design)	4055-50	30.65
	sight feed dome (oil-fogging design)	4055-51	30.65
L72, L74	Pyrex® sight feed dome	5605-50	169.60
L74	liquid level indicator repair kit	4380-050	33.20

Seal Kits



5771-02

Used On	Description	Part #	Price/E
L17	O-rings, seals, and gaskets	5771-02	\$15.05
L72	O-rings, seals, and gaskets	4382-500	13.80
	Viton® seal	2325-10	9.95
	buna seal	720-01	14.45
L73	O-rings, seals, and gaskets	4382-600	15.55
L74	O-rings, seals, and gaskets	4382-700	13.35
	Viton® seal	2325-13	14.70

Mounting Brackets

mounting bracket
6212-50

Used On	Description	Part #	Price/E
L07	mounting bracket only	5095-17	\$15.95
L08	mounting bracket only	3783-52	55.25
L17	mounting bracket kit for ¾" and 1" ported units	6212-50	120.40
	mounting bracket kit for 1¼" and 1½" ported units	6212-51	131.80

Series 1 Lubricator Accessories

Wall Mounting Brackets

Application:

- For use instead of quick-clamps and pipe adapters to secure to a wall, machine panel or other flat surface
- Use close nipples to connect combination unit and then place in bracket.

Used On	Description	Part #	Price/E
L72	wall mounting bracket for all L72 series	4224-50	\$21.30
L73	wall mounting bracket for all L73 series	4424-50	19.85
L74	wall mounting bracket for L74 series	4324-50	26.20
	wall mounting bracket for L74 series with 1 quart reservoir	4324-51	52.10



4324-50

E

Quick Clamps and Brackets

Features:
Quick-clamp

- provides modular installation capability
- flanges on the products slide into V grooves in clamp
- face-sealing O-rings provide a positive seal when clamp is closed and screw tightened

Bracket for quick-clamp

- provides secure mounting to a wall, machine panel or other flat surface

Used On	Description	Part #	Price/E
L72	quick-clamp	4214-51	\$18.70
	quick-clamp service kit (2 O-rings)	4384-570	13.35
	wall bracket for quick-clamp (uses 3/16" screws)	4213-89	13.35
	quick-clamp and bracket assembly	4214-52	24.10
L73, L74	quick-clamp	4314-51	20.20
	quick-clamp service kit (2 O-rings)	4384-770	14.75
	wall bracket for quick-clamp (uses 7/32" screws)	4313-50	16.00
	quick-clamp and bracket assembly	4314-52	30.80



quick-clamp



bracket



quick-clamp with bracket

Blocks

Features:

- installs with quick-clamps
- provides additional outlets and manifolding capability

Used On	Description	Part #	Price/E
L72	porting block, three 1/4" PTF outlets	4216-50	\$38.35
	manifold block, three 3/8" PTF outlets	4228-01	86.55
L73, L74	porting block, three 1/4" PTF outlets	4316-50	40.65
	manifold block, three 3/4" PTF outlets	4328-50	80.70



porting block



manifold block

Adapters

Features:

- installs with quick-clamps
- provides PTF connections to system piping
- sold individually

Used On	Description	Part #	Price/E
L72	1/4" PTF connections	4215-02	\$32.75
	3/8" PTF connections	4215-03	21.40
L73, L74	1/4" PTF connections	4315-01	28.10
	3/8" PTF connections	4315-02	28.10
	1/2" PTF connections	4315-03	29.40
	3/4" PTF connections	4315-04	28.10



pipe adapter

Series 1 Filter/Regulator Accessories



4325-51R

Bowls and Bowl Guards

Used On	Description	Part #	Price/E
B74	transparent bowl with manual drain	4325-51R	\$61.25
	transparent bowl with auto drain	4325-52R	160.70
	bowl guard only	4326-01	28.25

Tamper Resistant Cover and Seal Wire

Features:

- helps prevent unauthorized adjustment to the pressure setting
- cover can be locked in place with up to four padlocks
- installs on adjusting knob



tamper resistant cover

Used On	Description	Part #	Price/E
B72	tamper proof kit	4255-51	\$17.40
B73	tamper proof kit	4455-51	23.10
B74	tamper proof kit	4355-51	22.85

Panel Nuts



panel nut

Used On	Description	Part #	Price/E
B08	plastic panel nut	5191-89	\$16.95
B72	plastic panel nut	4248-89	10.70
B73	zinc panel nut	5191-88	12.40
B74	zinc panel nut	4348-89	10.65

Mounting Brackets

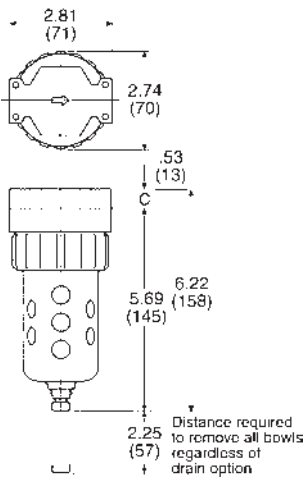


18-025-003

Used On	Description	Part #	Price/E
B07	mounting bracket	18-025-003	\$18.55
B08	mounting bracket kit	5203-06	34.35

See page 255 for replacement gauges.

Watts Filters

**Features:**

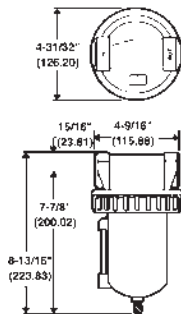
- 40 micron polypropylene element
- 4.4 oz. bowl
- zinc body
- operating conditions:
temperature range: **40°F** (4.4°C) to **125°F** (52°C)
pressure: **150 PSIG** (10.2 bar) maximum

Compact Polycarbonate Bowl with Plastic Bowl Guard

Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	53	F602-02BJR	\$177.10	F602-02BJ	\$116.85
3/8"	80	F602-03BJR	177.10	F602-03BJ	116.85
1/2"	85	F602-04BJR	220.65	F602-04BJ	160.40

**E****Features:**

- 40 micron polypropylene element
- 16 oz. bowl
- zinc body
- automatic drain operating conditions:
temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
pressure: **175 PSIG** (12 bar) maximum
- manual drain operating conditions:
temperature range: **40°F** (4.4°C) to **150°F** (65.6°C)
pressure: **250 PSIG** (17 bar) maximum

**Standard Zinc Bowl with Sight Glass**

Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/4"	250	F602-06WJR	\$365.45	F602-06WJ	\$305.20
1"	340	F602-08WJR	365.45	F602-08WJ	305.20



See page 252 for filter accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Watts Filters

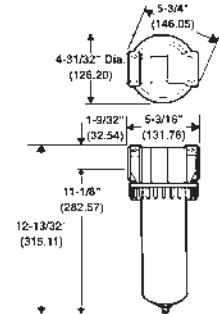
Features:

- 40 micron polypropylene element
- 16 oz. bowl
- zinc body
- automatic drain operating conditions:
temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
pressure: **175 PSIG** (12 bar) maximum
- manual drain operating conditions:
temperature range: **40°F** (4.4°C) to **150°F** (65.6°C)
pressure: **250 PSIG** (17 bar) maximum



Standard Zinc Bowl with Sight Glass

Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1 1/2"	380	F602-12WJR	\$427.65	F602-12WJ	\$367.40



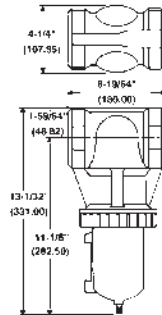
Features:

- 40 micron polypropylene element
- 26 oz. bowl
- aluminum body
- automatic drain operating conditions:
temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
pressure: **175 PSIG** (12 bar) maximum
- manual drain operating conditions:
temperature range: **40°F** (4.4°C) to **150°F** (65.6°C)
pressure: **250 PSIG** (17 bar) maximum



Standard Zinc Bowl with Sight Glass

Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
2"	1125	F602-16WJR	\$1224.50	F602-16WJ	\$1166.35



See page 252 for filter accessories.

Watts Filter / Regulator

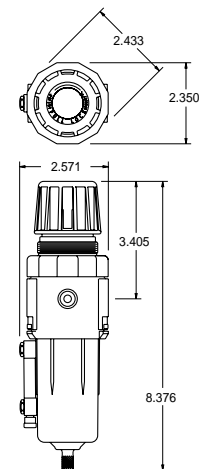
Features:

- 2 - 125 PSIG (.15 - 8.5 bar) range
- 40 micron filter
- 4 oz. bowl
- zinc body
- relieving
- diaphragm operated
- spring adjustment mechanism
- glass-filled acetal plastic spring cage
- tamper resistant, snap lock, removable knobs
- temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
- uses a GC230 gauge (not supplied)



Zinc Bowl with Sight Glass

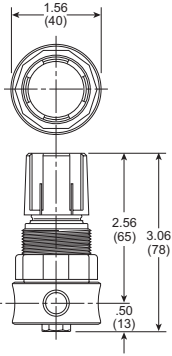
Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	60	B11-02WJCR	\$272.05	B11-02WJC	\$211.80
3/8"	70	B11-03WJCR	272.05	B11-03WJC	211.80
1/2"	80	B11-04WJCR	272.05	B11-04WJC	211.80



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Watts Regulators

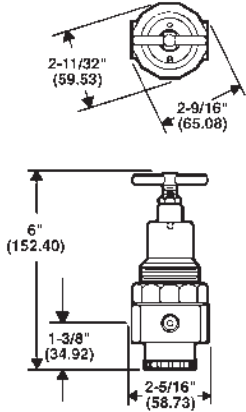


Features:

- 2 - 125 PSIG (.15 - 8.5 bar) range
- brass body
- relieving
- diaphragm operated
- non-rising adjusting knob
- supply pressure: **300 PSIG** (20.4 bar) maximum
- temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
- 1/8" gauge port

Mini

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	10	R364-02CG	\$78.00	R364-02C	\$57.30

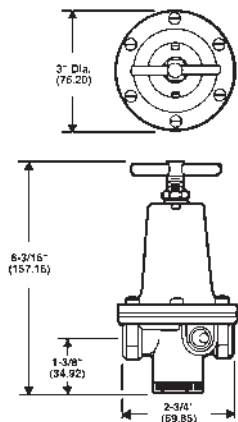


Features:

- 2 - 125 PSIG (.15 - 8.5 bar) range
- zinc body
- relieving
- diaphragm operated
- spring adjustment mechanism
- t-handle design
- supply pressure: **300 PSIG** (20.4 bar) maximum
- temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
- uses a GC230 gauge

Compact

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	60	R11-02CG	\$120.50	R11-02C	\$99.80
3/8"	70	R11-03CG	120.50	R11-03C	99.80
1/2"	80	R11-04CG	120.50	R11-04C	99.80

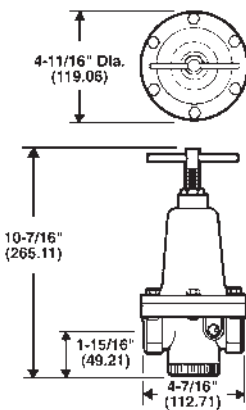


Features:

- 2 - 125 PSIG (.15 - 8.5 bar) range
- zinc body
- relieving
- diaphragm operated
- spring adjustment mechanism
- t-handle design
- brass bottom plug
- aluminum spring cage
- supply pressure: **300 PSIG** (20.4 bar) maximum
- temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
- uses a GC230 gauge

Standard

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
1/4"	60	R119-02CG	\$141.75	R119-02C	\$121.05
3/8"	80	R119-03CG	141.75	R119-03C	121.05
1/2"	100	R119-04CG	165.00	R119-04C	144.30



Features:

- 2 - 125 PSIG (.15 - 8.5 bar) range
- zinc body
- relieving
- diaphragm operated
- spring adjustment mechanism
- t-handle design
- acetal bottom plug
- aluminum spring cage
- supply pressure: **300 PSIG** (20.4 bar) maximum
- temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
- uses a GC230 gauge

Standard

Size	SCFM	With Gauge		Without Gauge	
		Part #	Price/E	Part #	Price/E
3/4"	200	R119-06CG	\$261.00	R119-06C	\$240.30
1"	220	R119-08CG	261.00	R119-08C	240.30
1 1/2"	250	R119-12CG	323.60	R119-12C	302.90



See page 253 for regulator accessories.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Watts Lubricators

General Features:

- general purpose
- high performance over a very wide flow range
- ¾", 1" and 1½" are fillable while under pressure

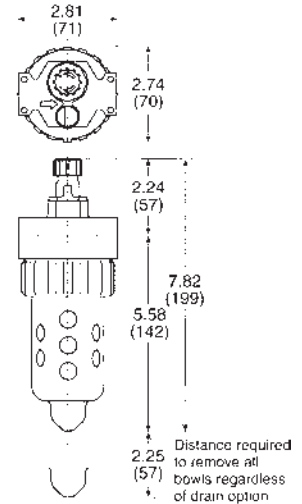
E

**Features:**

- 2.6 oz. bowl
- zinc body
- micromist
- operating conditions:
temperature range: **40°F** (4.4°C) to **125°F** (52°C)
pressure: **150 PSIG** (10.2 bar) maximum

Compact

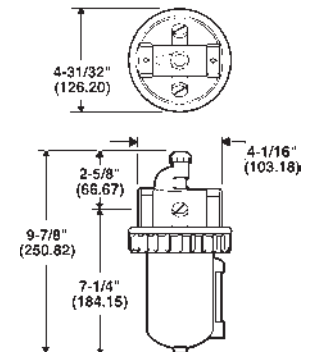
Size	SCFM	Polycarbonate Bowl with Plastic Bowl Guard	
		Part #	Price/E
1/4"	40	L606-02B	\$145.50
3/8"	60	L606-03B	145.50
1/2"	90	L606-04B	173.85

**Features:**

- 16 oz. bowl
- zinc body
- operating conditions:
temperature range: **40°F** (4.4°C) to **150°F** (65.6°C)
pressure: **250 PSIG** (17 bar) maximum

Standard

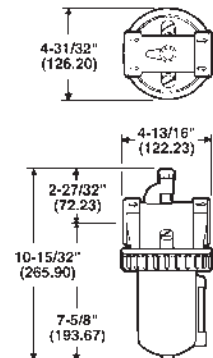
Size	SCFM	Zinc Bowl with Sight Glass	
		Part #	Price/E
¾"	275	L606-06W	\$312.80
1"	320	L606-08W	312.80

**Features:**

- 16 oz. bowl
- zinc body
- operating conditions:
temperature range: **40°F** (4.4°C) to **150°F** (65.6°C)
pressure: **250 PSIG** (17 bar) maximum

Standard

Size	SCFM	Zinc Bowl with Sight Glass	
		Part #	Price/E
1½"	550	L606-12W	\$372.35



See pages 253 for lubricator accessories. See page 136 for air tool lubricant.



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Watts Combination Units

Features:

- 4.5 oz. bowl
- 40 micron polypropylene element
- zinc body
- operating conditions:
temperature range: **40°F** (4.4°C) to **120°F** (48.9°C)
pressure: **150 PSIG** (10.2 bar) maximum



Compact Polycarbonate Bowl with Plastic Bowl Guard

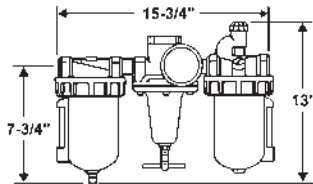
Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1/4"	40	C11-02A	\$488.70	C11-02M	\$428.45
3/8"	60	C11-03A	490.50	C11-03M	430.25
1/2"	85	C119-04A	610.60	C119-04M	550.35



E

Features:

- 16 oz. bowl
- 40 micron polypropylene element
- zinc body
- operating conditions:
temperature range: **40°F** (4.4°C) to **150°F** (65.6°C)
pressure: **250 PSIG** (17 bar) maximum



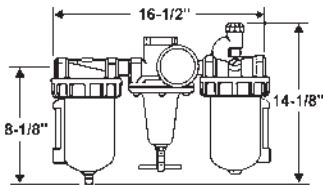
Standard Zinc Bowl with Sight Glass

Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
3/4"	275	C119-06AMB	\$993.90	C119-06MMB	\$933.70
1"	320	C119-08AMB	986.25	C119-08MMB	926.00



Features:

- 16 oz. bowl
- 40 micron polypropylene element
- zinc body
- operating conditions:
temperature range: **40°F** (4.4°C) to **150°F** (65.6°C)
pressure: **250 PSIG** (17 bar) maximum



Standard Zinc Bowl with Sight Glass

Size	SCFM	Automatic Drain		Manual Drain	
		Part #	Price/E	Part #	Price/E
1 1/2"	550	C119-12AMB	\$1174.60	C119-12MMB	\$1114.35



FRL's are designed for air service only, unless otherwise indicated.

SCFM ratings at 150 PSIG inlet pressure.

Watts Filter Accessories

Elements

E

40 micron filter
EK602G

Used On	Description	Part #	Price/E
F602-02	5 micron	EK602VY	\$23.45
F602-03			
F602-02	40 micron	EK602Y	23.45
F602-03			
F602-04	5 micron	EK602VA	36.50
F602-04	40 micron	EK602A	36.50
F602-06	5 micron	EK602VB	62.40
F602-08			
F602-12			
F602-06	40 micron	EK602B	62.40
F602-08			
F602-12			
F602-16	40 micron	EK602G	73.60

Bowls and Sight Glass Repair Kit

polycarbonate bowl
BK602Y

Used On	Description	Part #	Price/E
F602-02	polycarbonate bowl	BK602Y	\$56.60
F602-03			
F602-04	polycarbonate bowl with plastic bowl guard	BK602A	74.35

Auto and Manual Drains

internal auto drain
SA602MD

Used On	Description	Part #	Price/E
F602	internal auto drain	SA602MD	\$60.95
F602	internal auto drain repair kit	RK602MD	28.20
F602	manual drain	SA600Y7-1	4.80

Accessories

mounting bracket
SA200AW57

Used On	Description	Part #	Price/E
F602 compact	mounting bracket	SAF602-0571	\$16.85
F602 standard	mounting bracket	SAF602-0572	25.25
F602 ¾"	mounting bracket (2 required)	SA200AW57	25.55
F602 1"	mounting bracket (2 required)	SA200CW57	25.55

Watts Regulator Accessories

Repair Kits

Used On	Description	Part #	Price/E
R11	relieving diaphragm, valve assembly	RKR10Y	\$38.85
R119-02	relieving diaphragm, valve assembly	RK119Y	41.90
R119-03			
R119-04	relieving diaphragm, valve assembly	RK119A	51.70
R119-06	relieving diaphragm, valve assembly	RK119B	92.50
R119-08			
R119-12	relieving diaphragm, valve assembly	RK119D	95.75
R364-02	relieving diaphragm, valve assembly	RKR164Y	26.85



repair kit
RK119B

E

Accessories

Used On	Description	Part #	Price/E
R11	mounting bracket with panel nut	SAR10Y57	\$13.45
R119-02	mounting bracket	SA15Y57	14.55
R119-03			
R119-04	mounting bracket	18A57	17.00
R119-06	mounting bracket	18B57	43.10
R119-08			
R119-12			
R364-02	mounting bracket with panel nut	SA161X57	12.80



mounting bracket
SAR10Y57



mounting bracket
SA15Y57

Watts Lubricator Accessories

Sight Glass Repair Kit

Used On	Description	Part #	Price/E
L606-06 L606-08 L606-12	sight glass	RKB605WB	\$21.45



sight glass

Accessories

Used On	Description	Part #	Price/E
L606-02 L606-03 L606-04	mounting bracket	PS743	\$17.50
L606-06	mounting bracket (2 required)	SA200AW57	25.55
L606-08	mounting bracket (2 required)	SA200CW57	25.55



mounting bracket
SA200AW57

Dixon Gauges

All of the gauges supplied by Dixon are designed for long, reliable service under rugged conditions. Typical applications include those on pumps, hydraulic and pneumatic systems, compressors, machine tools and many other installations where it is necessary to have a gauge with a non-corrosive movement. The gauges available include standard dry and liquid-filled pressure gauges, compound pressure gauges, vacuum gauges and welding gauges. Materials available include brass, stainless steel and plastic.

Fig. Inter. - Figure Interval. Increments between PSI numbers on gauge face.

Grad. Inter. - Graduation Interval. Fractional increments between PSI numbers on gauge face.

E

Brass Standard Dry Gauges

Features:

- ASME B40.1 Grade B ($\pm 3/2/3\%$ accuracy)
- polished brass case
- polished brass ring

- copper alloy bourdon tube
- dual PSI / kPa scale dial
- ambient temperature range of -40°F to 140°F



2½" face
¼" lower mount

PSI	Fig. Inter.	Grad. Inter.	Part #	Price/E
0-15	3	.2	GBR15	\$52.35
0-30	5	.5	GBR30	52.35
0-60	10	1	GBR60	52.35
0-100	20	2	GBR100	52.35
0-160	20	2	GBR160	52.35
0-200	50	5	GBR200	52.35
0-300	50	5	GBR300	52.35
0-400	100	10	GBR400	52.35
0-600	100	10	GBR600	52.35
0-1000	200	20	GBR1000	61.30
0-1500	300	20	GBR1500	61.30
0-2000	500	50	GBR2000	61.30
0-3000	500	50	GBR3000	61.30
0-5000	1000	100	GBR5000	66.15

Process Gauges

Applications:

Specifically designed for process, chemical and petroleum industries, these process gauges are engineered to deliver years of accurate service while withstanding vibration, corrosive media and corrosive atmosphere.

Features:

- ambient process temperature: dry -40°F to 200°F (-40°C to 93°C)
- case: black impact resistant thermoplastic, with safety blowout back, solid front, integral back flange (dry)
- ring: ethylene propylene
- wetted parts: 316L stainless steel

- window: polycarbonate
- dial: white aluminum
- pointer: black aluminum
- accuracy: $\pm 0.5\%$ ANSI/ASME Grade 2A
- scale: single scale PSI only



4½" face
½" lower mount

PSI	Fig. Inter.	Grad. Inter.	Part #	Price/E
0-30	5	.2	PGS30	\$177.60
0-60	10	.5	PGS60	177.60
0-100	10	1	PGS100	177.60
0-160	20	1	PGS160	177.60
0-200	20	2	PGS200	177.60
0-300	50	2	PGS300	177.60
0-600	10	5	PGS600	177.60
0-1000	100	10	PGS1000	177.60

ABS Standard Dry Gauges

Features:

- ASME B40.1, Grade B (\pm 3-2-3% accuracy)
- ABS plastic case
- c-shaped bronze safety bourdon tube (600 PSI and lower)
- helical wound bronze safety bourdon tube (1000 PSI and higher)
- polycarbonate crystal
- black aluminum pointer
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration and pulsation.
- ambient temperature range of -40°F to 150°F

Center Back Mount

1½" face 1/8" center back mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-30	5	.5	GC605	\$16.70
0-60	5	1	GC610	16.70
0-100	10	2	GC615	16.70
0-160	20	5	GC620	16.70
0-200	20	5	GC625	16.70

2" face 1/4" center back mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	1	.5	GC200	\$22.20
0-30	5	.5	GC215	20.70
0-60	5	1	GC220	20.70
0-100	10	2	GC225	20.70
0-160	20	5	GC230	20.70
0-200	20	5	GC235	20.70
0-300	30	5	GC240	20.70



GC230

Lower Mount

2" face 1/4" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	1	.5	GL100	\$19.20
0-30	5	.5	GL115	17.75
0-60	5	1	GL120	17.75
0-100	10	2	GL125	17.75
0-160	20	5	GL130	17.75
0-200	20	5	GL135	17.75
0-300	30	5	GL140	17.75

2½" face 1/4" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	1	.5	GL300	\$20.40
0-30	5	.5	GL320	18.95
0-60	5	1	GL325	18.95
0-100	10	2	GL330	18.95
0-160	20	5	GL335	18.95
0-200	20	5	GL340	18.95
0-300	30	5	GL345	18.95
0-400	50	10	GL347	18.95
0-600	50	10	GL350	18.95
0-1000	200	20	GL355	28.10
0-1500	300	50	GL360	28.10
0-2000	400	50	GL365	28.10
0-3000	500	100	GL370	28.10
0-5000	1000	100	GL375	28.10



GL140

3½" face 1/4" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	1	.5	GS15-4	\$28.10
0-30	5	.5	GS30-4	26.60
0-60	5	1	GS60-4	26.60
0-100	10	2	GS100-4	26.60
0-160	20	5	GS160-4	26.60
0-200	20	5	GS200-4	26.60
0-300	30	5	GS300-4	26.60
0-400	50	10	GS400-4	26.60
0-600	50	10	GS600-4	26.60
0-1000	200	20	GS1000-4	36.95

Contractor Pressure Gauges

Features:

- accuracy class: $\pm 1\%$ of span
- material of wetted parts: copper alloy
- window: acrylic, snap in



4277768-0001

- dial: aluminum, white
- pointer: aluminum, black, adjustable
- mounting flange/bracket: rear flange, stainless steel
- stainless steel case

4½" face

¼" lower mount

PSI	Part #	Price/E
0-15	4277750-0001	\$71.60
0-30	4277768-0001	71.60
0-60	4277776-0003	71.60

FlutterGuard™ Dry Gauges

FlutterGuard™ virtually eliminates pointer flutter, making the gauge easier to read and reducing excessive movement wear. Liquid-free casing results in lighter weight and eliminates the chance of gauge leakage.

Features:

- ASME B40.1, Grade B ($\pm 3-2-3\%$ accuracy)
- ABS plastic case
- C-shaped bronze safety bourdon tube (600 PSI and lower)
- helical wound bronze safety bourdon tube (1000 PSI and higher)
- polycarbonate crystal
- black aluminum pointer
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration and pulsation.



GL350FG

- ambient temperature range of -40°F to 150°F

2½" face

¼" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	1	.5	GL300FG	\$22.20
0-30	5	.5	GL320FG	20.70
0-60	5	1	GL325FG	20.70
0-100	10	2	GL330FG	20.70
0-160	20	5	GL335FG	20.70
0-200	20	5	GL340FG	20.70
0-300	30	5	GL345FG	20.70
0-400	50	10	GL347FG	20.70
0-600	50	10	GL350FG	20.70
0-1000	200	20	GL355FG	29.85
0-1500	300	50	GL360FG	29.85
0-2000	400	50	GL365FG	29.85
0-3000	500	100	GL370FG	29.85
0-5000	1000	100	GL375FG	29.85

All Stainless Panel Builder Gauges

Features:

- suitable for corrosive environments
- used in gaseous and liquid media
- ASME B40.100 Grade A 2½" full scale accuracy
- 316L stainless steel wetted parts materials
- ambient temperature range of -4°F to 140°F
- media temperature 212°F maximum
- dial - white aluminum with black lettering; stop pin
- pointer - black aluminum
- glycerin filled case
- laminated safety glass window lens

- fits industry standard 2.56" panel hole cutout

2½" face

¼" lower back mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	PBLSS15	\$151.60
0-30	5	.5	PBLSS30	151.60
0-60	10	1	PBLSS60	151.60
0-100	20	2	PBLSS100	151.60
0-160	20	2	PBLSS160	151.60
0-200	50	5	PBLSS200	151.60
0-300	50	5	PBLSS300	151.60
0-400	100	10	PBLSS400	151.60
0-600	100	10	PBLSS600	151.60
0-800	200	20	PBLSS800	151.60
0-1000	200	20	PBLSS1000	151.60
0-1500	300	20	PBLSS1500	151.60
0-2000	500	50	PBLSS2000	151.60
0-3000	500	50	PBLSS3000	151.60
0-5000	1000	100	PBLSS5000	151.60



PBLSS200

All Stainless Steel Dry Gauges

Applications:

Stainless steel gauges provide the corrosion resistance and durability of a permanently sealed gauge. Designed for severe service applications.

¼" lower mount

2½" face

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	GSS15	\$104.15
0-30	5	.5	GSS30	104.15
0-60	10	1	GSS60	104.15
0-100	20	2	GSS100	104.15
0-160	20	2	GSS160	104.15
0-200	50	5	GSS200	104.15
0-300	50	5	GSS300	104.15
0-400	100	10	GSS400	104.15
0-600	100	10	GSS600	104.15
0-1000	200	20	GSS1000	104.15
0-1500	300	20	GSS1500	115.30
0-2000	500	50	GSS2000	115.30
0-3000	500	50	GSS3000	115.30
0-5000	1000	100	GSS5000	115.30
0-10000	2000	200	GSS10000	119.00

Features:

- 2-1-2% accuracy
- 304 series stainless case with stainless crimp ring
- polycarbonate window
- ¼" lower mount stainless connector
- 316 stainless bourdon tube and socket
- ambient temperature range: **-40°F to 140°F**



GSS100

¼" lower mount

3½" face

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.5	GSS15-4	\$164.00
0-30	5	.5	GSS30-4	164.00
0-60	10	1	GSS60-4	164.00
0-100	20	2	GSS100-4	164.00
0-160	20	2	GSS160-4	164.00
0-200	40	5	GSS200-4	164.00
0-300	50	5	GSS300-4	164.00
0-400	50	10	GSS400-4	164.00
0-600	100	10	GSS600-4	164.00
0-1000	200	10	GSS1000-4	164.00
0-1500	200	20	GSS1500-4	164.00
0-2000	400	20	GSS2000-4	164.00
0-3000	500	50	GSS3000-4	164.00
0-5000	1000	100	GSS5000-4	164.00
0-10000	2000	200	GSS10000-4	179.50

Features:

- 3-2-3% accuracy
- 316 series stainless solid back case
- polycarbonate window
- ¼" lower mount stainless connector
- 316 stainless bourdon tube and socket, polyester segment
- ambient temperature range of **-40°F to 140°F**



GSS160-4

All Stainless Steel Liquid Filled Gauges

Applications:

Stainless steel gauges provides the corrosion resistance and durability of a permanently sealed gauge. Designed for severe service applications.

2½" face
¼" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	GLSS15	\$112.40
0-30	5	.5	GLSS30	112.40
0-60	10	1	GLSS60	112.40
0-100	20	2	GLSS100	112.40
0-160	20	2	GLSS160	112.40
0-200	50	5	GLSS200	112.40
0-300	50	5	GLSS300	112.40
0-400	100	10	GLSS400	112.40
0-600	100	10	GLSS600	112.40
0-1000	200	20	GLSS1000	112.40
0-1500	300	20	GLSS1500	112.40
0-2000	500	50	GLSS2000	112.40
0-3000	500	50	GLSS3000	112.40
0-5000	1000	100	GLSS5000	112.40
0-10000	2000	200	GLSS10000	112.40

Features:

- 2-1-2% accuracy
- 2½" 304 series stainless case with stainless crimp ring
- polycarbonate window
- ¼" lower mount stainless connector
- 304 stainless case with stainless crimp ring
- glycerin filled
- ambient temperature range of **-4°F to 140°F**



GLSS1500

All Stainless Steel Liquid Filled Gauges

Applications:

Stainless steel gauges provides the corrosion resistance and durability of a permanently sealed gauge. Designed for severe service applications.

Features:

- 2-1-2% accuracy
- 2½" 304 series stainless case with stainless crimp ring
- polycarbonate window

- ¼" center back mount stainless connector
- 304 stainless case with stainless crimp ring
- glycerin filled
- ambient temperature range of -4°F to 140°F



GLSSC160

2½" face
¼" center back mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-100	20	2	GLSSC100	\$151.00
0-160	20	2	GLSSC160	151.00
0-200	50	5	GLSSC200	151.00

Brass Liquid Filled Gauges

Features:

- 2-1-2% accuracy on 2½"; 1% accuracy on 4"
- acrylic window with membrane assembly
- copper alloy bourdon tube
- brass movement with highly polished bearing surfaces
- glycerin filled
- ambient temperature range of -4°F to 140°F

- 2½" face gauges have solid cast brass case with polished brass slip-fit ring
- 4" face gauges have cast brass, silver painted case with chrome plated brass ring



GLBR200-4

2½" face
¼" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	GLBR15	\$115.60
0-30	5	.5	GLBR30	115.60
0-60	10	1	GLBR60	115.60
0-100	20	2	GLBR100	115.60
0-160	20	2	GLBR160	115.60
0-200	50	5	GLBR200	115.60
0-300	50	5	GLBR300	115.60
0-400	100	10	GLBR400	115.60
0-600	100	10	GLBR600	115.60
0-1000	300	20	GLBR1000	115.60
0-1500	500	20	GLBR1500	128.60
0-2000	500	50	GLBR2000	128.60
0-3000	1000	50	GLBR3000	128.60
0-5000	1000	100	GLBR5000	128.60

2½" face
¼" center back mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	GLBRC15	\$134.00
0-30	5	.5	GLBRC30	121.15
0-60	10	1	GLBRC60	121.15
0-100	20	2	GLBRC100	121.15
0-160	20	2	GLBRC160	121.15
0-200	50	5	GLBRC200	121.15
0-300	50	5	GLBRC300	121.15
0-400	100	10	GLBRC400	121.15
0-600	100	10	GLBRC600	121.15
0-1000	300	20	GLBRC1000	121.15
0-1500	500	20	GLBRC1500	134.00
0-2000	500	50	GLBRC2000	134.00
0-3000	1000	50	GLBRC3000	134.00
0-5000	1000	100	GLBRC5000	134.00

4" face
½" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	GLBR15-4	\$294.85
0-30	5	.5	GLBR30-4	294.85
0-60	10	1	GLBR60-4	294.85
0-100	10	1	GLBR100-4	294.85
0-160	20	2	GLBR160-4	294.85
0-200	20	2	GLBR200-4	294.85
0-300	50	5	GLBR300-4	294.85
0-400	50	5	GLBR400-4	294.85
0-600	100	10	GLBR600-4	294.85
0-1000	100	10	GLBR1000-4	294.85
0-1500	300	20	GLBR1500-4	321.60
0-2000	200	20	GLBR2000-4	321.60
0-3000	500	50	GLBR3000-4	321.60
0-5000	500	50	GLBR5000-4	321.60
0-10000	1000	100	GLBR10000-4	440.60

Liquid Filled Stainless Case Gauges

Features:

- copper alloy bourdon tube
- white aluminum dial with black numbers and black aluminum pointer
- PowerFlex™ movement with polyester segment designed to resist the effects of shock, vibration and pulsation.
- 1/4" NPT brass connection
- glycerin liquid fill
- polycarbonate window
- ambient temperature range -4°F to 140°F
- ASME B40.100, Grade A (± 2-1-2% accuracy)

2½" face
¼" center back mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	<i>GLSC400</i>	\$56.20
0-30	5	.5	<i>GLSC405</i>	56.20
0-60	10	1	<i>GLSC410</i>	56.20
0-100	20	2	<i>GLSC415</i>	56.20
0-160	20	2	<i>GLSC417</i>	56.20
0-200	50	5	<i>GLSC420</i>	56.20
0-300	50	5	<i>GLSC425</i>	56.20
0-400	100	10	<i>GLSC427</i>	56.20
0-600	100	10	<i>GLSC430</i>	56.20
0-1000	200	20	<i>GLSC435</i>	56.20
0-1500	300	20	<i>GLSC440</i>	62.10
0-2000	500	50	<i>GLSC445</i>	62.10
0-3000	500	50	<i>GLSC450</i>	62.10
0-5000	1000	100	<i>GLSC455</i>	62.10

2½" face
¼" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	<i>GLS400</i>	\$45.50
0-30	5	.5	<i>GLS405</i>	45.50
0-60	10	1	<i>GLS410</i>	45.50
0-100	20	2	<i>GLS415</i>	45.50
0-160	20	2	<i>GLS417</i>	45.50
0-200	50	5	<i>GLS420</i>	45.50
0-300	50	5	<i>GLS425</i>	45.50
0-400	100	10	<i>GLS427</i>	45.50
0-600	100	10	<i>GLS430</i>	45.50
0-1000	200	20	<i>GLS435</i>	45.50
0-1500	300	20	<i>GLS440</i>	50.90
0-2000	500	50	<i>GLS445</i>	50.90
0-3000	500	50	<i>GLS450</i>	50.90
0-5000	1000	100	<i>GLS455</i>	50.90



GLSC420



GLS430

Liquid Filled ABS Case Gauges

2½" face
¼" lower mount

PSI	Fig. Inter.	Minor Grad.	Part #	Price/E
0-15	3	.2	<i>GLP500</i>	\$35.25
0-30	5	.5	<i>GLP505</i>	35.25
0-60	10	1	<i>GLP510</i>	35.25
0-100	20	2	<i>GLP515</i>	35.25
0-160	20	2	<i>GLP517</i>	35.25
0-200	50	5	<i>GLP520</i>	35.25
0-300	50	5	<i>GLP525</i>	35.25
0-400	100	10	<i>GLP527</i>	35.25
0-600	100	10	<i>GLP530</i>	35.25
0-1000	200	20	<i>GLP535</i>	40.10
0-1500	300	20	<i>GLP540</i>	40.10
0-2000	500	50	<i>GLP545</i>	40.10
0-3000	500	50	<i>GLP550</i>	40.10
0-5000	1000	100	<i>GLP555</i>	40.10

- ASME B40.100, Grade B (± 3-2-3% accuracy)



GLP550

Compound Gauges

Features:

- ASME B40.1, Grade B accuracy ($\pm 3-2-3$ % accuracy)
- ABS plastic case
- bronze bourdon tube / brass socket
- polycarbonate crystal



GL310

- black aluminum pointer
- brass movement with polyester segment, designed for extended wear
- ambient temperature range of -40°F to 150°F

2½" face ¼" center back mount

Mercury (Hg)	PSI	Fig. Inter. Hg / PSI	Min.Grad. Hg / PSI	Part #	Price/E
30"	0-160	30 / 20	5 / 5	GC210	\$29.25

2½" face ¼" lower mount

Mercury (Hg)	PSI	Fig. Inter. Hg / PSI	Min.Grad. Hg / PSI	Part #	Price/E
30"	0-100	30 / 10	5 / 2	GL310	\$20.40
30"	0-160	30 / 20	10 / 10	GL110	20.40
30"	0-200	30 / 20	10 / 10	GL315	20.40

E

Vacuum Gauges

Features:

- ASME B40.1, Grade B accuracy ($\pm 3-2-3$ % accuracy)
- ABS plastic case
- bronze bourdon tube
- polycarbonate crystal
- black aluminum pointer



GL105

- brass movement with polyester segment, designed for extended wear
- ambient temperature range of -40°F to 150°F

2" face - ¼" lower mount

Mercury (Hg)	Fig. Inter. Hg / PSI	Min.Grad. Hg / PSI	Part #	Price/E
30"	5"	.5"	GL105	\$19.20

2" face - ¼" center back mount

Mercury (Hg)	Fig. Inter. Hg / PSI	Min.Grad. Hg / PSI	Part #	Price/E
30"	5"	.5"	GC205	\$22.20

2½" face - ¼" lower mount

Mercury (Hg)	Fig. Inter. Hg / PSI	Min.Grad. Hg / PSI	Part #	Price/E
30"	5"	.5"	GL305	\$20.40

Brass Welding Gauges

Features:

- 3-2-3% accuracy according to ASME B40.100 Grade B
- polished drawn brass case
- twist-lock polycarbonate window
- copper alloy bourdon tube



GBRW4000

- "Use no oil" in red on face
- temperature range: -40°F to 140°F

2½" face ¼" lower mount

PSI	Fig. Inter. Hg / PSI	Min.Grad. Hg / PSI	Part #	Price/E
0-30	5	.5	GBRW30	\$61.50
0-30	5	.5	GBRW30R¹	61.50
0-60	10	1	GBRW60	61.50
0-100	20	2	GBRW100	61.50
0-200	50	5	GBRW200	61.50
0-400	100	10	GBRW400	61.50
0-600	100	10	GBRW600	61.50
0-4000	1000	100	GBRW4000	64.75

¹ Red band between 15 to 30 PSI on GBRW30R

Bi-Metal Thermometers

Features:

- case: sturdy, corrosion resistant series 304 stainless steel case and bezel
- crystal: optically clear, strong glass, gasketed to maintain weather-tight integrity is standard
- stem: 304 series stainless steel, welded at tip and case connector to prevent leakage, 1/4" (6.35 mm) diameter is standard
- hermetic seal: hermetically sealed per ASME B40.3 external reset: slotted-hex adjustment head offers screwdriver or wrench use to field calibrate the thermometer
- bi-metal element: an extremely responsive temperature sensing helix which has been carefully sized and tested, heat treated and aged to relieve inherent stresses and insure continued accuracy
- dampening: bi-metal helix is coated with a viscous silicone to minimize pointer oscillation and to improve temperature transmission
- immersion: for accurate temperature readings, immerse stem a minimum of 2" (50 mm) in agitated liquids or 4" (100 mm) in moving air or gas
- over range: temporary over or under range of 50% of scale up to 260°C or 500°F will not affect the instrument accuracy
- accuracy: guaranteed to be accurate to within 1% of full scale (Grade A per ASME B40.3) (The American Society of Mechanical Engineers issued a new standard for Bi-Metal Thermometers in 1990 referred to as ASME B40.3.) Standard Connection is 1/2" male NPT

E

Model 30 Back Connected 3" Face

Stem Length	Range	Part #	Price/E
2½"	0-250°F/-20-120°C	30025064	\$60.15
2½"	50-500°F/10-260°C	30025104	60.15
4"	0-250°F/-20-120°C	30040064	60.15
4"	50-500°F/10-260°C	30040104	60.15
6"	0-250°F/-20-120°C	30060064	60.15
6"	50-500°F/10-260°C	30060104	60.15
9"	0-250°F/-20-120°C	30090064	60.15
9"	50-500°F/10-260°C	30090104	60.15



Model 31 Bottom Connected 90° Angle 3" Face

Stem Length	Range	Part #	Price/E
2½"	0-250°F/-20-120°C	31025064	\$119.70
4"	50-500°F/10-260°C	31040104	119.70



Model 50 Back Connected 5" Face

Stem Length	Range	Part #	Price/E
2½"	50-500°F/10-260°C	50025104	\$133.45
4"	0-250°F/-20-120°C	50040064	133.45



Model 52 Adjustable Angle 5" Face

Stem Length	Range	Part #	Price/E
2½"	0-250°F/-20-120°C	52025064	\$181.05
4"	0-250°F/-20-120°C	52040064	193.35
4"	50-500°F/10-260°C	52040104	193.35



Bi-Metal Pocket Thermometers



E

Features:

- case: 304 stainless steel case, hermetically sealed
- crystal: extra heavy polycarbonate crystal
- stem: 304 series stainless steel
- external reset: hex nut on back of case
- bi-metal element: responsive actuation by bi-metal helix
- dampening: bi-metal helix is coated with a viscous silicone to minimize pointer oscillation
- scale length: approximately 2-1/8" (54mm)
- accuracy: 1%
- carrying case: polyethylene case with clip

Range	Part #	Price/E
0-220°F	PT220	\$21.80
50-550°F	PT550	21.80

Magnetic Surface Mount Thermometers

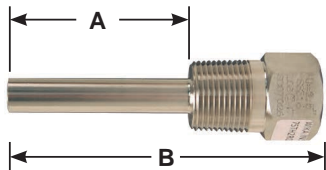

Features:

- case: steel, 2" x 1/2"
- dial: polished aluminum
- bi-metal element: responsive actuation by bi-metal helix
- accuracy: ± 2%

2" Face

Range	Part #	Price/E
0-250°F	MT250	\$42.40
0-500°F	MT500	42.40

316 Stainless Steel Threaded Thermowells



- 3/4" male NPT process connection

'A' dimension	'B' dimension	Part #	Price/E
1-5/8"	2-1/2"	75TH2R015SS	\$105.95
2-1/2"	4"	75TH2R025SS	85.40
4-1/2"	6"	75TH2R045SS	132.10
7-1/2"	9"	75TH2R075SS	156.25

180° Steam Gauge Siphons

Application:

In steam service, the siphon will prevent hot steam from entering a pressure gauge, diaphragm seal or transmitter.



Recommended for applications involving temperatures above 100°F (37°C). Also use siphons whenever condensing hot vapors (not just steam) are present.



401-01

Features:

- red brass pipe
- complies with ASTM B-43
- withstands pressure of **200 PSI at 406°F**

Male IPS	Red Brass	
	Part #	Price/E
1/4"	401-01	\$33.25

Features:

- steel pipe
- 1/4" NPT schedule 40 steel, welded
- suitable for **175 PSI at 340°F**

male IPS	Steel	
	Part #	Price/E
1/4"	401-01S	\$14.25

General Purpose Digital Gauges

Applications:

General purpose digital gauges are suitable not only for dry air applications but other media as well. Gauge offers selectable units of measure so rather than purchasing one gauge for each unit of measure required, the solution is one gauge for multiple units of measure.

Features:

- operating temperature: **14°F to 140°F** ((-10°C to 60°C)
- case: Noryl (thermoplastic)
- wetted parts: 17-4 PH stainless steel sensor with 316 stainless steel socket
- batteries included: two AAA Alkaline
- 9 engineering units (accessed through keypad): PSI, in. HG, cm Hg, mm Hg, KPA, Mpa, BAR, KG/cm2, ft H2O
- accuracy $\pm 0.5\%$ ASME B40.7
- window: polycarbonate
- dial: white aluminum
- pointer: black aluminum
- ideal for test applications and for use in technicians tool kits

2½" face
¼" lower mount

PSI	Part #	Price/E
0-30	DG30	\$877.00
0-60	DG60	877.00
0-100	DG100	877.00
0-200	DG200	877.00
0-300	DG300	877.00
0-1000	DG1000	877.00
0-10,000	DG10000	877.00



E

King Combination Nipples

⚠ WARNING

- Combination nipples are recommended for low-pressure discharge and suction service for compatible liquids. **They are not for compressible products such as air or nitrogen on sizes 1¼" and above.**
- **King Combination Nipples are not recommended for steam.**
- *The working pressure may vary with the construction of the hose, the type of clamping system used and the application. Consult the factory for recommendations.*
- In accordance with the R.M.A. bulletin for oil suction and discharge hose, a coupled length of hose in any size, should be tested to 1½ times the working pressure and held for fifteen minutes without leaking or coupling movement. For additional information and detailed instruction on testing procedures, see the Rubber Manufacturers Association (R.M.A.) handbook.

F

knurled wrench grip

NPT threaded end with knurled wrench grip

Size	Opt Qty	Unplated Steel		Plated Steel		Brass		Aluminum	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	50	ST1	\$4.60	STC1	\$4.95	BST1	\$19.75	AST1	\$19.30
¾"	50	ST5	5.35	STC5	5.45	BST5	30.00	AST5	14.70
1"	50	ST10	6.65	STC10	7.15	BST10	32.25	AST10	17.70
1¼"	50	ST15	9.35	STC15	10.05	---	---	---	---
1½"	50	ST20	9.65	STC20	10.20	---	---	---	---
2"	25	ST25	11.85	STC25	12.60	---	---	---	---

NPT threaded end no knurl



no knurl brass

Size	Opt Qty	Unplated Steel		Plated Steel		Brass		Aluminum	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1¼"	50	---	---	---	---	BST15	\$34.70	AST15	\$16.85
1½"	50	---	---	---	---	BST20	43.45	AST20	17.30
2"	25	---	---	---	---	BST25	64.75	AST25	19.55
2½"	10	ST30	\$19.50	STC30	\$21.30	BST30	103.50	AST30	59.00
3"	10	ST35	22.55	STC35	26.05	BST35	140.75	AST35	47.00
4"	4	ST40	35.70	STC40	39.25	BST40	277.00	AST40	72.60
5"	4	ST50	84.10	STC50	89.25	---	---	AST50	164.85
6"	2	ST60	93.10	STC60	105.00	---	---	AST60	178.50
8"	2	ST80	157.80	STC80	202.80	---	---	---	---
10"	1	ST100	267.50	STC100	337.50	---	---	---	---
12"	1	ST120	373.10	STC120	480.00	---	---	---	---



no knurl stainless

Size	Opt Qty	316 Stainless Steel		Hastelloy	
		Part #	Price/E	Part #	Price/E
½"	50	RST1 ¹	\$21.10	---	---
¾"	50	RST5 ¹	21.15	---	---
1"	50	RST10	21.25	---	---
1¼"	50	RST15	27.10	---	---
1½"	50	RST20	32.60	---	---
2"	25	RST25	45.00	HST25	\$780.00
2½"	10	RST30	82.75	---	---
3"	10	RST35	117.40	HST35	1670.00
4"	4	RST40	184.20	---	---
5"	4	RST50	405.00	---	---
6"	4	RST60	508.20	---	---
8"	2	RST80	975.00	---	---

¹ made from investment casting

King Combination Nipples

Grooved end

Features:

- Grooved and beveled ends (in *brass* and *aluminum*) are available in select sizes. Consult Dixon for prices and availability.
- See pages 630-635 for our complete line of groove style fittings.

Size	Unplated Steel			316 Stainless Steel		
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
1"	STV10	\$9.30	50	---	---	---
1¼"	STV15	12.60	50	---	---	---
1½"	STV20	12.60	50	RSTV20	\$46.65	50
2"	STV25	12.40	25	RSTV25	50.50	25
2½"	STV30	22.90	10	---	---	---
3"	STV35	25.80	10	RSTV35	144.20	10
4"	STV40	35.40	5	RSTV40	193.65	5
5"	STV50	82.85	4	---	---	---
6"	STV60	102.00	2	---	---	---
8"	STV80	176.80	2	---	---	---
10"	STV100	317.20	1	---	---	---
12"	STV120	455.40	1	---	---	---

**F**

Beveled end

Size	Unplated Steel			316 Stainless Steel			Aluminum	
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty	Part #	Price/E
½"	STB1	\$6.15	50	---	---	---	---	---
¾"	STB5	7.85	50	RSTB5	\$27.00	50	---	---
1"	STB10	8.95	50	RSTB10	24.60	50	ASTB10	\$18.90
1¼"	STB15	11.25	50	RSTB15	38.55	50	ASTB15	22.60
1½"	STB20	10.90	50	RSTB20	33.20	50	ASTB20	25.20
2"	STB25	12.65	25	RSTB25	52.90	25	ASTB25	34.50
2½"	STB30	21.20	10	RSTB30	96.30	10	ASTB30	POR
3"	STB35	26.05	10	RSTB35	108.85	10	ASTB35	72.50
4"	STB40	37.15	5	RSTB40	181.30	5	ASTB40	83.20
5"	STB50	89.25	4	---	---	---	ASTB50	260.00
6"	STB60	95.60	2	RSTB60	492.50	---	ASTB60	245.00
8"	STB80	175.00	2	RSTB80	980.00	---	ASTB80	POR
10"	STB100	308.30	1	---	---	---	ASTB100	POR
12"	STB120	435.00	1	---	---	---	---	---



BSPT end

Size	Plated Steel			316 Stainless Steel		
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
1"	STC10A	\$7.10	50	RST10A	\$21.50	50
1¼"	STC15A	10.40	50	RST15A	26.80	50
1½"	STC20A	10.60	50	RST20A	34.00	50
2"	STC25A	13.15	50	RST25A	45.00	25
2½"	STC30A	22.75	10	RST30A	80.00	10
3"	STC35A	26.10	10	RST35A	118.00	10
4"	STC40A	39.75	4	RST40A	183.00	4
6"	STC60A	109.85	2	RST60A	505.00	2



NPT end with knurled wrench grip - for plastic pipe

Size	Plated Steel		Opt Qty
	Part #	Price/E	
½"	SAP1	\$9.00	50
¾"	SAP6	14.65	50
1"	SAP11	13.00	50
1¼"	SAP16	15.30	50
1½"	SAP21	15.60	50
2"	SAP26	16.90	25



External Swage Notched NOS Stems and Ferrules

⚠ WARNING

- The notched system allows you to better manage your inventories. You can stock one stem and two ferrules, and cover the same hose range with less inventory. *You must purchase a fitting and the matching ferrule to create an assembly.*

Features:

- For hose outside diameters of 2-4/64" and below, *the couplings are crimp only.*
- For hose outside diameters of 2-5/64" and above, the couplings can be crimped or swaged.
- See page 57 for cam and groove style notched NOS fittings.

F



STC200NOS



RST200NOS



⚠ Only use the NOS shank with the NOS ferrules.
Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.

stems

Size	PSI	Plated Carbon Steel		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
1½"	250	STC150NOS	\$24.00	RST150NOS	\$45.40
2"	250	STC200NOS	28.25	RST200NOS	53.30
3"	250	STC300NOS	51.00	RST300NOS	119.60
4"	*	STC400NOS	64.50	RST400NOS	178.00

* Contact factory for pressure information

ferrules

Size	Hose OD		Carbon Steel		304 Stainless Steel	
	From:	To:	Part #	Price/E	Part #	Price/E
1½"	1-60/64"	2-12/64"	CAS2334NOS	\$17.55	GAS2334NOS	\$31.90
1½"	2-4/64"	2-22/64"	CAS2370NOS	17.55	GAS2370NOS	34.50
2"	2-30/64"	2-44/64"	CAS2709NOS	24.10	GAS2709NOS	31.50
2"	2-42/64"	2-54/64"	CAS2885NOS	23.30	GAS2885NOS	64.40
3"	3-30/64"	3-46/64"	CAS3760NOS	34.60	GAS3760NOS	46.35
3"	3-47/64"	3-54/64"	CAS3885NOS	36.55	GAS3885NOS	63.00
4"	4-40/64"	4-47/64"	CAS5010NOS	59.60	GAS5010NOS	235.00

Jump Size King Combination Nipples

hose shank x NPT threaded end



reducer



increaser

Hose Shank	Male NPT	Plated Steel		304 Stainless Steel	
		Part #	Price/E	Part #	Price/E
¾"	½"	---	---	RST0501	\$34.00
¾"	1"	STC0510	\$11.50	RST0510	44.85
1"	¾"	STC1005	8.40	RST1005	32.10
1"	1¼"	STC1015	16.50	RST1015	57.75
1¼"	1"	STC1510	11.00	RST1510	72.00
1¼"	1½"	STC1520	13.85	RST1520	78.00
1½"	1¼"	STC2015	11.70	RST2015	83.20
1½"	2"	STC2025	17.10	RST2025	97.10
1¾"	2"	STC175200	24.30	---	---
2"	1½"	STC2520	22.70	RST2520	96.15
2"	2½"	STC2530	36.90	---	---
2"	3"	STC2535	54.90	RST2535	122.60
2½"	2"	STC3025	32.95	---	---
2½"	3"	STC3035	38.85	---	---
3"	2"	STC3525	63.45	RST3525	143.85
3"	2½"	STC3530	43.55	---	---
3"	4"	STC3540	79.45	---	---
4"	3"	STC4035	88.20	---	---

PF Shank King Combination Nipples

- PF shank King Combination nipples have the same shank pattern as found on the PF style cam and groove fittings sold on page 54. This shank design was developed specifically for chemical transport hoses having Crosslinked Polyethylene (XLPE) or Ultra High Molecular Weight Polyethylene (UHMW) tubes, where shank retention can be a problem when using conventional band clamps.



- recommended for discharge and suction service

- Not intended for compressed air**

- working pressure is given at 70°F maximum

- The working pressure may vary with the construction of the hose, the type of clamping system used and the application. Consult the factory for recommendations.

NPT end

Size	Working PSI	Plated Steel		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
2"	250	ST25PF	\$37.80	RST25PF	\$67.15
3"	125	ST35PF	44.95	RST35PF	168.70
4"	100	ST40PF	64.10	RST40PF	175.00
6"	75	ST60PF	140.00	RST60PF	425.00

Note: Beveled ends for welding are also available. Contact the factory for further information.


F

Tuff-Lite King Combination Nipples

NPT end

Size	Polypropylene		Opt Qty
	Part #	Price/E	
½"	PPN44 ¹	\$0.72	50
¾"	PPN66 ¹	0.93	50
1"	PPN88 ¹	1.49	25
1½"	HB150	4.55	25
2"	HB200	5.60	24
3"	HB300	16.10	10
4"	HB400	36.35	---

¹ sold in package quantities only

NPT end

Size	Nylon		Opt Qty
	Part #	Price/E	
1¼"	THN15	\$6.50	25
1½"	THN20	7.05	25
2"	THN25	10.70	25
3"	THN35	24.25	10



PPN



HB



THN

Flanged King Combination Nipples

150# ASA flange x hose shank



Size	Steel				316 Stainless Steel			
	Standard		Designed for crimp sleeves or ferrules		Standard		Designed for crimp sleeves or ferrules	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1½"	FST20	\$96.25	FST20CS	\$98.00	RFST20	\$250.00	RFST20CS	\$280.00
2"	FST25	92.30	FST25CS	98.00	RFST25	296.40	RFST25CS	310.00
3"	FST35	133.75	FST35CS	142.00	RFST35	431.00	RFST35CS	480.00
4"	FST40	169.50	FST40CS	182.20	RFST40	573.00	RFST40CS	655.00
6"	FST60	295.00	FST60CS	310.00	RFST60	967.50	RFST60CS	1165.00
8"	FST80	530.00	---	---	RFST80	1660.00	---	---
10"	FST100	787.95	---	---	RFST100	3502.00	---	---
12"	FST120	1130.00	---	---	RFST120	4630.00	---	---

F

Notched Turned Back Nipples

Features:

- When used with an appropriate notched ferrule, these fittings can be swaged or crimped onto hose, thereby providing improved shank retention.
- When used with double bolt or band clamps, notched turned back nipples will provide shank retention similar to that of the King turned back nipples.
- Notched turned back nipples let you use the same ferrules used with the notched (NO) cam and groove on page 56. This lets you *maximize your inventory usage and reduce costs*.
You must purchase a fitting and the matching ferrule to create an assembly.
- Stems are for use with lap joint flanges on page 612.

stems

Size	Carbon Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	N150NO	\$31.50	RN150NO	\$80.60
2"	N200NO	35.55	RN200NO	92.70
2½"	N250NO	55.00	RN250NO	125.00
3"	N300NO	84.25	RN300NO	162.00
4"	N400NO	141.10	RN400NO	248.25



ferrules

Size	Hose OD		304 Stainless Steel	
	From:	To:	Part #	Price/E
1½"	1-60/64"	2-12/64"	GAS2334NO	\$34.80
1½"	2-4/64"	2-22/64"	GAS2370NO	37.20
2"	2-30/64"	2-44/64"	GAS2709NO	31.80
2"	2-42/64"	2-54/64"	GAS2885NO	66.25
2½"	2-54/64"	3"	GAS3012NO	64.50
2½"	3-1/64"	3-13/64"	GAS3260NO	68.80
3"	3-30/64"	3-46/64"	GAS3760NO	45.40
3"	3-47/64"	3-54/64"	GAS3885NO	62.10
4"	4-40/64"	4-47/64"	GAS5010NO	258.75



Note: Stems are for use with lap joint flanges on page 612.

- * Special pushers required:
- 1½" stem - RN150NOPUSH
 - 2" stem - RN200NOPUSH
 - 2½" stem - RN250NOPUSH
 - 3" stem - RN300NOPUSH
 - 4" stem - RN400NOPUSH



Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.

King Steel Round Nipples



for one clamp

Hose Size	NPT Size	Unplated Steel		Opt Qty
		Part #	Price/E	
5/8"	1/2"	KRN541	\$12.00	100
3/4"	1/2"	KRN641	9.70	50
1"	3/4"	KRN861	12.85	50



for two clamps

Hose Size	NPT Size	Unplated Steel		Opt Qty
		Part #	Price/E	
1/2"	1/4"	KRN422	\$16.45	100
1/2"	3/8"	KRN432	11.30	100
5/8"	1/2"	KRN542	16.95	100
3/4"	1/2"	KRN642	13.65	50
3/4"	3/4"	KRN662	17.20	50
1"	3/4"	KRN862	12.85	50
1"	1"	KRN882	18.50	50
1-1/4"	1"	KRN1082	13.00	25
1-1/2"	1-1/4"	KRN1210	17.55	25
2"	1-1/2"	KRN1612	47.20	20

F

King Steel Hex Nipples



for one clamp

Hose Size	NPT Size	Plated Steel		Opt Qty
		Part #	Price/E	
1/4"	1/4"	KHN221	\$12.65	100
3/8"	1/4"	KHN321	10.75	100
3/8"	3/8"	KHN331	10.10	100
3/8"	1/2"	KHN341	13.15	100
1/2"	1/4"	KHN421	12.85	50
1/2"	3/8"	KHN431	13.60	50
1/2"	1/2"	KHN441	9.90	50
1/2"	3/4"	KHN461	12.75	50
3/4"	1/2"	KHN641	14.80	50
3/4"	3/4"	KHN661	14.75	50
1"	3/4"	KHN861	17.80	50
1"	1"	KHN881	18.65	25



for two clamps

Hose Size	NPT Size	Plated Steel		Opt Qty
		Part #	Price/E	
1/4"	1/4"	KHN222	\$18.05	100
3/8"	1/4"	KHN322	15.90	100
3/8"	3/8"	KHN332	15.30	100
3/8"	1/2"	KHN342	19.60	100
1/2"	1/4"	KHN422	16.70	100
1/2"	3/8"	KHN432	14.60	100
1/2"	1/2"	KHN442	14.55	50
1/2"	3/4"	KHN462	19.05	50
3/4"	1/2"	KHN642	15.40	50
3/4"	3/4"	KHN662	14.75	50
1"	3/4"	KHN862	20.95	50
1"	1"	KHN882	22.35	25

King Short Shank Suction Couplings, NPSM Thread



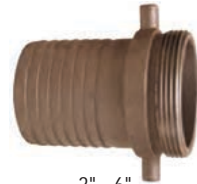
complete with NPSM thread



female with NPSM thread



1" - 2½"



3" - 6"

male with NPSM thread

F

Size	Aluminum shanks with Brass nut		Pkg Qty	Aluminum shank with Brass nut		Aluminum	
	Complete Part #	Price/E		Female Part #	Price/E	Male Part #	Price/E
1½"	CAB150	\$13.90	60	FAB150	\$9.45	MA150	\$4.15
2"	CAB200	20.50	40	FAB200	14.10	MA200	5.25
2½"	CAB250	37.30	30	FAB250	24.25	MA250	11.65
3"	CAB300	42.90	18	FAB300	27.00	MA300	13.85
4"	CAB400	85.00	8	FAB400	59.25	MA400	27.20
6"	CAB600	178.00	6	FAB600	118.00	MA600	52.00

Size	Brass shanks with Brass nut		Brass shank with Brass nut		Brass	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1¼"	CBB125	\$36.00	FBB125	\$20.50	MB125	\$19.20
1½"	CBB150	38.70	FBB150	24.10	MB150	18.10
2"	CBB200	55.00	FBB200	32.40	MB200	26.50
2½"	CBB250	88.70	FBB250	49.00	MB250	50.60
3"	CBB300	142.00	FBB300	84.70	MB300	67.75
4"	CBB400	212.00	FBB400	128.40	MB400	91.00

Size	Plated Iron shanks with Plated Iron nut		Plated Iron shank with Plated Iron nut		Plated Iron	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1"	S33 ¹	\$26.25	S12 ¹	\$15.60	S10	\$10.65
1¼"	S48	38.50	S17	22.65	S15	16.70
1½"	S63	38.60	S22	21.50	S20	17.10
2"	S78	52.20	S27	29.50	S25	22.70
2½"	S93	90.00	S32	55.00	S30	36.05
3"	S111	97.60	S38	48.90	S36	48.70
4"	S123	164.70	S42	90.50	S40	74.20
5"	S168	341.50	S57	222.50	S55	119.00
6"	S183	349.00	S62	203.65	S60	145.35

Size	Plated Iron shanks with Brass nut		Plated Iron shank with Brass nut		Plated Iron	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1"	SB33 ¹	\$31.25	SB12 ¹	\$22.00	S10	\$10.65
1¼"	SB48	35.90	SB17	19.20	S15	16.70
1½"	SB63	35.10	SB22	18.00	S20	17.10
2"	SB78	47.20	SB27	24.50	S25	22.70
2½"	SB93	82.40	SB32	46.35	S30	36.05
3"	SB111	95.35	SB38	46.65	S36	48.70
4"	SB123	155.60	SB42	81.40	S40	74.20
5"	SB168	326.85	SB57	207.85	S55	119.00
6"	SB183	333.70	SB62	188.35	S60	145.35

* complete couplings supplied with rubber gaskets

¹ 1" fittings have a hex nut design

Replacement gaskets (KRW standard) are available, see page 275.

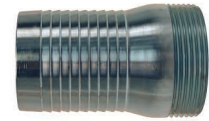
Steel King Short Shank Suction Couplings, NPSM Thread



complete with NPSM thread



female with NPSM thread

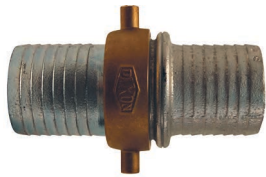


male with NPSM thread

Size	Plated Steel shanks with Plated Iron nut		Plated Steel shank with Plated Iron nut		Plated Steel	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1¼"	CSM125	\$41.75	FCSM125	\$23.90	MCS125	\$17.85
1½"	CSM150	33.15	FCSM150	19.85	MCS150	13.30
2"	CSM200	47.10	FCSM200	27.00	MCS200	20.10
2½"	CSM250	61.90	FCSM250	32.45	MCS250	29.45
3"	CSM300	76.30	FCSM300	43.05	MCS300	33.25
4"	CSM400	132.50	FCSM400	84.65	MCS400	47.85
6"	CSM600	267.25	FCSM600	150.15	MCS600	117.10

Size	Plated Steel shanks with Brass nut		Plated Steel shank with Brass nut		Plated Steel	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1¼"	CSB125	\$45.15	FCSB125	\$27.30	MCS125	\$17.85
1½"	CSB150	32.30	FCSB150	19.00	MCS150	13.30
2"	CSB200	41.70	FCSB200	22.00	MCS200	20.10
2½"	CSB250	63.75	FCSB250	35.25	MCS250	29.45
3"	CSB300	74.70	FCSB300	41.45	MCS300	33.25
4"	CSB400	135.90	FCSB400	88.05	MCS400	47.85
6"	CSB600	267.25	FCSB600	142.75	MCS600	117.10

King Short Shank Suction Couplings, NST (NH) Thread



complete with NST (NH) thread



female with NST (NH) thread



male with NST (NH) thread

Size	Plated Iron shanks with Plated Iron nut		Plated Iron shank with Plated Iron nut		Plated Iron	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1½"	S63N	\$51.35	S22N	\$29.20	S201	\$22.15
2½"	S93N	92.90	S32N	50.00	S301	42.90

Size	Plated Iron shanks with Brass nut		Plated Iron shank with Brass nut		Plated Iron	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1½"	SB63N	\$52.45	SB22N	\$30.30	S201	\$22.15
2½"	SB93N	108.40	SB32N	65.50	S301	42.90

Size	Brass shanks with Brass nut		Brass shank with Brass nut		Brass	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1½"	BS63N	\$72.60	BS22N	\$27.45	BS201	\$45.15
2½"	BS93N	157.95	BS32N	65.75	BS301	92.20

Size	Aluminum shanks with Brass nut		Aluminum shank with Brass nut		Aluminum	
	Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1½"	CAB150N	\$29.75	FAB150N	\$17.60	MA150N	\$9.00
2½"	CAB250N	57.50	FAB250N	33.50	MA250N	17.85

NST (Common Fire Hose Thread) is also known as NH
Replacement gaskets are available, see page 275. Rubber (KRW) gaskets are standard

Long Shank Couplings



complete coupling



female



male

Hose ID	NPSM Thread	Plated Steel		Plated Steel		Plated Steel	
		Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1/2"	1/2"	SLS404	\$25.25	SLS444	\$13.40	SLS414	\$11.85
3/4"	3/4"	SLS606	27.75	SLS646	14.35	SLS616	13.40
1"	1"	SLS808	40.30	SLS848	22.15	SLS818	18.15

Hose ID	GHT Thread	Plated Steel		Plated Steel		Plated Steel	
		Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
3/8"	3/4"	SLS307	\$30.35	SLS347	\$17.00	SLS317	\$13.35
1/2"	3/4"	SLS407	26.75	SLS447	15.75	SLS417	11.00
5/8"	3/4"	SLS507	24.30	SLS547	12.25	SLS517	12.05
3/4"	3/4"	SLS607	25.20	SLS647	12.95	SLS617	12.25

Hose ID	NPSM Thread	Plated Iron		Plated Iron		Plated Iron	
		Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1-1/4"	1-1/4"	MLS48	\$53.25	MLS33	\$26.25	MLS15	\$27.00
1-1/2"	1-1/2"	MLS63	55.10	MLS43	26.80	MLS20	28.30
2"	2"	MLS78	78.05	MLS53	45.60	MLS25	32.45

Hose ID	NPSM Thread	Brass		Brass		Brass	
		Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1/2"	1/2"	BLS404	\$25.60	BLS444	\$12.50	BLS414	\$13.10
1/2"	3/4"	BLS406	29.50	BLS446	11.90	BLS416	17.60
5/8"	3/4"	BLS506	25.00	BLS546	13.75	BLS516	11.25
3/4"	3/4"	BLS606	23.40	BLS646	12.10	BLS616	11.30
1"	1"	BLS808	37.90	BLS848	23.89	BLS818	18.26
1-1/4"	1-1/4"	BLS48	79.95	BLS33	44.90	BLS15	35.05
1-1/2"	1-1/2"	BLS63	105.75	BLS43	58.00	BLS20	47.75
2"	2"	BLS78	159.25	BLS53	87.15	BLS25	72.10

- sizes 1/2" to 1" machined; 1 1/4" to 2" cast

Hose ID	GHT Thread	Brass		Brass		Pkg Qty	Brass		Pkg Qty
		Complete Part #	Price/E	Female Part #	Price/E		Male Part #	Price/E	
1/2"	3/4"	BLS407	\$18.09	BLS447	\$9.24	150	BLS417¹	\$8.86	150
5/8"	3/4"	BLS507	18.20	BLS547	9.43	150	BLS517¹	8.77	150
3/4"	3/4"	BLS607	18.23	BLS647	9.34	150	BLS617¹	8.89	150

- ¹ redesigned with extended male GHT, deeper thread

Hose ID	NPSM Thread	Brass		Brass		Brass	
		Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E
1-1/2"	1-1/2"	BLS63NST	\$123.15	BLS150NST	\$70.85	BLS20NST	\$52.30
2-1/2"	2-1/2"	BLS93NST	227.30	BLS250NST	116.55	BLS30NST	110.75

KRW rubber gaskets standard, located on page 275.

Super King Long Shank Couplings for Bulk Handling

NPSM Female Coupling



pin lug nut



hex nut

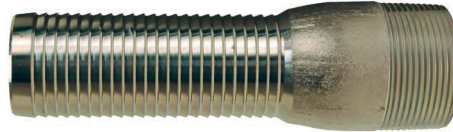
KLW leather gaskets standard

PTFE gaskets standard

Size	Shank Length	Plated Steel Shank with Brass Pin Lug Nut		Plated Steel Shank with Iron Pin Lug Nut		316 Stainless Shank with Iron Pin Lug Nut		316 Stainless Shank with Stainless Hex Nut	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1-1/4"	4-1/8"	SD15	\$44.75	SDMP15	\$44.35	---	---	---	---
1-1/2"	4-1/8"	SD20	47.20	SDMP20	46.10	---	---	RSHR20¹	\$126.00
2"	5"	SD25	58.35	SDMP25	57.20	RSDM25	\$116.00	RSDR25¹	157.00
2-1/2"	5"	SD30	86.50	SDMP30	82.00	---	---	---	---
3"	5"	SD35	85.45	SDMP35	81.10	RSDM35	158.00	---	---
4"	5"	SD40	124.00	SDMP40	123.00	---	---	---	---

¹ has a hex nut

NPT Male Couplings



Size	Shank Length	Plated Steel		316 Stainless	
		Part #	Price/E	Part #	Price/E
1-1/4"	4-3/8"	SK16	\$18.95	---	---
1-1/2"	4-5/32"	SK21	22.15	---	---
2"	5-5/16"	SK26	27.55	RSK26	\$80.00
2-1/2"	5-5/16"	SK31	47.90	---	---
3"	5-1/2"	SK36	51.45	RSK36	148.00
4"	5-1/2"	SK46	72.30	---	---

All Super King long shank couplings will accept 3 band clamps.

Replacement Viton® (KVW) gaskets are available on page 275. PTFE gaskets are available on page 645.

Spray Hose Couplings



complete coupling



female



male



gasket

Hose ID	NPSM Thread	Plated Steel		Plated Steel		Plated Steel		Leather	
		Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E	Gasket Part #	Price/E
3/8"	3/4"	SS306	\$30.45	SS346	\$14.60	SS316	\$15.85	KLW5	\$1.70
1/2"	1/2"	SS404	37.50	SS444	23.50	SS414	14.00	KLW1	2.50
1/2"	3/4"	SS406	30.30	SS446	13.00	SS416	17.30	KLW5	1.70
3/4"	3/4"	SS606	37.80	SS646	23.00	SS616	14.80	KLW5	1.70
1"	1"	SS808	69.05	SS848	47.55	SS818	21.50	KLW10	1.75

Hose ID	GHT Thread	Plated Steel		Plated Steel		Plated Steel		Leather	
		Complete Part #	Price/E	Female Part #	Price/E	Male Part #	Price/E	Gasket Part #	Price/E
3/8"	3/4"	SS307	\$25.05	SS347	\$13.80	SS317	\$11.25	KLW5	\$1.70
1/2"	3/4"	SS407	23.35	SS447	11.80	SS417	11.55	KLW5	1.70
5/8"	3/4"	SS507	27.70	SS547	13.70	SS517	14.00	KLW5	1.70
3/4"	3/4"	SS607	35.80	SS647	23.25	SS617	12.55	KLW5	1.70

Note: use with Boss clamps on page 99-100.

316 Stainless Steel Inserts

- brass inserts are available on page 317



Hose Size	NPT Size	Part #	Price/E
1/8"	1/8"	RN11	\$14.00
3/16"	1/8"	RN151	16.70
3/16"	1/4"	RN152	16.20
1/4"	1/8"	RN21	13.20
1/4"	1/4"	RN22	11.60
1/4"	3/8"	RN23	21.85
5/16"	1/8"	RN251	14.50
5/16"	1/4"	RN252	17.60
5/16"	3/8"	RN253	20.00
3/8"	1/8"	RN31	12.15
3/8"	1/4"	RN32	11.80
3/8"	3/8"	RN33	14.50
3/8"	1/2"	RN34	29.55
1/2"	1/4"	RN42	15.50
1/2"	3/8"	RN43	22.15
1/2"	1/2"	RN44	28.95
1/2"	3/4"	RN46	36.35
5/8"	3/8"	RN53	24.25
5/8"	1/2"	RN54	27.00
5/8"	3/4"	RN56	36.15
3/4"	1/2"	RN64	40.95
3/4"	3/4"	RN66	48.00
1"	3/4"	RN86	54.00
1"	1"	RKHN881 ¹	77.25

¹ same shank style as KHN881 shown on page 269

316 Stainless Short Shank Couplings

- Standard gasket is rubber (KRW); for Viton® gaskets (KVW) see page 275.



complete coupling

Size	316 Stainless Steel	
	Complete Part #	Price/E
1/2"	RES404	\$98.90
3/4"	RES606	62.35
1"	RES808	63.80
1-1/4"	RES48	166.40
1-1/2"	RES63	131.60
2"	RES78	169.75



female with nut
NPSM thread

Size	316 Stainless Steel	
	Female Part #	Price/E
1/2"	RES444	\$77.80
3/4"	RES646	41.20
1"	RES848	42.55
1-1/4"	RES33	139.30
1-1/2"	RES43	99.00
2"	RES53	124.75



male
NPT thread

Size	316 Stainless Steel		Opt Qty
	Male Part #	Price/E	
1/2"	RST1 ¹	\$21.10	50
3/4"	RST5 ¹	21.15	50
1"	RST10	21.25	50
1-1/4"	RST15	27.10	50
1-1/2"	RST20	32.60	50
2"	RST25	45.00	25

¹ made from investment casting

Pin Lug Spanner Wrenches

single end wrench

Size	Plated Iron	
	Part #	Price/E
1½"	SW15	\$9.80
2"	SW20	10.15
2½"	SW25	11.55
3"	SW30	13.25
4"	SW40	13.65
6"	SW60	84.85



double end wrench

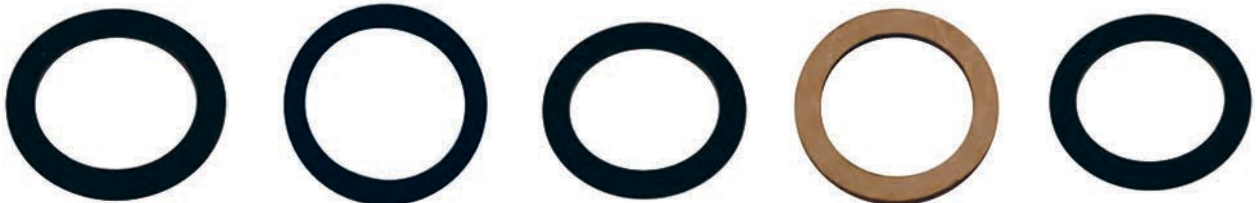
Size	Plated Iron	
	Part #	Price/E
1½", 2" x 2½", 3"	SW153	\$24.90



F

Additional spanner wrenches are also available on pages 535-536.

Gaskets for Suction, Long and Short Shank Couplings



for NST thread

Size	Rubber (Styrene Butadiene)		Neoprene		Viton®		Leather		Rubber	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	KRW1	\$0.45	---	---	---	---	KLW1	\$2.50	---	---
¾"	KRW5	0.45	KNW5	\$0.50	---	---	KLW5	1.70	---	---
1"	KRW10	0.45	KNW10	0.50	KVW10	\$3.85	KLW10	1.75	---	---
1¼"	KRW15	0.45	KNW15	0.95	---	---	KLW15	1.85	---	---
1½"	KRW20	0.55	KNW20	0.75	KVW20	7.25	KLW20	2.20	KRW2075	\$1.85
2"	KRW25	0.70	KNW25	0.85	KVW25	10.10	KLW25	2.35	---	---
2½"	KRW30	0.90	KNW30	0.95	---	---	KLW30	2.50	KRW3075	1.90
3"	KRW35	0.90	KNW35	1.35	KVW35	21.85	KLW35	3.25	---	---
4"	KRW40	1.50	KNW40	2.15	---	---	KLW40	4.80	---	---
5"	KRW50	3.50	---	---	---	---	---	---	---	---
6"	KRW60	4.45	KNW60	6.35	---	---	---	---	---	---
8"	KRW80	9.80	KNW80	12.10	---	---	---	---	---	---

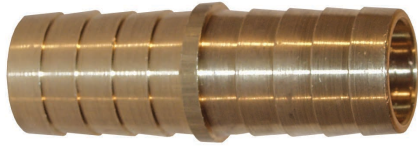
Dixon 316 Stainless Steel Menders



Size	Length	Stainless Steel	
		Part #	Price/E
1/4"	2-1/32"	RM2	\$15.20
3/8"	2-1/16"	RM3	16.30
1/2"	2-1/16"	RM4	24.25
3/4"	2-1/2"	RM6	31.40

Dixon Brass Hose Menders

F



Size	Brass		Opt Qty
	Part #	Price/E	
1/8"	BM1	\$1.84	100
3/16"	BM15	1.68	100
1/4"	BM2	1.94	100
1/4" x 1/8"	BM2-1	2.40	100
5/16"	BM25	2.13	100
3/8"	BM3	2.39	100
3/8" x 1/4"	BM3-2	2.90	100
1/2"	BM4	3.35	50
1/2" x 3/8"	BM4-3	3.91	50
5/8"	BM5	3.96	50
5/8" x 3/8"	BM5-3	4.28	50
5/8" x 1/2"	BM5-4	4.88	50
3/4"	BM6	5.62	50
3/4" x 1/2"	BM6-4	5.84	50
1"	BM8	10.19	10

Tuff-Lite Nylon Menders



1/4" - 2" menders



4" - 6" menders

Features:

- maximum working temperature **150°F**

Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	TM2 ¹	\$0.82	50
5/16"	TM25 ¹	0.83	50
3/8"	TM3 ¹	0.85	50
1/2"	TM4 ¹	1.10	50
5/8"	TM5 ¹	1.50	50
3/4"	TM6 ¹	1.50	50
1"	TM8 ¹	1.82	25
1-1/4"	TM16	4.55	50
1-1/2"	TM21	7.45	100
2"	TM26	10.15	50
4"	TM46	60.50	---
6"	TM66	85.10	---

¹ TM2 through TM8 sold in package quantity only.

Tuff-Lite Nylon Push-On Menders



Features:

- no clamps needed when used with push-on hose
- sold in package quantity only

Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	TPM2	\$0.65	50
3/8"	TPM3	0.71	50
1/2"	TPM4	0.87	50

Steel Dixon Hose Menders



• They are not for compressible products such as air, nitrogen or steam.

• The working pressure may vary with the construction of the hose, the type of clamping system used and the application. Consult the factory for recommendations.

• In accordance with the R.M.A. bulletin for oil suction and discharge hose, a coupled length of hose in any size, should be tested to 1½ times the working pressure and held for fifteen minutes without leaking or coupling movement. For additional information and detailed instruction on testing procedures, see the Rubber Manufacturers Association (R.M.A.) handbook.

Size	Zinc Plated Steel			316 Stainless Steel		
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
1/4"	DMA	\$7.65	200	RDMA	\$28.00	100
3/8"	DMB	7.80	100	RDMB	32.65	100
1/2"	DM1	7.75	50	RDM1	28.15	50
5/8"	DM5	7.95	50	---	---	---
3/4"	DM6	7.15	50	RDM6	58.00	50
1"	DM11	6.60	50	RDM11	61.00	50
1-1/4"	DM16	8.80	50	RDM16	64.50	5
1-3/8"	DM18	25.55	50	---	---	---
1-1/2"	DM21	9.50	50	RDM21	73.50	50
1-1/2"	DMXL21 ¹	24.15	25	---	---	---
2"	DM26	11.20	50	RDM26	82.70	10
2"	DMXL26 ¹	29.05	25	---	---	---
2-1/2"	DM31	18.30	25	---	---	---
3"	DM36	22.50	20	RDM36	183.30	5
4"	DM46	41.40	10	RDM46	216.30	5
5"	DM51	130.00	5	---	---	---
6"	DM66	100.55	4	---	---	---
8"	DM86	215.00	1	---	---	---
10"	DM100	335.00	1	---	---	---
12"	DM120	512.30	1	---	---	---

¹ XL series is extra long



F

Steel King Hose Menders



• They are not for compressible products such as air, nitrogen or steam.

• The working pressure may vary with the construction of the hose, the type of clamping system used and the application. Consult the factory for recommendations.

• In accordance with the R.M.A. bulletin for oil suction and discharge hose, a coupled length of hose in any size, should be tested to 1½ times the working pressure and held for fifteen minutes without leaking or coupling movement. For additional information and detailed instruction on testing procedures, see the Rubber Manufacturers Association (R.M.A.) handbook.

for 1 clamp each end for 2 clamps each end

Size	Steel		Steel	
	Part #	Price/E	Part #	Price/E
1/4"	KM21	\$7.20	---	---
5/16"	KM251	7.20	---	---
1/2"	KM41	8.80	KM42	\$11.30
5/8"	KM51	11.20	KM52	11.85
3/4"	KM61	8.30	KM62	11.10
1"	KM81	8.30	KM82	11.75
1-1/4"	KM101	7.80	KM102	13.40
1-1/2"	KM121	11.10	KM122	20.75
2"	---	---	KM162	28.15



for 1 clamp each end



for 2 clamps each end

Strainer with Spring Loaded Check Valves

Features:

• brass with NBR seat, stainless steel strainer
 • soft seat for bubble tight shutoff, spring loaded for fast seating action

• flow profile designed to minimize head loss
 • temperature range: **10°F to 210°F** (-10°C to 100°C)
 • cracking pressure: **0.50 PSI**
 • pressure rating: 1½"-2" **400 PSI WOG**, 3"-4" **175 PSI WOG**
 • Underwriters approved

Size	Part #	Price/E
1½"	BVFS20 ¹	\$89.60
2"	BVFS25 ¹	129.00
3"	BVFS35	379.50
4"	BVFS40	572.50

¹ NSF61 approved



Quick Connect Fittings

Application:

- The primary applications for these fittings are irrigation and suction lines.

Features:

- The hot dipped, galvanized quick connect fittings has a double pin locking lever for smooth closing action.
- Type A (*Agri-Lock style*) locks on the female side. Type B (*Bauer style*) locks on the male side.
- Each coupler is equipped with a safety pin to prevent accidental openings.
- ⚠ These fittings are not recommended for chemicals or any hazardous type materials where the possibility of leakage would result in health or environmental concerns. Consult the factory for recommendations.

(Agri-Lock style)
Type A



Type A male with 150 ASA flange

Size Inches	Galvanized Steel	
	Part #	Price/E
10"	MC22210	\$891.25
12"	MC22212	1216.80



Type A female with 150 ASA flange with gasket
(12" pictured)

Size Inches	Galvanized Steel	
	Part #	Price/E
10"	FC22310	\$875.50
12"	FC22312 ¹	1257.00



Type A male with hose shank

Size Inches	Galvanized Steel	
	Part #	Price/E
10"	MC21110	\$352.80
12"	MC21112	551.50



Type A female with hose shank with gasket
(12" pictured)

Size Inches	Galvanized Steel	
	Part #	Price/E
10"	FC21210	\$346.25
12"	FC21212 ¹	630.00



Type A male x female 90° elbow with gasket
(12" pictured)

Size Inches	Galvanized Steel	
	Part #	Price/E
10"	EL21510-90	\$806.25
12"	EL21512-90 ¹	1265.75

¹ 12" supplied with M20412 lever assist bar

Quick Connect Fittings

(Agri-Lock style)
Type A



Type A male plug with ring

Size Inches	Galvanized Steel	
	Part #	Price/E
10"	MP21010	\$267.50
12"	MP21012	479.00



Type A female plug with gasket (10" pictured)

Size Inches	Galvanized Steel	
	Part #	Price/E
10"	FP20910	\$295.50
12"	FP20912 ¹	628.10

¹ 12" supplied with M20412 lever assist bar



Type A gaskets

Size Inches	Rubber		EPDM	
	Part #	Price/E	Part #	Price/E
10"	RG20510	\$26.25	RG20610	\$58.50
12"	RG20512	29.50	RG20612	66.50



Type A accessories

Size Inches	Description	Galvanized Steel	
		Part #	Price/E
12"	assist bar for Type A 12" fittings	M20412	\$16.55
12"	safety pin for 12" fittings	SP290	14.50



Type A male - with ring for welding

Size Inches	Unplated Steel	
	Part #	Price/E
10"	21010	\$125.60
12"	21012	235.80



Type A female - for welding to pipe

Size Inches	Unplated Steel	
	Part #	Price/E
10"	20410	\$143.00
12"	20412	300.00

Quick Connect Fittings

(Bauer style)
Type B



Type B male with 150 ASA flange

Size Inches	Galvanized Steel	
	Part #	Price/E
4"	MC3134	\$228.00
6"	MC3136	403.50
8"	MC3138	735.25
10"	MC31310 ¹	1335.00
12"	MC31312 ¹	1646.20



Type B female with 150 ASA flange with gasket

Size Inches	Galvanized Steel	
	Part #	Price/E
4"	FC3144	\$152.00
6"	FC3146	262.50
8"	FC3148	437.55
10"	FC31410	804.70
12"	FC31412	1040.25

¹ 10" and 12" supplied with ACB304 lever assist bar

Quick Connect Fittings

(Bauer style)
Type B

Type B male with hose shank



Type B female with hose shank with gasket

F

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	MC3092	\$43.50
3"	MC3093	69.50
4"	MC3094	124.90
6"	MC3096	219.25
8"	MC3098	422.00
10"	MC30910 ¹	860.50
12"	MC30912 ¹	1047.50

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	FC3102	\$24.50
3"	FC3103	33.00
4"	FC3104	57.00
6"	FC3106	97.50
8"	FC3108	185.60
10"	FC31010	376.75
12"	FC31012	483.70

¹ 10" and 12" supplied with ACB304 lever assist bar

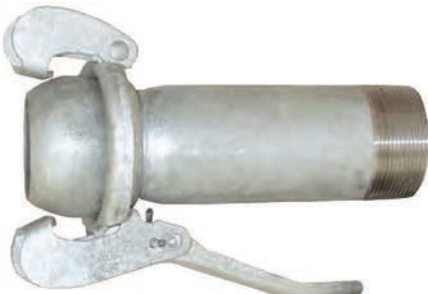
Type B male with male NPT



Type B female with male NPT with gasket

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	MCM3112	\$60.50
3"	MCM3113	89.00
4"	MCM3114	149.75
6"	MCM3116	270.50
8"	MCM3118	525.00

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	FCM3122	\$40.50
3"	FCM3123	51.50
4"	FCM3124	83.25
6"	FCM3126	142.50
8"	FCM3128	293.00



Type B male with male NPT - extra long



Standard Strainer Square Hole Type

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	MCM3112XL	\$62.70
3"	MCM3113XL	102.60
4"	MCM3114XL	169.65
6"	MCM3116XL	316.65
8"	MCM3118XL	607.55

NPT Size	Zinc Plated Steel	
	Part #	Price/E
2"	SHS25	\$28.65
3"	SHS35	45.75
4"	SHS40	64.20
6"	SHS60	185.70
8"	SHS80	424.55

Quick Connect Fittings

(Bauer style)
Type B

Type B male x female 90° elbow with gasket

Size Inches	Galvanized Steel	
	Part #	Price/E
4"	EL3154-90	\$208.55
6"	EL3156-90	395.05
8"	EL3158-90	691.00
10"	EL31510-90 ¹	1340.25
12"	EL31512-90 ¹	1687.00



Type B male x female 45° elbow with gasket

Size Inches	Galvanized Steel	
	Part #	Price/E
4"	EL3154-45	\$208.55
6"	EL3156-45	362.50
8"	EL3158-45	584.50
10"	EL31510-45 ¹	1160.80
12"	EL31512-45 ¹	1472.70



Type B female x male reducer with gasket

Female Size Inches	Male Size Inches	Galvanized Steel	
		Part #	Price/E
6"	4"	FMR31864	\$182.40
8"	6"	FMR31886	353.50
10"	8"	FMR318108 ¹	686.30
12"	10"	FMR3181210 ¹	1217.90



Type B female x male increaser with gasket

Female Size Inches	Male Size Inches	Galvanized Steel	
		Part #	Price/E
4"	6"	FMI31946	\$232.70
6"	8"	FMI31968	470.00
8"	10"	FMI319810	948.00
10"	12"	FMI3191012 ¹	1280.00



Type B male plug

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	MP3232	\$39.00
3"	MP3233	60.75
4"	MP3234	105.50
6"	MP3236	190.10
8"	MP3238	350.75
10"	MP32310 ¹	761.60
12"	MP32312 ¹	944.80



Type B female plug with gasket

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	FP3082	\$16.70
3"	FP3083	18.90
4"	FP3084	35.50
6"	FP3086	81.25
8"	FP3088	129.25
10"	FP30810	326.25
12"	FP30812	450.75

¹ 10" and 12" supplied with ACB304 lever assist bar

Quick Connect Fittings

(Bauer style)
Type B



Type B female with gasket



Type B male

F

Size Inches	Unplated Steel	
	Part #	Price/E
2"	3022	\$5.90
3"	3023	6.85
4"	3024	17.10
6"	3026	36.10
8"	3028	69.25
10"	30210	163.75
12"	30212	230.70

Size Inches	Unplated Steel	
	Part #	Price/E
2"	3032	\$4.35
3"	3033	4.90
4"	3034	13.50
6"	3036	20.50
8"	3038	42.00
10"	30310	93.70
12"	30312	134.00

- Female and male fittings are commonly used for butt-welding to pipe.



2" - 8"



10" - 12"

Type B safety clips

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	SP59	\$8.45
3"	SP76	8.95
4"	SP89	9.70
6"	SP159	10.00
8"	SP159	10.00
10"	SP390	13.10
12"	SP390	13.10



Type B lever ring

Size Inches	Galvanized Steel	
	Part #	Price/E
2"	LR3042	\$22.50
3"	LR3043	40.90
4"	LR3044	73.10
6"	LR3046	140.00
8"	LR3048	268.25
10"	LR30410	562.50
12"	LR30412	678.00



Type B accessory

Size Inches	Description	Galvanized Steel	
		Part #	Price/E
10" & 12"	lever assist bar for 10" and 12" Type B fittings	ACB304	\$41.75



Type B gaskets

Size Inches	Rubber		EPDM	
	Part #	Price/E	Part #	Price/E
2"	RG3052	\$1.15	RG3062	\$4.50
3"	RG3053	2.05	RG3063	6.20
4"	RG3054	5.10	RG3064	9.80
6"	RG3056	10.10	RG3066	20.75
8"	RG3058	22.90	RG3068	37.50
10"	RG30510	33.75	RG30610	47.25
12"	RG30512	51.25	RG30612	60.50

Heavy Duty Quick Connect Fittings

(Bauer style)
Type B

Features:

- features a Dixon STB style hose shank machined from Schedule 40 pipe
- recommended when using steel crimp sleeves
- all components are galvanized



Type B male with machined steel hose shank

Size Inches	Machined Steel	
	Part #	Price/E
2"	MC3092ST25	\$96.75
3"	MC3093ST35	154.00
4"	MC3094ST40	197.00
6"	MC3096ST60	385.00
8"	MC3098ST80	655.00



Type B female with machined steel hose shank with gasket

Size Inches	Machined Steel	
	Part #	Price/E
2"	FC3102ST25	\$79.70
3"	FC3103ST35	124.50
4"	FC3104ST40	153.00
6"	FC3106ST60	281.00
8"	FC3108ST80	428.00

F

Heavy Duty Quick Connect Fittings

(Agri-Lock style)
Type A



Type A female with hose shank with gasket

Size Inches	Steel	
	Part #	Price/E
10"	FC21210ST100	\$779.00
12"	FC21212ST120¹	1046.00



Type A male with hose shank

Size Inches	Steel	
	Part #	Price/E
10"	MC21110ST100	\$765.00
12"	MC21112ST120	852.00

¹ 12" supplied with M20412 lever assist bar found on page 279

Cast Iron Threaded Foot Valves

 Must be installed in the vertical position



complete assembly threaded



strainer



flapper assembly



valve



seat plate

F

NPT Size	Painted Cast Iron		Painted Cast Iron		Painted Cast Iron / Rubber		Rubber		Painted Cast Iron	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1½"	DFVS20	\$32.55	FVS20	\$6.90	FVFA20	\$14.05	FVL20	\$6.65	FVSP20	\$6.35
2"	DFVS25	47.85	FVS25	10.60	FVFA25	17.80	FVL25	10.60	FVSP25	5.30
2½"	DFVS30	61.10	FVS30	20.95	FVFA30	22.30	FVL30	13.00	FVSP30	9.55
3"	DFVS35	77.70	FVS35	21.20	FVFA35	23.80	FVL35	19.65	FVSP35	14.35
4"	DFVS40	128.65	FVS40	28.80	FVFA40	35.00	FVL40	30.75	FVSP40	15.90
6"	DFVS60	307.85	FVS60	68.90	FVFA60	85.90	FVL60	65.75	FVSP60	29.05
8"	DFVS80	706.15	FVS80	189.35	FVFA80	187.80	FVL80	124.05	FVSP80	65.75

Strainers and Skimmers



standard strainer round hole type



standard strainer round hole type



standard strainer square hole type



long thin strainer round hole type



bottom skimmer round hole type



top skimmer round hole type

NPSH Size	Zinc Plated Steel		304 Stainless Steel		Zinc Plated Steel		Zinc Plated Steel		Zinc Plated Steel		Zinc Plated Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1½"	RHS20	\$24.60	RRHS20	\$260.00	SHS20	\$24.60	RSS20	\$22.90	DSB20	\$80.80	DST20	\$80.80
2"	RHS25	28.65	RRHS25	340.40	SHS25	28.65	RSS25	26.65	DSB25	90.30	DST25	90.30
2½"	RHS30	36.20	---	---	SHS30	36.20	RSS30	33.55	---	---	---	---
3"	RHS35	45.75	RRHS35	475.00	SHS35	45.75	RSS35	42.45	DSB35	201.60	DST35	201.60
4"	RHS40	64.20	RRHS40	590.00	SHS40	64.20	RSS40	59.65	---	---	---	---
5"	RHS50	136.65	---	---	---	---	---	---	---	---	---	---
6"	RHS60	185.70	RRHS60	1227.30	SHS60	185.70	---	---	---	---	---	---
8"	RHS80	424.55	RRHS80	2710.95	SHS80	424.55	---	---	---	---	---	---
10"	RHS100	778.60	---	---	---	---	---	---	---	---	---	---
12"	RHS120	1415.80	---	---	---	---	---	---	---	---	---	---

NEW
FOR 2013

Witches Hat Strainers



Features:

- to be used with female cam and groove couplings
- pre-attached Buna-N gasket

Size	304 Stainless Steel	
	Part #	Price/E
3"	WH300-A	36.25
4"	WH400-A	44.70

Polyethylene Strainers

NPT Size	Black Polyethylene	
	Part #	Price/E
1½"	TSS20	\$12.20
2"	TSS25	12.20
3"	TSS35	26.05






LIQUIfit™ Fittings

Application:

- Suitable for water, potable liquids and neutral gas applications, including water filtration, water coolers, coffee machines and beverage dispensers.

Features:

- EPDM seal secures connection with larger surface area than standard O-rings
- engineered polymer allows superior mechanical strength and chemical resistance
- full stainless gripping ring eliminates the need for locking clips
- release button protects and supports tubing
- FDA compliant
- meets California and Vermont <0.25% lead requirements
- NSF-51 listed for contact with food
- NSF-61 list C-Hot rated
- in compliance with the following standards:   

Specifications:

- working pressure:
 - 1/4" **230 PSI** from 35°F to 100°F
150 PSI at 150°F
60 PSI at 200°F
 - 3/8" **190 PSI** from 35°F to 100°F
100 PSI at 150°F
60 PSI at 200°F
 - 1/2" **160 PSI** from 35°F to 100°F
100 PSI at 150°F
60 PSI at 200°F
- maximum torque values for NPTF threads:
 - 1/8" and 1/4" 1.0 ft. lbs. / 1.5Nm
 - 3/8" and 1/2" 2.2 ft. lbs. / 3.0Nm

F

Male Connectors



tube to male NPTF

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/8"	65055611WP2	\$2.40	10
1/4"	1/4"	65055614WP2	2.70	10
3/8"	1/4"	65056014WP2	4.10	10
3/8"	3/8"	65056018WP2	4.70	10
1/2"	3/8"	65056218WP2	6.30	5
1/2"	1/2"	65056222WP2	6.75	5

Faucet Connectors



tube to female UNS

Tube OD	Female UNS	Nylon Part #	Price/E	Pkg Qty
1/4"	7/16-24	632556133WP2	\$4.75	10
3/8"	7/16-24	632560133WP2	5.35	10

Female Connectors



tube to female NPTF

Tube OD	Female NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	63155614WP2	\$5.80	10
3/8"	3/8"	63156018WP2	6.65	10

Fixed Elbows



tube to male NPTF

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/8"	65795611WP2	\$3.75	10
1/4"	1/4"	65795614WP2	4.25	10
1/4"	3/8"	65795618WP2	5.05	10
3/8"	1/4"	65796014WP2	5.55	10
3/8"	3/8"	65796018WP2	5.70	10

LIQUIfit™ Fittings

Union Elbows



tube to tube

F

Tube OD	Nylon Part #	Price/E	Pkg Qty
1/4"	63025600WP2	\$4.00	10
3/8"	63026000WP2	6.05	10
1/2"	63026200WP2	7.20	5

Union Tees



tube to tube

Tube OD	Nylon Part #	Price/E	Pkg Qty
1/4"	63045600WP2	\$5.10	10
3/8"	63046000WP2	6.30	10
1/2"	63046200WP2	7.65	5

Union Connectors



tube to tube

Tube OD 1	Tube OD 2	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	63065600WP2	\$3.60	10
1/4"	3/8"	63065660WP2	4.75	10
3/8"	3/8"	63066000WP2	4.75	10
3/8"	1/2"	63066062WP2	6.50	5
1/2"	1/2"	63066200WP2	5.45	5

Unequal Union Tee



tube to tube

Tube OD 1	Tube OD 2	Nylon Part #	Price/E	Pkg Qty
3/8"	1/4"	63046056WP2	\$8.05	10

Bulkhead Unions



tube to tube

Tube OD	Nylon Part #	Price/E	Pkg Qty
1/4"	63165600WP2	\$6.65	10
3/8"	63166000WP2	8.75	10
1/2"	63166200WP2	11.35	5

Union Y Connectors



tube to tube to tube

Tube OD	Nylon Part #	Price/E	Pkg Qty
1/4"	63405600WP2	\$5.70	10
3/8"	63406000WP2	6.40	10
1/2"	63406200WP2	10.90	5

LIQUIfit™ Fittings

Swivel Elbows



tube to male NPTF

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/8"	65095611WP2	\$6.05	10
1/4"	1/4"	65095614WP2	6.05	10
1/4"	3/8"	65095618WP2	6.55	10
3/8"	1/4"	65096014WP2	8.40	10
3/8"	3/8"	65096018WP2	8.80	10
1/2"	3/8"	65096218WP2	11.35	4
1/2"	1/2"	65096222WP2	11.35	4

Stem Adapters



tube to male NPTF

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/8"	65215611WP2	\$1.35	10
1/4"	1/4"	65215614WP2	1.35	10
1/4"	3/8"	65215618WP2	1.95	10
3/8"	1/4"	65216014WP2	1.65	10
3/8"	3/8"	65216018WP2	2.15	10
1/2"	3/8"	65216218WP2	3.25	5
1/2"	1/2"	65216222WP2	3.25	5

End Stops



tube

Tube OD	Nylon Part #	Price/E	Pkg Qty
1/4"	63515600WP2	\$2.50	10
3/8"	63516000WP2	3.00	10

Swivel Branch Tees



tube to tube x male NPTF

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/8"	65085611WP2	\$7.20	10
1/4"	1/4"	65085614WP2	7.20	10
1/4"	3/8"	65085618WP2	7.70	10
3/8"	1/4"	65086014WP2	8.75	10
3/8"	3/8"	65086018WP2	9.15	10
1/2"	3/8"	65086218WP2	11.80	4
1/2"	1/2"	65086222WP2	11.80	4

Swivel Male Run Tees



tube to male NPTF x tube

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/8"	65035611WP2	\$7.20	10
1/4"	1/4"	65035614WP2	7.20	10
1/4"	3/8"	65035618WP2	7.70	10
3/8"	1/4"	65036014WP2	8.75	10
3/8"	3/8"	65036018WP2	9.15	10
1/2"	3/8"	65036218WP2	11.80	4
1/2"	1/2"	65036222WP2	11.80	4

Plugs



tube

Tube OD	Nylon Part #	Price/E	Pkg Qty
1/4"	63265600WP2	\$1.05	10
3/8"	63266000WP2	1.65	10
1/2"	63266200WP2	2.50	5

F

LIQUIfit™ Fittings

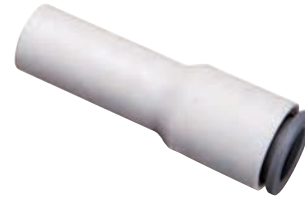
Hose Stems



tube to hose stem

Tube OD	Stem	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	63225656WP2	\$2.30	10
3/8"	1/4"	63226056WP2	3.10	10
3/8"	5/16"	63226008WP2	3.25	10
3/8"	3/8"	63226060WP2	3.60	10
1/2"	3/8"	63226260WP2	3.85	10

Plug-in Reducers



tube to plug-in

Tube OD	Plug-in	Nylon Part #	Price/E	Pkg Qty
1/4"	5/16"	63665608WP2	\$3.35	10
1/4"	3/8"	63665660WP2	3.95	10
3/8"	1/2"	63666062WP2	7.35	5

Plug-in Elbows



tube to plug-in

Tube OD	Plug-in	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	63825600WP2	\$3.65	10
3/8"	3/8"	63826000WP2	6.15	10
1/2"	1/2"	63826200WP2	7.35	5

Plug-in Tees



tube to tube x plug-in

Tube OD	Plug-in	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	63885600WP2	\$5.40	10
3/8"	3/8"	63886000WP2	8.55	10
1/2"	1/2"	63886200WP2	10.10	5

TrueSeal™ Ball Valves**Application:**

These corrosion resistant, all-plastic designed ball valves are ideal for water filtration units, coffee and beverage machines and a wide variety of other fluid applications.

Features:

- EPDM seal secures connection with larger surface area than standard O-rings
- full flow self-cleaning ball
- high-temperature, scale resistant Polysulfone ball
- glass-reinforced Polypropylene body
- FDA compliant
- NSF-51 listed for contact with food

Specifications:

- temperature range: **0°F to 225°F** (-18°C to 107°C)
- O-ring seal material: EPDM
- Pressure rating to **150 PSI** with a 600 PSI burst pressure. Actual working pressures will be lower at elevated temperatures.

Valve Male Elbows



tube to male NPTF

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	PP4VME4-MG	\$14.25	10
1/4"	3/8"	PP4VME6-MG	19.00	10
1/4"	1/2"	PP4VME8-MG	23.20	10
3/8"	1/4"	PP6VME4-MG	14.25	10
3/8"	3/8"	PP6VME6-MG	17.15	10
3/8"	1/2"	PP6VME8-MG	24.05	10

Valve Female Elbows



tube to female NPTF

Tube OD	Female NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	PP4VFE4-MG	\$14.90	10
1/4"	3/8"	PP4VFE6-MG	17.15	10
3/8"	1/4"	PP6VFE4-MG	15.55	10
3/8"	3/8"	PP6VFE6-MG	14.25	10

TrueSeal™ Ball Valves

Valve Male Connectors



male NPTF to tube

Tube OD	Male NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	PP4VMC4-MG	\$13.20	10
1/4"	3/8"	PP4VMC6-MG	15.90	10
3/8"	1/4"	PP6VMC4-MG	14.15	10
3/8"	3/8"	PP6VMC6-MG	13.45	10

Valve Female Connectors



tube to female NPTF

Tube OD	Female NPTF	Nylon Part #	Price/E	Pkg Qty
1/4"	1/8"	PP4VFC2-MG	\$17.45	10
1/4"	1/4"	PP4VFC4-MG	16.75	10
1/4"	3/8"	PP4VFC6-MG	16.75	10
3/8"	1/8"	PP6VFC2-MG	18.05	10
3/8"	1/4"	PP6VFC4-MG	17.35	10
3/8"	3/8"	PP6VFC6-MG	17.35	10

Valve Union Connectors



tube to tube

Tube OD 1	Tube OD 2	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	PP4VUC4-MG	\$12.65	10
1/4"	3/8"	PP4VUC6-MG	16.15	10
3/8"	3/8"	PP6VUC6-MG	14.10	10

Valve Elbow Unions



tube to tube

Tube OD 1	Tube OD 2	Nylon Part #	Price/E	Pkg Qty
1/4"	1/4"	PP4VEU4-MG	\$21.10	10
1/4"	3/8"	PP4VEU6-MG	20.35	10
3/8"	1/4"	PP6VEU4-MG	19.60	10
3/8"	3/8"	PP6VEU6-MG	18.65	10

Valve Plug-in Elbow Unions



tube to plug-in

Tube OD	Stem	Nylon Part #	Price/E	Pkg Qty
1/4"	3/8"	PP4VTEU6-MG	\$18.65	10
3/8"	3/8"	PP6VTEU6-MG	19.40	10

TrueSeal™ Check Valves

Application:

Push-to connect check valves ensure protection against reversal of flow. The valves have an arrow molded into the body to indicate the direction of flow. Valves are designed for connection with either thermoplastic or soft metal tubing and are intended for use with liquids only.

Features:

- body material: acetal
- O-ring: EPDM
- metal grip edge: 300 stainless steel

- NSF-51 listed
- working pressure: up to **150 PSI**, depending on tubing used
- temperature range: **34°F to 150°F** (1°C to 65°C)
- cracking pressure: 1/3 PSI


tube to tube

Tube OD	Acetal Part #	Price/E	Pkg Qty
1/4"	A4VC4-MG	\$23.00	25
3/8"	A6VC6-MG	25.95	25



Sharkbite® Push-Fit Fittings

Features:

- for **water, dry, clean air** or **100% glycol solutions** only 
- connects copper, CPVC, and PEX pipe in any combination
- no soldering, clamps, unions or glue needed
- certified to **200 PSI** and **200°F**
- approved for use underground and behind walls without access panels

- integral tube liner for PEX installations
- Fittings can be rotated after assembly for easier installation in tight spaces.
- easy to disconnect if needed
- design certified and listed to ASSE 1061/NSF 61
- listed by IAPMO
- meet UPC, IPC and cUPC requirements
- all Sharkbite® fittings are lead free

Straight Couplings



Tube Size	Forged Brass	
	Part #	Price/E
1/2" x 1/2"	U008	\$17.60
3/4" x 3/4"	U016	19.40
1" x 1"	U020	43.00

Reducing Couplings



Tube Size	Forged Brass	
	Part #	Price/E
3/4" x 1/2"	U058	\$20.75
1" x 3/4"	U060	52.50

Straight Connectors



Tube Size	Female NPT	Forged Brass	
		Part #	Price/E
1/2"	1/2"	U072	\$14.70
3/4"	3/4"	U088	16.75
1"	1"	U094	33.75



Tube Size	Male NPT	Forged Brass	
		Part #	Price/E
1/2"	1/2"	U120	\$14.20
3/4"	3/4"	U134	16.00
1"	1"	U140	35.25

Reducing Connectors



Tube Size	Female NPT	Forged Brass	
		Part #	Price/E
1/2"	3/4"	U068	\$17.60



Tube Size	Male NPT	Forged Brass	
		Part #	Price/E
1/2"	3/4"	U116	\$17.10

F

Sharkbite® Push-Fit Fittings Elbows

Tube Size	Forged Brass	
	Part #	Price/E
1/2" x 1/2"	U248	\$18.25
3/4" x 3/4"	U256	22.75
1" x 1"	U260	46.50



Drop Ear Elbow

Tube Size	Female NPT	Forged Brass	
		Part #	Price/E
1/2"	1/2"	U334	\$19.00



Tees

Tube Size	Tube Size	Tube Size	Forged Brass	
			Part #	Price/E
1/2"	1/2"	1/2"	U362	\$25.25
3/4"	3/4"	3/4"	U370	31.70



Reducing Tee

Tube Size	Tube Size	Tube Size	Forged Brass	
			Part #	Price/E
3/4"	3/4"	1/2"	U412	\$32.00



End Stops

Tube Size	Forged Brass	
	Part #	Price/E
1/2"	U514	\$14.80
3/4"	U518	18.90
1"	U520	43.25



Slip Couplings

- for use with copper only

Tube Size	Forged Brass	
	Part #	Price/E
1/2"	U3008	\$33.00
3/4"	U3016	41.00



Disconnect Clips

Size	ABS Plastic	
	Part #	Price/E
1/2"	U710	\$4.35
3/4"	U712	4.35
1"	U714	4.85



Water-Steam Washdown Station

Fail-safe mixing station, bronze, wall mounted, safely blends steam and cold water for hot water on demand. Should cold water fail, the steam is instantly shut-off. **150 PSI** maximum, **200°F** maximum.



station is not supplied with hose and nozzle

Features:

- control valves
- dial thermometer
- in-line check valves
- ¾" inlet and outlet
- stainless steel hose rack
- mounting plate and hardware

Part #	Price/E
SWDS	\$3456.75

Pressure Requirements

Steam Pressure		Water Pressure	
Minimum	Maximum	Minimum	Maximum
80 PSI	150 PSI	50 PSI	80 PSI

Hot and Cold Water Mixing Station



station is not supplied with hose and nozzle

Hot and cold water mixing station, bronze, wall mounted. **150 PSI** maximum, **200°F** maximum.

Features:

- control valves (globe style)
- in-line check valves
- ¾" inlet and outlet
- stainless steel hose rack
- mounting plate and hardware

Part #	Price/E
WDS1	\$1244.80

Rack for Mixing Station



Application:

Designed to hold 50' of ¾" heavy duty industrial grade hose.

Features:

- heavy duty stainless steel construction
- stainless steel lag screws
- heavy duty solid brass mounting crowns
- supplied with mounting hardware
- rack fits SWDS and WDS1 mixing stations

Part #	Price/E
WDSR	\$211.20

Hot Water Washdown Hose



Features:

- smooth extruded Chlorobutyl tube
- white, wrapped Neoprene cover (.075" thick), braided textile reinforcement
- furnished with internal stainless steel spring guards at both ends
- ¾" male on one end and ½" male on the other
- working pressure: **250 PSI**
- temperature to: **200°F**

Size	Part #	Price/E
5/8" x 25'	SWDSHOSE25	\$755.25
5/8" x 50'	SWDSHOSE50	1275.50

Hot Water Washdown Spray Nozzles

Applications:

For low pressure cleaning and sanitation applications, such as food and dairy processing, tank and drum cleaning, pharmaceutical and chemical manufacturing and meat and poultry packing.

- efficient design for operator comfort
- variable spray pattern from solid stream to 50° hollow cone
- hose connects at base of gun for easy maneuvering
- ½" female NPT inlet
- rubber coated handle protects hands from water temperatures to **150°F**

- **12.5 GPM** flow capacity at **150 PSI**
- **Do not use with steam lines.**



Cover Color	Brass		Aluminum	
	Part #	Price/E	Part #	Price/E
black	BWSG	\$269.40	AWSG	\$288.75
white	BWSG-W	295.95	AWSG-W	309.05

Swivel Connectors for Washdown Spray Guns

- 300 series stainless steel swivel connector for stainless spray nozzles

- 360° ball type swivel adapter helps prevent hose kinking

Ball Type Swivel x Hose Shank

NPT	Hose ID	Part #	Price/E
½"	1/2"	SSA44	\$201.25
½"	5/8"	SSA54	201.25
½"	¾"	SSA64	201.25



Features:

- stainless steel hose shank
- swivel body
- EPDM gasket

Straight Swivel x Hose Shank

NPT	Hose ID	Brass		Stainless Steel	
		Part #	Price/E	Part #	Price/E
½"	½"	BNS44	\$61.90	BNS44SS	\$81.40
½"	¾"	BNS64	61.90	BNS64SS	110.45



Straight Swivel x GHT Thread

NPT	Female GHT	Brass Part #	Price/E
½"	¾"	BMAS974	\$61.90



Thermal-Gard™ Elevated Temperature Spray Nozzle

The Thermal-Gard™ elevated temperature spray nozzle protects the operator from extreme hot water temperatures that exceed the comfort zone of standard hot water nozzles. 3/8" female NPT inlet. Black cover.

Features:

- Assembly includes required special rigid, stainless steel adapter, (3/8" male NPT x 1/2" female NPT).
- Thermal insulating sleeve reduces overall heat during elevated temperature conditions.
- Stainless steel lever handle is coated for additional thermal protection, and operator comfort.
- Lightweight aluminum alloy body reduces overall weight.
- Aluminum alloy body is electroless nickel plated for additional corrosion protection.

- Recommended for water temperatures above **140°F** to a maximum temperature of **200°F**.
- **12.5 GPM** flow capacity
- working pressure: **150 PSI**



Aluminum	
Part #	Price/E
AWSG-TG	\$355.80

Stainless Mini Spray Nozzle



Features:

- ½" female NPT inlet
- not for use with steam
- specifically designed as an industrial lightweight nozzle with heavyweight performance
- Nozzle cover is not only durable, but also protects the user from hot surfaces produced by high temperature wash down applications.
- reduces hand fatigue and offers smooth lever action
- variable spray patterns, from fan spray to solid stream
- Water conservation is assured upon release of the lever by the drip-free automatic shutoff feature.
- rated to **150 PSI / 200°F**
- **9.6 GPM** flow capacity at **100 PSIG**

Stainless Steel with Dark Blue Cover

Part #	Price/E
DM150SDB	\$192.50

Stainless Spray Nozzle



Features:

- ½" female NPT inlet
- specifically designed to prevent accidental spray
- durable dark blue cover design prevents front-mounted lever from being accidentally activated if nozzle is dropped
- design also reduces hand fatigue and offers smooth lever action
- trigger locking mechanism provides safe and secure method of keeping the nozzle open during any spray pattern
- variable spray patterns, from fan spray to solid stream
- drip-free automatic shut-off feature
- rated to **150 PSI / 200°F**
- **9.6 GPM** flow capacity at **100 PSIG**

Stainless

Part #	Price/E
D150SDB	\$379.75

Washdown Wand

Features:

- Designed to provide user with a means of 'reaching' desired washdown locations previously deemed unreachable by extending the nozzle by 3'.
- Adjustable spray tip can be changed from fan to solid spray by twisting the tip until the desired flow pattern is achieved.
- quick disconnect feature allows user to quickly connect wand to the nozzles above
- *Minimum pressure is 75 PSI, wand is not for use with steam.*



300 Series Stainless Steel

Part #	Price/E
D150S-WAND	\$388.15

Temperature Indicating Spray Nozzle

When you uncoil your hose and walk away from the hot and cold water mixer, you can no longer read the dial thermometer on the mixer. With the temperature indicating spray nozzle, you take your thermometer with you. ½" female NPT inlet. Black cover.

Features:

- Easy to read dial thermometer is located at the rear of the nozzle for accurate and continual monitoring of water temperature.
- The dial thermometer is all stainless steel with a plastic sight window, and the entire gauge assembly is recessed into the rubber cover for complete protection.
- Alerts the operator to shut-down the steam valve upon cold water failure, preventing scalding and steam burn injuries (ensures operator safety).
- ensures a more accurate discharge water temperature reading
- recommended for water temperatures to **200°F**
- maximum operating pressure: **150 PSI**
- **14 GPM** flow capacity



Bronze

Part #	Price/E
BWSG-TI	\$427.75

Stainless Steel Industrial Grade Spray Nozzle

Applications:

The stainless steel industrial grade spray nozzle is recommended for use on corrosive applications where bronze and aluminum are not suitable.

Features:

- heavy duty 300 series stainless steel body and barrel
- variable spray pattern adjusts from a soft spray to a solid stream
- Replaceable rubber cover is specially formulated to resist a wide range of oils and chemicals. Rubber cover also protects surrounding equipment.
- maximum operating pressure: **150 PSI**
- **8 GPM** flow capacity at **100 PSI**
- ½" female NPT inlet
- **200°F** maximum

300 Series Stainless Steel

Part #	Price/E
300SSSG	\$661.30



G

Brass Industrial Grade Front Lever Spray Nozzle

The brass industrial grade spray nozzle provides effortless one hand operation: by actuating the operating lever the valve is opened/closed and the jet power is regulated from spray to concentrated jet.

Features:

- maximum operating pressure: **350 PSI**
- suitable for hot water up to **122°F**
- The adjusting screw on the back of the gun allows you to fix the desired form of jet. The fixing clamp for the operating lever allows lockable position for service.
- **6.6 GPM** flow capacity at **72 PSI**
- ½" female NPT inlet
- durable nozzle constructed of a high quality brass and steel combination

Brass

Part #	Price/E
DWG050	\$195.00



Straight Through Quick-Connect Fittings

Features:

- These couplers have no internal valves, providing maximum flow with minimum pressure drop.
- Supplied with Buna-N gasket seal.
- Interchanges with Parker-Hannifin SST/BST, Foster FST and Hansen ST couplings.



• Do Not Disconnect with pressure in line.

Female Couplers

Size	Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	5500	brass	STFC2	\$8.15	12
3/8"	3/8" - 18	4500	brass	STFC3	10.05	12
1/2"	1/2" - 14	3500	brass	STFC4	14.50	12
3/4"	3/4" - 14	3100	brass	STFC6	27.85	12
1"	1" - 11½	2500	brass	STFC8	40.10	1
1-1/4"	1-1/4" - 11½	2500	brass	STFC10	108.30	1
1-1/2"	1-1/2" - 11½	2500	brass	STFC12	148.45	1
2"	2" - 11½	2500	brass	STFC16	204.50	1
1/4"	1/4" - 18	6700	303 stainless	STFC2SS	53.60	5
3/8"	3/8" - 18	5500	303 stainless	STFC3SS	78.10	5
1/2"	1/2" - 14	3000	303 stainless	STFC4SS	91.30	5
3/4"	3/4" - 14	3000	303 stainless	STFC6SS	156.60	5
1"	1" - 11½	1700	303 stainless	STFC8SS	211.70	5
1-1/4"	1-1/4" - 11½	2000	303 stainless	10EF10-S	285.65	10
1-1/2"	1-1/2" - 11½	2000	303 stainless	12EF12-S	413.70	5
2"	2" - 11½	2000	303 stainless	16EF16-S	492.51	1



NEW
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Male Couplers

Size	Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	5500	brass	STMC2	\$8.13	12
3/8"	3/8" - 18	4500	brass	STMC3	10.03	12
1/2"	1/2" - 14	3500	brass	STMC4	14.48	12
3/4"	3/4" - 14	3100	brass	STMC6	27.85	12
1"	1" - 11½	2500	brass	STMC8	40.10	1
1-1/4"	1-1/4" - 11½	2500	brass	STMC10	108.31	10
1-1/2"	1-1/2" - 11½	2500	brass	STMC12	148.45	5
2"	2" - 11½	2500	brass	STMC16	204.50	1
1/4"	1/4" - 18	6700	303 stainless	STMC2SS	55.45	5
3/8"	3/8" - 18	5500	303 stainless	STMC3SS	69.50	5
1/2"	1/2" - 14	3000	303 stainless	STMC4SS	96.15	5
3/4"	3/4" - 14	3000	303 stainless	STMC6SS	167.75	5
1"	1" - 11½	1700	303 stainless	STMC8SS	282.70	5



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Standard Hose Barb Couplers*

Size	Hose ID	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4"	5200	brass	2ES2-B	\$12.09	100
3/8"	3/8"	2800	brass	3ES3-B	13.37	50
1/2"	1/2"	2200	brass	4ES4-B	21.72	25
3/4"	3/4"	1700	brass	6ES6-B	33.42	20
1"	1"	1700	brass	8ES8-B	45.67	10



* Operating pressures for the standard hose barbs utilizing hose barb end connections may be dramatically reduced to that of the hose rating and/or hose and end connection combination. Consult hose manufacturer's catalog for hose end connection ratings. If in doubt, test under controlled conditions for suitability to application. Dixon cannot assume liability for misapplication of products resulting in equipment down-time, lost production, property damage and/or personal injury including death.

Straight Through Quick-Connect Fittings

Features:

- These plugs have no internal valves, providing maximum flow with minimum pressure drop.
- Interchanges with Parker-Hannifin SST/BST, Foster FST and Hansen ST couplings.
- See Hydraulic Profile Chart on page 724.



• Do Not Disconnect with pressure in line.

Female Plugs

Size	Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	5500	steel	STFP2	\$2.69	12
3/8"	3/8" - 18	4500	steel	STFP3	4.24	12
1/2"	1/2" - 14	3500	steel	STFP4	5.96	12
3/4"	3/4" - 14	3100	steel	STFP6	13.76	12
1"	1" - 11½	2500	steel	STFP8	25.79	1
1-1/4"	1-1/4" - 11½	2500	steel	STFP10	60.15	1
1-1/2"	1-1/2" - 11½	2500	steel	STFP12	96.70	1
2"	2" - 11½	2500	steel	STFP16	123.70	1
1/4"	1/4" - 18	3800	brass	STFP2B	5.05	12
3/8"	3/8" - 18	2700	brass	STFP3B	6.40	12
1/2"	1/2" - 14	2200	brass	STFP4B	9.55	12
3/4"	3/4" - 14	1700	brass	STFP6B	15.10	12
1"	1" - 11½	1200	brass	STFP8B	28.50	1
1-1/4"	1-1/4" - 11½	1800	brass	E10F10-B	52.45	10
1-1/2"	1-1/2" - 11½	1800	brass	E12F12-B	85.23	5
2"	2" - 11½	1800	brass	E16F16-B	115.83	1
1/4"	1/4" - 18	6700	303 stainless	STFP2SS	17.30	5
3/8"	3/8" - 18	5500	303 stainless	STFP3SS	20.20	5
1/2"	1/2" - 14	3000	303 stainless	STFP4SS	45.50	5
3/4"	3/4" - 14	3000	303 stainless	STFP6SS	69.05	5
1"	1" - 11½	1700	303 stainless	STFP8SS	124.70	5
1-1/4"	1-1/4" - 11½	2000	303 stainless	E10F10-S	134.95	10
1-1/2"	1-1/2" - 11½	2000	303 stainless	E12F12-S	236.16	5
2"	2" - 11½	2000	303 stainless	E16F16-S	303.63	1



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Male Plugs

Size	Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	5500	steel	STMP2	\$2.69	12
3/8"	3/8" - 18	4500	steel	STMP3	4.24	12
1/2"	1/2" - 14	3500	steel	STMP4	5.96	12
3/4"	3/4" - 14	3100	steel	STMP6	13.76	12
1"	1" - 11½	2500	steel	STMP8	25.79	1
1-1/4"	1-1/4" - 11½	2500	steel	STMP10	67.47	1
1-1/2"	1-1/2" - 11½	2500	steel	STMP12	96.71	1
2"	2" - 11½	2500	steel	STMP16	129.32	1
1/4"	1/4" - 18	3800	brass	STMP2B	4.70	12
3/8"	3/8" - 18	2700	brass	STMP3B	5.85	12
1/2"	1/2" - 14	2200	brass	STMP4B	9.05	12
3/4"	3/4" - 14	1700	brass	STMP6B	13.30	12
1"	1" - 11½	1600	brass	STMP8B	26.10	1
1-1/4"	1-1/4" - 11½	1800	brass	E10M10-B	60.10	10
1-1/2"	1-1/2" - 11½	1800	brass	E12M12-B	85.23	5
2"	2" - 11½	1800	brass	E16M16-B	116.92	1
1/4"	1/4" - 18	6700	303 stainless	STMP2SS	15.45	5
3/8"	3/8" - 18	5500	303 stainless	STMP3SS	17.45	5
1/2"	1/2" - 14	3000	303 stainless	STMP4SS	41.80	5
3/4"	3/4" - 14	3000	303 stainless	STMP6SS	65.25	5
1"	1" - 11½	1700	303 stainless	STMP8SS	132.55	5



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Standard Hose Barb Plugs*

Size	Hose ID	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4"	3800	brass	E2S2-B	\$5.01	100
3/8"	3/8"	2800	brass	E3S3-B	6.13	50
1/2"	1/2"	2200	brass	E4S4-B	11.70	25
3/4"	3/4"	1700	brass	E6S6-B	15.32	20
1"	1"	1700	brass	E8S8-B	33.42	10
1/4"	1/4"	5200	steel	E2S2	5.85	100
3/8"	3/8"	2800	steel	E3S3	7.57	50
1/2"	1/2"	2200	steel	E4S4	14.22	25
3/4"	3/4"	1700	steel	E6S6	17.99	20
1"	1"	1700	steel	E8S8	35.99	10



* Operating pressures for the standard hose barbs utilizing hose barb end connections may be dramatically reduced to that of the hose rating and/or hose and end connection combination. Consult hose manufacturer's catalog for hose end connection ratings. If in doubt, test under controlled conditions for suitability to application. Dixon cannot assume liability for misapplication of products resulting in equipment down-time, lost production, property damage and/or personal injury including death.

Pressure Spray Guns


Features:

- 3/8" female inlet
- 1/4" female outlet
- **8 GPM**
- operating pressure: **4500 PSI**
- temperatures to **300°F**
- anti-fatigue pressure compensating design
- W = weeping, for the car wash industry, allows a small stream of water / leak

Part #	Price/E
HPSG	\$81.40
HPSGW	92.40


Features:

- 3/8" female inlet
- 1/4" female outlet
- **8 GPM**
- operating pressure: **3700 PSI**
- temperatures to **320°F**

Part #	Price/E
HPSGC	\$61.40


Features:

- 3/8" female inlet
- 1/4" female outlet
- **8 GPM**
- operating pressure: **5000 PSI**
- temperatures to **300°F**
- heavy duty anti-fatigue design
- stainless inner tube
- Zytel® housing

Part #	Price/E
HPSGHD	\$103.75


Features:

- 3/8" female inlet
- 22 mm x 14 mm female outlet
- **8 GPM**
- operating pressure: **3700 PSI**
- temperatures to **104°F**
- extension length: 14"

Part #	Price/E
AL9	\$70.10


Features:

- gun: 22 mm male inlet ,22 mm x 14 mm female outlet end, operating pressure **2500 PSI**
- lance: 18" with vari-spray nozzle 1.25 mm with 22 mm male inlet
- hose: 25', 1/4" ID with 22 mm x 14 mm female ends
- nozzle: 4.0 variable nozzle 0° to 80°

Part #	Price/E
BIT-KIT	\$184.60

Spray Lances and Extensions for Pressure Gun

Spray Lance

Features:

- for use with **AL9** spray gun **only**
- operating pressure: **4000 PSI** maximum
- temperatures to **300°F**



Part #	Description	Length	Price/E
AL248	<i>zinc</i> , 22 mm x 14 mm male inlet x 1/4" male outlet	24"	\$25.50

Dual Spray Lances

Features:

- for use with **HPSG, HPSGC, HPSGHD** and **HPSGW**
- for soap and water
- temperatures to **300°F**

- **GPM: 10.5**
- requires 1 high pressure nozzle and 1 soap nozzle (pg. 301)
- Allows quick adjustment from high to low pressure with a twist of the handle; low pressure setting allows for use of soap.



AL344



AL333

Part #	Description	Length	Max. Operating PSI	Price/E
AL333	<i>zinc</i> , 1/4" male inlet 2 each 1/4" female outlets	40"	3,650	\$134.00
AL344	<i>stainless steel</i> , 1/4" male inlet, 2 each 1/4" female outlets	40"	4,000	182.75

Molded Grip Extensions

Features:

- for use with **HPSG, HPSGC, HPSGHD** and **HPSGW**
- operating pressure: **5000 PSI** maximum
- temperatures to **300°F**
- maximum **GPM: 10.5**



AL323

AL324

AL325 & AL326

Part #	Description	Length	Price/E
AL323XX	<i>zinc</i> , 1/4" male inlet x 1/4" male outlet	24"	\$21.55
AL324XX	<i>zinc</i> , 1/4" male inlet x 1/4" male outlet, 4" space from the end	36"	24.60
AL325XX	<i>zinc</i> , 1/4" male inlet x 1/4" male outlet, 2 grips	48"	42.90
AL326XX	<i>zinc</i> , 1/4" male inlet x 1/4" male outlet, 2 grips	59"	47.80

Vented Grip Lances

Features:

- for use with **HPSG, HPSGC, HPSGHD** and **HPSGW**
- for hot water

- operating pressure: **5000 PSI** maximum
- temperatures to **300°F**
- maximum **GPM: 10.5**



AL361



AL362

Part #	Description	Length	Price/E
AL361	<i>zinc</i> , 1/4" male inlet x 1/4" female outlet, straight	36"	\$49.90
AL362	<i>zinc</i> , 1/4" male inlet x 1/4" female outlet, bent	48"	73.55

Telescoping Lance and Belt for Pressure Gun

Features:

- 3/8" female (pipe thread) inlet
- 1/4" female (quick connect) outlet
- operating pressure: **4000 PSI** maximum



- 1/4" steel braided hose
- **GPM: 7**
- length is in three sections
- temperature up to **300°F**

Part #	Description	Length	Price/E
ARTEL18A	aluminum telescoping lance	6' - 18'	\$553.70



Telescoping Lance Belt

- made of nylon
- adjusts from a minimum of 33" waist to a maximum of 58"

Part #	Description	Price/E
ARTEL-BELT	telescoping lance belt	\$54.45

Quick Couplings and Plugs Swiveling Couplings



Features:

- operating pressure: **3650 PSI**
- **GPM: 7.8**
- temperature up to **300°F**



1/4" female x 22 mm x 1.5 mm swivel

Part #	Description	Price/E
AL450	swiveling quick coupling	\$16.15



1/4" male x 22 mm x 1.5 mm swivel

Part #	Description	Price/E
AL451	swiveling quick coupling	\$16.15



3/8" female x 22 mm x 1.5 mm swivel

Part #	Description	Price/E
AL453	swiveling quick coupling	\$19.35

for use with **AL456** only



3/8" female x female swivel

Part #	Description	Price/E
AL462	swiveling quick coupling	\$30.70

for use with **AL464** only

Features:

- operating pressure: **3650 PSI**
- **GPM: 7.8**

Fixed Plugs

- temperature up to **300°F**



1/4" female x 22 mm x 1.5 mm male

Part #	Description	Price/E
AL454	fixed quick coupling plug	\$11.75



1/4" male x 22 mm x 1.5 mm male

Part #	Description	Price/E
AL455F	fixed quick coupling plug	\$11.75



3/8" female x 22 mm x 1.5 mm male

Part #	Description	Price/E
AL456	fixed quick coupling plug	\$15.10

for use with **AL453** and **AL9**



3/8" female x male plug

Part #	Description	Price/E
AL464	fixed quick coupling plug	\$17.20

for use with **AL462** only

Injector Nozzles

Application: For injection of cleaning solutions into high pressure discharge lines

- 3/8" male inlet and outlet
- operating pressure: **4000 PSI**



AL477

Part #	Description	Orifice	GPM	Price/E
AL472	adjustable, green	1.8 mm	2 - 3	\$52.85
AL477	adjustable, red	2.1 mm	3 - 4	\$3.25
AL478	adjustable, blue	2.3 mm	4 - 5.5	\$3.25

Line Strainer

Features:

- operating pressure: **100 PSI**
- 1/2" female inlet, 1/2" male outlet
- .60 mesh cuffed filter
- 2 additional 1/4" side ports
- maximum **GPM 8**



Part #	Description	Price/E
AR3000-A2	aluminum line strainer	\$37.45

Nozzles

High Pressure Spray Soap Nozzles

Part #	Description	Price/E
NZ4040S	¼" male inlet, 40° spray angle, size #40	\$10.80
NZ8040S	¼" male inlet, 80° spray angle, size #40	10.80



High Pressure Spray Nozzles

Part #	Description	Price/E
NZ1504	¼" male NPT inlet, 15° spray angle, size 4	\$16.20
NZ2504	¼" male NPT inlet, 25° spray angle, size 4	16.20
NZ4004	¼" male NPT inlet, 40° spray angle, size 4	16.20



Quick Connect Soap Nozzle

Part #	Description	Price/E
NZ6540QCS	¼" straight through plug inlet, 65° spray angle, size #40	\$15.20

Use with ¼" couplers on page 296.



Quick Connect Spray Nozzles

Part #	Description	Price/E
MSP415	¼" straight through plug inlet, 15° spray angle, size #4, yellow	\$16.50
MSP425	¼" straight through plug inlet, 25° spray angle, size #4, green	16.50
MSP440	¼" straight through plug inlet, 40° spray angle, size #4, white	16.50

Use with ¼" couplers on page 296.



Multi-Pack Quick Connect Nozzles

- Multi-Pack includes all nozzles listed

Part #	Nozzle	Description	Price/E
MSP4PAK	NZ6540QCS	¼", 65° spray angle, size #40	\$65.25
	MSP415	¼", 15° spray angle, size #4, yellow	
	MSP425	¼", 25° spray angle, size #4, green	
	MSP440	¼", 40° spray angle, size #4, white	



Multi-Pack High Pressure Spray Nozzles

- ¼" quick connect nozzle multi-packs include: 0° red, 15° yellow, 25° green, 40° white and 50° black soap nozzles

Part #	Price/E	Nozzle Size	GPM @ PSI									
			800	1000	1500	2000	2500	3000	3500	4000	5000	
NZMQC5P-030	\$49.40	3.0	1.34	1.50	1.84	2.12	2.37	2.60	2.81	3.00	3.35	
NZMQC5P-035	49.40	3.5	1.57	1.75	2.14	2.47	2.77	3.03	3.27	3.50	3.91	
NZMQC5P-040	49.40	4.0	1.79	2.00	2.45	2.83	3.16	3.46	3.74	4.00	4.47	
NZMQC5P-045	49.40	4.5	2.01	2.25	2.76	3.18	3.56	3.90	4.21	4.50	5.03	
NZMQC5P-050	49.40	5.0	2.24	2.50	3.06	3.54	3.95	4.33	4.68	5.00	5.59	
NZMQC5P-055	49.40	5.5	2.46	2.75	3.37	3.89	4.35	4.76	5.14	5.50	6.15	
NZMQC5P-065	49.40	6.5	2.91	3.25	3.98	4.60	5.14	5.63	6.08	6.50	7.27	
NZMQC5P-080	49.40	8.0	3.58	4.00	4.90	5.66	6.32	6.93	7.48	8.00	8.94	
NZMQC5P-120	75.40	12.0	5.37	8.00	7.35	8.49	9.49	10.39	11.22	12.00	13.42	
NZMQC5P-150	75.40	15.0	6.71	7.50	9.19	10.61	11.86	12.99	14.03	15.00	16.77	

- ¼" MEG nozzle multi-packs include: 0°, 15°, 25°, 40° and 65° soap nozzles

Part #	Price/E	Nozzle Size	GPM @ PSI									
			800	1000	1500	2000	2500	3000	3500	4000	5000	
NZMMEG5P-035	\$51.50	3.5	1.57	1.75	2.14	2.47	2.77	3.03	3.27	3.50	3.91	
NZMMEG5P-040	51.50	4.0	1.79	2.00	2.45	2.83	3.16	3.46	3.74	4.00	4.47	
NZMMEG5P-045	51.50	4.5	2.01	2.25	2.76	3.18	3.56	3.90	4.21	4.50	5.03	
NZMMEG5P-050	51.50	5.0	2.24	2.50	3.06	3.54	3.95	4.33	4.68	5.00	5.59	
NZMMEG5P-055	51.50	5.5	2.46	2.75	3.37	3.89	4.35	4.76	5.14	5.50	6.15	



Turbo Nozzles

Features:

- 15° spray angle
- temperatures to **195°F**
- ceramic orifice



Part #	Description	Orifice	Nozzle Size	Max. Operating PSI	Price/E
AL-TPR25-30	¼" female inlet, yellow	1.30 mm	4.0	3,625	\$182.30
AL-TPR25-50	¼" female inlet, green	1.50 mm	5.5 - 6.0	3,625	182.30
AL-TPR25-70	¼" female inlet, red	1.70 mm	7.0 - 7.5	3,625	182.30
AL-TPR30-30	¼" female inlet, yellow	1.30 mm	4.0	5,075	276.25
AL-TPR30-50	¼" female inlet, green	1.50 mm	5.5	5,075	276.25
AL-TPR30-70	¼" female inlet, red	1.70 mm	6.5	5,075	276.25

Nozzle Holders

G



AL414



AL416

Features:

- temperatures to **300°F**

Part #	Description	GPM	Operating PSI	Price/E
AL414	adjustable hi/low nozzle holder with nozzle protector, ¼" female inlet and outlet	7.8	3,650	\$47.25
AL416	change over nozzle, ¼" female inlet, 2 each ¼" female outlet	8	2,900	63.30

Inlet Filter for Turbo Nozzles

Features:

- ¼" female inlet, ¼" male outlet
- temperatures to **212°F**
- 100 mesh filter



Part #	Description	GPM	Operating PSI	Price/E
AR3500	stainless steel, inlet water filter	8	5,000	\$37.50

Braided Rubber Hose



Part #	Pressure PSI	Length	Inside Diameter	Male Swivel Inlet	Male Swivel Outlet	Price/E
AR503830SSP	4,000	50'	3/8"	3/8"	3/8"	\$242.65

Hand Crank Hose Reel

Features:

- operating PSI: **3,000 PSI**
- temperature to: **160°F**
- 3/8" male outlet
- steel
- 3/8" female inlet
- holds 100' of 3/8" pressure hose



Part #	Price/E
AR-REEL100	\$397.80

Unloader Valves

Pressure regulating unloader valves automatically relieves pressure from the pump at shut-off.

Features:

- temperatures to **190°F**
- inlet: 2 each, 3/8" female NPT
- outlet: 3/8" female NPT
- bypass: 2 each, 3/8" female NPT

Part #	Description	GPM	Operating PSI	Price/E
AL605	yellow spring	8 gallons maximum	2,320	\$169.30
AL606	blue spring	8 gallons maximum	3,650	169.30
AL607	black spring	8 gallons maximum	4,500	174.40



Features:

- temperatures to **190°F**
- inlet: 3/8" female
- outlet: 3/8" male
- bypass: 3/8" female

Part #	Description	GPM	Operating PSI	Price/E
AR20831	VR-35 unloader valve	9	5,100	\$215.60



G

Valves

Thermal Relief Valve

Features:

- operating PSI: **200 PSI**
- temperatures to **140°F**
- inlet: 1/2" male

Part #	Price/E
TPP140	\$22.70



Safety Release Valve

Features:

- operating PSI: **1,000 to 4,000 PSI**
- temperatures to **200°F**
- inlet: 3/8" male
- 6 GPM**

Part #	Price/E
AR5000-1	\$34.35



Balance Release Valve

Features:

- operating PSI: **4,000 PSI**
- temperatures to **195°F**
- 6.6 GPM**
- inlet/outlet: 3/8" female NPT
- bypass: 3/8" female NPT

Part #	Price/E
AL702	\$107.80



Water Broom

Features:

- operating PSI: **4,000 PSI**
- 1/4" quick connect plug
- stainless steel

Part #	Description	Price/E
AR-BROOM16	16", 4 nozzle broom	\$135.30



Garden Hoses Perfect Water Hose



Features

- for residential and industrial use
- lightweight, easy handling
- heavy duty male and female garden hose fittings
- blue cover
- polypropylene double helix construction with TPE cover
- flexible and kink-free
- working pressure: **100 PSI** at 70°F
- burst pressure: 300 PSI at 70°F
- temperature range: **-20°F to 158°F**

Part #	Size	Price/E
PWH25	5/8" x 25'	\$84.00
PWH50	5/8" x 50'	155.00
PWH100	5/8" x 100'	288.00

Top Level PVC Hose



Features:

- heavy-duty 3/4" brass couplings
- kink resistant
- green cover
- working pressure: **100 PSI**
- temperature range: **15°F to 150°F**

Part #	Size	Price/E
GGH25	5/8" x 25'	\$29.00
GGH50	5/8" x 50'	47.00
GGH75	5/8" x 75'	66.00

Premium Flexzilla® Garden Hose

Features:

- temperature range: **-40°F to 150°F**
- premium hybrid polymer material
- anodized aircraft aluminum fittings on both ends of hose
- kink resistant under pressure
- no memory - lays flat, coils easily
- abrasion resistant
- 3/4" - 1 1/2" GHT fittings
- rugged bend restrictors
- lightweight



Part #	Size	Price/E
KRH50	5/8" x 50'	\$128.75
KRH75	5/8" x 75'	165.90
KRH100	5/8" x 100'	201.90

Flexogen® Hose

Features:

- heavy-duty, crush resistant, full-flow brass couplings with a built-in washer for tight sealing
- coils and handles easily in all weather
- patented 8-ply construction
- lightweight
- maximum kink resistance
- flow guard plus protective collar resists kinks at faucet
- polished surface resists abrasions, stains and mildew
- machined brass ends standard



Part #	Size	Price/E
FGH25	5/8" x 25'	\$55.70
FGH50	5/8" x 50'	94.30

Rubber Vinyl Garden Hose

Features:

- extra tough, five-ply construction
- exclusive, soft textured, abrasion-resistant green cover
- dual reinforced, heavy-duty, flexibility, kink resistance
- combines durability of rubber, easy handling of vinyl
- SEAL-TITE® leakproof coupling
- working pressure: **150 PSI**
- temperature range: **0°F to 140°F**



Part #	Size	Price/E	Opt Qty
SGH25	5/8" x 25'	\$49.25	5
SGH50	5/8" x 50'	85.00	5
SGH75	5/8" x 75'	115.60	3
SGH100	5/8" x 100'	160.00	3
SGH50-75	3/4" x 50'	116.00	5
SGH75-75	3/4" x 75'	176.50	3

Garden Hoses

Contractors Rubber Water Hose

Features:

- heavy duty, crush proof solid brass couplings with wrench grips
- EPDM tube
- spiral synthetic cord reinforcement
- black EPDM cover
- working pressure: **150 PSI**
- temperature range: **-20°F to 180°F**

Part #	Size	Price/E	Opt Qty
CWH50	3/4" x 50'	\$172.00	5

**Features:**

- professional grade reinforcement provides maximum strength
- heavy-duty flexibility
- ultimate kink resistance
- SEAL-TITE® leakproof coupling
- EPDM tube
- black EPDM cover
- working pressure: **125 PSI**
- temperature range: **-20°F to 160°F**

Part #	Size	Price/E	Opt Qty
PGH50	5/8" x 50'	\$112.20	5
PGH100	5/8" x 100'	244.00	3



G

Hot Water Rubber Reinforced Hose

Features:

- industrial style reinforcing for flexibility, high burst strength
- extra heavy-duty, crush-proof, machined brass couplings
- maximum wear, abrasion-resistant red cover
- withstands extensive hot water (**200°F**) use
- working pressure: **130 PSI**

Part #	Size	Price/E	Opt Qty
HWH50	5/8" x 50'	\$128.00	5
HWH50-75	3/4" x 50'	189.50	3



Marine, Camper, Patio & Pool Hose

Features:

- lightweight to handle, easy to store
- USFDA - approved tube materials for food contact use
- nickel plated couplings
- white cover
- working pressure: **80 PSI** at ambient temperature (70°F)

Part #	Size	Price/E	Opt Qty
MCH50	5/8" x 50'	\$74.25	5



Country Club® RT Hose

Features:

- for golf courses, parks, nurseries
- premium PVC for high strength, flexibility
- lightweight, easy handling
- industrial knit reinforcing for kink resistance
- heavy duty 1" NPSH brass couplings
- green cover
- working pressure: **150 PSI** at ambient temperature (70°F)
- burst pressure: **450 PSI**

Part #	Size	Price/E	Opt Qty
CCH50	1" x 50'	\$316.70	2



Nozzles

Brass / Rubber Power Flow Water Nozzle


Features:

- all metal body and handle
- curved design to fit the contour of your hand
- overmold for comfortable handling
- built in flow control to regulate the amount of water flow
- locking feature to make extended watering easy
- large easy-turn dial

Thread Size	Part #	Price/E
3/4" GHT	PNB75GHT	\$39.80

Insulated Water Nozzles


Features:

- clip locks any spray pattern
- chrome plated all zinc body
- industrial strength nylon handle
- rubber handle guard
- GHT thread on head
- heavy duty brass valve and adjusting nut
- hot water up to **180°F**

Thread Size	Part #	Price/E
3/4" GHT	SN75	\$23.50

Pistol-Grip Water Nozzle


Features:

- clip locks any spray pattern
- easy squeeze on/off lever
- heavy duty all zinc metallized body
- brass valve and adjusting nut
- stainless steel spring with lifetime packing
- rubber handle guard

Thread Size	Part #	Price/E
3/4" GHT	CSN75	\$13.45

Brass Twist Nozzles


Features:

- brass
- for use up to **150 PSI** (water only)
- **500-AN4** and **500-AN7** are imported

Thread Size	Length	Part #	Price/E
3/4" GHT	4"	BTN75	\$17.90
3/4" GHT	4"	500AN4	12.75
3/4" GHT	6"	500-AN7	37.02

Adjust-a-Power Nozzle


Features:

- ideal for patio, auto and boat, driveway and garden
- produces 50% more power than twist nozzles
- does not require a washer
- leave nozzle in the open position when not in use
- brass construction with stainless steel bearings
- for use up to **100 PSI** (water only) at ambient temperature (70°F)

Thread Size	Part #	Price/E
3/4" GHT	AAPN75GHT	\$24.00

Nozzles and Accessories

Green Constant Flow Nozzle Display

Features:

- shatterproof and UV resistant GE Lexan® is able to withstand tough environmental conditions
- easy twist spray pattern adjustment
- sold in case quantity only, with display
- 25 nozzles per case



Thread Size	45° Spray GPM @ 100 PSI	Part #	Price/case
3/4" GHT	25.1	FNB75GHT-GD	\$493.00

Green Constant Flow Nozzle with Bumper

Features:

- green plastic
- steel stem
- can be used as a replacement for nozzles in the case listed above



Thread Size	45° Spray GPM @ 100 PSI	Part #	Price/E
3/4" GHT	25.1	GNB75GHT	\$20.30

Fire Hose Nozzle with Bumper

Features:

- red polycarbonate with brass stem
- adjusts from Straight Stream to Fog
- for use up to **100 PSI** (water only) at ambient temperature (70°F)



Thread Size	Solid Stream @ 100 PSI	45° Spray GPM @ 100 PSI	120° Spray GPM @ 100 PSI	Part #	Price/E
3/4" GHT	20	25.1	30.9	FNB75GHT	\$40.80

Brass Sweeper Nozzle

Thread Size	Discharge	Length	Part #	Price/E
3/4" GHT	3/16"	2"	PSN76	\$7.75



Brass Plain Hose Nozzle

Features:

- brass with satin finish
- for use up to **100 PSI** (water only) at ambient temperature (70°F)



Thread Size	Discharge	Length	Part #	Price/E
3/4" GHT	1/4"	6"	BN6	\$41.75

Hydrant Adapter

- cast brass

Female NST	Male GHT	Part #	Price/E
2 1/2"	3/4"	HA2576	\$29.35



Washers and Gaskets



TVW7



TRW7



TVS7-30



5911212W

Material	Description	Part #	Price/E	Opt Qty
red vinyl	GHT washer	TVW7	\$0.10	100
white rubber (Styrene Butadiene)	GHT washer	TRW7	0.25	100
FDA approved, black vinyl	garden hose screen gasket, 6050 mesh, 304 SS	TVS7-30	0.79	100
black 80 duro SBR	GHT washer	5911212W	0.26	100

Compression bibb faucets sold on pages 308 and 571.

Garden Hose Accessories

Standard Flow Fittings

Flexible Water Nozzle

Features:

- bends for water flow, shuts off when released
- 3/4" GHT



Part #	Price/E
8005	\$41.15

Radiator Bibb

Features:

- vinyl spout
- 1/4" female pipe thread connection



Part #	Price/E
8013	\$30.20

Garden Hose Gooseneck

Features:

- powder-coated zinc gooseneck connector angles hose away from hose bib
- 125 PSI at ambient temperature (70°F)



Part #	Price/E
GHGN	\$14.10

Straight GHT Valve

Features:

- powder-coated zinc shut-off valve
- hot water up to 160°F
- 150 PSI



Part #	Price/E
GHV	\$12.20

GHT Twin Valve

Features:

- powder-coated zinc with twin shut-off valves
- hot water up to 160°F
- 150 PSI



Part #	Price/E
GHYV	\$17.10

GHT Y

Features:

- powder-coated zinc with twin outlet
- includes one end cap
- hot water up to 160°F
- 150 PSI



Part #	Price/E
GHY	\$9.75

GHT 4-Valve Manifold



Features:

- forged brass
- stainless balls
- PTFE seats
- swivel inlet

Part #	Price/E
500GH4VBK	\$62.22

Compression Bibb Faucets



Features:

- rough brass finish
- nozzle end is GHT
- for water use only

Male NPT Inlet Size	Brass	
	Part #	Price/E
1/2"	35-201-10	\$28.70
3/4"	35-202-10	28.70

GHT Zinc Hose Fittings

Features:

- premium brass and zinc construction for maximum strength and durability
- patented impact resistant clamp design
- non-corroding high grade 410 stainless steel screws will not strip when tightened
- leakproof, reusable
- for rubber or plastic hose
- **fits all 5/8" and 3/4" hose**

Opt Qty	Female Part #	Price/E	Male Part #	Price/E	Mender Part #	Price/E
48	M5834F	\$14.60	M5834M	\$13.00	M5834HM	\$20.25



female



male



mender

G

GHT Coupler and Adapter

Size	glass reinforced nylon Part #	Price/E
3/4"	75-AGH-NY	\$8.00



male adapter x female GHT

Size	glass reinforced nylon Part #	Price/E
3/4"	75-BGH-NY	\$17.10



female coupler x male GHT

Brass Garden Hose Quick Connectors

Features:

- Precision machined from solid brass with easy push-pull ring for long lasting and quick hose attachments.
- maximum operating pressure: **200 PSI** at ambient temperature (70°F)

Description	Part #	Price/E	Opt Qty
complete assembly	DGH7	\$14.60	25
male plug	DGH7P	4.63	25
female coupler	DGH7C	9.97	25
seal	DGHW7	0.77	25
valved coupler - water shutoff	DGH7CV	13.82	25
complete valved assembly	DGH7V	18.44	25



Spray Valve and Hose Assembly

Spray Valves

Features:

- even spray valve mist provides the proper moisture on paper roll ends
- helps eliminate wrinkles and folder delivery problems, increasing pressroom production and reducing waste
- A slight flex of the hose in any direction (360°) activates the spray.
- quick action with no protruding levers, thumb depressors, triggers or other devices utilized
- Positive water seal when hose is released causes the internal valve to close and immediately shut off spray.
- sealed mechanism with no packing gland



valve with hook

Female NPT Size	Description	Part #	Price/E
1/4"	valve, no hook	83304	\$48.64
3/8"	valve, no hook	83306	48.64
1/4"	valve, with hook	83304H	51.67
3/8"	valve, with hook	83306H	51.67

Spray Valve Hose Assembly

Male NPT Inlet	Description	Part #	Price/E
3/8"	3/8" ID, 5' hose	8320605	\$72.73

Short Shank GHT Fittings

uses washers on page 307

complete couplings



round nut



hex nut

Hose Size	Part # (round nut)	Brass		Price/E
		Part # (hex nut)	Price/E	
1/2"	BGH74	\$12.67	HNBGH74	\$12.72
5/8"	BGH75	12.75	HNBGH75	12.77
3/4"	BGH76	12.86	HNBGH76	13.04

female GHT couplings



round nut



hex nut

Hose Size	Shank Length	Brass		Price/E
		Part # (round nut)	Part # (hex nut)	
1/2"	1"	BGHF74	HNBGHF74	\$6.44
5/8"	1"	BGHF75	HNBGHF75	6.49
3/4"	1"	BGHF76	HNBGHF76	6.76

male GHT couplings



Hose Size	Shank Length	Brass	
		Part #	Price/E
1/2"	1"	BGHM74	\$6.28
5/8"	1"	BGHM75	6.28
3/4"	1"	BGHM76	6.28

Aluminum Short Shank Fitting with Octagon Nut

complete couplings



Hose Size	Shank Length	Aluminum	
		Part #	Price/E
3/8"	13/16"	ABC73	\$5.95
1/2"	13/16"	ABC74	5.95
5/8"	1-1/8"	ABC75	5.95
3/4"	1-1/8"	ABC76	5.95

Brass Short Shank Fittings - NPSM Thread

uses KRW washers on page 275

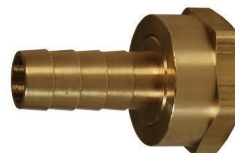
complete machined coupling

Hose ID	Thread	Part #	Price/E
1/2"	3/4"	BS406	\$19.55
3/4"	3/4"	BS606	20.40
1"	1"	BS808 ¹	27.56



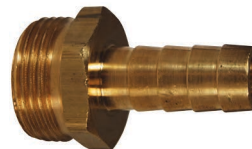
machined female with swivel nut

Hose ID	Thread	Part #	Price/E
1/2"	3/4"	BS446	\$8.75
5/8"	3/4"	BS546	9.55
3/4"	3/4"	BS646	9.80
1"	1"	BS848 ¹	13.64



machined male

Hose ID	Thread	Part #	Price/E
1/2"	3/4"	BS416	\$10.80
3/4"	3/4"	BS616	10.60
1"	1"	BS818 ¹	13.92



¹ NPSH threads

GHT Thread Fitting with Hex Nut

uses washers on page 275

complete cast coupling (sold in complete sets only)

Hose Size	Brass		Price/E
	Part #	Price/E	
1/2"	CBC74		\$12.60
5/8"	CBC75		12.60
3/4"	CBC76		12.60
1"	CBC88 ¹		21.50



¹ NPSM threads

complete machined coupling

Hose Size	Brass		303 Stainless	
	Part #	Price/E	Part #	Price/E
3/8"	BC73	\$13.53	---	---
1/2"	BC74	13.34	SSC74	\$157.55
5/8"	BC75	13.90	SSC75	157.55
3/4"	BC76	14.21	SSC76	157.55
1"	BC78	21.07	---	---



machined female with swivel nut

Hose Size	Brass		303 Stainless		Pkg Qty
	Part #	Price/E	Part #	Price/E	
3/8"	BCF73	\$7.10	---	---	25
1/2"	BCF74	7.10	SSCF74	\$97.58	25
5/8"	BCF75	7.10	SSCF75	97.58	25
3/4"	BCF76	7.41	SSCF76	97.58	25
1"	BCF78	12.38	---	---	10



machined male

Hose Size	Brass		303 Stainless		Pkg Qty
	Part #	Price/E	Part #	Price/E	
3/8"	BCM73	\$6.43	---	---	25
1/2"	BCM74	6.24	SSCM74	\$59.98	25
5/8"	BCM75	6.80	SSCM75	59.98	25
3/4"	BCM76	6.80	SSCM76	59.98	25
1"	BCM78	8.69	---	---	10



GHT Adapters



female GHT swivel

Female x Female	Brass		Opt Qty
	Part #	Price/E	
GHT x GHT	BA977	\$9.98	25



female GHT swivel x female NPTF

Female x Female	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
GHT x 1/2" NPTF	BAS974	\$8.72	RAS974 ¹	\$73.46	25
GHT x 3/4" NPTF	BAS976	10.54	RAS976 ¹	78.90	10



female GHT swivel x male NPTF

Female x Male	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
GHT x 1/4" NPTF	504-1204	\$8.97	---	---	25
GHT x 3/8" NPTF	504-1206	9.05	---	---	25
GHT x 1/2" NPTF	504-1208	9.14	R504-1208 ¹	\$84.43	25
GHT x 3/4" NPTF	504-1212	10.72	R504-1212 ¹	91.27	25



female GHT x male NPTF

Female x Male	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
GHT x 3/8" NPTF	BMA973	\$7.64	---	---	25
GHT x 1/2" NPTF	BMA974	7.95	RMA974 ¹	\$48.80	25
GHT x 3/4" NPTF	BMA976	10.05	RMA976 ¹	50.04	25



rigid female GHT x female NPTF

Female x Female	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
GHT x 1/8" NPTF	BA971	\$7.36	---	---	50
GHT x 1/4" NPTF	BA972	8.11	---	---	25
GHT x 3/8" NPTF	BA973	8.21	---	---	25
GHT x 1/2" NPTF	BA974	10.32	RA974 ¹	\$48.16	25
GHT x 3/4" NPTF	BA976	10.08	RA976 ¹	48.16	25



threaded male



Male x Male	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
GHT x GHT	BA777 ²	\$5.77	RA777 ¹	\$36.33	25
1" NPSH x GHT	509-1612 ²	11.76	---	---	20



male GHT x male NPTF

Male x Male	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
GHT x 3/8" NPTF	BA73 ²	\$5.42	---	---	25
GHT x 1/2" NPTF	BA74 ²	5.85	RA74 ¹	\$39.82	25
GHT x 3/4" NPTF	BA776 ^{2,3}	6.32	RA776 ¹	38.48	25
GHT x 1" NPTF	BA78 ²	14.09	---	---	10



male GHT x female NPTF

Male x Female	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
GHT x 1/4" NPTF	507-1204 ²	\$4.59	---	---	25
GHT x 3/8" NPTF	507-1206 ²	4.75	---	---	25
GHT x 1/2" NPTF	BA794 ²	4.99	RA794 ¹	\$28.73	25
GHT x 3/4" NPTF	BA796 ²	7.83	RA796 ¹	47.73	25



garden hose cap

Female	Brass		Opt Qty
	Part #	Price/E	
GHT	GHC7	\$4.32	25

¹ stainless steel fittings are NPT

² redesigned with extended male GHT, deeper thread

³ BA776 also has 1/2" female NPT on ID of 3/4" male NPT side

Adapters

hex nipples

• ref SAE 130137

NPTF Thread	Brass Part #	Price/E	Opt Qty
1/8" x 1/8"	BCN12	\$2.15	100
1/4" x 1/4"	BCN25	2.78	100
3/8" x 3/8"	BCN37	3.81	50
1/2" x 1/2"	BCN50	5.64	25
3/4" x 3/4"	BCN75	7.47	25
1" x 1"	BCN100	17.77	10



hex head plugs

NPT Thread	Brass Part #	Price/E	Opt Qty
1/8"	HHP1M	\$1.23	
1/4"	HHP2M	1.82	
3/8"	HHP3M	2.45	
1/2"	HHP4M	4.30	
3/4"	HHP6M	6.62	
1"	HHP8M	12.79	



• hex head plug is hollow

square head plugs

NPT Thread	Brass Part #	Price/E	Opt Qty
1/8"	211-0200C	\$2.33	50
1/4"	211-0400C	3.86	100
3/8"	211-0600C	5.84	25
1/2"	211-0800C	10.59	25
3/4"	211-1200C	16.29	25



male unions

NPSM	NPSM	Brass Part #	Price/E
1/8"	1/8"	176-0202	\$2.88
1/4"	1/4"	176-0404	3.19
3/8"	3/8"	176-0606	4.74
1/2"	1/2"	176-0808	6.11



female NPSH x female NPSH swivel

Female NPSH	Female NPSH	Brass Part #	Price/E
1"	1"	BA1616	\$18.60



female hex couplings

• ref SAE 130138

NPTF Thread	Brass Part #	Price/E
1/8" x 1/8"	BA1F1F	\$2.82
1/4" x 1/4"	BA2F2F	4.73
3/8" x 3/8"	BA3F3F	5.55
1/2" x 1/2"	BA4F4F	8.62
3/4" x 3/4"	BA6F6F	14.99



hex socket plugs

NPT Thread	Brass Part #	Price/E	Opt Qty
1/8"	219-0200	\$1.28	50
1/4"	219-0400	2.33	100
3/8"	219-0600	3.50	25
1/2"	219-0800	6.65	25
3/4"	219-1200	9.70	25



threaded unions

NPT Thread	Brass Part #	Price/E
1/4"	TUN2F	\$26.10
3/8"	TUN3F	26.60
1/2"	TUN4F	29.90



ball seat to male pipe

NPSM	NPTF	Brass Part #	Price/E	Opt Qty
1/8"	1/8"	BSM11	\$2.37	100
1/4"	1/8"	BSM21	2.46	100
1/4"	1/4"	BSM22	2.60	100
3/8"	1/4"	BSM32	3.84	100
3/8"	3/8"	BSM33	3.84	50
3/8"	1/2"	BSM34	6.36	50
1/2"	3/8"	BSM43	4.34	50
1/2"	1/2"	BSM44	5.77	50
3/4"	3/4"	BSM66	7.64	25



Bulkhead Couplings

Brass Part #	Female NPTF	Hole Size	Length	Price/E
207BH2	1/8"	5/8"	1.50"	\$9.99
207BH4	1/4"	3/4"	1.50"	11.64
207BH4S	1/4"	3/4"	.94"	9.43
207BH6	3/8"	1"	1.31"	14.80
207BH8	1/2"	1-1/8"	1.50"	20.20
207BH12	3/4"	1-5/16"	1.50"	101.05



Adapters

reducer hex bushings

- ref SAE 130140

Female NPTF	Male NPTF	Brass Part #	Price/E	Opt Qty
1/8"	1/4"	HB1F2M	\$1.99	100
1/8"	3/8"	HB1F3M	2.40	100
1/8"	1/2"	HB1F4M	4.08	25
1/8"	3/4"	HB1F6M	7.14	25
1/4"	3/8"	HB2F3M	2.66	100
1/4"	1/2"	HB2F4M	4.19	50
1/4"	3/4"	HB2F6M	7.65	25
1/4"	1"	HB2F8M	15.07	10
3/8"	1/2"	HB3F4M	3.53	50
3/8"	3/4"	HB3F6M	6.70	25
3/8"	1"	HB3F8M	14.53	10
1/2"	3/4"	HB4F6M	7.03	25
1/2"	1"	HB4F8M	13.98	10
3/4"	1"	HB6F8M	11.50	10



reducer hex nipples

- ref SAE 130137

NPTF Thread	Brass Part #	Price/E	Opt Qty
1/4" x 1/8"	HN2M1M	\$2.82	100
3/8" x 1/8"	HN3M1M	4.09	50
3/8" x 1/4"	HN3M2M	3.82	50
1/2" x 1/4"	HN4M2M	5.30	50
1/2" x 3/8"	HN4M3M	5.50	50
3/4" x 1/2"	HN6M4M	8.44	25



threaded adapters

Female NPTF	Male NPSM	Brass Part #	Price/E	Opt Qty
1/4"	1/4"	174-0404	\$3.96	100
3/8"	3/8"	174-0606	4.62	50
1/2"	1/2"	174-0808	6.00	50



Female NPTF	Male NPTF	Brass Part #	Price/E	Opt Qty
1/8"	1/8"	RA1F1M	\$2.27	100
1/4"	1/4"	RA2F2M	3.99	50
3/8"	3/8"	RA3F3M	4.93	50
1/2"	1/2"	RA4F4M	7.55	25
3/4"	3/4"	RA6F6M	13.26	10



reducer adapters

- ref SAE 130139

Female NPTF	Male NPTF	Brass Part #	Price/E	Opt Qty
1/4"	1/8"	RA2F1M	3.81	50
3/8"	1/8"	RA3F1M	4.44	50
3/8"	1/4"	RA3F2M	4.46	50
1/2"	1/4"	RA4F2M	6.89	25
1/2"	3/8"	RA4F3M	6.00	25
3/4"	3/8"	RA6F3M	10.65	10
3/4"	1/2"	RA6F4M	10.40	10



reducer couplings

- ref SAE 130138

NPTF Thread	Brass Part #	Price/E
1/4" x 1/8"	RC2F1F	\$4.51
3/8" x 1/8"	RC3F1F	5.08
3/8" x 1/4"	RC3F2F	5.05
1/2" x 1/4"	RC4F2F	7.13
1/2" x 3/8"	RC4F3F	6.90
3/4" x 3/8"	RC6F3F	11.62
3/4" x 1/2"	RC6F4F	11.36



NPT pipe caps

NPT Thread	Brass Part #	Price/E	Opt Qty
1/8"	213-0200	\$2.23	50
1/4"	213-0400	3.31	100
3/8"	213-0600	5.51	25
1/2"	213-0800	6.87	25
3/4"	213-1200	10.68	25



Pipe Nipples

long pipe nipples

NPT Thread	Length	Brass Part #	Price/E	Opt Qty
1/8"	1-1/2"	166-0215	\$2.44	25
1/8"	2"	166-0220	3.36	25
1/8"	2-1/2"	166-0225	4.09	25
1/8"	3"	166-0230	4.14	25
1/8"	3-1/2"	166-0235	4.55	10
1/8"	4"	166-0240	5.50	10
1/4"	1-1/2"	166-0415	3.82	25
1/4"	2"	166-0420	4.65	25
1/4"	2-1/2"	166-0425	6.40	25
1/4"	3"	166-0430	5.83	25
1/4"	3-1/2"	166-0435	6.33	10
1/4"	4"	166-0440	6.65	10
1/4"	5"	166-0450	8.36	5
3/8"	1-1/2"	166-0615	3.77	25
3/8"	2"	166-0620	4.97	25
3/8"	2-1/2"	166-0625	7.46	10
3/8"	3"	166-0630	7.58	10
3/8"	3-1/2"	166-0635	7.89	10
3/8"	4"	166-0640	9.49	5
1/2"	1-1/2"	166-0815	5.34	10
1/2"	2"	166-0820	6.12	10
1/2"	2-1/2"	166-0825	9.37	10
1/2"	3"	166-0830	9.90	10
1/2"	3-1/2"	166-0835	11.63	10
1/2"	4"	166-0840	11.60	5
3/4"	2"	166-1220	9.13	25
3/4"	2-1/2"	166-1225	11.67	25
3/4"	3"	166-1230	12.77	25
3/4"	3-1/2"	166-1235	13.30	25
1"	2"	TN100X2B	21.00	---
1"	3"	TN100X3B	31.50	---
1"	4"	TN100X4B	42.00	---
1 1/2"	2"	TN150X2B	34.15	---
1 1/2"	3"	TN150X3B	47.00	---
2"	3"	TN200X3B	63.00	---
2"	4"	TN200X4B	84.00	---
2"	6"	TN200X6B	116.30	---

• carbon steel and stainless steel nipples are available on page 629



H

close pipe nipples

NPT Thread	Brass Part #	Price/E	Opt Qty
1/8"	165-0202	\$1.56	50
1/4"	165-0404	2.12	50
3/8"	165-0606	2.45	100
1/2"	165-0808	5.04	25
3/4"	165-1212	9.18	25
1"	165-1616	12.33	25
1 1/2"	CN150B	31.75	5
2"	CN200B	48.35	5
3"	CN300B	173.40	5

• carbon steel, galvanized steel and stainless steel nipples are available on pages 239 and 628



Pipe Crosses - Extruded

Female NPTF Size	Brass Part #	Price/E	Opt Qty
1/8"	228-0202	\$6.18	25
1/4"	228-0404	10.42	25
3/8"	228-0606	12.56	25
1/2"	228-0808	26.98	10
3/4"	228-1212	40.24	10



Tees

street tees - extruded



• ref SAE 130424

Female NPTF	Male NPTF	Brass Part #	Price/E	Opt Qty
1/8"	1/8"	326-0202	\$5.03	25
1/4"	1/4"	326-0404	8.12	25
3/8"	3/8"	326-0606	11.12	25
1/2"	1/2"	326-0808	21.81	25
3/4"	3/4"	326-1212	34.08	10

male branch tees - extruded



• ref SAE 130425

NPTF Thread	Brass Part #	Price/E	Opt Qty
1/8"	324-0202	\$5.80	25
1/4"	324-0404	9.03	25
3/8"	324-0606	11.32	25
1/2"	324-0808	20.28	25
3/4"	324-1212	34.26	10

female tees - extruded



• ref SAE 130438

NPTF Thread	Brass Part #	Price/E	Opt Qty
1/8"	322-0202	\$4.88	25
1/4"	322-0404	8.44	25
3/8"	322-0606	11.37	25
1/2"	322-0808	21.77	25
3/4"	322-1212	29.31	10

Elbows

90° male pipe elbows - forged



Male PTF	Brass Part #	Price/E	Opt Qty
1/8"	169-0202	\$3.35	25
1/4"	169-0404	4.61	25
3/8"	169-0606	6.68	25
1/2"	169-0808	11.12	25

90° female pipe elbows - extruded



• ref SAE 130238

Female NPTF	Brass Part #	Price/E	Opt Qty
1/8"	EL1F1F	\$4.42	25
1/4"	EL2F2F	7.01	25
3/8"	EL3F3F	9.26	25
1/2"	EL4F4F	17.49	25
3/4"	EL6F6F	25.95	10

90° street elbows - extruded



• ref SAE 130239

Female NPTF	Male NPTF	Brass Part #	Price/E	Opt Qty
1/8"	1/8"	SE1F1M	\$4.33	25
1/4"	1/8"	SE2F1M	6.00	25
1/4"	1/4"	SE2F2M	6.94	25
3/8"	1/4"	SE3F2M	7.58	25
3/8"	3/8"	SE3F3M	9.57	25
1/2"	3/8"	SE4F3M	13.72	25
1/2"	1/2"	SE4F4M	17.10	25
3/4"	1/2"	SE6F4M	19.17	25
3/4"	3/4"	SE6F6M	25.27	10

45° street elbows - extruded



• ref SAE 130339

Female NPTF	Male NPTF	Brass Part #	Price/E	Opt Qty
1/8"	1/8"	306-0202	\$4.44	25
1/4"	1/4"	306-0404	4.86	25
3/8"	3/8"	306-0606	7.36	25
1/2"	1/2"	306-0808	12.89	25
3/4"	3/4"	306-1212	21.07	10

H

Barbed Hose Fittings

male inserts

Hose ID	NPTF Thread	Brass		Opt Qty	Hose ID	NPTF Thread	Brass		Opt Qty
		Part #	Price/E				Part #	Price/E	
1/8"	1/8"	BN11	\$1.70	100	1/2"	1/4"	BN42	\$3.14	50
1/8"	1/4"	BN122	2.23	100	1/2"	3/8"	BN43	3.21	50
3/16"	1/8"	BN151	1.86	100	1/2"	1/2"	BN44	4.87	50
3/16"	1/4"	BN152	2.39	100	1/2"	3/4"	BN46	7.29	25
1/4"	1/8"	BN21	1.90	100	5/8"	3/8"	BN53	3.57	50
1/4"	1/4"	BN22	2.07	100	5/8"	1/2"	BN54	5.32	25
1/4"	3/8"	BN23	3.15	100	5/8"	3/4"	BN56	7.27	50
1/4"	1/2"	BN24	6.14	50	3/4"	1/2"	BN64	6.22	50
5/16"	1/8"	BN251	2.02	100	3/4"	3/4"	BN66	6.74	25
5/16"	1/4"	BN252	2.44	50	1"	3/4"	BN86	9.07	25
5/16"	3/8"	BN253	3.12	50	1"	1"	BN88	14.80	10
3/8"	1/8"	BN31	2.38	100	1-1/4"	3/4"	BN106	17.30	10
3/8"	1/4"	BN32	2.09	100	1-1/4"	1"	BN108	17.36	10
3/8"	3/8"	BN33	3.15	50					
3/8"	1/2"	BN34	5.47	25					
3/8"	3/4"	BN36	7.46	25					

BSPT male inserts

Hose ID	BSPT Thread	Brass		Opt Qty
		Part #	Price/E	
1/4"	1/8"	BN21BSPT	\$2.26	100
1/4"	1/4"	BN22BSPT	2.81	100
3/8"	1/4"	BN32BSPT	2.93	100
3/8"	3/8"	BN33BSPT	3.87	50
3/8"	1/2"	BN34BSPT	6.40	25
1/2"	3/8"	BN43BSPT	3.95	50
1/2"	1/2"	BN44BSPT	6.15	50
3/4"	3/4"	BN66BSPT	8.88	25
1"	1"	BN88BSPT	17.41	10

solid female inserts

Hose ID	NPTF Thread	Brass		303 Stainless		Opt Qty
		Part #	Price/E	Part #	Price/E	
1/8"	1/8"	BF11	\$2.09	---	---	100
1/8"	1/4"	BF12	3.44	---	---	100
3/16"	1/8"	BF151	2.36	---	---	100
3/16"	1/4"	BF152	3.26	---	---	100
1/4"	1/8"	BF21	2.15	---	---	100
1/4"	1/4"	BF22	2.81	BF22SS	\$28.28	100
1/4"	3/8"	BF23	3.51	---	---	50
1/4"	1/2"	BF24	5.27	---	---	50
5/16"	1/8"	BF251	3.02	---	---	100
5/16"	1/4"	BF252	3.31	---	---	100
5/16"	3/8"	BF253	4.02	---	---	100
3/8"	1/8"	BF31	2.72	---	---	100
3/8"	1/4"	BF32	2.81	BF32SS	26.00	50
3/8"	3/8"	BF33	3.74	BF33SS	28.56	50
3/8"	1/2"	BF34	5.43	---	---	50
3/8"	3/4"	BF36	10.26	---	---	25
1/2"	1/4"	BF42	3.33	---	---	50
1/2"	3/8"	BF43	4.12	---	---	50
1/2"	1/2"	BF44	5.34	BF44SS	32.31	50
1/2"	3/4"	BF46	9.74	---	---	25
5/8"	3/8"	BF53	4.16	---	---	50
5/8"	1/2"	BF54	5.45	---	---	25
5/8"	3/4"	BF56	9.73	---	---	25
3/4"	1/2"	BF64	6.09	---	---	25
3/4"	3/4"	BF66	10.16	---	---	20
1"	3/4"	BF86	10.96	---	---	20
1"	1"	BF88	16.83	---	---	10
1-1/4"	1"	BF108	17.54	---	---	10



H



Beaded Hose Barbs



Hose ID	Male NPTF Thread	Brass Part #	Price/E	Pkg Qty
1/4"	1/8"	268B0402	\$2.41	100
1/4"	1/4"	268B0404	2.58	100
5/16"	1/8"	268B0502	2.36	100
5/16"	1/4"	268B0504	2.66	50
3/8"	1/8"	268B0602	2.66	100
3/8"	1/4"	268B0604	2.83	100
3/8"	3/8"	268B0606	3.62	50
1/2"	3/8"	268B0806	3.67	50
1/2"	1/2"	268B0808	6.48	50
5/8"	1/2"	268B1008	6.55	25
3/4"	1/2"	268B1208	6.93	50
3/4"	3/4"	268B1212	8.75	25

H

Barbed Hose Elbows

male insert 45° elbows - forged



Hose ID	NPTF Thread	Brass Part #	Price/E	Pkg Qty
1/4"	1/8"	139-0402	\$6.27	100
1/4"	1/4"	139-0404	6.51	25
3/8"	1/8"	139-0602	5.18	100
3/8"	1/4"	139-0604	4.84	100
3/8"	3/8"	139-0606	7.81	25
1/2"	1/4"	139-0804	7.81	25
1/2"	3/8"	139-0806	7.34	25
1/2"	1/2"	139-0808	9.58	25
3/4"	1/2"	139-1208	15.69	25

female insert 90° elbows - forged



Hose ID	NPTF Thread	Brass Part #	Price/E	Pkg Qty
1/4"	1/8"	134-0402	\$5.70	50
1/4"	1/4"	134-0404	7.50	50
3/8"	1/4"	134-0604	7.16	50
3/8"	3/8"	134-0606	10.04	50
1/2"	1/4"	134-0804	6.59	25
1/2"	3/8"	134-0806	11.06	25
1/2"	1/2"	134-0808	22.96	25
3/4"	3/4"	134-1212	33.60	25

Barbed Hose Elbows

male insert 90° elbows - forged

Hose ID	NPTF Thread	Brass Part #	Price/E	316 Stainless ¹ Part #	Price/E	Opt Qty
3/16"	1/8"	EL15H1M	\$3.62	---	---	50
1/4"	1/8"	EL2H1M	3.38	---	---	50
1/4"	1/4"	EL2H2M	4.92	EL2H2MSS	\$26.69	50
1/4"	3/8"	EL2H3M	6.01	---	---	50
5/16"	1/8"	EL25H1M	4.13	---	---	25
5/16"	1/4"	EL25H2M	5.47	---	---	50
5/16"	3/8"	EL25H3M	6.09	---	---	50
3/8"	1/8"	EL3H1M	3.72	---	---	50
3/8"	1/4"	EL3H2M	4.91	EL3H2MSS	27.07	50
3/8"	3/8"	EL3H3M	6.44	EL3H3MSS	27.07	50
3/8"	1/2"	EL3H4M	9.01	---	---	25
1/2"	1/4"	EL4H2M	5.40	---	---	50
1/2"	3/8"	EL4H3M	6.64	---	---	50
1/2"	1/2"	EL4H4M	8.88	EL4H4MSS	32.31	25
5/8"	3/8"	EL5H3M	11.25	---	---	25
5/8"	1/2"	EL5H4M	12.21	---	---	25
3/4"	1/2"	EL6H4M	15.09	---	---	25
3/4"	3/4"	EL6H6M	21.24	EL6H6MSS	57.06	25
1"	3/4"	EL8H6M	26.83	---	---	10
1"	1"	EL8H8M	33.34	---	---	10

¹ 316 stainless steel parts have NPT threads

H

Barbed Hose Splicers

hose barb 90° elbow splicers - forged

Hose ID	Brass Part #	Price/E	304 Stainless ^{NEW} Part #	Price/E	Pkg Qty
1/8"	177-0202	\$4.62	177-0202SS	\$18.46	25
3/16"	177-0303	3.89	177-0303SS	37.51	25
1/4" x 1/8"	177-0402	5.20	---	---	25
1/4"	177-0404	3.67	177-0404SS	11.08	25
5/16"	177-0505	5.93	---	---	25
3/8" x 1/4"	177-0604	5.93	---	---	25
3/8"	177-0606	5.62	177-0606SS	15.42	25
1/2" x 3/8"	177-0806	6.80	---	---	25
1/2"	177-0808	6.78	177-0808SS	30.14	25
5/8"	177-1010	12.50	---	---	25
3/4" x 1/2"	177-1208	13.83	---	---	25
3/4"	177-1212	17.92	---	---	25



hose barb tee splicers - forged

Hose ID	Brass Part #	Price/E	304 Stainless ^{NEW} Part #	Price/E	Pkg Qty
1/8"	179-0202	\$5.67	179-0202SS	\$37.49	25
3/16"	179-0303	4.56	179-0303SS	30.12	100
1/4" x 1/8"	179-0402	5.12	---	---	25
1/4"	179-0404	4.48	179-0404SS	25.70	25
5/16"	179-0505	6.10	---	---	25
3/8" x 1/4"	179-0604 ¹	10.27	---	---	25
3/8"	179-0606	5.87	179-0606SS	31.38	25
1/2" x 3/8"	179-0806	9.40	---	---	25
1/2"	179-0808	8.60	179-0808SS	48.97	25
5/8"	179-1010	13.06	---	---	25
3/4" x 1/2"	179-1208	18.86	---	---	25
3/4"	179-1212	18.59	---	---	20

¹ drop leg has 1/4-18 male NPTF thread

Hose Menders



Hose ID	Brass Part #	Price/E	Pkg Qty
1/8"	BM1	\$1.84	100
3/16"	BM15	1.68	100
1/4"	BM2	1.94	100
1/4" x 1/8"	BM2-1	2.40	100
5/16"	BM25	2.13	100
3/8"	BM3	2.39	100
3/8" x 1/4"	BM3-2	2.90	100
1/2"	BM4	3.35	50
1/2" x 3/8"	BM4-3	3.91	50
5/8"	BM5	3.96	50
5/8" x 3/8"	BM5-3	4.28	50
5/8" x 1/2"	BM5-4	4.88	50
3/4"	BM6	5.62	50
3/4" x 1/2"	BM6-4	5.84	50
1"	BM8	10.19	10

Barbed Hose Fittings

male 45° SAE x hose barb

H



Hose ID	UNF Thread	Brass Part #	Price/E	Pkg Qty
3/16"	7/16"-20	142-0307	\$2.99	100
1/4"	7/16"-20	142-0407	2.36	100
1/4"	5/8"-18	142-0410	3.41	100
5/16"	1/2"-20	142-0508	2.62	100
3/8"	5/8"-18	142-0610	3.63	50
3/8"	3/4"-16	142-0612	5.12	50
1/2"	3/4"-16	142-0812	5.01	50

male NPTF swivel x hose barb



Hose ID	NPTF Size	Brass Part #	Price/E	Pkg Qty
1/4"	1/8"	103-0402	\$7.64	100
1/4"	1/4"	103-0404	5.62	100
3/8"	1/4"	103-0604	5.91	100
3/8"	3/8"	103-0606	6.58	50
1/2"	3/8"	103-0806	7.75	50
1/2"	1/2"	103-0808	9.80	25
3/4"	3/4"	103-1212	12.85	25
1"	1-11/2"	103-1616¹	51.96	10

Note: swivel is for assembly convenience only, not for live swivel applications.

¹ capped threads / 150 maximum PSI

female NPTF swivel x hose barb



Hose ID	NPTF Thread	Brass Part #	Price/E	Pkg Qty
1/4"	1/4"	105-0404	\$7.19	100
3/8"	1/4"	105-0604	7.40	50
3/8"	3/8"	105-0606	7.56	50
1/2"	3/8"	105-0806	7.85	50
1/2"	1/2"	105-0808	8.52	50

Note: swivel is for assembly convenience only, not for live swivel applications.

female 37° JIC swivel x hose barb



Hose ID	UNF Thread	Brass Part #	Price/E	Pkg Qty
3/8"	9/16"-18	145-0609	\$3.47	100
3/4"	1-1/16"-12	145-1217	13.68	25

Barbed Hose Fittings

female NPSM swivel x hose barb ball seat type

Hose ID	NPSM Thread	Brass Part #	Price/E	Pkg Qty
1/8"	1/8"	BFS11	\$2.51	100
3/16"	1/8"	BFS151	2.48	100
3/16"	1/4"	BFS152	3.52	100
1/4"	1/8"	BFS21	2.72	100
1/4"	1/4"	BFS22	3.21	100
1/4"	3/8"	BFS23	4.57	100
5/16"	1/4"	BFS252	3.60	100
5/16"	3/8"	BFS253	4.43	50
3/8"	1/4"	BFS32	3.10	100
3/8"	3/8"	BFS33	4.24	100
3/8"	1/2"	BFS34	6.90	100
1/2"	3/8"	BFS43	5.37	50
1/2"	1/2"	BFS44	6.53	100
3/4"	3/4"	BFS66	9.26	50



female NPSM swivel x hose barb gasket seat type

Hose ID	NPSM Thread	Brass Part #	Price/E	Pkg Qty
1/8"	1/8"	126-0202	\$3.36	100
3/16"	1/8"	126-0302	3.13	100
3/16"	1/4"	126-0304	4.67	100
1/4"	1/8"	126-0402	4.63	100
1/4"	1/4"	126-0404	3.93	100
1/4"	3/8"	126-0406	5.55	100
5/16"	1/4"	126-0504	5.17	100
3/8"	1/4"	126-0604	4.23	100
3/8"	3/8"	126-0606	5.11	50
3/8"	1/2"	126-0608	7.10	50
1/2"	3/8"	126-0806	6.59	50
1/2"	1/2"	126-0808	7.17	50
3/4"	3/4"	126-1212	9.15	25



Note: not recommended for water.

female 45° SAE swivel x hose barb

Hose ID	UNF Thread	Brass Part #	Price/E	Pkg Qty
3/16"	3/8"-24	144-0306	\$3.10	100
1/4"	5/8"-18	144-0410	4.34	100
5/16"	5/8"-18	144-0510	4.72	100
3/8"	5/8"-18	144-0610	4.36	100
1/2"	3/4"-16	144-0812	5.84	100
3/4"	1-1/16"-14	144-1217	13.29	25



female 45°SAE / 37°JIC swivel x hose barb (dual angle seat)

Hose ID	UNF Thread	Brass Part #	Price/E	Pkg Qty
3/16"	7/16"-20	143-0307	\$2.86	100
1/4"	7/16"-20	143-0407	3.12	100
1/4"	1/2"-20	143-0408	4.10	100
5/16"	1/2"-20	143-0508	4.09	100
3/8"	3/4"-16	143-0612	5.61	100
1/2"	3/4"-16	143-0812	5.46	100
1/2"	7/8"-14	143-0814	8.24	50



Ferrules

for air

BFM
for medium weight
air hose



Brass Part #	Price/E	Pkg Qty	Ferrule ID	Ferrule Length	End Hole Size	Metal Gauge	Std Ind Part #	Ribbed Die*	Plain Die*
BFM478	\$0.44	50	.478"	11/16"	21/64"	.024"	4750	R41	P41/P42
BFM500	0.56	50	.500"	1"	11/32"	.024"	7322	R40	P40
BFM525	0.57	50	.525"	1"	3/8"	.024"	7323	R39	P39
BFM531	0.56	50	.531"	1"	7/16"	.024"	7324	R39	P39
BFM562	0.60	50	.562"	1"	7/16"	.024"	7325	R37	P38
BFM593	0.62	50	.593"	1"	7/16"	.024"	7326	R36	P37
BFM625	0.63	50	.625"	1"	7/16"	.024"	7327	R35	P36
BFM656	0.75	50	.656"	1"	7/16"	.024"	7328	R34	P35
BFM687	0.75	50	.687"	1"	1/2"	.024"	7329	R33	P34
BFM718	0.72	50	.718"	1"	5/8"	.024"	7330	R31	P32
BFM718B	0.72	50	.718"	1"	1/2"	.024"	7330B	R31	P32
BFM750	0.79	50	.750"	1"	5/8"	.024"	7331	R30	P31
BFM750B	0.76	50	.750"	1"	1/2"	.024"	7331B	R30	P31
BFM781	0.89	50	.781"	1"	5/8"	.024"	7332	R29	P30
BFM781B	0.89	50	.781"	1"	1/2"	.024"	7332B	R29	P30
BFM812	0.95	50	.812"	1"	5/8"	.024"	7333	R28	P29
BFL380	0.27	50	.380"	1/2"	17/64"	.016"	622	R44	P45
BFL400	0.32	50	.400"	15/32"	17/64"	.020"	619	R44	P44
BFL410	0.29	50	.410"	1/2"	17/64"	.016"	620	R43	P44
BFL450	0.29	50	.450"	9/16"	11/32"	.016"	769	R41	P42
BFL500	0.29	50	.500"	1/2"	11/32"	.016"	624	R40	P41
BFL525	0.30	50	.525"	1/2"	11/32"	.016"	625	R39	P40
BFL548	0.30	50	.548"	31/64"	3/8"	.015"	626	R38	P39
BFL564	0.44	50	.564"	3/4"	3/8"	.019"	3588	R37	P38
BFL575	0.36	50	.575"	31/64"	15/32"	.019"	KK	R37	P38
BFL600	0.36	50	.600"	1/2"	1/2"	.019"	JJ	R36	P37
BFL625	0.38	50	.625"	1/2"	1/2"	.019"	II	R35	P36
BFL650	0.39	50	.650"	1/2"	1/2"	.019"	HH	R34	P35
BFL675	0.43	50	.675"	33/64"	1/2"	.019"	GG	R34	P34
BFL725	0.42	50	.725"	17/32"	1/2"	.019"	EE	R31	P32
BFL750	0.43	50	.750"	17/32"	1/2"	.019"	DD	R30	P32
BFL775	0.60	50	.775"	17/32"	1/2"	.016"	CC	R31	P31

* These dies for use with 5111A and 1765A ferrule machine. Other sizes are available.
Ribbed Dies per set: **\$190.00**; Plain Dies per set: **\$190.00**

for fluid

BFMW
for medium weight
water hose



Brass Part #	Price/E	Pkg Qty	Ferrule ID	Ferrule Length	End Hole Size	Metal Gauge	Std Ind Part #	Ribbed Die*	Plain Die*
BF800	\$0.78	25	.800"	.844"	.688"	.024"	---	R28	P29
BF825	0.76	25	.825"	.844"	.688"	.024"	---	R27	P28
BF850	0.52	25	.850"	.568"	.688"	.019"	Z	R26	P27
BFW875	0.79	25	.875"	.844"	.688"	.024"	7244A	R25	P26
BFW900	0.83	25	.900"	.844"	.688"	.024"	5029A	R24	P25
BFW925	1.00	25	.925"	.840"	.690"	.025"	7113	R23	P24
BFW975	1.00	25	.975"	.844"	.688"	.024"	5028A	R21	P22
BFW1025	1.05	25	1.025"	.844"	.693"	.024"	7114A	R19	P20
BFW1175	1.20	25	1.175"	.844"	.875"	.024"	7088A	R13	P14
BFMW1050	1.45	25	1.050"	.625"	.750"	.025"	3605	R18	P19
BFMW1100	1.25	25	1.100"	.843"	.812"	.023"	5027	R16	P17
BFMW1150	1.25	25	1.150"	.844"	.880"	.024"	7104A	R15	P15
BFMW1225	1.79	25	1.225"	.875"	.875"	.025"	875-K	R11	P12
BFMW1275	3.25	25	1.275"	.875"	1.000"	.025"	875-1	R9	P10
BFMW1400	3.20	25	1.400"	.687"	1.120"	.020"	D	R4	P5
BFMW1500	2.35	25	1.500"	.875"	1.120"	.025"	1500	---	P1

* These dies for use with 5111A and 1765A ferrule machine. Other sizes are available.
Ribbed Dies per set: **\$190.00**; Plain Dies per set: **\$190.00**

sold in package quantities only

Manually - Operated Brass Ferrule Crimper

Application:

Crimps all brass ferrules shown on previous page.

Features:

- Dies for ferrule machines are available in standard sets for all ferrules as tabulated (4 segments to a set).
- Dies are supplied with plain or ribbed crimping surface.
- does not include dies
- height: with handle upright 27"
- base: 8" x 3"
- body: 7-3/8"
- weight: 25 lbs.

Part #	Price/E
5111A	\$1805.00



Air - Operated Brass Ferrule Crimper

Application:

For the efficient mass production assembly of hose, ferrules, and fittings.

Features:

- The foot pedal permits the use of both hands, reduces fatigue and speeds production.
- complete with air cylinder, ferrule machine (less dies), fitted hose lengths and necessary control valves
- ready for work bench installation
- crimps all brass ferrules shown on page 328
- weight: 91 lbs.

Part #	Price/E
1765A	\$8250.00



Die sizes for ferrules and machine numbers 1765A and 5111A on page 322.

Hose Crimper

Features:

- 855 crimper with 5 dies for 31/64" (0.484") to 45/64" (0.703") OD hose
- 855A crimper with 5 dies for 28/64" (0.437") to 43/64" (0.671") OD hose
- optional dies up to 52/64" OD
- replacement dies: **\$42.00**
- Hose crimper provides "big tool" crimping advantages at a fraction of the cost.
- rugged, portable and easy to use
- # 855 weight: 10 lbs.
- # 855A weight: 10 lbs.

Crimper Part #	Price/E
855	\$298.20
855A	309.20



Replacement Dies

Die Bore	Hose OD		Die Part #	Crimper # 855	Crimper # 855A
	From:	To:			
.375"	.385"	.406"	856-10	optional	optional
.437"	.447"	.468"	856-7	optional	standard
.484"	.490"	.520"	856-4	standard	standard
.531"	.540"	.562"	856-3	standard	standard
.578"	.590"	.625"	856-2	standard	standard
.625"	.640"	.671"	856-1	standard	standard
.687"	.690"	.710"	856-5	standard	optional
.750"	.760"	.781"	856-8	optional	optional
.812"	.820"	.843"	856-9	optional	optional

H

Large Hose Crimper

(Sold without dies)

Features:

- for crimping 1/2" to 1" ID hoses with larger OD's, from 11/16" to 1-1/2"
- crimps standard brass or aluminum ferrules
- order separate dies for each hose diameter
- weight: 10 lbs.

Crimper Part #	Price/E
860	\$330.00

Dies

Hose OD/ Finished Crimp Dimension	Die Part #	Price/E
11/16"	861-22	\$49.00
23/32"	861-23	49.00
3/4"	861-24	49.00
25/32"	861-25	49.00
13/16"	861-26	49.00
27/32"	861-27	49.00
7/8"	861-28	49.00
29/32"	861-29	49.00
15/16"	861-30	49.00
31/32"	861-31	49.00
1"	861-32	49.00
1-1/32"	861-33	49.00
1-1/16"	861-34	49.00
1-1/8"	861-36	49.00
1-3/16"	861-38	49.00
1-1/4"	861-40	49.00
1-5/16"	861-42	49.00
1-3/8"	861-44	49.00
1-7/16"	861-46	49.00
1-1/2"	861-48	49.00



Brass Push-On Fittings



Dixon push-on fittings are intended for use with Lok-On (push-on style) hose only. No hose clamps or ferrules are needed. Lok-On fittings will properly grip Lok-On hose only when pushed all the way in, with the cut end of the hose completely concealed by the plastic cap.

NPTF Hose Barb Fittings



male NPTF x push-on hose barb
National Pipe Tapered - dryseal

Hose ID	NPTF Thread	Brass		303 Stainless		Opt Qty
		Part #	Price/E	Part #	Price/E	
1/4"	1/8"	BPN21	\$2.21	RPN21	\$29.45	100
1/4"	1/4"	BPN22	2.58	RPN22	23.31	100
1/4"	3/8"	BPN23	3.33	---	---	50
5/16"	1/8"	BPN251	2.56	---	---	100
5/16"	1/4"	BPN252	2.90	---	---	50
3/8"	1/8"	BPN31	2.95	---	---	100
3/8"	1/4"	BPN32	2.89	RPN32	33.47	50
3/8"	3/8"	BPN33	3.35	RPN33	34.91	50
3/8"	1/2"	BPN34	5.50	---	---	25
3/8"	3/4"	BPN36	9.35	---	---	25
1/2"	1/4"	BPN42	4.06	RPN42	33.46	25
1/2"	3/8"	BPN43	3.67	RPN43	37.47	25
1/2"	1/2"	BPN44	5.32	RPN44	46.83	50
1/2"	3/4"	BPN46	7.80	---	---	50
5/8"	3/8"	BPN53	6.39	---	---	25
5/8"	1/2"	BPN54	7.18	---	---	25
5/8"	3/4"	BPN56	9.47	---	---	25
3/4"	1/2"	BPN64	8.24	RPN64	54.00	25
3/4"	3/4"	BPN66	8.92	RPN66	68.13	25
1"	3/4"	BPN86	19.17	---	---	10
1"	1"	BPN88	23.14	RPN88	93.34	10



female NPTF x push-on hose barb
National Pipe Tapered - dryseal

Hose ID	NPTF Thread	Part #	Price/E	Opt Qty
1/4"	1/8"	BPF21	\$2.93	100
1/4"	1/4"	BPF22	3.19	100
1/4"	3/8"	BPF23	4.77	50
5/16"	1/8"	BPF251	3.27	100
5/16"	1/4"	BPF252	4.25	50
3/8"	1/8"	BPF31	3.61	50
3/8"	1/4"	BPF32	3.64	50
3/8"	3/8"	BPF33	4.16	50
3/8"	1/2"	BPF34	5.70	50
3/8"	3/4"	BPF36	10.46	25
1/2"	1/4"	BPF42	4.72	50
1/2"	3/8"	BPF43	4.71	50
1/2"	1/2"	BPF44	5.62	25
1/2"	3/4"	BPF46	12.35	25
5/8"	3/8"	BPF53	6.24	25
5/8"	1/2"	BPF54	6.89	25
3/4"	1/2"	BPF64	7.60	25
3/4"	3/4"	BPF66	11.67	25
1"	3/4"	BPF86	16.24	10
1"	1"	BPF88	19.77	10

H



male NPTF swivel x push-on hose barb
National Pipe Tapered - dryseal

Hose ID	NPTF Thread	Part #	Price/E	Opt Qty
1/4"	1/8"	271-0402	\$7.24	100
1/4"	1/4"	271-0404	6.04	100
3/8"	1/4"	271-0604	6.45	50
3/8"	3/8"	271-0606	7.22	50
1/2"	3/8"	271-0806	7.74	25
1/2"	1/2"	271-0808	9.73	20
3/4"	3/4"	271-1212	14.38	10

Note: swivel is for assembly convenience only, not for live swivel applications.

NPSM Swivel Hose Barb Fittings



female NPSM swivel x push-on hose barb
gasket seat type

Hose ID	NPSM	Part #	Price/E	Opt Qty
1/4"	1/8"	280-0402	\$7.09	100
1/4"	1/4"	280-0404	5.27	100
3/8"	1/4"	280-0604	6.32	50
3/8"	3/8"	280-0606	8.13	50
3/8"	1/2"	280-0608	10.42	50
1/2"	1/2"	280-0808	9.61	25
5/8"	1/2"	280-1008	9.33	25
3/4"	3/4"	280-1212	17.87	20



female NPSM swivel x push-on hose barb
ball seat type

Hose ID	NPSM	Part #	Price/E	Opt Qty
1/4"	1/8"	BPFS21	\$5.63	100
1/4"	1/4"	BPFS22	5.05	50
1/4"	3/8"	BPFS23	7.28	50
3/8"	1/4"	BPFS32	5.78	50
3/8"	3/8"	BPFS33	7.21	50
3/8"	1/2"	BPFS34	8.09	50
1/2"	1/2"	BPFS44	8.53	50
1/2"	3/4"	BPFS46	12.63	25
3/4"	3/4"	BPFS66	15.73	20

Push-On Fittings



Dixon push-on fittings are intended for use with Lok-On (push-on style) hose only. No hose clamps or ferrules are needed. Lok-On fittings will properly grip Lok-On hose only when pushed all the way in, with the cut end of the hose completely concealed by the plastic cap.

45° SAE Hose Barb Fittings

male 45° SAE x push-on hose barb



Hose ID	UNF Thread	Brass Part #	Price/E	Opt Qty
1/4"	7/16"-20	282-0407	\$3.75	100
1/4"	1/2"-20	282-0408	3.38	100
3/8"	5/8"-18 ¹	282-0610	4.70	50
1/2"	3/4"-16	282-0812	6.49	50
5/8"	7/8"-14	282-1014	9.29	25
3/4"	1-1/16"-14 ¹	282-1217	15.02	25

¹ notch in hex for SAE identification

H


female 45° SAE swivel x push-on hose barb

Hose ID	UNF Thread	Brass Part #	Price/E	Opt Qty
1/4"	5/8"-18 ¹	284-0410	\$5.55	50
5/16"	5/8"-18 ¹	284-0510	5.60	50
3/8"	5/8"-18 ¹	284-0610	5.00	100
3/4"	1-1/16"-14 ¹	284-1217	12.72	25

¹ notch in hex for SAE identification

SAE Inverted Flare Fittings

male SAE swivel x push-on hose barb



Hose ID	UNF4944 Thread	Brass Part #	Price/E	Opt Qty
1/4"	3/8"-24	290-0406	\$5.61	100
1/4"	7/16"-24	290-0407	4.91	100
1/4"	1/2"-20	290-0408	5.29	100
5/16"	1/2"-20	290-0508	5.94	50
5/16"	5/8"-18	290-0510	7.86	50
3/8"	1/2"-20	290-0608	6.09	100
3/8"	5/8"-18	290-0610	6.50	50
1/2"	3/4"-18	290-0812	9.98	50
5/8"	7/8"-18	290-1014	11.58	25

rigid female SAE x push-on hose barb



Hose ID	UNF Thread	Brass Part #	Price/E	Opt Qty
1/4"	3/8"-24	292-0406	\$4.09	100
1/4"	7/16"-24	292-0407	3.71	100
1/4"	1/2"-20	292-0408	3.89	100
5/16"	1/2"-20	292-0508	2.83	100
3/8"	1/2"-20	292-0608	5.59	100
3/8"	5/8"-18	292-0610	5.34	50
1/2"	3/4"-18	292-0812	7.93	25

Push-On Fittings



Dixon push-on fittings are intended for use with Lok-On (push-on style) hose only. No hose clamps or ferrules are needed. Lok-On fittings will properly grip Lok-On hose only when pushed all the way in, with the cut end of the hose completely concealed by the plastic cap.

37° JIC Hose Barb Fittings

male 37° JIC x push-on hose barb

Hose ID	UNF Thread	Brass Part #	Price/E	Opt Qty
1/4"	7/16"-20	286-0407	\$3.79	100
1/4"	1/2"-20	286-0408	3.98	50
1/4"	9/16"-18	286-0409	5.48	100
3/8"	9/16"-18	286-0609	5.35	50
1/2"	3/4"-16	286-0812	7.25	25
5/8"	7/8"-14	286-1014	9.05	25
3/4"	1-1/16"-12	286-1217¹	13.90	10

¹ UN thread



female 37° JIC swivel x push-on hose barb

Hose ID	UNF Thread	Brass Part #	Price/E	Opt Qty
1/4"	9/16"-18	288-0409	\$4.74	50
5/16"	9/16"-18	288-0509	6.03	50
3/8"	9/16"-18	288-0609	5.08	50
1/2"	9/16"-18	288-0809	7.12	25
3/4"	1-1/16"-12	288-1217¹	13.32	10
1"	1-5/16"-12	288-1621¹	30.03	10

¹ UN thread



Hose ID	UNF Thread	303 Stainless Part #	Price/E	Opt Qty
3/8"	9/16"-18	288-0609SS	\$60.79	50
3/4"	1-1/16"-12	288-1217SS	108.71	10
1"	1-5/16"-12	288-1621SS	93.30	10

female 45°SAE / 37°JIC swivel x push-on hose barb (dual angle seat)

Hose ID	UNF Thread	Brass Part #	Price/E	Opt Qty
1/4"	7/16"-20	287-0407	\$3.95	100
1/4"	1/2"-20	287-0408	4.33	100
3/8"	1/2"-20	287-0608	6.24	25
3/8"	3/4"-16	287-0612	6.13	25
1/2"	3/4"-16	287-0812	6.35	25
1/2"	7/8"-14	287-0814	8.87	25
5/8"	7/8"-14	287-1014	9.58	25

Hose ID	UNF Thread	303 Stainless Part #	Price/E	Opt Qty
1/4"	7/16"-20	287-0407SS	\$45.68	100
1/2"	3/4"-16	287-0812SS	64.54	25



female 37° JIC/45° SAE swivel x push-on 90° elbow

Hose ID	UNF Thread	Plated Steel Part #	Price/E	Opt Qty
1/4"	7/16"-20	289-0407 *	\$26.19	25
1/4"	7/16"-20	289-0407SAE¹	34.73	25
3/8"	9/16"-18	289-0609 *	24.26	25
3/8"	5/8"-18	289-0610SAE¹	35.49	25
1/2"	3/4"-16	289-0812 *	30.24	10
1/2"	3/4"-16	289-0812SAE¹	39.49	10
3/4"	1-1/16"-12	289-1217 *²	82.52	5

¹ notch in nut for SAE identification

² UN thread

* JIC only, may substitute dual angle



Push-On Fittings



Dixon push-on fittings are intended for use with Lok-On (push-on style) hose only. No hose clamps or ferrules are needed. Lok-On fittings will properly grip Lok-On hose only when pushed all the way in, with the cut end of the hose completely concealed by the plastic cap.

Rigid Tube x Push-On Hose Barb



Hose ID	Tube OD	Brass		Opt Qty
		Part #	Price/E	
1/4"	3/16"	294-0403	\$3.09	100
1/4"	1/4"	294-0404	2.48	100
1/4"	5/16"	294-0405	3.11	100
3/8"	3/8"	294-0606	3.31	50
1/2"	1/2"	294-0808	4.81	50
5/8"	5/8"	294-1010	7.09	25
3/4"	3/4"	294-1212	10.98	25

Push-On Hose Menders



Hose ID	Brass		303 Stainless		Opt Qty
	Part #	Price/E	Part #	Price/E	
1/4"	BPM2	\$2.81	SSPM2	\$33.47	100
5/16"	BPM25	3.16	---	---	100
3/8"	BPM3	3.36	SSPM3	38.45	50
1/2"	BPM4	5.31	SSPM4	42.42	50
5/8"	BPM5	7.65	---	---	25
3/4"	BPM6	9.06	---	---	25
1"	BPM8	15.38	---	---	10

90° Push-On Hose Barb x Male NPTF Elbows - Forged



Hose ID	NPTF Thread	Brass		Opt Qty
		Part #	Price/E	
1/4"	1/8"-27	273-0402	\$4.22	100
1/4"	1/4"-18	273-0404	5.27	50
3/8"	1/8"-27	273-0602	6.48	50
3/8"	1/4"-18	273-0604	6.19	50
3/8"	3/8"-18	273-0606	7.24	25
1/2"	3/8"-18	273-0806	9.12	25
1/2"	1/2"-14	273-0808	11.50	25
3/4"	1/2"-14	273-1208	23.13	10
3/4"	3/4"-14	273-1212	22.31	10

Tool for Push-On Fittings



Features:

- cuts push-on style hose and inserts the fitting
- Built-in cutter slices through 1/4" - 3/4" ID reinforced push-on hose without fraying.
- Clamp hose into tool's vice and apply light pressure on handle to drive in the fitting.
- tool has four 7/16" diameter mounting holes for bench mounting
- overall size is 13-1/2" long x 2-3/8" wide x 7" height

Size	Part #	Price/E
1/4" - 3/4"	270AT	\$1094.37

Assembly Instructions:

1. Trim hose end with smooth square cut
2. Lubricate either push-on fitting, hose or both.
3. Insert push-on fitting into hose until first barb is in hose.
4. Place end of fitting against a flat object (bench, wall, etc.) and grip the hose one inch from end. Push with a steady force until end of hose is covered by yellow plastic cap.

Disassembly Instructions:

1. Leaving push-on fitting in place, make a 1" cut in the hose along the barbed end of the fitting. Note: Be careful not to nick barbs when cutting the hose.
2. With firm grip on hose, give a sharp downward pull to release the fitting from the hose.



Caution: Push-on fittings will properly grip push-on hose only when pushed all the way in, with the cut end of the hose completely concealed by the plastic cap.

Hose Assembly Tool



- installs 1/4", 5/16" and 3/8" hose fittings
- lightweight, portable, comfortable cushioned grip
- economical

Part #	Price/E
HHCI	\$220.00

Reusable Fittings

NEW
FOR 2013

Reusable fittings are recommended for low pressure air hose applications. They offer a more durable hose connection and easily repaired. Maximum working pressure: **250 PSI** at ambient temperature (70°F). *Caution: Check hose OD and ID accurately before ordering.*



reusable ferrules

Brass Part #	Hose ID	Hose OD	Price/E	Opt Qty
1800408F	1/4"	1/2"	\$2.73	100
1800409F	1/4"	9/16"	3.25	50
1800410F	1/4"	5/8"	3.39	50
1800509F	5/16"	9/16"	4.95	100
1800510F	5/16"	5/8"	3.86	50
1800511F	5/16"	11/16"	5.70	50
1800610F	3/8"	5/8"	3.72	50
1800611F	3/8"	11/16"	4.28	50
1800612F	3/8"	3/4"	3.82	50
1800814F	1/2"	7/8"	8.24	25
1800815F	1/2"	15/16"	9.39	25
1800816F	1/2"	1"	10.61	20

H**NEW**
FOR 2013

reusable male stems

Brass Part #	Hose ID	NPTF Thread	Price/E	Opt Qty
1820402S	1/4"	1/8"	\$5.13	100
1820404S	1/4"	1/4"	3.47	100
1820406S	1/4"	3/8"	6.33	50
1820504S	5/16"	1/4"	3.78	50
1820506S	5/16"	3/8"	6.43	50
1820604S	3/8"	1/4"	3.62	100
1820606S	3/8"	3/8"	4.22	50
1820608S	3/8"	1/2"	7.98	25
1820804S	1/2"	1/4"	7.97	50
1820806S	1/2"	3/8"	7.70	50
1820808S	1/2"	1/2"	8.27	25

Reusable Fittings



reusable male fittings

Hose ID	Hose OD	NPTF Thread	Brass Part #	Price/E	Opt Qty	303 Stainless ¹ Part #	Price/E
1/4"	1/2"	1/8"	BN21RU50	\$7.87	100	BN21RU50SS	\$61.96
1/4"	9/16"	1/8"	BN21RU56	8.39	100	BN21RU56SS	61.96
1/4"	5/8"	1/8"	BN21RU62	8.52	100	BN21RU62SS	61.96
1/4"	1/2"	1/4"	BN22RU50	6.21	50	BN22RU50SS	66.69
1/4"	9/16"	1/4"	BN22RU56	6.73	50	BN22RU56SS	66.69
1/4"	5/8"	1/4"	BN22RU62	6.86	50	BN22RU62SS	66.69
1/4"	1/2"	3/8"	BN23RU50	9.06	50	---	---
1/4"	9/16"	3/8"	BN23RU56	9.58	50	---	---
1/4"	5/8"	3/8"	BN23RU62	9.72	50	---	---
5/16"	9/16"	1/4"	BN252RU56	8.73	50	BN252RU56SS	65.74
5/16"	5/8"	1/4"	BN252RU62	7.64	50	BN252RU62SS	65.74
5/16"	11/16"	1/4"	BN252RU68	9.48	50	---	---
5/16"	9/16"	3/8"	BN253RU56	11.38	50	---	---
5/16"	5/8"	3/8"	BN253RU62	10.29	50	---	---
5/16"	11/16"	3/8"	BN253RU68	12.13	50	---	---
3/8"	5/8"	1/4"	BN32RU62	7.35	50	BN32RU62SS	69.31
3/8"	11/16"	1/4"	BN32RU68	7.91	50	BN32RU68SS	69.31
3/8"	3/4"	1/4"	BN32RU75	7.45	50	BN32RU75SS	69.31
3/8"	5/8"	3/8"	BN33RU62	7.94	50	BN33RU62SS	69.31
3/8"	11/16"	3/8"	BN33RU68	8.50	50	BN33RU68SS	69.31
3/8"	3/4"	3/8"	BN33RU75	8.04	50	BN33RU75SS	69.31
3/8"	5/8"	1/2"	BN34RU62	11.70	50	---	---
3/8"	11/16"	1/2"	BN34RU68	12.26	50	---	---
3/8"	3/4"	1/2"	BN34RU75	11.80	50	---	---
1/2"	7/8"	1/4"	BN42RU87	16.22	25	---	---
1/2"	15/16"	1/4"	BN42RU93	17.37	25	---	---
1/2"	1"	1/4"	BN42RU99	18.58	25	---	---
1/2"	7/8"	3/8"	BN43RU87	15.95	25	BN43RU87SS	92.14
1/2"	15/16"	3/8"	BN43RU93	17.09	25	BN43RU93SS	92.14
1/2"	1"	3/8"	BN43RU99	18.31	25	---	---
1/2"	7/8"	1/2"	BN44RU87	16.51	25	BN44RU87SS	100.87
1/2"	15/16"	1/2"	BN44RU93	17.66	25	BN44RU93SS	100.87
1/2"	1"	1/2"	BN44RU99	18.87	25	---	---

¹ stainless steel reusable fittings are packaged to order

Reusable Fittings




reusable female swivel stems

Brass Part #	Hose ID	NPSM Thread	Price/E	Opt Qty
1840404A	1/4"	1/4"-18	\$5.95	100
1840406A	1/4"	3/8"-18	8.55	50
1840504A	5/16"	1/4"-18	6.51	50
1840604A	3/8"	1/4"-18	6.82	50
1840606A	3/8"	3/8"-18	8.40	50
1840808A	1/2"	1/2"-14	10.64	25



reusable female swivels

Brass Part #	Hose ID	NPSM Thread	Hose OD	Price/E	Opt Qty
185-4084	1/4"	1/4"	1/2"	\$8.68	50
185-4094	1/4"	1/4"	9/16"	9.20	50
185-4104	1/4"	1/4"	5/8"	9.34	50
185-4086	1/4"	3/8"	1/2"	11.28	50
185-4096	1/4"	3/8"	9/16"	11.80	50
185-4106	1/4"	3/8"	5/8"	11.94	50
185-5094	5/16"	1/4"	9/16"	11.48	50
185-5104	5/16"	1/4"	5/8"	10.39	50
185-5114	5/16"	1/4"	11/16"	12.23	50
185-6104	3/8"	1/4"	5/8"	10.54	50
185-6114	3/8"	1/4"	11/16"	11.10	50
185-6124	3/8"	1/4"	3/4"	10.64	50
185-6106	3/8"	3/8"	5/8"	12.12	50
185-6116	3/8"	3/8"	11/16"	12.68	50
185-6126	3/8"	3/8"	3/4"	12.22	50
185-8148	1/2"	1/2"	7/8"	18.88	20
185-8158	1/2"	1/2"	15/16"	20.03	20
185-8168	1/2"	1/2"	1"	21.24	20



reusable hose splicers

Brass Part #	Hose ID	Hose OD	Price/E	Opt Qty
187-0408	1/4"	1/2"	\$9.70	50
187-0409	1/4"	9/16"	10.73	50
187-0410	1/4"	5/8"	11.01	50
187-0610	3/8"	5/8"	11.70	25
187-0611	3/8"	11/16"	12.82	25
187-0612	3/8"	3/4"	11.90	25

Grease Whip Hose Assemblies

Features:

- one piece brass crimp couplings
- 1/8"-27 male NPT thread, solid base
- US manufactured 3/16" I.D. hose - exceeds SAE 100R1-AT
- for use with hand grease guns only
- Strain relief spring option is available as a special, consult Dixon for pricing.
- working pressure of **3000 PSI**



Part #	Assembly Length	Retail Pack	Price/E
GWH-0800	8"	n/a	\$11.53
GWH-1200	12"	Add "R" suffix to part number	13.87
GWH-1800	18"	Add "R" suffix to part number	17.40
GWH-2400	24"	n/a	20.95
GWH-3600	36"	n/a	27.97
GWH-4800	48"	n/a	35.03
GWH-6000	60"	n/a	42.07

Grease Whip Hose Fittings

Male and female fittings are designed to be crimped on.

grease hose couplers



Zinc Plated Steel Part #	Description	Price/E	Pkg Qty
GWH-C	grease hose coupler	\$8.15	25
GWHC-FF	full flow grease hose coupler	8.14	25

male NPT thread - chamfered base



Brass Part #	Description	Price/E	Pkg Qty
001-0055	1/8"-27 male NPT thread, drilled and chamfered base	\$2.77	100

male NPT thread - solid base



Brass Part #	Description	Price/E	Pkg Qty
001-0260	1/8"-27 male NPT thread, solid base	\$2.53	100

female NPT thread



Brass Part #	Description	Price/E	Pkg Qty
001-0860	1/8"-27 female NPT thread	\$3.69	100

Grease Whip Fittings



Zinc Plated Steel Part #	Threads	Description	Overall Length	Thread Length	Hex	Price/E	Pkg Qty
GWHZ000	1/8-27 NPT	straight	.660	.260	.430	\$0.82	100
GWHZ045	1/8-27 NPT	45°	.860	.280	.430	1.11	100
GWHZ090	1/8-27 NPT	90°	.830	.310	.430	1.12	100
GWHZ400	1/4-28 tapered SAE-LT	straight	.530	.200	.312	0.63	100
GWHZ445	1/4-28 tapered SAE-LT	45°	.800	.200	.375	1.13	100
GWHZ490	1/4-28 tapered SAE-LT	90°	1.20	.200	.375	1.13	100

Brass Oxy-Acetylene Hose Couplings



acetylene couplings

left-hand thread for acetylene line x hose shank

Hose Size	Part #	Price/E	Left UNF Thread	Hex
3/16"	OA69	\$3.27	3/8"-24	7/16"
3/16"	OA70	3.60	9/16"-18	11/16"
1/4"	OA71	3.71	9/16"-18	11/16"
5/16"	OA72	4.00	9/16"-18	11/16"
3/8"	OA73	3.82	9/16"-18	11/16"



oxygen couplings

right-hand thread for oxygen line x hose shank

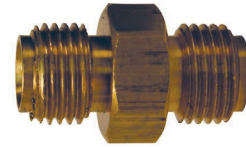
Hose Size	Part #	Price/E	Left UNF Thread	Hex
3/16"	OA59	\$3.27	3/8"-24	7/16"
3/16"	OA60	3.60	9/16"-18	11/16"
1/4"	OA61	3.71	9/16"-18	11/16"
5/16"	OA62	4.00	9/16"-18	11/16"
3/8"	OA63	3.82	9/16"-18	11/16"

Brass Oxy-Acetylene Connecting Spuds



left-hand thread x left-hand thread

Part #	Price/E	Left UNF Thread	Hex
OA52	\$4.03	9/16"-18	11/16"



right-hand thread x right-hand thread

Part #	Price/E	Right UNF Thread	Hex
OA50	\$3.98	9/16"-18	11/16"

Brass Oxy-Acetylene Adapters



left-hand thread x NPTF

Part #	Price/E	Left UNF Thread	NPTF Thread	Hex
158-0904	\$3.37	9/16"-18	1/4"	5/8"
158-0906	4.26	9/16"-18	3/8"	11/16"



right-hand thread x NPTF

Part #	Price/E	Right UNF Thread	NPTF Thread	Hex
156-0904	\$3.36	9/16"-18	1/4"	5/8"
156-0906	4.16	9/16"-18	3/8"	11/16"

Brass Oxy-Acetylene Ferrules

Part #	Price/E	Inside Dimensions	Overall Length	Metal Gauge	Std. Ind. Part #	Qty
BFO448	\$0.71	.448" x 0.890"	15/32"	.019"	9116	25
BFO474	0.52	.474" x 0.943"	15/32"	.019"	9979	25
BFO535	0.85	.535" x 1.071"	3/4"	.024"	9940P	25
BFO593	0.74	.593" x 1.109"	3/4"	.024"	9593	25
BFO700	3.15	.700" x 1.325"	3/4"	.025"	8337	25



sold in package quantities only

Push-In Fittings

Applications:

- Water conditioning, filtration, reverse osmosis, soft drink, beer and condiment dispensing equipment where no metal contamination can be present.
- Industrial applications include low pressure pneumatic, hydraulic and vacuum lines commonly used in packaging systems, robotics, machine tools, agricultural spraying, car and industrial wash systems and air logic systems.

Features:

- material - acetal copolymer
- O-ring - nitrile rubber
- three piece construction, body, collet and O-ring pre-assembled
- Collets are produced with stainless steel locking teeth.
- Easy to install - no tools required. Easy to disconnect and reuse.
- temperature range: **-20°F** (-20°C) to **185°F** (85°C)
- maximum water pressure: 1/4": **230 PSI**; 3/8" and 1/2": **170 PSI**

Standards:

- FDA complaint and NSF 51 listed non toxic material

Push-In Straight Unions



tube x tube

Tube OD	Acetal	
	Part #	Price/E
1/4"	462-4	\$3.40
3/8"	462-6	4.80
3/8" x 1/4"	462-64	4.65
1/2"	462-8	5.55
1/2" x 3/8"	462-86	5.60

Push-In Union Tees



tube x tube x tube

Tube OD		Acetal	
Run	Branch	Part #	Price/E
1/4"	1/4"	464-4	\$4.70
3/8"	3/8"	464-6	5.85
3/8"	1/4"	464-664	5.80
1/2"	1/2"	464-8	6.95
1/2"	3/8"	464-886	6.60

Push-In Hose Barb Connectors



tube x hose barb

Tube OD	Acetal	
	Part #	Price/E
1/4"	489-4	\$2.40
3/8"	489-6	3.05
1/2"	489-8	3.40

Push-In Fittings

Push-In Female Adapters

tube x female NPT

Tube OD	Female NPT	Acetal	
		Part #	Price/E
1/4"	1/4"	466-4B	\$4.10
3/8"	1/4"	466-6B	5.15



Push-In Male Adapters

tube x male NPT

Tube OD	Male NPT	Acetal	
		Part #	Price/E
1/4"	1/8"	468-4A	\$2.70
1/4"	1/4"	468-4B	3.00
1/4"	3/8"	468-4C	3.50
3/8"	1/8"	468-6A	3.90
3/8"	1/4"	468-6B	4.55
3/8"	3/8"	468-6C	4.85
3/8"	1/2"	468-6D	5.15
1/2"	3/8"	468-8C	5.60
1/2"	1/2"	468-8D	6.15



Push-In Male Elbows

tube x 90° male NPT

Tube OD	Male NPT	Acetal	
		Part #	Price/E
1/4"	1/8"	469-4A	\$3.45
1/4"	1/4"	469-4B	3.60
1/4"	3/8"	469-4C	3.80
3/8"	1/4"	469-6B	4.65
3/8"	3/8"	469-6C	5.00
1/2"	3/8"	469-8C	5.70
1/2"	1/2"	469-8D	6.35



Push-In Union Elbows

tube x 90° tube

Tube OD	Acetal	
	Part #	Price/E
1/4"	465-4	\$4.00
3/8"	465-6	5.30
3/8" x 1/4"	465-64	5.15
1/2" x 3/8"	465-86	6.10
1/2"	465-8	6.55



Push-In 360° Swivel Elbows

tube x 360° swivel male NPT

Tube OD	Male NPT	Acetal	
		Part #	Price/E
1/4"	1/8"	469S-4A	\$5.80
1/4"	1/4"	469S-4B	5.85
3/8"	1/4"	469S-6B	8.15
3/8"	3/8"	469S-6C	8.35
1/2"	3/8"	469S-8C	9.20
1/2"	1/2"	469S-8D	9.30



Clear PVC Tubing

Clear PVC Tubing is designed to be used with standard shank fittings.
Tubing sold only in lengths shown below.

Domestic Features:

- produced from FDA materials, but not FDA approved
- for non-critical hospital use such as suction and draining
- maximum temperature: **135°F**
- shipped in individually boxed bundles



Imported Features:

- temperature range: **14°F to 149°F**
- shipped in bundles wrapped with PVC film

domestic

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/E
3/16"	5/16"	55	100	CL0305	\$43.25
1/4"	3/8"	55	100	CL0406	50.60
1/4"	1/2"	70	100	CL0408	113.00
5/16"	7/16"	50	100	CL0507	58.60
3/8"	1/2"	40	100	CL0608	72.25
3/8"	5/8"	65	100	CL0610	149.00
1/2"	5/8"	30	100	CL0810	97.00
1/2"	3/4"	45	100	CL0812	180.00
5/8"	7/8"	40	100	CL1014	224.00
3/4"	1"	35	100	CL1216	258.00
1"	1-1/4"	28	100	CL1620	340.00
1-1/4"	1-3/4"	45	50	CL2028-50	430.00
1-1/2"	2"	40	50	CL2432-50	500.00

imported

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/E
1/4"	3/8"	50	100	ICL0406	\$25.50
3/8"	1/2"	35	100	ICL0608	35.45
1/2"	5/8"	35	100	ICL0810	46.30
1/2"	3/4"	50	100	ICL0812	96.55
3/4"	1"	35	100	ICL1216	136.90
1"	1-1/4"	30	100	ICL1620	178.55
1-1/2"	2"	15	50	ICL2432	290.55

Clear PVC Braided Tubing

Tubing sold only in lengths shown below.

Domestic

- high grade tensile strength polyester yarn reinforcement
- temperature range: **27°F to 150°F**
- shipped in coils



Imported

- temperature range: **14°F to 149°F**
- for various machine tools and transportation of chemicals
- shipped in bundles wrapped with PVC film

domestic

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/E
3/16"	3/8"	250	300	BR0306	\$299.50
1/4"	7/16"	250	300	BR0446	325.00
3/8"	5/8"	225	300	BR0609	599.60
1/2"	3/4"	200	300	BR0812	520.00
5/8"	7/8"	200	300	BR1014	820.00
3/4"	1-1/16"	150	300	BR1218	820.00
1"	1-5/16"	125	200	BR1621	1315.50
1-1/4"	1-11/16"	100	100	BR2027	825.00
1-1/2"	1-15/16"	100	100	BR2431	1730.75

imported

Size		Working Pressure @ 72°F	Length	PVC	
ID	OD			Part #	Price/E
1/4"	1/2"	142	300	IBR0446	\$191.00
3/8"	5/8"	114	300	IBR0609	246.25
1/2"	3/4"	100	300	IBR0812	310.00
3/4"	1-1/16"	71	300	IBR1218	661.30
1"	1-5/16"	71	200	IBR1621	513.10

PVC Tubing and Hose Cutters

Features:

- rugged construction permits cutting up to ¾" tubing or hose
- corrosion resistant hardened steel blade ensures straight, crisp cuts for optimum fit

Part #	Price/E
TC97	\$17.00
TC97RB (replacement blade)	5.85



Features:

- cuts low pressure fabric reinforced hose up to 1" OD
- reversible blade

Part #	Price/E
HC90	\$26.55
HC90RB (replacement blade)	11.15



Features:

- cuts hose and tubing up to 2" OD; Polyethylene up to 1½" ID; PVC up to 1¼" ID
- stainless steel blade

Part #	Price/E
LHC95	\$47.70
LHC95RB (replacement blade)	19.00



Copper Tubing Cutters Hi-Duty Tube Cutter

Features:

- for 1/8" through 1-1/8" OD tubing
- rugged aluminum alloy body is nickel chrome plated
- Foldaway hardened steel reamer with turned cutting edge removes burrs cleanly, filing surface removes outside burrs.
- includes 2 general purpose cutter wheels
- chromium steel cutting wheels
- replacement parts available, contact the factory for more information

Description	Part #	Price/E
length 5", weight 6.5 oz.	TC-1000	\$104.10



Ratcheting Tube Cutter

Features:

- for 1/8" through 5/8" OD tubing
- use cutter with or without handle - snaps into place in seconds
- includes 1 general purpose cutter wheel
- Enclosed feed screw minimizes contamination ensuring continued smooth operation.
- corrosion resistant stainless steel rollers positioned at bottom of cutter allows for easier cutter engagement on tubing and smoother cutting action
- replacement parts available, contact the factory for more information

Description	Part #	Price/E
length with handle 4¾", weight 4 oz., 4" swing radius with handle	TC-1050RH	\$84.85



Tube Cutter

Features:

- for 3/8" through 1-1/8" OD tubing
- includes 2 general purpose cutter wheels
- replacement parts available, contact the factory for more information

Description	Part #	Price/E
length 2-11/16", weight 5 oz., 1-15/16" swing radius	174-F	\$98.65



Properties of Tuff-Lite Materials

! *Nylon fittings* should not be used with acid-based fertilizers, bromine, chlorine, fluorine, hydrochloric acid, iodine, nitric acid, phosphoric acid, sulfuric acid or xylene. Made with material approved by FDA. Nylon should not be used with compressed gas. Parts are white.

! *Polypropylene fittings* should not be used with aromatic hydrocarbons, carbon tetra-chloride, gasoline, hexane, kerosene, nitric acid, sodium hydrochlorite, toluene, trichloroethylene or xylene. Polypropylene should not be used with compressed gas. Parts are black.

Male Inserts

- Parts showing package quantities are sold in package quantities only.

hose shank x male NPT

Hose Shank	Male NPT	Nylon		Pkg Qty	Polypropylene		Pkg Qty
		Part #	Price/E		Part #	Price/E	
1/4"	1/8"	TN21	\$0.68	50	PPN21	\$0.82	50
	1/4"	TN22	0.70	50	PPN22	0.81	50
	3/8"	TN23	0.76	50	PPN23	0.83	50
	1/2"	TN24	0.87	50	PPN24	0.87	50
	3/4"	TN26	0.91	50	---	---	---
	1"	TN28	1.40	50	---	---	---
5/16"	1/4"	TN252	0.70	50	---	---	---
3/8"	1/8"	TN31	0.80	50	PPN31	0.82	50
	1/4"	TN32	0.88	50	PPN32	0.80	50
	3/8"	TN33	0.92	50	PPN33	0.81	50
	1/2"	TN34	1.00	50	PPN34	0.93	50
	3/4"	TN36	1.10	50	PPN36	0.90	50
1/2"	1/8"	TN41	0.92	50	---	---	---
	1/4"	TN42	0.77	50	PPN42	0.83	50
	3/8"	TN43	0.79	50	PPN43	0.88	50
	1/2"	TN44	0.91	50	PPN44	0.72	50
	3/4"	TN46	1.05	50	PPN46	1.07	50
5/8"	3/8"	TN53	0.87	50	---	---	---
	1/2"	TN54	0.94	50	PPN54	0.93	50
	3/4"	TN56	1.10	50	PPN56	1.12	50
3/4"	3/8"	TN63	0.83	50	---	---	---
	1/2"	TN64	1.07	50	PPN64	1.00	50
	3/4"	TN66	1.17	50	PPN66	0.93	50
	1"	TN68	1.37	25	PPN68	1.38	25
1"	3/4"	TN86	1.30	25	PPN86	1.16	25
	1"	TN88	1.56	25	PPN88	1.49	25
1-1/4"	1"	TN158	2.35	15	---	---	---
	1-1/4"	TN150	3.80	10	PPN150	3.11	10
	1-1/2"	TN1520	4.10	10	---	---	---
1-1/2"	1-1/4"	TN2015	3.95	10	---	---	---
	1-1/2"	TN200	4.10	10	PPN200	3.20	10
2"	2"	TN250	6.05	5	PPN250	4.55	5



nylon



polypropylene

Female Inserts

hose shank x female NPT

Hose Size	Female NPT	Nylon	
		Part #	Price/E
1/4"	1/4"	TFS22	\$3.30
1/4"	1/2"	TFS42	3.45
1/2"	1/2"	TFS44	3.20
3/4"	3/4"	TFS66	3.80



Tuff-Lite

Female Barbed Fittings

hose shank x female NPSM

ball seat type

Hose Size	Female NPSM	Nylon	
		Part #	Price/E
1/4"	1/4"	TF22	\$0.92
3/8"	3/8"	TF33	1.07



Short Shank Couplings

- Parts showing package quantities are sold in package quantities only.
- female shipped with a red vinyl washer (**TVW7**), replacement washers on page 343

nylon short shank couplings

Hose Shank	Thread Size	female		male		Pkg Qty
		Part #	Price/E	Part #	Price/E	
1/4"	3/4" NPSM	TCF62	\$1.55	TN26	\$0.91	50
3/8"	3/4" NPSM	TCF63	1.55	TN36	1.10	50
1/2"	3/4" NPSM	TCF64	1.60	TN46	1.05	50
5/8"	3/4" NPSM	TCF65	1.65	TN56	1.10	50
3/4"	3/4" NPSM	TCF66	1.65	TN66	1.17	50
1/4"	3/4" GHT	TCF72	1.85	TCM72	0.95	--
3/8"	3/4" GHT	TCF73	1.85	TCM73	1.00	--
1/2"	3/4" GHT	TCF74	1.90	TCM74	1.05	--
5/8"	3/4" GHT	TCF75	1.95	TCM75	1.05	--
3/4"	3/4" GHT	TCF76	1.95	TCM76	1.05	--



- female shipped with a red vinyl washer (**TVW7**), replacement washers on page 343

polypropylene short shank couplings

Hose Shank	Thread Size	female		male	
		Part #	Price/E	Part #	Price/E
1/4"	3/4" GHT	PPCF72	\$1.69	---	---
3/8"	3/4" GHT	PPCF73	1.55	PPCM73	\$1.10
1/2"	3/4" GHT	PPCF74	1.57	PPCM74	1.11
5/8"	3/4" GHT	PPCF75	1.74	PPCM75	1.14
3/4"	3/4" GHT	PPCF76	1.75	PPCM76	1.18



Reducing Bushings

male NPT x female NPT

Male Size	Female NPT	Nylon	
		Part #	Price/E
3/8"	1/4"	THB32	\$1.90
1/2"	1/4"	THB42	2.00
1/2"	3/8"	THB43	2.00
3/4"	1/2"	THB64	2.35
1"	3/4"	THB86	3.20



Tuff-Lite Adapters

- Parts showing package quantities are sold in package quantities only.



female NPT x female NPT

Female NPT	Female NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/2"	1/2"	TA994	\$4.35	25
3/4"	3/4"	TA996	4.70	25

Male GHT x Female NPT Adapters

- Parts showing package quantities are sold in package quantities only.



nylon



polypropylene

male GHT x female NPT

Female NPT	Nylon			Polypropylene			Pkg Qty
	Part #	Price/E	Pkg Qty	Part #	Price/E		
1/4"	TA792	\$1.45	50	PPA792	\$2.93		50
3/8"	TA793	1.50	50	---	---		--
1/2"	TA794	1.51	50	PPA794	2.85		50
3/4"	TA796	1.60	50	PPA796	2.98		25

Female GHT x NPT Adapters

- Parts showing package quantities are sold in package quantities only.



nylon

female GHT x male NPT

Male NPT	Nylon			Female NPT	Nylon			Pkg Qty
	Part #	Price/E	Pkg Qty		Part #	Price/E		
1/4"	TA972	\$1.46	50	---	---	---		---
3/8"	TA973	1.50	50	---	---	---		---
1/2"	TA974	1.53	50	1/2"	TA974F	\$3.95		50
3/4"	TA976	1.55	50	3/4"	TA976F	6.45		50

female GHT x female NPT

Male GHT x Male NPT Adapters

- Parts showing package quantities are sold in package quantities only.



nylon



polypropylene

male GHT x male NPT

Male NPT	Nylon			Polypropylene			Pkg Qty
	Part #	Price/E	Pkg Qty	Part #	Price/E		
1/4"	TA772	\$0.95	50	---	---		--
3/8"	TA773	1.05	50	PPA773	\$1.15		50
1/2"	TA774	1.15	50	PPA774	1.14		50
3/4"	TA776	1.15	50	PPA776	1.14		50
1"	TA778	1.60	25	---	---		--

Male NPT x Female Swivel Adapters

- female shipped with a red vinyl washer (**TVW7**), replacement washers on page 343



male NPT x female threaded swivel nut

Male NPT	Female Thread	Nylon	
		Part #	Price/E
1/4"	3/4" GHT	TSA72	\$1.90
3/8"	3/4" GHT	TSA73	1.95
1/4"	3/4" NPS	TSA62	1.90
3/8"	3/4" NPS	TSA63	2.00

Nuts

female threaded swivel nuts



Thread Size	Nylon	
	Part #	Price/E
3/4" NPS	TCF6	\$0.66
3/4" GHT	TCF7	0.62

Tuff-Lite Female NPT x 90° Hose Barb Elbows

female NPT x 90° hose barb

Hose Size	Female NPT	Part #	Nylon	Price/E
1/2"	1/2"	TLFS44		\$2.95
1/2"	3/4"	TLFS64		3.55
3/4"	3/4"	TLFS66		3.60



Male x 90° Hose Barb Elbows

- Parts showing package quantities are sold in package quantities only.

male NPT x 90° hose barb

male GHT x 90° hose barb

Hose Size	Male NPT	Nylon			Pkg Qty	Male GHT	Nylon		
		Part #	Price/E				Part #	Price/E	Pkg Qty
1/4"	1/8"	TLS21	\$0.82	50	---	---	---	---	
	1/4"	TLS22	0.91	50	---	---	---	---	
	3/8"	TLS23	1.17	50	---	---	---	---	
3/8"	1/8"	TLS31	0.87	50	---	---	---	---	
	1/4"	TLS32	0.91	50	---	---	---	---	
	3/8"	TLS33	1.17	50	---	---	---	---	
	1/2"	TLS34	1.36	50	---	---	---	---	
	3/4"	TLS36	1.46	50	3/4"	TLS37	\$2.85	50	
1/2"	1/4"	TLS42	1.17	50	---	---	---	---	
	3/8"	TLS43	1.17	50	---	---	---	---	
	1/2"	TLS44	1.36	50	---	---	---	---	
	3/4"	TLS46	1.46	25	3/4"	TLS47	2.45	50	
5/8"	1"	TLS48	1.90	25	---	---	---	---	
	3/8"	TLS53	1.36	25	---	---	---	---	
	1/2"	TLS54	1.46	25	---	---	---	---	
	3/4"	TLS56	1.55	25	3/4"	TLS57	2.95	50	
	1"	TLS58	1.65	25	---	---	---	---	
3/4"	3/8"	TLS63	1.65	25	---	---	---	---	
	1/2"	TLS64	1.55	25	---	---	---	---	
	3/4"	TLS66	1.65	25	3/4"	TLS67	3.55	50	
	1"	TLS68	1.72	15	---	---	---	---	
1"	3/4"	TLS86	1.65	15	---	---	---	---	
	1"	TLS88	2.61	15	---	---	---	50	



Street Elbows

female NPT x 90° male NPT

Female NPT	Male NPT	Part #	Nylon	Price/E
1/4"	1/4"	TSE22		\$4.05
1/2"	1/2"	TSE44		3.90
3/4"	3/4"	TSE66		5.30



GHT x Male NPT Elbows

- Parts showing package quantities are sold in package quantities only.

male NPT x male GHT

Male NPT	Part #	Nylon	Price/E	Pkg Qty
3/8"	TLT73		\$1.66	25
1/2"	TLT74		1.65	25
3/4"	TLT76		1.70	25



Tuff-Lite Hose x Hose Elbows



nylon



polypropylene

- Parts showing package quantities are sold in package quantities only.

hose barb x 90° hose barb

Hose Shank	Nylon		Pkg Qty	Polypropylene		Pkg Qty
	Part #	Price/E		Part #	Price/E	
1/4"	TLSS22	\$1.17	50	PPLSS22	\$1.25	50
3/8"	TLSS33	1.21	50	PPLSS33	1.25	50
1/2"	TLSS44	1.35	50	PPLSS44	1.25	50
3/4"	TLSS66	1.42	50	PPLSS66	1.54	50

Hose x Male NPT Tees



- Parts showing package quantities are sold in package quantities only.

hose run x male NPT branch

Hose Size	Male NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/4"	1/4"	TSST222	\$1.23	50
3/8"	3/8"	TSST333	1.35	50
1/2"	1/2"	TSST444	1.52	50
3/4"	3/4"	TSST666	1.70	25

Hose x Hose Tees



- Parts showing package quantities are sold in package quantities only.

hose run x hose branch

Hose Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	TSSS222	\$1.17	50
3/8"	TSSS333	1.21	50
1/2"	TSSS444	1.35	50
3/4"	TSSS666	1.42	25

Menders



nylon



polypropylene

- Parts showing package quantities are sold in package quantities only.

hose shank x hose shank

Hose Shank	Nylon		Pkg Qty	Polypropylene		Pkg Qty
	Part #	Price/E		Part #	Price/E	
1/4"	TM2	\$0.82	50	PPM2	\$0.76	50
5/16"	TM25	0.83	50	---	---	---
3/8"	TM3	0.85	50	PPM3	0.78	50
1/2"	TM4	1.10	50	PPM4	0.91	50
5/8"	TM5	1.50	50	PPM5	1.00	50
3/4"	TM6	1.50	50	PPM6	1.18	50
1"	TM8	1.82	25	PPM8	1.47	50

Tuff-Lite Washers for Garden Hose Fittings

- Parts showing package quantities are sold in package quantities only.

Description	Part #	Price/E	Pkg Qty
<i>red vinyl</i>	TVW7	\$0.10	100
<i>white styrene butadiene rubber</i>	TRW7	0.25	100
<i>black 80 duro SBR</i>	5911212W	0.26	100



red vinyl



black SBR



white rubber

Close Nipples

- Parts showing package quantities are sold in package quantities only.

male NPT x male NPT

NPT Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	TCN202	\$0.72	50
3/8"	TCN303	0.81	50
1/2"	TCN404	0.93	50
3/4"	TCN606	1.10	50



Threaded Caps

- Parts showing package quantities are sold in package quantities only.

female NPT

Thread Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4" NPT	TTC2	\$0.48	50
3/8" NPT	TTC3	0.57	50
1/2" NPT	TTC4	0.71	50
3/4" NPT	TTC6	0.80	50
3/4" GHT	TTC7	0.80	50



Square Head Drain Plugs

- Parts showing package quantities are sold in package quantities only.

male NPT

Male NPT	Nylon		Pkg Qty
	Part #	Price/E	
1/8"	TPS1	\$0.55	50
1/4"	TPS2	0.57	50
3/8"	TPS3	0.68	50
1/2"	TPS4	0.76	50
3/4"	TPS6	0.90	50
1"	TPS8	1.12	50
1 1/4"	TPS10	1.67	25



Hex Head Drain Plugs

- Parts showing package quantities are sold in package quantities only.

male NPT

Male NPT	Nylon		Pkg Qty
	Part #	Price/E	
1/8"	TPX1	\$0.64	50
1/4"	TPX2	0.68	50
3/8"	TPX3	0.71	50
1/2"	TPX4	0.82	50
3/4"	TPX6	0.96	50
1"	TPX8	1.17	50
1 1/4"	TPX10	1.55	50



Tuff-Lite

Push-On Male Inserts

Features:

- Parts showing package quantities are sold in package quantities only.
- No clamps are needed when these fittings are used with push-on hose.


push-on hose shank x male NPT

Hose Size	Male NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/4"	1/8"	TPN21	\$0.70	50
	1/4"	TPN22	0.72	50
	3/8"	TPN23	0.78	50
3/8"	1/4"	TPN32	0.74	50
	3/8"	TPN33	0.79	50
	1/2"	TPN34	0.93	50
1/2"	3/8"	TPN43	1.15	50
	1/2"	TPN44	1.15	50
	3/4"	TPN46	1.20	50

Push-On Female Inserts

Features:

- Parts showing package quantities are sold in package quantities only.
- No clamps are needed when these fittings are used with push-on hose.


push-on hose shank x female NPT

Hose Size	Female NPT	Nylon		Pkg Qty
		Part #	Price/E	
1/4"	1/4"	TPF22	\$1.02	50
3/8"	1/4"	TPF32	1.26	50
	3/8"	TPF33	1.26	50
1/2"	3/8"	TPF43	1.15	50
	1/2"	TPF44	1.32	50

Push-On Menders

Features:

- Parts showing package quantities are sold in package quantities only.
- No clamps are needed when these fittings are used with push-on hose.


push-on hose shank x push-on hose shank

Hose Size	Nylon		Pkg Qty
	Part #	Price/E	
1/4"	TPM2	\$0.65	50
3/8"	TPM3	0.71	50
1/2"	TPM4	0.87	50

Pinch-On Single Ear Clamps

Features:

- band width: 1/4"
- band thickness: .030"
- sold in package quantities only

Nominal Size	Range		Zinc Plated Steel		304 Stainless Steel		Pkg Qty
	closed	open	Part #	Price/E	Part #	Price/E	
3/8"	.350	.413	105	\$0.48	105R	\$0.54	100
7/16"	.382	.445	113	0.48	113R	0.55	100
15/32"	.409	.484	123	0.48	123R	0.56	100
1/2"	.449	.524	133	0.48	133R	0.56	100
35/64"	.469	.551	140	0.49	140R	0.57	100
9/16"	.496	.571	145	0.49	145R	0.58	100
5/8"	.543	.618	157	0.49	157R	0.59	100
11/16"	.595	.669	170	0.49	170R	0.60	100
23/32"	.618	.728	185	0.49	185R	0.61	100
3/4"	.669	.780	198	0.49	198R	0.63	100
13/16"	.717	.827	210	0.51	210R	0.66	100
7/8"	.780	.890	226	0.51	226R	0.67	100
15/16"	.839	.949	241	0.52	241R	0.68	100
1"	.898	1.008	256	0.53	256R	0.70	100
1-1/16"	.945	1.067	271	0.54	271R	0.72	100
1-1/8"	1.004	1.126	286	0.56	286R	0.73	100
1-3/16"	1.063	1.185	301	0.57	301R	0.75	100
1-5/16"	1.181	1.303	331	0.59	331R	0.78	100
1-3/8"	1.240	1.362	346	0.61	346R	0.81	100
1-15/32"	1.358	1.480	376	0.64	376R	0.83	100
1-9/16"	1.437	1.559	396	0.68	396R	0.88	100
1-5/8"	1.492	1.614	410	0.69	410R	0.89	100
1-11/16"	1.551	1.673	425	0.71	425R	0.91	100
1-23/32"	1.610	1.732	440	0.72	440R	0.93	100
1-3/4"	1.669	1.791	455	0.73	455R	0.94	100
1-13/16"	1.728	1.850	470	0.76	470R	0.96	100
1-7/8"	1.787	1.909	485	0.78	485R	0.97	100
1-15/16"	1.847	1.969	500	0.80	500R	0.99	100
2"	1.906	2.028	515	0.82	515R	1.00	100



J

Pinch-On Double Ear Clamps

Features:

- When ordering double ear clamps, select nominal clamp size nearest to, but always larger than, the OD of material to be clamped after insert has been fitted.

Nominal Size	Range		Zinc Plated Steel		304 Stainless Steel		Pkg Qty
	closed	open	Part #	Price/E	Part #	Price/E	
3/16"	.134	.197	0305	\$0.82	0305R	\$1.05	100
1/4"	.197	.276	0507	0.87	0507R	1.10	100
5/16"	.276	.354	0709	0.87	0709R	1.15	100
3/8"	.319	.433	0811	0.87	0811R	1.20	100
1/2"	.425	.512	1113	0.89	1113R	1.25	100
9/16"	.492	.591	1315	1.04	1315R	1.43	100
19/32"	.551	.669	1517	1.05	1517R	1.58	100
5/8"	.591	.709	1518	1.05	1518R	1.68	100
3/4"	.638	.787	1720	1.14	1720R	1.88	100
13/16"	.709	.866	1922	2.07	1922R	1.93	100
7/8"	.748	.906	2023	1.30	2023R	2.08	100
15/16"	.827	.984	2225	2.42	2225R	2.17	100
1"	.886	1.063	2327	1.55	2327R	2.32	100
1-1/8"	1.035	1.221	2731	1.70	2731R	2.62	100
1-7/16"	1.260	1.457	3437	1.89	3437R	3.06	100
1-1/2"	1.378	1.575	3740	3.29	3740R	3.20	100



Stepless® Ear Clamps

Application:

Stepless® ear clamps hold against pressure and vibration or material shrinkage due to temperature changes or aging. A built-in spring action permits the clamp to breathe without loosening.

Technical Information:

- once installed and clamped, any tampering is easily visible
- **Clamps are not reusable**; they should not be pried open, doing so renders the clamps nonfunctional.
- When ordering Stepless® ear clamps, select the nominal size nearest to, but always larger than, the outside diameter of the material to be clamped. The outside diameter should be determined with connection fully assembled.
- sold in quantities of 100 per bag

Features:

- 304 stainless steel
- ensured clamping seal
- for low durometer and/or thin-walled hose/tubing
- for silicon, vinyl, polyurethane or other high-tech materials
- Smooth inner band prevents damage to the hose while the tongue-in-groove design provides a 360° seal.
- no steps or gaps inside the clamp
- Install clamps using 1098 or 1099 clamp tools below.



Nominal Size	Range (inches)		304 Stainless Steel	
	closed	open	Part #	Price/E
9/32"	.228	.275	0983	\$0.99
3/8"	.307	.374	0986	0.99
7/16"	.378	.445	0989	0.99
1/2"	.425	.524	0993	1.00
35/64"	.453	.551	0997	1.00
9/16"	.472	.571	0999	1.01
5/8"	.520	.618	1005	1.02
11/16"	.571	.669	1009	1.03
3/4"	.654	.779	1021	1.20
13/16"	.701	.827	1029	1.21

Clamp Service Kit



Features:

Plastic kit box contains zinc plated 2-ear clamps:

- 15 of part #0709
- 15 of part #0811
- 15 of part #1113
- 15 of part #1315
- 15 of part #1518
- 12 of part #1720
- 12 of part #2023
- 12 of part #2225
- 12 of part #2327
- 1 pair of standard jaw pincers, part # 1098

Part #	Price/E
SK1098	\$184.70

Clamp Construction Kit



Features:

Plastic construction clamp kit box contains the following:

- 50 of part #2225 (zinc plated, 2-ear clamps)
- 40 of part #2731 (zinc plated, 2-ear clamps)
- 6 hose menders (1/2", plastic)
- 1 pair of long handle pincers

Part #	Price/E
18500116	\$360.00

Clamp Tools for Pinch-On Clamps



straight jaw

Part #	Price/E
9901	\$104.95



standard jaw

Part #	Price/E
1098	\$61.10



side jaw

Part #	Price/E
1099	\$74.55

Dixon Worm Gear Clamps

Features:

- four-piece construction
- clamp meets SAEJ1508 which supercedes Mil Spec WW-C-440B
- screw design: 5/16" slotted hex head
- maximum recommended torque 50 in. lbs.
- *all clamps sold 10 per box*

Style HS material:

- band and housing: SAE 201/301 series stainless
- screw: SAE 1018 case-hardened, hex-free chrome zinc-plated steel

Style HSS material:

- band and housing: SAE 300 series stainless
- screw: SAE 300 series stainless

Band Width	Hose OD		style HS		Case Qty	style HSS		Case Qty
	from	to	Part #	Price/E		Part #	Price/E	
1/2"	28/64"	50/64"	HS6	\$1.50	200	HSS6	\$2.00	200
	32/64"	58/64"	HS8	1.50	200	HSS8	2.00	200
	36/64"	1-4/64"	HS10	1.50	500	HSS10	2.00	500
	44/64"	1-16/64"	HS12	1.55	500	HSS12	2.00	500
	52/64"	1-32/64"	HS16	1.55	500	HSS16	2.00	500
	52/64"	1-48/64"	HS20	1.55	500	HSS20	2.05	500
	1-4/64"	2"	HS24	1.55	500	HSS24	2.05	500
	1-20/64"	2-16/64"	HS28	1.60	500	HSS28	2.05	500
	1-36/64"	2-32/64"	HS32	1.60	500	HSS32	2.05	500
	1-52/64"	2-48/64"	HS36	1.65	500	HSS36	2.15	500
	2-4/64"	3"	HS40	2.00	200	HSS40	2.45	200
	2-20/64"	3-16/64"	HS44	2.20	200	HSS44	2.80	200
	2-36/64"	3-32/64"	HS48	2.20	200	HSS48	2.80	200
	2-52/64"	3-48/64"	HS52	2.35	200	HSS52	2.95	200
	3-4/64"	4"	HS56	2.35	200	HSS56	2.95	200
	3-20/64"	4-16/64"	HS60	2.50	200	HSS60	3.00	200
9/16"	3-36/64"	4-32/64"	HS64	2.50	200	HSS64	3.00	200
	1-56/64"	5"	HS72	2.70	100	HSS72	3.30	100
	2-32/64"	5-32/64"	HS80	3.10	100	HSS80	3.40	100
	3-8/64"	6"	HS88	3.20	100	HSS88	3.75	100
	3-40/64"	6-32/64"	HS96	3.25	100	HSS96	3.85	100
	4-8/64"	7"	HS104	3.30	100	HSS104	3.35	100
	5-40/64"	8-32/64"	HS128	4.90	100	HSS128	5.25	100
	7-8/64"	10"	HS152	5.25	100	HSS152	5.80	100
	9-24/64"	12-16/64"	HS188	5.75	100	HSS188	6.35	100
	10-8/64"	13"	HS200	5.80	100	HSS200	6.60	100
	10-56/64"	13-48/64"	HS212	5.90	100	HSS212	7.00	100
	11-40/64"	14-32/64"	HS224	6.55	100	HSS224	7.45	100
	12-24/64"	15-16/64"	HS236	7.10	100	HSS236	8.20	100
	13-8/64"	16"	HS248	7.40	100	HSS248	9.15	100
17-8/64"	20"	HS312	9.05	100	HSS312	10.40	100	



style HSS

J

Miniature Worm Gear Clamps

Features:

- screw design: 1/4" slotted hex head
- maximum recommended torque 15 in. lbs.
- *all clamps sold 10 per box*
- meets SAE J1508

Style MH material:

- band and housing: SAE 201/301 series stainless
- screw: SAE 1018 case-hardened, hex-free chrome zinc-plated steel

Style MAH material:

- band and housing: SAE 300 series stainless
- screw: SAE 300 series stainless

Band Width	Hose OD		style MH		Case Qty	style MAH		Case Qty
	from	to	Part #	Price/E		Part #	Price/E	
5/16"	14/64"	40/64"	MH4	\$1.15	500	MAH4	\$1.45	500
	28/64"	50/64"	MH6	1.15	500	MAH6	1.45	500
	32/64"	58/64"	MH8	1.35	200	MAH8	1.65	200
	36/64"	1-4/64"	MH10	1.35	200	MAH10	1.65	200
	44/64"	1-16/64"	MH12	1.40	200	MAH12	1.75	200
	60/64"	1-32/64"	MH16	1.40	200	MAH16	1.75	200
	1-12/64"	1-48/64"	MH20	1.45	200	MAH20	1.75	200



style MAH



Torque ratings correspond to the torque rating of the screw of the clamp and *are not an indication of the working pressure of any hose assembly installed with this clamp.*

NEW
FOR 2013

Marine Grade Worm Gear Clamps

Features:

- three-piece construction
- clamp meets SAEJ1508 which supercedes Mil Spec WW-C-440B
- 316 marine grade SS: band, screw, housing
- screw design: 5/16" slotted hex head
- maximum recommended torque 50 in. lbs.
- all clamps sold 10 per box



Band Width	Hose OD		316 Stainless Steel		Price/E
	from	to	Part #		
1/2"	3/8"	7/8"	MGC6		\$2.90
	7/16"	1"	MGC8		2.90
	1/2"	1-1/16"	MGC10		2.90
	1/2"	1-1/4"	MGC12		2.95
	11/16"	1-1/2"	MGC16		2.95
	3/4"	1-3/4"	MGC20		3.00
	1"	2"	MGC24		3.00
	1-1/4"	2-1/4"	MGC28		3.00
	1-1/2"	2-1/2"	MGC32		3.00
	1-3/4"	2-3/4"	MGC36		3.10
	2"	3"	MGC40		3.30
	2-1/4"	3-1/4"	MGC44		3.90
	2-1/2"	3-1/2"	MGC48		3.90
	2-3/4"	3-3/4"	MGC52		4.10
	3"	4"	MGC56		4.10
	2-1/2"	4-1/2"	MGC64		4.55
	3"	5"	MGC72		4.70
	3-1/2"	5-1/2"	MGC80		5.20
	4"	6"	MGC88		5.30
	4-1/2"	6-1/2"	MGC96		5.50
5"	7"	MGC104		5.55	

Thumb Screw Clamps

Features:

- worm gear style clamp, no tools required
- screw cap removable to make clamp tamper resistant
- plated carbon steel screw with a yellow thermoplastic screw cap, removable and reusable
- band and housing are stainless steel



Band Width	Hose OD		Stainless Steel		Pkg Qty
	from	to	Part #	Price/E	
5/16"	1/4"	5/8"	MH4Y	\$2.30	10
1/2"	1/2"	1-1/4"	HS12Y	3.20	10
1/2"	3/4"	1-3/4"	HS20Y	3.50	10
1/2"	1-1/4"	2-1/4"	HS28Y	3.75	10

Aero-Seal® Clamps

Features:

- four-piece construction
- band slots designed for strength and smooth action
- saddle interlocks into embossed band to form a true concentric circle
- slotted hex head screw design
- heat treated screws have buttress thread type
- safety collar or thumb screw available on the style 200 series only
- maximum recommended torque 50 in. lbs.

! Torque ratings correspond to the torque rating of the screw of the clamp and are not an indication of the working pressure of any hose assembly installed with this clamp.

Style 100 material:

- band and housing: 300 SS
- screw: plated carbon steel

Style 200 material:

- band and housing: 300 SS
- screw: 410 stainless

Style 300 material:

- band and housing: 302 SS
- screw: 305 stainless



style 300

Band Width	Hose OD		Style 100		Style 200		Style 300		Pkg Qty
	from	to	Part #	Price/E	Part #	Price/E	Part #	Price/E	
9/16"	28/64"	50/64"	10006	\$1.90	20006	\$2.40	30006	\$2.75	10
	32/64"	58/64"	10008	1.90	20008	2.40	30008	2.75	10
	36/64"	1-4/64"	10010	1.90	20010	2.40	30010	2.75	10
	44/64"	1-16/64"	10012	2.00	20012	2.45	30012	2.80	10
	52/64"	1-32/64"	10016	2.00	20016	2.45	30016	2.80	10
	52/64"	1-48/64"	10020	2.00	20020	2.50	30020	2.85	10
	1-4/64"	2"	10024	2.00	20024	2.50	30024	2.85	10
	1-20/64"	2-16/64"	10028	2.05	20028	2.55	30028	2.90	10
	1-36/64"	2-32/64"	10032	2.05	20032	2.55	30032	2.90	10
	1-52/64"	2-48/64"	10036	2.05	20036	2.60	30036	2.95	10
	2-4/64"	3"	10040	2.60	20040	3.20	30040	3.60	10
	2-20/64"	3-16/64"	10044	2.80	20044	3.50	30044	3.90	10
	2-36/64"	3-32/64"	10048	2.80	20048	3.45	30048	3.90	10
	2-52/64"	3-48/64"	10052	3.00	20052	3.70	30052	4.20	10
	3-4/64"	4"	10056	3.00	20056	3.70	30056	4.20	10
	3-20/64"	4-16/64"	10060	3.20	20060	4.00	30060	4.50	10

Aero-Seal® Liner Clamps

Applications:

The integral extension of the band as a liner (no rivets or welds) protects soft surface hose (silicone and others) from damage caused by extrusion or shearing through the band slots.

Features:

- screw design: 5/16 hex slotted hex head
- Style DL material:
 - band, saddle, housing: stainless steel
 - screw: plated carbon steel

Style DLS material:

- band, saddle, housing: stainless steel
- screw: 410 stainless steel

Band Width	Hose OD		style DL		Pkg Qty	style DLS		Pkg Qty
	from	to	Part #	Price/E		Part #	Price/E	
1/2"	7/16"	25/32"	DL9206	\$3.05	10	DLS9406	\$3.65	10
	1/2"	29/32"	DL9208	3.05	10	DLS9408	3.65	10
	9/16"	1-1/16"	DL9210	3.05	10	DLS9410	3.65	10
	11/16"	1-1/4"	DL9212	3.10	10	DLS9412	3.75	10
	13/16"	1-1/2"	DL9216	3.10	10	DLS9416	3.75	10
	13/16"	1-3/4"	DL9220	3.15	10	DLS9420	3.75	10
	1-1/16"	2"	DL9224	3.15	10	DLS9424	3.75	10
	1-5/16"	2-1/4"	DL9228	3.20	10	DLS9428	3.80	10
	1-9/16"	2-1/2"	DL9232	3.20	10	DLS9432	3.80	10
	1-13/16"	2-3/4"	DL9236	3.30	10	DLS9436	3.95	10
	2-1/16"	3"	DL9240	4.00	10	DLS9440	4.80	10
	2-5/16"	3-1/4"	DL9244	4.35	10	DLS9444	5.00	10
	2-9/16"	3-1/2"	DL9248	4.35	10	DLS9448	5.15	10



style DLS

WaveSeal Clamps

Application:

Provides superior retention in applications involving thermal cycling and / or high vibration.

Features:

- produces a sealing O-ring effect that prevents leakage
- 5/16" head screw
material:
 - band: 301 stainless steel
 - liner and housing: 304 stainless steel
 - screw: 410 stainless steel
- sold 10 per box

Band Width	Hose OD		Stainless Steel Part #	Price/E
	from	to		
9/16"	13/16"	1-19/64"	WSS16	5.85
	1-1/16"	1-3/8"	WSS19	5.90
	1"	1-9/16"	WSS20	5.90
	1-1/8"	1-11/16"	WSS22	6.20
	1-3/16"	1-13/16"	WSS24	6.30
	1-5/16"	2-1/16"	WSS28	6.65
	1-9/16"	2-5/16"	WSS32	6.45
	1-5/8"	2-7/16"	WSS34	7.25
	1-11/16"	2-9/16"	WSS36	7.40
	1-13/16"	2-13/16"	WSS40	7.75
	2-1/16"	3-1/16"	WSS44	7.75
	2-3/16"	3-5/16"	WSS48	8.05
	2-3/8"	3-9/16"	WSS52	8.45
	2-1/2"	3-13/16"	WSS56	8.85
	2-11/16"	4-1/16"	WSS60	9.20
	2-13/16"	4-5/16"	WSS64	9.55
	3-3/16"	4-13/16"	WSS72	10.35
	3-9/16"	5-5/16"	WSS80	11.65
	3-13/16"	5-13/16"	WSS88	12.50



HTM Hi Torque Clamps

Features:

- withstands more than three times the SAE torque requirements for worm-driven clamps
- eight screw threads are engaged in the band simultaneously for incredible torquing drive (over 150 in. lbs.), sealing pressure and vibration resistance
- slotted hex head screw design

Material:

- band and housing: 300 series half hard stainless
- screw: 410 stainless steel screw



style HTM

Band Width	Hose OD		Stainless Steel		Opt Qty
	from	to	Part #	Price/E	
5/8"	1-16/64"	2-8/64"	HTM200	\$4.90	10
	1-48/64"	2-40/64"	HTM250	5.00	10
	2-16/64"	3-8/64"	HTM300	5.15	10
	2-48/64"	3-40/64"	HTM350	5.25	10
	3-16/64"	4-8/64"	HTM400	5.40	10
	3-48/64"	4-40/64"	HTM450	5.55	10
	4-16/64"	5-8/64"	HTM500	5.80	10
	4-48/64"	5-40/64"	HTM550	6.15	10
	5-16/64"	6-8/64"	HTM600	6.30	10
	5-48/64"	6-40/64"	HTM650	6.40	10
	6-16/64"	7-8/64"	HTM700	6.60	10
	6-48/64"	7-40/64"	HTM750	7.10	10
	7-16/64"	8-8/64"	HTM800	7.25	10
	7-48/64"	8-40/64"	HTM850	7.40	10
	8-16/64"	9-8/64"	HTM900	7.65	10

extended range clamps



style HP

Band Width	Hose OD		Stainless Steel	
	from	to	Part #	Price/E
5/8"	1-16/64"	2-40/64"	HP2	\$4.95
	2-8/64"	4-8/64"	HP3	5.45
	4"	6-8/64"	HP4	6.35
	6-8/64"	9-8/64"	HP5	7.60

Constant Torque Clamps

Features:

- A patented Belleville spring mechanism permits the clamp to automatically increase or decrease its own diameter due to changes in operational or environmental temperatures.
- 3/8" hex, carbon steel screw, 5/8" wide 304 stainless steel band



Band Width	Hose OD		Part #	Price/E	Hose OD		Part #	Price/E
	from	to			from	to		
5/8"	1"	1-3/4"	CT175L	\$18.80	5¼"	6-1/8"	CT600L	\$21.10
	1¼"	2-1/8"	CT200L	18.80	5¾"	6-5/8"	CT650L	21.25
	1¾"	2-5/8"	CT250L	18.90	6¼"	7-1/8"	CT700L	21.65
	2¼"	3-1/8"	CT300L	19.25	6¾"	7-5/8"	CT750L	22.45
	2¾"	3-5/8"	CT350L	19.40	7¼"	8-1/8"	CT800L	22.75
	3¼"	4-1/8"	CT400L	19.70	7¾"	8-5/8"	CT850L	23.20
	3¾"	4-5/8"	CT450L	19.90	8¼"	9-1/8"	CT900L	23.45
	4¼"	5-1/8"	CT500L	20.25	8¾"	9-5/8"	CT950L	23.70
	4¾"	5-5/8"	CT550L	20.85	--	--	--	--

Quick Release Clamps

Features:

- maximum recommended torque 30 in. lbs.
- screw design: 5/16" slotted hex head
- Parts showing package quantities are sold in package quantities only.



• Torque ratings correspond to the torque rating of the screw of the clamp and are not an indication of the working pressure of any hose assembly installed with this clamp.

Style LS material:

- band and housing: 301 series stainless
- screw: plated hardened carbon steel

Style LSS material:

- band and housing: 301 series stainless
- screw: SAE 410 series stainless

Band Width	Hose OD		style LS		Pkg Qty	style LSS		Pkg Qty
	from	to	Part #	Price/E		Part #	Price/E	
1/2"	1-32/64"	3-32/64"	LS48	\$2.85	10	LSS48	\$4.50	10
	1"	4"	LS56	3.00	10	---	---	--
	2"	5"	LS72	3.50	10	LSS72	4.70	10
	2-4/64"	6"	LS88	4.10	10	LSS88	5.50	10
	3-32/64"	6-36/64"	LS96	4.05	--	---	---	--
	1-48/64"	7"	LS104	5.10	10	LSS104	6.25	10
	1-48/64"	8-36/64"	LS128	4.85	--	LSS128	6.10	--
	2"	10"	LS152	7.45	--	---	---	--
	2-4/64"	12-20/64"	LS188	6.00	--	LSS188	7.20	--
	10-12/64"	14"	---	---	--	LSS216	7.85	--
10-48/64"	16"	---	---	--	LSS248	8.90	--	



style LS

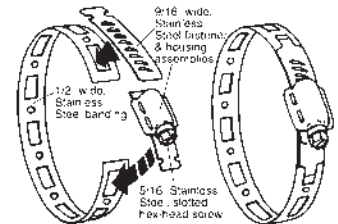


style LSS

Make-A-Clamp Kits

Features:

- A maintenance clamp system in a box; by simply cutting off a piece of banding from a continuous roll, you can make any size stainless steel worm-driven clamp from 3" diameter and up. It is a must for anyone likely to encounter requirements for varying sized large clamps.
- reusable
- band width: 1/2"
- band thickness: .023"
- screw design: 5/16" slotted hex head
- band and housing material: 302 stainless, screw material: 410 stainless



Contents	Stainless Steel	
	Part #	Price/E
mini kit: 8½' band, 3 adjustable fasteners, 1 band splice	4000	\$26.55
kit with 100' band, 25 adjustable fasteners, 10 band splices	4001	207.05
kit with 50' band, 10 adjustable fasteners, 5 band splices	4002	108.25
box with 10 adjustable fasteners: priced per box	4004	43.55
box with 100' band, 10 band splices	4005	105.05
box with 50' band, 5 band splices	4006	56.25
6" demonstrator kit with clamps	4007	17.00
box with 10 band splices: priced per box	4008	25.00



Dixon Racks for Worm Gear Clamps

Features:

- top load metal rack made of nickel plated steel rods with enameled steel sign
- sign identifies each clamp size and diameter range
- rack with clamps contains 9 clamp sizes with diameter ranges from 7/32" - 2-3/4"

Clamps included are:

- 30 of part# MH4
- 30 of part# MH6
- 20 of part# HS10
- 20 of part# HS12
- 20 of part# HS20
- 20 of part# HS24
- 20 of part# HS28
- 20 of part# HS32
- 20 of part# HS36

Description	Part #	Price/E
with 200 clamps	CRWC	\$360.70
without clamps	CR	92.35



CRWC



CR

Band Clamps - F series

Center Punch Clamps

Features:

- for use with center punch tools F1, F38, F40 and F100 located on page 355, other manufacturer's punch style tools may also be used
- on stainless clamps, bands are 300 series stainless steel, buckles are 302 series stainless steel

style F (pre-formed)

Band Width	ID	Band THK	Stainless Steel		Pkg Qty	Band THK	Galvanized Steel		Pkg Qty
			Part #	Price/E			Part #	Price/E	
3/8"	13/16"	.020	FS3	\$1.55	100	.025	F3	\$0.95	100
	1-3/8"	.020	FS311	1.75	100	.025	F311	1.00	100
	1"	.022	FS4	2.05	100	.025	F4	1.05	100
	1-1/4"	.022	FS5	2.20	100	.025	F5	1.10	100
	1-1/2"	.022	FS6	2.35	100	.031	F6	1.20	100
	1-3/4"	.022	FS7	2.55	100	.031	F7	1.30	100
	2"	.022	FS8	2.70	100	.031	F8	1.35	100
	2-1/4"	.022	FS9	2.85	100	.031	F9	1.40	100
	2-1/2"	.022	FS10	3.10	50	.031	F10	1.65	50
	2-3/4"	.022	FS11	3.25	50	.031	F11	1.70	50
5/8"	3"	.022	FS12	3.45	50	.031	F12	1.80	50
	3-1/2"	.022	FS14	3.80	50	.031	F14	1.95	50
	4"	.022	FS16	4.25	25	.031	F16	2.20	25
	4-1/2"	.022	FS18	4.60	25	.031	F18	2.40	25
	5"	.022	FS20	4.95	25	.031	F20	2.45	25
	6"	.022	FS24	5.65	25	.031	F24	2.90	25
	7"	.022	FS28	6.40	25	.031	F28	3.40	25
	8"	.022	FS32	7.10	25	.031	F32	3.70	25



style F

style FO (open end)

Band Width	ID	Band THK	Stainless Steel		Pkg Qty	Band THK	Galvanized Steel		Pkg Qty
			Part #	Price/E			Part #	Price/E	
3/8"	13/16"	.020	FOS3	\$3.70	100	.025	FO3	\$3.30	100
	1-3/8"	.020	FOS311	3.90	100	.025	FO311	3.40	100
	2"	.020	FOS316	4.10	100	.025	FO316	3.45	100
	3-1/8"	.020	FOS325	4.40	100	.025	FO325	3.60	100
	2"	.022	FOS8	3.85	100	.025	FO8	2.20	100
5/8"	2-1/2"	.022	FOS10	4.25	50	.025	FO10	2.30	50
	3"	.022	FOS12	4.65	50	.031	FO12	2.45	50
	3-1/2"	.022	FOS14	5.05	50	.031	FO14	2.60	50
	4"	.022	FOS16	5.40	50	.031	FO16	2.70	50
	4-1/2"	.022	FOS18	5.75	50	.031	FO18	2.90	50
	5"	.022	FOS20	6.20	25	.031	FO20	3.10	25
	6"	.022	FOS24	6.95	25	.031	FO24	3.30	25
	7"	.022	FOS28	8.10	25	.031	FO28	3.50	25
	8"	.022	FOS32	9.10	25	.031	FO32	3.80	25
	9"	.022	---	---	25	.031	FO36	4.35	25
	10"	.022	---	---	25	.031	FO40	4.60	25
	12"	.022	---	---	25	.031	FO48	5.55	25
	14"	.022	---	---	10	.031	FO56	6.75	10



style FO

Band Clamps - K series Universal Preformed Clamp

style K (pre-formed)

Features:

- can be center punched or rolled over, for use with the center punch or roll over tools located on page 355
- on stainless clamps, bands are 300 series stainless steel, buckles are 302 series stainless steel
- Fast-Lok™ tools: F1, F40, F100 (page 355)
- Super Strap Tools: 51960 screw action with 51970 adapter (page 356)
- Bandit®: S100 air tool with S180 Jr. head, C-001 hand tool with J001 Jr. adapter, S350 air tool with S260 Jr. head, T-240 for 3/8" only or T-250 for 3/8" and 5/8", S-38 for 3/8" and 5/8", J-102 Pok-It™ for 3/8" only.
- Punch-Lok® tools: P-1000 for 3/8" and 5/8", P-3000 for 3/8" only, P-38 for 3/8" and 5/8"
- sold in package quantities only

Band Width	ID	Band THK	Stainless Steel		Pkg Qty	Band THK	Galvanized Steel		Pkg Qty
			Part #	Price/E			Part #	Price/E	
3/8"	13/16"	.025	KS3	\$1.55	100	.025	K3	\$1.00	100
	1-3/8"	.025	KS311	1.75	100	.025	K311	1.05	100
5/8"	1"	.031	KS4	2.65	100	.030	K4	1.40	100
	1-1/4"	.031	KS5	2.70	100	.030	K5	1.45	100
	1-1/2"	.031	KS6	2.90	100	.030	K6	1.55	100
	1-3/4"	.031	KS7	3.10	100	.030	K7	1.60	100
	2"	.031	KS8	3.30	100	.030	K8	1.65	100
	2-1/4"	.031	KS9	3.55	100	.030	K9	1.70	100
	2-1/2"	.031	KS10	3.80	50	.030	K10	1.80	50
	2-3/4"	.031	KS11	4.15	50	.030	K11	1.95	50
	3"	.031	KS12	4.35	50	.030	K12	2.00	50
	3-1/2"	.031	KS14	4.80	50	.030	K14	2.15	50
	4"	.031	KS16	5.35	25	.030	K16	2.40	25
	4-1/2"	.031	KS18	5.75	25	.030	K18	2.50	25
	5"	.031	KS20	6.20	25	.030	K20	2.70	25
	6"	.031	KS24	7.05	25	.030	K24	3.10	25
	7"	.031	KS28	8.05	25	.030	K28	3.60	25
8"	.031	KS32	8.95	25	.030	K32	3.80	25	


J

3/4" width style K (pre-formed)

Feature:

- 3/4" width K Clamp must be applied with F175 hand tool located on page 355

Band Width	ID	Band THK	Stainless Steel		Pkg Qty
			Part #	Price/E	
3/4"	2"	.030	KS87501	\$4.60	100
	2-1/4"	.030	KS97501	4.65	100
	2-1/2"	.030	KS107501	4.85	50
	2-3/4"	.030	KS117501	5.05	50
	3"	.030	KS127501	5.30	50
	3-1/2"	.030	KS147501	5.80	50
	4"	.030	KS167501	6.40	25
	4-1/2"	.030	KS187501	7.05	25
	5"	.030	KS207501	7.50	25
	6"	.030	KS247501	8.70	25
	7"	.030	KS287501	10.00	25
8"	.030	KS327501	11.00	25	

Dixon Smooth ID Clamps

Application:

For use with industrial hose made of stiffer, thinner thermoplastics.

Features:

- available in a wide variety of widths, sizes and materials that provide a uniform, gap-free inside diameter, and strong holding power.
- For use with roll over type clamp tools and most common band clamp tools such as the 51960 and 51970 band tools on page 356.



Band Width	ID	Band THK	201 Stainless Steel		Pkg Qty	Galvanized Steel		Pkg Qty
			Part #	Price/E		Part #	Price/E	
3/8"	13/16"	.025	JS201	\$2.45	100	JS301	\$1.20	100
	1"	.025	JS243	2.80	100	JS343	1.15	100
	1-3/8"	.025	JS202	2.70	100	JS302 ¹	1.25	100
	2"	.025	JS245 ¹	3.10	100	---	---	---
1/2"	1"	.030	JS203	3.40	100	JS303	1.45	100
	1-1/4"	.030	JS204	3.70	100	JS304	1.55	100
	2-3/4"	.030	JS230	5.60	100	JS330 ¹	2.30	100
5/8"	1-1/2"	.030	JS205	4.50	100	JS305	1.70	100
	1-3/4"	.030	JS206	4.95	100	JS306	1.90	100
	2"	.030	JS207	5.45	100	JS307	2.15	100
	2-1/4"	.030	JS208	5.75	100	JS308	2.20	100
	2-1/2"	.030	JS209	6.15	100	JS309	2.35	100
3/4"	2-3/4"	.030	JS210	7.30	50	JS310 ¹	2.85	50
	3"	.030	JS211	7.95	50	---	---	---
	3-1/2"	.030	JS212	8.45	50	JS312	3.20	50
	4"	.030	JS213	9.65	25	JS313	3.70	25
	4-1/2"	.030	JS214	10.40	25	JS314	3.90	25
	5"	.030	JS215	11.20	25	JS315	4.30	25
	6"	.030	JS216 ¹	12.90	25	JS316 ¹	4.95	25
	7"	.030	JS218 ¹	15.50	25	---	---	---

¹ stock quantities only

Dixon Smooth ID Center Punch Clamps

Application:

- Recommended for use in applications where conditions are highly corrosive.

Features:

- Double wrapped and locked with the conical punch of the F100 tool (page 355).
- unique dimple design offers excellent sealing strength while maintaining radial compression
- heavy buckle provides optimal holding power
- ideal for thin wall hose
- low profile clamp



Band Width	ID	Band THK	201 Stainless Steel		Pkg Qty
			Part #	Price/E	
5/8"	1"	.025	HBC4S	\$2.20	100
	1 1/4"	.025	HBC5S	2.40	100
	1 1/2"	.025	HBC6S	2.50	100
	1 3/4"	.025	HBC7S	2.70	100
	2"	.025	HBC8S	2.90	100
	2 1/4"	.025	HBC9S	3.05	100
	2 1/2"	.025	HBC10S	3.30	50
	2 3/4"	.025	HBC11S	3.45	50
	3"	.025	HBC12S	3.60	50
	3 1/2"	.025	HBC14S	4.00	50
	4"	.025	HBC16S	4.55	25
	4 1/2"	.025	HBC18S	4.80	25
	5"	.025	HBC20S	5.15	25
	6"	.025	HBC24S	5.90	25
	7"	.025	HBC28S	6.65	25
8"	.025	HBC32S	7.40	25	

Band Clamp Hand Tools

Description	Part #	Price/E
Portable locking hand tool used to apply punch type 3/8" and 5/8" band clamps. For use with F series only.	F38	\$87.00



Description	Part #	Price/E
Intermediate hand tool for 3/8" and 5/8" band clamps.	F40	\$151.00



Description	Part #	Price/E
Hand tool for application of 5/8" band clamps. Imported tool.	F1	\$205.60



Description	Part #	Price/E
Hand tool for application of 3/8" and 5/8" band clamps.	F100	\$351.00



Description	Part #	Price/E
Hand tool for application of 3/4" K clamps only.	F175	\$886.00



Description	Part #	Price/E
3/8" clamp adapter for F100 tool only.	F229	\$21.00



Band Clamp Tool Accessories

Description	Part #	Price/E
Mallet for punching band clamps	F225	\$72.00



Description	Part #	Price/E
Clamp cutter	F550	\$138.00



Band and Buckle



strapping



buckles

Applications:

- to be used with C2 or 51960 band clamp tools at bottom of page
- sold in box quantities only

strapping

Band Width	Band Thickness	Length	201 Stainless Steel		Galvanized Steel	
			Part #	Price/E	Part #	Price/E
3/8"	.025	100'	SS375	\$99.00	SG375	\$50.15
1/2"	.031	100'	SS500	136.70	SG500	63.00
5/8"	.031	100'	SS625	185.40	SG625	76.00
3/4"	.031	100'	SS750	223.10	SG750	90.00

buckles

Band Width	201 Stainless Steel			Galvanized Steel		
	Part #	Price/E	Pkg Qty	Part #	Price/E	Pkg Qty
3/8"	CS375	\$0.70	100	CG375	\$0.32	100
1/2"	CS500	0.95	100	CG500	0.48	100
5/8"	CS625	1.30	100	CG625	0.53	100
3/4"	CS750	1.65	100	CG750	0.75	50

Set Screw Buckles

Applications:

- Used in applications when a temporary clamp is desired or space limitations do not allow for tool roll-over, set screw locks band after tensioning.
- sold in box quantities only



Band Width	201 Stainless Steel		
	Part #	Price/E	Pkg Qty
3/8"	SSB375	\$5.60	50
1/2"	SSB500	4.00	25
3/4"	SSB750 ¹	5.10	25

¹ 3/4" buckle may be used with 5/8" band

Stainless Steel Banding

Features:

- resistant to moisture
- built-in handle
- full view of available band
- easy to dispense and recoil



Band Width	Band Thickness	Length	Package Type	201 Stainless Steel	
				Part #	Price/E
1/2"	.030	100'	plastic blue tote	ST204B	\$266.90
5/8"	.030	100'	plastic green tote	ST205G	317.45
3/4"	.030	100'	plastic red tote	ST206R	371.15

Band Clamp Tools



Description	Part #	Price/E
Clamping tool for band and buckles	C2	\$460.00



Description	Part #	Price/E
Clamping tool for band and buckles	51960	\$155.90

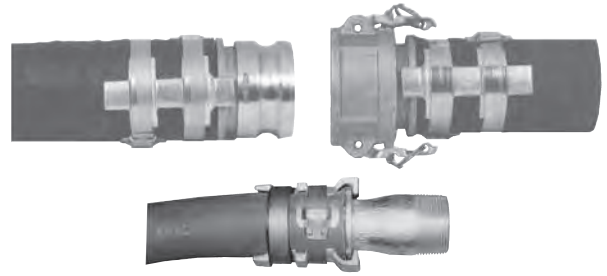


Description	Part #	Price/E
adapter for 51960 tool to install preformed clamps	51970	\$139.00

Strap-Grip Saddles and Male Stems

Applications:

Strap-Grip saddles are designed to provide greater resistance to end pull than conventional band clamps alone. The male fittings shown below are designed for use with Strap-Grip saddles. Cam and Groove fittings are available on page 58. Saddles are designed for use with 3/4" or 5/8" wide bands. A band clamp should first be applied to OD to seal the hose in sizes 3" and over. Then Strap-Grip saddles should be banded on top of initial clamps to anchor the fitting in the hose.



Size	Hose OD		Plated Iron	
	from	to	Part #	Price/pair ¹
1½"	1-13/16"	2-1/8"	SGS150	\$14.00
2"	2-5/8"	3"	SGS200	16.50
3"	3-1/2"	3-7/8"	SGS300	21.00
4"	4-9/16"	5-1/8"	SGS400	23.70
6"	6-1/2"	7-1/16"	SGS600	42.00

¹ prices are for two saddles



saddles

schedule 40

Size	Plated Carbon Steel		Stainless Steel	
	Part #	Price/pair	Part #	Price/E
1½"	LP21	\$60.00	---	---
2"	LP26	53.20	---	---
3"	LP36	125.00	RLP36 ¹	\$221.40
4"	LP46	164.00	RLP46 ¹	375.00
6"	LP66	340.00	---	---

schedule 80²

Size	Plated Carbon Steel	
	Part #	Price/E
1½"	LP21-80	\$69.00
2"	LP26-80	71.85

¹ made from tubular steel

² schedule 80 stems meet NFPA 58



male NPT x hose shank

J

Double Bolt Clamps

Features:

- inner surface has dual gripping ridges
 - bolt lugs are reinforced to prevent bending out of alignment
 - measure hose OD accurately before ordering clamps
 - Torque values for clamps are based on dry bolts.
- The use of lubricant on bolts will adversely effect clamp performance.



without saddles

Hose OD		Plated Iron		Opt Qty	Torque in ft. lbs.
from	to	Part #	Price/E		
1-8/64"	1-12/64"	J48	\$7.10	100	15
1-12/64"	1-24/64"	J49	8.95	50	21
1-28/64"	1-34/64"	JX49	11.80	25	21
1-40/64"	1-52/64"	DL14	13.20	25	40
1-48/64"	2-3/64"	DL20	13.05	25	27
2-7/64"	2-19/64"	DL24¹	12.70	25	27
2-20/64"	2-40/64"	DL32¹	13.70	25	40
2-32/64"	2-48/64"	DL275	17.40	25	40
2-48/64"	3-4/64"	DL306	19.75	20	60
3-4/64"	3-24/64"	DL328	20.90	20	60
3-16/64"	3-32/64"	DL350	20.00	20	60

¹ investment cast carbon steel

- Consult Dixon when using double bolt clamps on helical wire hose.



with saddles

Hose OD		Plated Iron		Opt Qty	Torque in ft. lbs.
from	to	Part #	Price/E		
3-32/64"	3-52/64"	400	\$20.60	25	40
3-50/64"	4-4/64"	431	24.50	20	40
4-2/64"	4-18/64"	463	22.60	20	40
4-16/64"	4-60/64"	525	26.05	10	60
4-32/64"	5-16/64"	550	28.50	10	60
5-8/64"	5-44/64"	600	30.80	10	60
5-44/64"	5-60/64"	639	34.30	10	60
5-60/64"	6-32/64"	675	33.65	10	60
6-32/64"	7-36/64"	769	37.00	10	60
7-44/64"	8-12/64"	818	52.80	5	125
8-16/64"	8-56/64"	875	52.50	5	125
8-60/64"	9-56/64"	988	64.30	5	125
9-60/64"	11-24/64"	1125	97.00	5	125
11-12/64"	13"	1275	107.55	3	125
12-12/64"	14"	1360	174.20	2	200
13-12/64"	15"	1450	169.30	2	200
15-4/64"	17-32/64"	1700	204.00	2	260

Single Bolt Clamps



Features:

- measure hose OD accurately before ordering clamps
- Torque values for clamps are based on dry bolts.



The use of lubricant on bolts will adversely effect clamp performance.

Hose OD		Plated Iron		Torque in ft. lbs.
from	to	Part #	Price/E	
56/64"	1"	2	\$18.70	6
62/64"	1-8/64"	3	19.90	6
1-4/64"	1-12/64"	4	19.80	6
1-10/64"	1-16/64"	5	19.40	6
1-16/64"	1-24/64"	6	19.80	6
1-22/64"	1-28/64"	7	21.00	6
1-28/64"	1-36/64"	8	24.30	6
1-34/64"	1-44/64"	9	21.50	6
1-42/64"	1-48/64"	10	21.00	6
1-48/64"	1-56/64"	11	23.50	6
1-56/64"	2-2/64"	12	22.15	6
2"	2-8/64"	13	24.10	12
2-8/64"	2-18/64"	14	25.65	12
2-16/64"	2-26/64"	15	29.00	12

Hose OD		Plated Iron		Torque in ft. lbs.
from	to	Part #	Price/E	
2-24/64"	2-32/64"	16	\$23.60	12
2-32/64"	2-40/64"	17	23.60	12
2-40/64"	2-56/64"	18	28.05	12
2-56/64"	3-4/64"	19	27.00	12
3-4/64"	3-16/64"	20	26.65	12
3-16/64"	3-28/64"	21	30.10	12
3-28/64"	3-40/64"	22	29.50	21
3-40/64"	3-52/64"	23	39.00	21
3-52/64"	4-8/64"	24	35.75	21
4-8/64"	4-20/64"	25	37.70	21
4-16/64"	4-32/64"	26	38.70	21
4-28/64"	4-40/64"	27	44.70	21
4-40/64"	4-56/64"	X27	40.00	21
4-56/64"	5-16/64"	28	43.90	21

Note: Single bolt clamps will no longer be available once stock is depleted. ALL items will be discontinued year ending 2013.

Spring Hose Clamps

Features:

- Single wire clamps have the most effective holding force and clamping strength. The single wire concentrates the clamping force in one specific area around the hose.
- *Safety glasses should be worn when installing parts.*
- sold in box quantity only



Size	Hose OD		Carbon Steel		Pkg Qty
	from	to	Part #	Price/E	
5/16"	.309"	.315"	SHC0312	\$0.20	100
3/8"	.370"	.380"	SHC0375	0.22	100
1/2"	.490"	.510"	SHC0500	0.26	100
9/16"	.551"	.573"	SHC0562	0.32	100
5/8"	.610"	.640"	SHC0625	0.32	100
3/4"	.730"	.770"	SHC0750	0.35	100
13/16"	.792"	.832"	SHC0812	0.36	100
1"	.969"	1.031"	SHC1000	0.45	100
1-1/8"	1.100"	1.150"	SHC1125	0.59	50
1-1/4"	1.219"	1.280"	SHC1250	0.67	50
1-1/2"	1.469"	1.531"	SHC1500	1.25	50
1-5/8"	1.578"	1.672"	SHC1625	1.54	50



Spring Hose Clamp Pliers

Features:

Install single wire spring hose clamps quickly and easily using this simple hand tool.

- rugged construction
- easy to use, designed for efficiency

Part #	Price/E
SHCP	\$138.30


J

Spiral Clamps

Applications:

For use on convoluted cover hose. To determine which style clamp is needed for your hose look at the end of the hose; if the helix spirals in a clockwise direction away from you (along the hose), a clockwise clamp is needed. If the helix spirals in a counterclockwise direction away from you, a counterclockwise clamp is needed. Examples include, but are not limited to: Kuriyama convoluted hose uses counter clockwise clamps; Pacific Echo and Kana Flex use clockwise clamps; Goodyear uses both counter clockwise and clockwise. More than one clamp may be needed per size, contact the hose manufacturer for more information.



- due to fluctuations in the OD of hose each individual installation should be checked

Size	Hose OD		Plated Steel, Right Hand		Plated Steel, Left Hand	
	from	to	Part #	Price/E	Part #	Price/E
1½"	1-34/64"	1-52/64"	SC150	\$12.50	SCCW150	\$12.50
2"	2-18/64"	2-32/64"	SC200	15.65	SCCW200	15.65
2½"	2-46/64"	3-8/64"	SC250	17.90	SCCW250	17.90
3"	3"	3-32/64"	SC300	19.40	SCCW300	19.40
4"	4"	4-32/64"	SC400	22.70	SCCW400	22.70
5"	5-6/64"	5-32/64"	SC500	29.35	SCCW500	29.35
6"	6-16/64"	7"	SC600	31.20	SCCW600	31.20
8"	8-32/64"	9-16/64"	SC800	37.60	SCCW800	37.60
10"	10-40/64"	11-16/64"	SC1000	46.65	SCCW1000	46.65
12"	11-52/64"	12-61/64"	SC1200 NEW	56.00	SCCW1200 NEW	56.00



clockwise wound
right hand spiral



counter clockwise wound
left hand spiral

T-Bolt Clamps



Features:

- T-bolts can be applied with a standard 7/16" socket wrench
- 3/4" wide 300 series stainless steel band, .025" thick
- alloy steel bolt, torque rating 70 in/lbs

style TBC

Hose OD		Part #	Price/E	Opt Qty
from	to			
1.250"	1.406"	TBC131	\$9.60	25
1.344"	1.562"	TBC150	7.10	25
1.594"	1.812"	TBC175	7.10	25
1.724"	1.942"	TBC188	7.10	25
1.844"	2.062"	TBC200	7.10	25
2.094"	2.312"	TBC225	7.10	25
2.224"	2.442"	TBC238	7.10	25
2.344"	2.562"	TBC250	7.25	25
2.326"	2.622"	TBC256	6.95	25
2.396"	2.692"	TBC263	6.95	25
2.516"	2.812"	TBC275	6.95	25
2.646"	2.942"	TBC288	7.00	25
2.766"	3.062"	TBC300	7.00	25
2.886"	3.182"	TBC312	7.10	25
3.016"	3.312"	TBC325	7.10	25
3.266"	3.562"	TBC350	7.40	25
3.516"	3.812"	TBC375	7.40	25
3.586"	3.882"	TBC382	7.50	25
3.766"	4.062"	TBC400	7.50	25
4.016"	4.312"	TBC425	7.50	25
4.266"	4.562"	TBC450	7.50	25
4.516"	4.812"	TBC475	7.50	25
4.766"	5.062"	TBC500	7.55	25
5.016"	5.312"	TBC525	7.55	25
5.266"	5.562"	TBC550	8.05	25
5.516"	5.812"	TBC575	8.05	25
5.766"	6.062"	TBC600	8.10	25
6.016"	6.312"	TBC625	8.10	25
6.266"	6.562"	TBC650	8.15	25
6.516"	6.812"	TBC675	8.15	25
6.766"	7.062"	TBC700	8.30	25
7.266"	7.562"	TBC750	8.35	25

Features:

- T-bolts can be applied with a standard 7/16" socket wrench
- 3/4" wide 300 series stainless steel band, .025" thick
- 300 series stainless steel bolt, torque rating 50 in/lbs

style STBC

Hose OD		Part #	Price/E	Opt Qty
from	to			
1.250"	1.4063"	STBC131	\$12.88	25
1.344"	1.562"	STBC150	8.15	25
1.474"	1.692"	STBC163	8.15	25
1.594"	1.812"	STBC175	8.15	25
1.724"	1.942"	STBC188	8.15	25
1.844"	2.062"	STBC200	8.15	25
1.964"	2.182"	STBC212	8.25	25
2.094"	2.312"	STBC225	8.25	25
2.224"	2.442"	STBC238	8.25	25
2.344"	2.562"	STBC250	8.30	25
2.326"	2.622"	STBC256	7.95	25
2.396"	2.692"	STBC263	7.95	25
2.516"	2.812"	STBC275	7.95	25
2.646"	2.942"	STBC288	8.00	25
2.766"	3.062"	STBC300	8.05	25
2.886"	3.182"	STBC312	8.05	25
3.016"	3.312"	STBC325	8.05	25
3.266"	3.562"	STBC350	8.30	25
3.386"	3.682"	STBC362	8.35	25
3.516"	3.812"	STBC375	8.35	25
3.586"	3.882"	STBC382	8.35	25
3.766"	4.062"	STBC400	8.35	25
4.016"	4.312"	STBC425	8.40	25
4.266"	4.562"	STBC450	8.40	25
4.516"	4.812"	STBC475	9.00	25
4.766"	5.062"	STBC500	9.20	25
5.016"	5.312"	STBC525	9.20	25
5.266"	5.562"	STBC550	9.65	25
5.516"	5.812"	STBC575	9.65	25
5.766"	6.062"	STBC600	9.65	25
6.016"	6.312"	STBC625	9.65	25
6.266"	6.562"	STBC650	9.65	25
6.516"	6.812"	STBC675	9.65	25
6.766"	7.062"	STBC700	10.05	25
7.016"	7.312"	STBC725	10.15	25
7.266"	7.562"	STBC750	10.15	25
7.766"	8.062"	STBC800	10.40	25
8.016"	8.312"	STBC825	10.40	25
8.266"	8.562"	STBC850	10.40	25
8.646"	8.942"	STBC888	11.10	25
8.766"	9.062"	STBC900	11.10	25
9.266"	9.562"	STBC950	11.10	25
9.766"	10.062"	STBC1000	11.05	10
10.646"	10.942"	STBC1088	11.95	10
11.766"	12.062"	STBC1200	11.95	10
12.646"	12.942"	STBC1288	11.95	10

Heavy Duty T-Bolt Clamps

Features:

- T-bolts can be applied with a standard 1/2" socket wrench.
- 7/8" wide 300 series stainless steel band, .040" thick
- 300 series stainless steel bolt, torque rating is 180 in/lbs

style HSTBC

Hose OD		Part #	Price/E
from	to		
2.125"	2.4375"	HSTBC238	\$15.05
2.250"	2.5625"	HSTBC250	15.15
2.750"	3.0625"	HSTBC300	15.35
3.250"	3.5625"	HSTBC350	15.70
3.750"	4.0625"	HSTBC400	15.90
4.250"	4.5625"	HSTBC450	16.10
4.750"	5.0625"	HSTBC500	16.40
5.250"	5.5625"	HSTBC550	16.60
5.750"	6.0625"	HSTBC600	16.80
6.250"	6.5625"	HSTBC650	17.10
6.750"	7.0625"	HSTBC700	17.35
7.250"	7.5625"	HSTBC750	17.65
7.750"	8.0625"	HSTBC800	17.85
8.266"	8.562"	HSTBC850	25.00
8.646"	8.942"	HSTBC888	25.50
8.766"	9.062"	HSTBC900	25.75
9.266"	9.562"	HSTBC950	26.30
9.766"	10.062"	HSTBC1000	27.25
10.646"	10.942"	HSTBC1088	28.35
11.766"	12.062"	HSTBC1200	29.90
12.646"	12.942"	HSTBC1288	31.45



Features:

- T-bolts can be applied with a standard 1/2" socket wrench.
- 7/8" wide 300 series stainless steel band, .040" thick
- carbon steel bolt, torque rating is 240 in/lbs

style HTBC

Hose OD		Part #	Price/E
from	to		
2.125"	2.4375"	HTBC238	\$13.30
2.250"	2.5625"	HTBC250	13.40
2.750"	3.0625"	HTBC300	13.60
3.250"	3.5625"	HTBC350	13.85
3.750"	4.0625"	HTBC400	14.05
4.250"	4.5625"	HTBC450	14.35
4.750"	5.0625"	HTBC500	14.55
5.250"	5.5625"	HTBC550	14.75
5.750"	6.0625"	HTBC600	14.95
6.250"	6.5625"	HTBC650	15.20
6.750"	7.0625"	HTBC700	15.45
7.250"	7.5625"	HTBC750	15.65
7.750"	8.0625"	HTBC800	15.90

Long Bolt T-Bolt Clamps

Features:

- T-bolts can be applied with a standard 7/16" socket wrench.
- 3/4" wide 300 series stainless steel band, .025" thick
- 300 series stainless steel bolt, torque rating is 50 in/lbs

style STBCL

Hose OD		Part #	Price/E	Opt Qty
from	to			
2.80"	3.37"	STBC325L	\$11.25	25
3.05"	3.62"	STBC350L	11.25	25
3.37"	3.94"	STBC382L	11.25	25
3.55"	4.12"	STBC400L	11.35	25
3.75"	4.32"	STBC420L	11.35	25
3.87"	4.44"	STBC432L	11.35	25
4.05"	4.62"	STBC450L	11.35	25
4.37"	4.94"	STBC482L	11.60	25
4.55"	5.12"	STBC500L	11.60	25
4.87"	5.44"	STBC532L	11.60	25
5.05"	5.62"	STBC550L	11.60	25
5.37"	5.94"	STBC582L	11.65	25
5.55"	6.12"	STBC600L	11.75	25
5.87"	6.44"	STBC632L	11.75	25
6.05"	6.62"	STBC650L	11.85	25
6.30"	6.87"	STBC675L	11.85	25
6.53"	7.10"	STBC698L	11.95	25
6.55"	7.12"	STBC700L	11.95	25



style STBCL

Hose OD		Part #	Price/E	Opt Qty
from	to			
6.62"	7.19"	STBC707L	\$11.95	25
8.05"	8.62"	STBC850L	12.75	25
8.30"	8.87"	STBC875L	12.90	25
8.43"	9.00"	STBC888L	13.30	25
8.62"	9.19"	STBC907L	13.40	25
10.25"	10.82"	STBC1070L	13.40	25
10.43"	11.00"	STBC1088L	13.40	25
10.62"	11.19"	STBC1107L	13.40	25
10.72"	11.29"	STBC1117L	15.90	25
12.20"	12.77"	STBC1265L	13.90	25
12.43"	13.00"	STBC1288L	13.90	25
12.75"	13.32"	STBC1320L	13.90	25
14.20"	14.77"	STBC1465L	14.00	25
14.43"	15.00"	STBC1488L	14.00	25
14.75"	15.32"	STBC1520L	14.25	25
16.20"	16.77"	STBC1665L	14.75	25
16.43"	17.00"	STBC1688L	14.75	25

Industrial Hydraulic Quick-Connect Fittings

Features:

- The Industrial Quick Connect series features poppet style shut-off valves in both the coupler and the plug.
- designed to prevent fluid loss when the coupler is disconnected
- meets dimensional requirements of **Series B in ISO 7241-1**
- Interchangeable with Parker-Hannifin 60 series. See Hydraulic Profile Chart on page 724
- seal material is Buna-N
- Contact the factory if you intend to use the fittings on a compressed air system.



Poppet Valve Couplers

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	5000	steel	16-263	\$29.00	5
3/8"	3/8" - 18	4000	steel	16-363	36.00	5
1/2"	1/2" - 14	4000	steel	16-463	52.00	5
3/4"	3/4" - 14	2500	steel	16-663	79.00	5
1"	1" - 11½	2000	steel	16-863	105.00	5
1/4"	1/4" - 18	1000	brass	B16-263	31.50	5
3/8"	3/8" - 18	1000	brass	B16-363	42.00	5
1/2"	1/2" - 14	1000	brass	B16-463	62.00	5
3/4"	3/4" - 14	1000	brass	B16-663	93.50	5
1"	1" - 11½	1000	brass	B16-863	129.00	5
1/4"	1/4" - 18	2000	303 stainless	SS16-263	71.00	5
3/8"	3/8" - 18	1500	303 stainless	SS16-363	112.25	5
1/2"	1/2" - 14	1500	303 stainless	SS16-463	178.25	5
3/4"	3/4" - 14	1500	303 stainless	SS16-663	228.95	5
1"	1" - 11½	1000	303 stainless	SS16-863	367.00	5

Poppet Valve Plugs

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	5000	steel	17-263	\$12.20	5
3/8"	3/8" - 18	4000	steel	17-363	16.50	5
1/2"	1/2" - 14	4000	steel	17-463	21.50	5
3/4"	3/4" - 14	2500	steel	17-663	32.00	5
1"	1" - 11½	2000	steel	17-863	44.00	5
1/4"	1/4" - 18	1000	brass	B17-263	13.60	5
3/8"	3/8" - 18	1000	brass	B17-363	18.75	5
1/2"	1/2" - 14	1000	brass	B17-463	22.35	5
3/4"	3/4" - 14	1000	brass	B17-663	34.50	5
1"	1" - 11½	1000	brass	B17-863	45.80	5
1/4"	1/4" - 18	2000	303 stainless	SS17-263	29.75	5
3/8"	3/8" - 18	1500	303 stainless	SS17-363	44.00	5
1/2"	1/2" - 14	1500	303 stainless	SS17-463	57.70	5
3/4"	3/4" - 14	1500	303 stainless	SS17-663	105.75	5
1"	1" - 11½	1000	303 stainless	SS17-863	183.00	5

Dust Plugs



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	16-002	\$3.65	5
3/8"	rubber	16-003	4.30	5
1/2"	rubber	16-004	4.75	5
3/4"	rubber	16-006	8.45	5
1"	rubber	16-008	10.25	5
1/4"	aluminum	16-002A	13.40	5
3/8"	aluminum	16-003A	14.95	5
1/2"	aluminum	16-004A	17.50	5
3/4"	aluminum	16-006A	25.00	5
1"	aluminum	16-008A	68.00	5

Dust Caps



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	17-002	\$3.65	5
3/8"	rubber	17-003	4.15	5
1/2"	rubber	17-004	4.50	5
3/4"	rubber	17-006	9.45	5
1"	rubber	17-008	9.55	5
1/4"	aluminum	17-002A	14.10	5
3/8"	aluminum	17-003A	15.60	5
1/2"	aluminum	17-004A	20.75	5
3/4"	aluminum	17-006A	27.75	5
1"	aluminum	17-008A	75.00	5

3000 Series Hydraulic Thread-to-Connect Fittings

Applications:

- Threaded union locking system and precision ball-type check valves are designed for extreme high pressure applications such as hydraulic rams and pumps where low flow and pressures up to 10,000 PSI are encountered.

Features:

- Interchanges with Parker 3000, Bruning IP 370 and Enerpac C 604. See Hydraulic Profile Chart on page 723.
- Seals are polyurethane.

Male Couplers

Size	Male NPT Thread	PSI at 70°F	Material	Part #	Price/E	Pkg Qty
1/4"	1/4" - 18	10,000	steel	30-200	\$42.00	5
3/8"	3/8" - 18	10,000	steel	30-300	44.00	5



Female Couplers

Size	Female NPT Thread	PSI at 70°F	Material	Part #	Price/E	Pkg Qty
3/8"	3/8" - 18	10,000	steel	30-300F	\$49.00	5



Plugs

Size	Female NPT Thread	PSI at 70°F	Material	Part #	Price/E	Pkg Qty
1/4"	1/4" - 18	10,000	steel	31-200	\$24.75	5
3/8"	3/8" - 18	10,000	steel	31-300	25.00	5



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Screw Type Dust Plugs

Size	Material	Part #	Price/E	Opt Qty
1/4"	steel	30-200DP	\$10.90	5
3/8"	steel	30-300DP	10.40	5



Screw Type Dust Caps

Size	Material	Part #	Price/E	Pkg Qty
1/4"	steel	31-200DC	\$11.50	5
3/8"	steel	31-300DC	13.20	5



5600 Series Hydraulic Quick-Connect Fittings

Features:

- The two-way check valves in the plug and socket automatically balance in flow position and provide instant shut off when disconnected.
- To connect, simply retract sleeve, insert plug, and release sleeve.
- Permits fast connection and disconnection of gas or fluid lines with minimal loss of media from either end.
- Interchangeable with the Aeroquip 5600, Parker 6600, and **ISO A interchange**. See Hydraulic Profile Chart on page 724.
- Non-valved, slotted valve and straight through units available on request.

Couplers



Size	NPT Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/8" - 27	5000	steel	56-100	\$44.20	5
1/4"	1/4" - 18	5000	steel	56-200	36.60	5
3/8"	3/8" - 18	4000	steel	56-300	44.20	5
1/2"	1/2" - 14	4000	steel	56-400	46.15	5
1/2"	3/4" - 14	4000	steel	56-600	62.95	5
3/4"	3/4" - 14	4000	steel	56-660	69.25	5
1"	1" - 11½	4000	steel	56-800	88.25	5

Plugs



Size	NPT Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/8" - 27	5000	steel	57-100	\$17.85	5
1/4"	1/4" - 18	5000	steel	57-200	15.75	5
3/8"	3/8" - 18	4000	steel	57-300	21.50	5
1/2"	1/2" - 14	4000	steel	57-400	19.55	5
1/2"	3/4" - 14	4000	steel	57-600	35.45	5
3/4"	3/4" - 14	4000	steel	57-660	36.95	5
1"	1" - 11½	4000	steel	57-800	48.30	5

Dust Plugs



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	56-002	\$5.20	5
3/8"	rubber	56-003	5.85	5
1/2"	rubber	56-004	5.20	5
3/4"	rubber	56-006	12.25	5
1"	rubber	56-008	15.25	5

Dust Caps



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	57-002	\$5.15	5
3/8"	rubber	57-003	5.85	5
1/2"	rubber	57-004	5.25	5
3/4"	rubber	57-006	12.00	5
1"	rubber	57-008	14.95	5

Agricultural Hydraulic Quick-Connect Fittings

Application:

- Agricultural series couplers are used on construction equipment, farm implements and most other mobile equipment.

Features:

- features ball style shut-off valves in both the coupler and the plug
- Interchangeable with Pioneer 4000 series, Safeway Agricultural series and ISO5675. See Hydraulic Profile Chart on page 724.
- The International Standard Organization (ISO) has adopted specifications regarding dimensions and interchangeability.

FTP Fittings

Couplers

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	2500	steel	18-200 ¹	\$29.85	5
3/8"	3/8" - 18	2500	steel	18-300 ¹	39.45	5
1/2"	1/2" - 14	2500	steel	18-400	29.75	5
1/2"	3/4" - 14	2500	steel	18-600	41.90	5
3/4"	3/4" - 14	2500	steel	18-660	74.85	5
1"	1" - 11½	2500	steel	18-800 ¹	93.00	5



Plugs

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	2500	steel	19-200 ¹	\$14.55	10
3/8"	3/8" - 18	2500	steel	19-300 ¹	19.55	10
1/2"	1/2" - 14	2500	steel	19-400	13.65	10
1/2"	3/4" - 14	2500	steel	19-600	21.95	10
3/4"	3/4" - 14	2500	steel	19-660	24.50	10
1"	1" - 11½	2500	steel	19-800 ¹	52.10	10



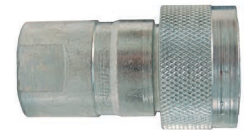
¹ have a poppet valve with soft seat design

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ORB Fittings

Coupler

Size	ORB Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/2"	3/4" - 16	2500	steel	18-415	\$31.50	5



Plug

Size	ORB Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/2"	3/4" - 16	2500	steel	19-415	\$13.55	5



Dust Plugs

Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	18-002	\$4.70	10
3/8"	rubber	18-003	9.20	10
1/2"	rubber	18-004 ²	9.35	10
3/4"	rubber	18-006	9.95	10
1"	rubber	18-008	11.50	10



² has chain design

Dust Caps

Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	19-002	\$4.80	10
3/8"	rubber	19-003	5.55	10
1/2"	rubber	57-004	5.25	10
3/4"	rubber	19-006	13.80	10
1"	rubber	19-008	15.85	10



7800 Series Hydraulic Thread-to-Connect Fittings

Applications:

- Designed for applications requiring a coupling that can be connected under pressure with minimum spillage and air inclusion. Widely used on dump trailer wet-line hydraulic systems and oil field equipment. Not recommended for continuous hydraulic impulse applications.

Features:

- Interchanges with Aeroquip 5100 series, Parker 6100 series and Snap-Tite 78 series. See Hydraulic Profile Chart on page 723.



Couplers

Size	NPT Thread	PSI at 70°F	Material		Part #	Price/E	Opt Qty
			Body	Nut			
3/4"	3/4" - 14	3000	brass	iron	78-600	\$79.57	5
1"	1" - 11½	3000	brass	iron	78-800	97.60	5
1-1/4"	1-1/4" - 11½	2750	brass	iron	78-1000	178.23	5
1-1/2"	1-1/2" - 11½	2500	brass	iron	78-1200	212.18	1



Plugs

Size	NPT Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
3/4"	3/4" - 14	3000	brass	79-600	\$56.23	5
1"	1" - 11½	3000	brass	79-800	60.47	5
1-1/4"	1-1/4" - 11½	2750	brass	79-1000	125.19	5
1-1/2"	1-1/2" - 11½	2500	brass	79-1200	212.18	1

Flanges



Size	Material	Part #	Price/E	Opt Qty
3/4"	steel	77-600	\$4.77	2
1"	steel	77-800	6.37	2
1-1/4"	steel	77-1000	8.49	2
1-1/2"	steel	77-1200	10.61	2

Screw Type Dust Plugs



Size	Material	Part #	Price/E	Opt Qty
3/4"	steel	78-006	\$18.23	1
1"	steel	78-008	20.09	1
1-1/4"	steel	78-010	28.84	1
1-1/2"	steel	78-012	51.50	1

Screw Type Dust Caps



Size	Material	Part #	Price/E	Opt Qty
3/4"	steel	79-006	\$16.07	1
1"	steel	79-008	17.51	1
1-1/4"	steel	79-010	27.19	1
1-1/2"	steel	79-012	47.38	1

K

WS Series Fittings

Application:

- Extensively used in oil field and off shore oil rig applications.

Feature:

- The WS series interchanges with Snap-Tite 75 series.

High Pressure Couplers

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
3/4"	3/4" - 14	5,000	steel	6WSF6	\$158.85	5
1"	1" - 11½	5,000	steel	8WSF8	238.28	5
1-1/4"	1-1/4" - 11½	5,000	steel	10WSF10	402.97	1
1-1/2"	1-1/2" - 11½	5,000	steel	12WSF12	595.69	1
2"	2" - 11½	5,000	steel	16WSF16	852.65	1



Plugs

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
3/4"	3/4" - 14	5,000	steel	WS6F6	\$146.00	5
1"	1" - 11½	5,000	steel	WS8F8	175.20	5
1-1/4"	1-1/4" - 11½	5,000	steel	WS10F10	321.21	1
1-1/2"	1-1/2" - 11½	5,000	steel	WS12F12	502.25	1
2"	2" - 11½	5,000	steel	WS16F16	817.61	1



Blowout Prevention Safety

Applications:

- Designed for hazardous area service where couplings are required to operate under fire conditions in an emergency.

Features:

- fire tested and Lloyd's certified to 700°C (1300°F) in accordance with API 16D (Certificate #NAO 0601041/1)
- Sleeve is cast using a unique process that provides better surface finishes, tighter tolerance control, and excellent repeatability.
- Blowout Prevention Couplings are individually marked with the BOP series designation.

K

Couplers

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
3/4"	3/4" - 14	5,000	steel	6WSF6-BOP	\$233.60	5
1"	1" - 11½	5,000	steel	8WSF8-BOP	327.05	5
1-1/4"	1-1/4" - 11½	5,000	steel	10WSF10-BOP	525.61	1
1-1/2"	1-1/2" - 11½	5,000	steel	12WSF12-BOP	747.53	1
2"	2" - 11½	5,000	steel	16WSF16-BOP	1051.22	1



Plugs

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
3/4"	3/4" - 14	5,000	steel	WS6F6-BOP	\$181.04	5
1"	1" - 11½	5,000	steel	WS8F8-BOP	192.72	5
1-1/4"	1-1/4" - 11½	5,000	steel	WS10F10-BOP	385.45	1
1-1/2"	1-1/2" - 11½	5,000	steel	WS12F12-BOP	584.01	1
2"	2" - 11½	5,000	steel	WS16F16-BOP	981.14	1



Dust Plugs

Size	Material	Part #	Price/E	Opt Qty
3/4"	aluminum	6WSDP-A	\$40.17	25
1"	aluminum	8WSDP-A	51.50	10
1-1/4"	aluminum	10WSDP-A	72.10	10
1-1/2"	aluminum	12WSDP-A	77.25	5
2"	aluminum	16WSDP-A	128.75	5



Dust Caps

Size	Material	Part #	Price/E	Opt Qty
3/4"	aluminum	WS6DC-A	\$40.17	25
1"	aluminum	WS8DC-A	51.50	10
1-1/4"	aluminum	WS10DC-A	72.10	10
1-1/2"	aluminum	WS12DC-A	77.25	5
2"	aluminum	WS16DC-A	128.75	5



Flush Face Hydraulic Quick-Connect Fittings

Features:

- Flush face valve design minimizes fluid loss resulting in a cleaner, safer work environment.
- Automatic, push-to-connect couplings provide high flow with low pressure drop assuring maximum hydraulic tool performance.
- To reduce the possibility of accidental disconnect, a sleeve

lock safety feature requires turning the collar to unlock the coupling.

- Conforms to ISO16028 interchange standard. Interchanges with Aeroquip FD89, Parker FEM, Snap-tite 74, Faster 2FFN/2FFI and Holmbury Series A. See Hydraulic Profile Chart on page 723.

NPTF Fittings Couplers



Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	4575	steel	2HTF2	\$71.97	5
3/8"	3/8" - 18	4375	steel	3HTF3	74.22	5
3/8"	1/2" - 14	4375	steel	3HTF4	74.22	5
1/2"	1/2" - 14	4250	steel	4HTF4	89.96	5
1/2"	3/4" - 14	4250	steel	4HTF6	95.59	5
5/8"	3/4" - 14	3650	steel	5HTF6	129.32	5
3/4"	3/4" - 14	3650	steel	6HTF6	202.42	5
1"	1" - 11½	3650	steel	8HTF8	281.14	5

Plugs



Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	4575	steel	HT2F2	\$29.24	5
3/8"	3/8" - 18	4375	steel	HT3F3	31.49	5
3/8"	1/2" - 14	4375	steel	HT3F4	31.49	5
1/2"	1/2" - 14	4250	steel	HT4F4	50.60	5
1/2"	3/4" - 14	4250	steel	HT4F6	56.23	5
5/8"	3/4" - 14	3650	steel	HT5F6	71.97	5
3/4"	3/4" - 14	3650	steel	HT6F6	92.21	5
1"	1" - 11½	3650	steel	HT8F8	174.31	5

SAE/ORB Fittings

Couplers



Size	ORB Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/2"	7/8" - 14	4250	steel	4HTOF5	\$95.59	5
1/2"	1-1/16" - 12	4250	steel	4HTOF6	95.59	5

Plugs



Size	ORB Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/2"	7/8" - 14	4250	steel	HT4OF5	\$56.23	5
1/2"	1-1/16" - 12	4250	steel	HT4OF6	56.23	--

Dust Plugs



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	2HTDP	\$7.93	10
3/8"	rubber	3HTDP	8.33	10
1/2"	rubber	4HTDP	11.03	10
5/8"	rubber	5HTDP	12.98	10
3/4"	rubber	6HTDP	13.95	10
1"	rubber	8HTDP	16.01	10

Dust Caps



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	HT2DC	\$7.93	10
3/8"	rubber	HT3DC	\$8.33	10
1/2"	rubber	HT4DC	11.03	10
5/8"	rubber	HT5DC	12.98	10
3/4"	rubber	HT6DC	13.95	10
1"	rubber	HT8DC	16.01	10

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VEP Series Fittings



Features:

- No-spill, flush face valve minimizes air inclusion during connection and spillage during disconnection.
- Thread-to-connect design and dual valve system in the plug allow for connecting under pressure.
- Threaded design eliminates premature wear or brinelling commonly found with locking ball designs when subjected to high impulse pressures.
- Trivalent Chrome plating provides superior corrosion resistance.
- Interchangeable with Parker FET, Stucchi VEP, DNP FSI, Holmbury HFT.

NPTF Fittings

Couplers

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	6000	steel	2VEPF2	\$108.77	20
3/8"	3/8" - 18	5500	steel	3VEPF3	121.80	20
3/8"	1/2" - 14	5500	steel	3VEPF4	124.53	20
1/2"	1/2" - 14	5500	steel	4VEPF4	158.55	15
1/2"	3/4" - 14	5500	steel	4VEPF6	162.65	15
3/4"	3/4" - 14	5500	steel	6VEPF6	206.17	1
1"	1" - 11-1/2	5500	steel	8VEPF8	261.27	1
1-1/4"	1-1/4" - 11-1/2	5000	steel	10VEPF10	302.10	1
1-1/2"	1-1/2" - 11-1/2	4500	steel	12VEPF12	825.16	1
2"	2" - 11-1/2	4000	steel	16VEPF16	2490.60	1



Plugs

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	6000	steel	VEP2F2	\$102.09	20
3/8"	3/8" - 18	5500	steel	VEP3F3	138.15	20
3/8"	1/2" - 14	5500	steel	VEP3F4	140.86	20
1/2"	1/2" - 14	5500	steel	VEP4F4	158.55	10
1/2"	3/4" - 14	5500	steel	VEP4F6	162.65	10
3/4"	3/4" - 14	5500	steel	VEP6F6	185.76	1
1"	1" - 11-1/2	5500	steel	VEP8F8	214.34	1
1-1/4"	1-1/4" - 11-1/2	5000	steel	VEP10F10	302.10	1
1-1/2"	1-1/2" - 11-1/2	4500	steel	VEP12F12	788.71	1
2"	2" - 11-1/2	4000	steel	VEP16F16	1852.00	1



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Dust Plugs

Size	Material	Part #	Price/E	Opt Qty
1/4"	aluminum	2VEPDP-A	\$27.01	50
3/8"	aluminum	3VEPDP-A	31.03	50
1/2"	aluminum	4VEPDP-A	48.55	25
3/4"	aluminum	6VEPDP-A	51.29	25
1"	aluminum	8VEPDP-A	52.62	10
1-1/4"	aluminum	10VEPDP-A	53.98	10
1-1/2"	aluminum	12VEPDP-A	134.90	5
2"	aluminum	16VEPDP-A	197.61	1



Dust Caps

Size	Material	Part #	Price/E	Opt Qty
1/4"	aluminum	VEP2DC-A	\$28.34	50
3/8"	aluminum	VEP3DC-A	36.42	50
1/2"	aluminum	VEP4DC-A	51.29	25
3/4"	aluminum	VEP6DC-A	53.98	25
1"	aluminum	VEP8DC-A	59.36	10
1-1/4"	aluminum	VEP10DC-A	56.66	10
1-1/2"	aluminum	VEP12DC-A	172.68	5
2"	aluminum	VEP16DC-A	262.71	1



VH Series Hydraulic Quick-Connect Fittings

Features:

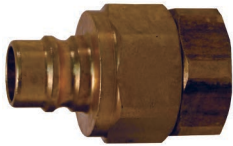
- General purpose hydraulic quick-connect provides superior flow characteristics with built-in reliability.
- VH Series interchanges with Snap-tite H Series. See Hydraulic Profile Chart on page 723.
- Standard seal is Buna-N.

Couplers



Size	NPT Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	6500	steel	VHC200	\$23.68	5
3/8"	3/8" - 18	4500	steel	VHC300	32.30	5
1/2"	1/2" - 14	4000	steel	VHC400	39.26	5
3/4"	3/4" - 14	3500	steel	VHC600	60.76	5
1"	1" - 11½	2000	steel	VHC800	94.40	5
1-1/4"	1-1/4" - 11½	1750	steel	VHC1000	223.70	1
1-1/2"	1-1/2" - 11½	1500	steel	VHC1200	309.33	1
2"	2" - 11½	1500	steel	VHC1600	588.23	1
1/4"	1/4" - 18	2250	brass	VHC200B	29.66	5
3/8"	3/8" - 18	2250	brass	VHC300B	38.56	5
1/2"	1/2" - 14	2000	brass	VHC400B	56.49	5

Plugs



Size	NPT Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/4"	1/4" - 18	6500	steel	VHN200	\$16.23	5
3/8"	3/8" - 18	4500	steel	VHN300	20.24	5
1/2"	1/2" - 14	4000	steel	VHN400	24.18	5
3/4"	3/4" - 14	3500	steel	VHN600	36.27	5
1"	1" - 11½	2000	steel	VHN800	57.96	5
1-1/4"	1-1/4" - 11½	1750	steel	VHN1000	181.66	1
1-1/2"	1-1/2" - 11½	1500	steel	VHN1200	223.08	1
2"	2" - 11½	1500	steel	VHN1600	425.27	1
1/4"	1/4" - 18	2250	brass	VHN200B	21.14	5
3/8"	3/8" - 18	2250	brass	VHN300B	29.66	5
1/2"	1/2" - 14	2000	brass	VHN400B	39.44	5

Dust Plugs



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	VHC002	\$3.07	10
3/8"	rubber	VHCN003	3.41	10
1/2"	rubber	VHCN004	3.41	10
3/4"	rubber	VHCN006	8.27	10
1"	rubber	VHCN008	10.22	10
1-1/4"	aluminum	VHC010	25.06	10
1-1/2"	aluminum	VHC012	51.26	10
2"	aluminum	VHC016	87.45	10

Dust Caps



Size	Material	Part #	Price/E	Opt Qty
1/4"	rubber	VHN002	\$3.07	10
3/8"	rubber	VHCN003	3.41	10
1/2"	rubber	VHCN004	3.41	10
3/4"	rubber	VHCN006	8.27	10
1"	rubber	VHCN008	10.22	10
1-1/4"	aluminum	VHN010	31.12	10
1-1/2"	aluminum	VHN012	59.78	10
2"	aluminum	VHN016	75.18	10

Hydraulic Water-Blast Quick Fittings

Features:

- plug mounted sleeve guard protects against accidental disconnection
- smooth bore full-flow design ensures maximum flow with minimal pressure drop
- Steel body components maximize service life by resisting the effects of brinelling and internal erosion.
- Heavy duty knurled sleeve with locking pin provides maximum protection against brinelling and accidental disconnection.
- Interchanges with Parker WB, Aeroquip FD69, and Snap Tite 56.

Couplers

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/2"	3/8" - 18	10000	steel	4EAF3	\$121.52	25
1/2"	1/2" - 14	10000	steel	4EAF4	121.52	25



Plugs

Size	NPTF Thread	PSI at 70°F	Material	Part #	Price/E	Opt Qty
1/2"	3/8" - 18	10000	steel	EA4F3	\$26.27	25
1/2"	1/2" - 14	10000	steel	EA4F4	32.87	25



Hydraulic Suction and Return Line Hose Fittings

Application:

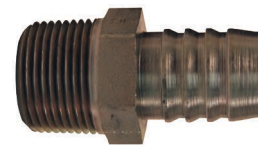
- Designed and machined for hydraulic suction line applications using SAE100R4 hydraulic hose.

Feature:

- barbs provide easy assembly and maximum gripping action

**Stems
male NPTF**

Hose ID	Male NPTF	Plated Steel	
		Part #	Price/E
3/4"	3/4"-14	188-12	\$14.10
1"	1"-11½"	188-16	30.50
1-1/4"	1-1/4"-11½"	188-20	57.50
1-1/2"	1-1/2"-11½"	188-24	71.00
2"	2"-11½"	188-32	108.00



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female SAE (JIC) 37° swivel

Hose ID	Female SAE	Plated Steel	
		Part #	Price/E
3/4"	1-1/16"-12	688-12	\$18.80
1"	1-5/16"-12	688-16	38.00
1-1/4"	1-5/8"-12	688-20	77.50
1-1/2"	1-7/8"-12	688-24	84.00
2"	2-1/2"-12	688-32	186.60



Note: return line clamps must be used with these fittings.

Clamps

Safety:



- measure hose OD accurately before ordering clamps
- Torque values for clamps are based on dry bolts. The use of lubricant on bolts will adversely effect clamp performance.
- Consult Dixon when using double bolt clamps on helical wire hose.

without saddles

Hose ID	Hose OD		Zinc Plated Iron		Opt Qty	Torque in ft. lbs.
	from	to	Part #	Price/E		
3/4"	1-8/64"	1-12/64"	J48	\$7.10	100	15
1"	1-40/64"	1-52/64"	DL14	13.20	25	40
1-1/4"	1-48/64"	2-3/64"	DL20	13.05	25	27
1-1/2"	2-7/64"	2-19/64"	DL24 ¹	12.70	25	27
2"	2-20/64"	2-40/64"	DL32 ¹	13.70	25	40



¹ made from investment cast carbon steel

Hydraulic Hose Couplings Stems

Feature:

- stems have a collar behind the hex to engage fingers



NPTF Size	Plated Steel		Price/E
	Part #		
3/8"	MSC		\$6.30
1/2"	HY4		16.70
3/4"	MS6		9.80
1"	HY8		24.40

NPTF Size	Plated Iron		Price/E
	Part #		
1-1/4"	HY10		\$35.60
1-1/2"	HY12		40.80
2"	HY16		46.85

Clamps

Feature:

- for use only on 1 wire hydraulic hoses



Hose ID	Hose OD		Plated Iron		Torque in ft. lbs.
	from	to	Part #	Price/E	
3/8"	48/64"	50/64"	HD1-3	\$18.00	12
1/2"	56/64"	60/64"	HD1-4	18.00	18
3/4"	1-10/64"	1-14/64"	HD1-6	21.65	18
1"	1-29/64"	1-35/64"	HD1-8	26.10	36

Feature:

- for use only on 2 wire hydraulic hoses



Hose ID	Hose OD		Plated Iron		Torque in ft. lbs.
	from	to	Part #	Price/E	
3/8"	52/64"	56/64"	HD2-3 ¹	\$15.00	12
1/2"	60/64"	1"	HD2-4 ¹	19.60	18
3/4"	1-14/64"	1-18/64"	HD2-6 ¹	19.50	18
1"	1-33/64"	1-39/64"	HD2-8 ¹	30.25	36

¹ parts will become obsolete once inventory is depleted

Feature:

- for use on hydraulic hose with 1, 2 or 4 wire braids or spiral plies




Size	Hose OD		Plated Iron		Torque in ft. lbs.
	from	to	Part #	Price/E	
1-1/4"	1-48/64"	2"	HD2-9 ¹	\$40.00	64
1-1/4"	2"	2-8/64"	HD2-10 ¹	36.75	64
1-1/2"	2-12/64"	2-18/64"	HD2-11 ¹	36.75	64
1-1/2"	2-16/64"	2-20/64"	HD2-12 ¹	38.50	64
2"	2-36/64"	2-48/64"	HD2-15 ¹	58.30	90
2"	2-48/64"	2-58/64"	HD2-16 ¹	59.40	90

¹ parts will become obsolete once inventory is depleted

Features:

- for use only on 1 or 2 wire hydraulic hoses

 This clamp *should not* be used on 4 or 6 wire hydraulic hose even when hose falls within recommended ranges.



Size	Hose OD		Plated Iron		Torque in ft. lbs.
	from	to	Part #	Price/E	
3/8"	50/64"	52/64"	HRC-037	\$17.30	18
1/2"	57/64"	1"	HRC-050	20.60	18
3/4"	1-16/64"	1-20/64"	HRC-075	17.85	36
1"	1-37/64"	1-41/64"	HRC-100	22.70	64
1-1/4"	1-54/64"	1-62/64"	HRC-125	40.00	90
1-1/2"	2-10/64"	2-18/64"	HRC-150	38.30	90
2"	2-43/64"	2-52/64"	HRC-200	49.65	90

Hydraulic Flange Adapters

Applications:

- Flange adapters for hydraulic systems make installation of components easier, especially in applications with limited space.

Features:

- Flanges are constructed with an O-ring seal to eliminate leakage.
- Flange adapters vary in size and are divided into Code 61 or Code 62.
- Pressures listed are at 70°F

Pressure Ratings of SAE Flanges

Code 61 SAE J518-1 / ISO 6162-1

Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	½"	5000	35	24	32
-12	¾"	5000	35	44	70
-16	1"	4600	32	44	70
-20	1¼"	4000	28	68	70
-24	1½"	3000	21	111	130
-32	2"	3000	21	111	130
-40	2½"	2500	17.5	111	130
-48	3"	2300	16	218	295
-56	3½"	500	3.5	218	295
-64	4"	500	3.5	218	295
-80	5"	500	3.5	218	295

Code 62 SAE J518-2 / ISO 6162-2

Dash Size	Inch Size	Max Working Pressure		Fastener Torque Value	
		PSI	MPa	Grade 8 UNC (lb-ft)	Grade 10.9 Metric (N-m)
-8	½"	6000	40	24	32
-12	¾"	6000	40	44	70
-16	1"	6000	40	68	130
-20	1¼"	6000	40	111	130
-24	1½"	6000	40	218	295
-32	2"	6000	40	332	550

Note: Connection type opposite 4-bolt flange connection can de-rate maximum working pressure.

Hydraulic 4-Bolt Flanges

Features:

- code 61 - standard pressure
- code 62 - high pressure
- bolt kit with Buna O-ring included
- also available in 316L stainless

NPTF port

Port Size	Pad Size	NPTF Thread	Code 61 Carbon Steel			Code 62 Carbon Steel				
			O-ring Part #	Price/E	Flat Face Part #	Price/E	O-ring Part #	Price/E	Flat Face Part #	Price/E
½"	½"	½"-14	W43-8-8-U	\$47.90	W104-8-8	\$60.00	W44-8-8-U	\$74.30	W45-8-8	\$63.50
¾"	¾"	¾"-14	W43-12-12-U	39.00	W104-12-12	37.00	W44-12-12-U	79.75	W45-12-12	67.25
1"	1"	1"-11½"	W43-16-16-U	43.50	W104-16-16	39.80	W44-16-16-U	92.40	W45-16-16	74.50
1¼"	1¼"	1¼"-11½"	W43-20-20-U	49.00	W104-20-20	41.50	W44-20-20-U	116.50	W45-20-20	96.00
1½"	1½"	1½"-11½"	W43-24-24-U	59.25	W104-24-24	46.75	W44-24-24-U	160.00	W45-24-24	128.25
2"	2"	2"-11½"	W43-32-32-U	77.50	W104-32-32	64.50	W44-32-32-U	253.00	W45-32-32	194.00
2½"	2½"	2½"-8	W43-40-40-U	107.50	W104-40-40	102.25	---	---	---	---
3"	3"	3"-8	W43-48-48-U	159.00	W104-48-48	140.75	---	---	---	---



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SAE port

Port Size	Pad Size	UN / UNF-2B Thread	Code 61 Carbon Steel			Code 62 Carbon Steel				
			O-ring Part #	Price/E	Flat Face Part #	Price/E	O-ring Part #	Price/E	Flat Face Part #	Price/E
½"	½"	¾"-16	W46-8-8-U	\$65.40	W106-8-8	\$60.00	W48-8-8-U	\$74.30	W49-8-8	\$63.50
¾"	¾"	1-1/16"-12	W46-12-12-U	40.75	W106-12-12	37.00	W48-12-12-U	79.75	W49-12-12	67.25
1"	1"	1-5/16"-12	W46-16-16-U	41.70	W106-16-16	39.80	W48-16-16-U	92.40	W49-16-16	74.50
1¼"	1¼"	1-5/8"-12	W46-20-20-U	51.90	W106-20-20	41.50	W48-20-20-U	116.50	W49-20-20	96.00
1½"	1½"	1-7/8"-12	W46-24-24-U	63.50	W106-24-24	57.00	W48-24-24-U	160.00	W49-24-24	128.25
2"	2"	2-1/2"-12	W46-32-32-U ¹	202.75	W106-32-32 ¹	195.00	W48-32-32-U	253.00	W49-32-32	194.00

¹ 500 PSI maximum for W46-32-32 and W106-32-32



pipe socket weld

Port Size	Pad Size	Code 61 Carbon Steel			Code 62 Carbon Steel				
		O-ring Part #	Price/E	Flat Face Part #	Price/E	O-ring Part #	Price/E	Flat Face Part #	Price/E
½"	½"	W4-8-8-U	\$47.75	W61-8-8	\$36.25	W59-8-8-U	\$56.10	W60-8-8	\$48.00
¾"	¾"	W4-12-12-U	44.25	W61-12-12	33.50	W59-12-12-U	62.25	W60-12-12	53.25
1"	1"	W4-16-16-U	46.00	W61-16-16	35.50	W59-16-16-U	79.25	W60-16-16	65.40
1¼"	1¼"	W4-20-20-U	54.50	W61-20-20	40.00	W59-20-20-U	97.75	W60-20-20	81.75
1½"	1½"	W4-24-24-U	69.00	W61-24-24	55.00	W59-24-24-U	130.00	W60-24-24	105.50
2"	2"	W4-32-32-U	102.50	W61-32-32	84.00	W59-32-32-U	196.75	W60-32-32	145.00
2½"	2½"	W4-40-40-U	141.25	W61-40-40	119.00	W59-40-40-U	461.00	W60-40-40	370.00
3"	3"	W4-48-48-U	165.00	W61-48-48	129.75	W59-48-48-U	768.70	W60-48-48	607.75



Hydraulic Split Flange Kits

Application:

- for tube, hose end and split flange adapter connections

Features:

- kits include 2 split flange halves, 4 hex head screws and lockwashers, 1 Buna O-ring
- silver trivalent finish for high corrosion resistance
- also available in forged 316L stainless



Flange Size	Code 61 Forged Carbon Steel		Code 62 Forged Carbon Steel	
	Part #	Price/E	Part #	Price/E
1/2"	8SFO	\$19.40	8SFXO	\$31.00
3/4"	12SFO	14.80	12SFXO	26.60
1"	16SFO	16.50	16SFXO	31.00
1 1/4"	20SFO	20.75	20SFXO	43.40
1 1/2"	24SFO	26.25	24SFXO	63.00
2"	32SFO	28.25	32SFXO	107.25
2 1/2"	40SFO	45.50	---	---
3"	48SFO	76.50	---	---

SAE Hydraulic

straight SAE C61 or C62 x male JIC

Thread	Tube OD	Flange Size	Code 61 Carbon Steel		Code 62 Carbon Steel	
			Part #	Price/E	Part #	Price/E
3/4"-16	1/2"	1/2"	300-8-8	\$18.75	---	---
3/4"-16	1/2"	3/4"	300-8-12	31.00	---	---
1-1/16"-12	3/4"	3/4"	300-12-12	22.50	600-12-12	\$30.00
1-1/16"-12	3/4"	1"	300-12-16	25.50	600-12-16	41.70
1-5/16"-12	1"	3/4"	300-16-12	24.50	600-16-12	34.00
1-5/16"-12	1"	1"	300-16-16	27.00	600-16-16	35.30
1-5/16"-12	1"	1 1/4"	300-16-20	30.70	600-16-20	43.30
1-5/8"-12	1 1/4"	1"	300-20-16	29.70	600-20-16	49.00
1-5/8"-12	1 1/4"	1 1/4"	300-20-20	33.20	600-20-20	42.50
1-5/8"-12	1 1/4"	1 1/2"	300-20-24	53.00	600-20-24	63.00
1-7/8"-12	1 1/2"	1 1/4"	300-24-20	41.00	600-24-20	52.75
1-7/8"-12	1 1/2"	1 1/2"	300-24-24	38.75	600-24-24	54.25
1-7/8"-12	1 1/2"	2"	300-24-32	64.90	600-24-32	86.75
2-1/2"-12	2"	1 1/2"	300-32-24	77.25	600-32-24	73.00
2-1/2"-12	2"	2"	300-32-32	60.50	600-32-32	86.75



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90° SAE C61 or C62 x male JIC

Thread	Tube OD	Flange Size	Code 61 Carbon Steel		Code 62 Carbon Steel	
			Part #	Price/E	Part #	Price/E
3/4"-16	1/2"	3/4"	390-8-12	\$33.50	---	---
1-1/16"-12	3/4"	3/4"	390-12-12	26.00	690-12-12	\$39.75
1-1/16"-12	3/4"	1"	390-12-16	36.50	690-12-16	53.75
1-5/16"-12	1"	3/4"	390-16-12	36.00	690-16-12	47.75
1-5/16"-12	1"	1"	390-16-16	33.25	690-16-16	44.25
1-5/16"-12	1"	1 1/4"	390-16-20	43.25	690-16-20	60.25
1-5/8"-12	1 1/4"	1"	390-20-16	41.00	690-20-16	51.00
1-5/8"-12	1 1/4"	1 1/4"	390-20-20	43.25	690-20-20	55.00
1-5/8"-12	1 1/4"	1 1/2"	390-20-24	61.00	690-20-24	80.00
1-7/8"-12	1 1/2"	1 1/2"	390-24-24	56.75	690-24-24	76.00
1-7/8"-12	1 1/2"	2"	390-24-32	104.75	690-24-32	129.30
2-1/2"-12	2"	1 1/2"	390-32-24	77.60	690-32-24	88.00
2-1/2"-12	2"	2"	390-32-32	102.75	690-32-32	130.00



45° SAE C61 or C62 x male JIC

Thread	Tube OD	Flange Size	Code 61 Carbon Steel		Code 62 Carbon Steel	
			Part #	Price/E	Part #	Price/E
1-1/16"-12	3/4"	3/4"	340-12-12	\$27.00	640-12-12	\$39.00
1-5/16"-12	1"	1"	340-16-16	31.50	640-16-16	47.00
1-5/8"-12	1 1/4"	1 1/4"	340-20-20	41.00	640-20-20	53.25
1-7/8"-12	1 1/2"	1 1/2"	340-24-24	59.00	640-24-24	68.50
2-1/2"-12	2"	2"	340-32-32	101.00	640-32-32	170.20



Flat Face Fittings

male flat face unions

Male Flat Face	Zinc Plated Steel		
	Part #	PSI	Price/E
9/16"-18	FS2403-4	6000	\$1.95
11/16"-16	FS2403-6	6000	2.90
13/16"-16	FS2403-8	6000	3.75
1"-14	FS2403-10	6000	5.00
1-3/16"-12	FS2403-12	6000	6.70
1-7/16"-12	FS2403-16	6000	9.55



male flat face x male SAE O-ring Boss connectors

Male Flat Face	Male SAE O-ring Boss	Zinc Plated Steel		
		Part #	PSI	Price/E
9/16"-18	7/16"-20	FS6400-4-4	5000	\$2.00
11/16"-16	9/16"-18	FS6400-6-6	5000	2.40
13/16"-16	3/4"-16	FS6400-8-8	4500	3.00
1"-14	7/8"-14	FS6400-10-10	3500	3.85
1-3/16"-12	1-1/16"-12	FS6400-12-12	3500	5.45
1-7/16"-12	1-5/16"-12	FS6400-16-16	3000	7.90



male flat face x male NPTF connectors

Male Flat Face	Male NPTF	Zinc Plated Steel		
		Part #	PSI	Price/E
9/16"-18	1/4"-18	FS2404-4-4	5000	\$2.05
11/16"-16	3/8"-18	FS2404-6-6	4000	2.15
13/16"-16	1/2"-14	FS2404-8-8	3000	3.15
1-3/16"-12	3/4"-14	FS2404-12-12	2500	8.25
1-7/16"-12	1"-11½	FS2404-16-16	2000	8.90



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male flat face x female flat face swivel nut 90° elbows

Male Flat Face	Female Flat Face	Zinc Plated Steel		
		Part #	PSI	Price/E
9/16"-18	9/16"-18	FS6500-4-4	6000	\$7.45
11/16"-16	11/16"-16	FS6500-6-6	6000	9.30
13/16"-16	13/16"-16	FS6500-8-8	6000	11.55
1"-14	1"-14	FS6500-10-10	6000	14.30
1-3/16"-12	1-3/16"-12	FS6500-12-12	6000	15.40
1-7/16"-12	1-7/16"-12	FS6500-16-16	6000	33.70



male flat face x male SAE O-ring Boss 90° elbows

Male Flat Face	Male SAE O-ring Boss	Zinc Plated Steel		
		Part #	PSI	Price/E
9/16"-18	7/16"-20	FS6801-4-4	5000	\$4.35
11/16"-16	9/16"-18	FS6801-6-6	5000	5.60
13/16"-16	3/4"-16	FS6801-8-8	4500	6.40
1"-14	7/8"-14	FS6801-10-10	3500	10.15
1-3/16"-12	1-1/16"-12	FS6801-12-12	3500	13.55
1-7/16"-12	1-5/16"-12	FS6801-16-16	3000	19.70



Flat Face Fittings

male flat face x male NPTF 90° elbows



Male Flat Face	Male NPTF	Zinc Plated Steel		
		Part #	PSI	Price/E
9/16"-18	1/4"-18	FS2501-4-4	5000	\$3.35
11/16"-16	3/8"-18	FS2501-6-6	4000	4.65
13/16"-16	1/2"-14	FS2501-8-8	3000	6.30
1-3/16"-12	3/4"-14	FS2501-12-12	2500	10.10
1-7/16"-12	1"-11½	FS2501-16-16	2000	16.85

male flat face x male flat face x male flat face union tees



Male Flat Face	Male Flat Face	Male Flat Face	Zinc Plated Steel		
			Part #	PSI	Price/E
9/16"-18	9/16"-18	9/16"-18	FS2603-4	6000	\$5.85
11/16"-16	11/16"-16	11/16"-16	FS2603-6	6000	7.85
13/16"-16	13/16"-16	13/16"-16	FS2603-8	6000	8.05
1"-14	1"-14	1"-14	FS2603-10	6000	13.20
1-3/16"-12	1-3/16"-12	1-3/16"-12	FS2603-12	6000	17.00
1-7/16"-12	1-7/16"-12	1-7/16"-12	FS2603-16	6000	26.60

male flat face x female flat face swivel x male flat face run tees

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Male Flat Face	Female Flat Face Swivel	Male Flat Face	Zinc Plated Steel		
			Part #	PSI	Price/E
9/16"-18	9/16"-18	9/16"-18	FS6602-4	4500	\$7.85
11/16"-16	11/16"-16	11/16"-16	FS6602-6	4000	10.35
13/16"-16	13/16"-16	13/16"-16	FS6602-8	4000	11.20
1"-14	1"-14	1"-14	FS6602-10	3000	18.05
1-3/16"-12	1-3/16"-12	1-3/16"-12	FS6602-12	3000	23.35
1-7/16"-12	1-7/16"-12	1-7/16"-12	FS6602-16	2500	34.55

flat face caps



Female Flat Face	Zinc Plated Steel		
	Part #	PSI	Price/E
9/16"-18	FS304C-4	6000	\$1.95
11/16"-16	FS304C-6	6000	2.40
13/16"-16	FS304C-8	6000	2.65
1"-14	FS304C-10	6000	3.65
1-3/16"-12	FS304C-12	6000	5.25
1-7/16"-12	FS304C-16	6000	7.20

flat face plugs



Male Flat Face	Zinc Plated Steel		
	Part #	PSI	Price/E
9/16"-18	FS2408-4	6000	\$1.65
11/16"-16	FS2408-6	6000	1.75
13/16"-16	FS2408-8	6000	2.20
1"-14	FS2408-10	6000	3.05
1-3/16"-12	FS2408-12	6000	4.50
1-7/16"-12	FS2408-16	6000	6.95

ORB Fittings

O-ring port reducers

Male SAE O-ring Boss	Female O-ring Port	Zinc Plated Steel		
		Part #	PSI	Price/E
9/16"-18	7/16"-20	6410-6-4	5000	\$2.50
9/16"-18	3/4"-16	6410-6-8	4500	4.25
3/4"-16	7/8"-14	6410-8-10	3500	4.30
3/4"-16	9/16"-18	6410-8-6	4500	3.00
7/8"-14	1-1/16"-12	6410-10-12	3500	7.30
7/8"-14	3/4"-16	6410-10-8	3500	4.15
1-1/16"-12	7/8"-14	6410-12-10	3000	6.25 NEW
1-1/16"-12	1-5/16"-12	6410-12-16	3000	13.80



adjustable O-ring unions

Male O-ring Boss	Adjustable O-ring Boss	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	6403-4	4500	\$2.80
9/16"-18	9/16"-18	6403-6	4000	3.85
3/4"-16	3/4"-16	6403-8	4000	4.90
7/8"-14	7/8"-14	6403-10	3000	5.80
1-1/16"-12	1-1/16"-12	6403-12	3000	10.60
1-5/16"-12	1-5/16"-12	6403-16	2500	11.80



male SAE screw thread x male SAE O-ring Boss thread

SAE Screw Thread	SAE O-ring Boss Thread	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	1231-04-04	5000	\$1.35
7/16"-20	9/16"-18	1231-04-06	5000	1.55
7/16"-20	3/4"-16	1231-04-08	4500	2.45
1/2"-20	1/2"-20	1231-05-05	5000	2.05 NEW
9/16"-18	7/16"-20	1231-06-04	5000	1.60
9/16"-18	9/16"-18	1231-06-06	5000	1.65
9/16"-18	3/4"-16	1231-06-08	4500	2.05
9/16"-18	7/8"-14	1231-06-10	3500	3.00
3/4"-16	9/16"-18	1231-08-06	4500	2.50
3/4"-16	3/4"-16	1231-08-08	4500	2.25
3/4"-16	7/8"-14	1231-08-10	3500	2.85
3/4"-16	1-1/16"-12	1231-08-12	3500	4.10
7/8"-14	3/4"-16	1231-10-08	3500	3.25
7/8"-14	7/8"-14	1231-10-10	3500	3.00
7/8"-14	1-1/16"-12	1231-10-12	3500	4.10
1-1/16"-12	7/8"-14	1231-12-10	3500	4.30
1-1/16"-12	1-1/16"-12	1231-12-12	3500	4.50
1-1/16"-12	1-5/16"-12	1231-12-16	3000	6.75
1-5/16"-12	1-1/16"-12	1231-16-12	3000	5.45
1-5/16"-12	1-5/16"-12	1231-16-16	3000	6.45
1-5/16"-12	1-5/8"-12	1231-16-20	2500	11.35
1-5/8"-12	1-5/16"-12	1231-20-16	2500	13.30
1-5/8"-12	1-5/8"-12	1231-20-20	2500	13.25 NEW



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O-ring Boss / male pipe adapters

Male SAE O-ring Boss	Male NPTF Pipe Adapter	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/4"-18	6401-4-4	5000	\$1.95
9/16"-18	1/4"-18	6401-6-4	4000	2.00
9/16"-18	3/8"-18	6401-6-6	4000	2.45
9/16"-18	1/2"-14	6401-6-8	3000	4.50
3/4"-16	3/8"-18	6401-8-6	3000	3.00
3/4"-16	1/2"-14	6401-8-8	3000	2.95
7/8"-14	1/2"-14	6401-10-8	3000	3.45
1-1/16"-12	3/4"-14	6401-12-12	2500	5.80
1-5/16"-12	1"-11½	6401-16-16	2000	9.80



ORB Fittings

O-ring to female pipe adapters



Male SAE O-ring Boss	Female NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/8"-27	6405-4-2	5000	\$2.30
7/16"-20	1/4"-18	6405-4-4	5000	2.95
7/16"-20	3/8"-18	6405-4-6	4000	2.70
9/16"-18	1/4"-18	6405-6-4	4000	2.35
9/16"-18	3/8"-18	6405-6-6	4000	3.20
9/16"-18	1/2"-14	6405-6-8	3000	5.90
3/4"-16	3/8"-18	6405-8-6	4000	3.25
3/4"-16	1/2"-14	6405-8-8	3000	4.20
7/8"-14	1/4"-18	6405-10-4	3000	4.25
7/8"-14	1/2"-14	6405-10-8	3000	4.15
7/8"-14	3/4"-14	6405-10-12	2500	7.70
1-1/16"-12	1/2"-14	6405-12-8	3000	6.40
1-1/16"-12	3/4"-14	6405-12-12	2500	6.65
1-1/16"-12	1"-11½	6405-12-16	2000	7.45
1-5/16"-12	3/4"-14	6405-16-12	2500	7.25
1-5/16"-12	1"-11½	6405-16-16	2000	9.10
1-5/16"-12	1-1/4"-11½	6405-16-20	1150	19.10
1-5/8"-12	1"-11½	6405-20-16	2000	16.00
1-5/8"-12	1-1/4"-11½	6405-20-20	1150	17.25

NEW

90° male SAE O-ring Boss thread x male SAE screw thread



SAE O-ring Boss Thread	SAE Screw Thread	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	1238-04-04	5000	\$3.40
7/16"-20	9/16"-18	1238-04-06	5000	4.00
9/16"-18	7/16"-20	1238-06-04	5000	3.90
9/16"-18	9/16"-18	1238-06-06	5000	3.45
3/4"-16	9/16"-18	1238-08-06	4500	5.90
3/4"-16	3/4"-16	1238-08-08	4500	5.10
3/4"-16	7/8"-14	1238-08-10	3500	7.75
7/8"-14	3/4"-16	1238-10-08	3500	7.45
7/8"-14	7/8"-14	1238-10-10	3500	8.00
7/8"-14	1-1/16"-12	1238-10-12	3500	9.70
1-1/16"-12	7/8"-14	1238-12-10	3500	10.35
1-1/16"-12	1-1/16"-12	1238-12-12	3500	10.10
1-1/16"-12	1-5/16"-12	1238-12-16	3000	15.35
1-5/16"-16	1-1/16"-12	1238-16-12	3000	16.55
1-5/16"-12	1-5/16"-12	1238-16-16	3000	15.35
1-5/8"-12	1-5/16"-12	1238-20-16	2500	31.15
1-5/8"-12	1-5/8"-12	1238-20-20	2500	27.05
1-7/8"-12	1-7/8"-12	1238-24-24	2000	43.00

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90° SAE O-ring Boss x female NPSM swivel nut



Male SAE O-ring Boss	Female NPSM Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/4"-18	6901-4-4	4500	\$5.20
7/16"-20	3/8"-18	6901-4-6	4000	7.80
9/16"-18	1/4"-18	6901-6-4	4000	6.10
9/16"-18	3/8"-18	6901-6-6	4000	6.35
9/16"-18	1/2"-14	6901-6-8	4000	9.55
3/4"-16	3/8"-18	6901-8-6	3500	7.80
3/4"-16	1/2"-14	6901-8-8	4000	8.30
3/4"-16	3/4"-14	6901-8-12	3000	14.45
7/8"-14	1/2"-14	6901-10-8	3500	10.00
7/8"-14	3/4"-14	6901-10-12	3000	17.35
1-1/16"-12	1/2"-14	6901-12-8	3500	15.30
1-1/16"-12	3/4"-14	6901-12-12	3000	14.60
1-1/16"-12	1"-11½	6901-12-16	2500	20.45
1-5/16"-12	3/4"-14	6901-16-12	3000	22.70
1-5/16"-12	1"-11½	6901-16-16	2500	20.80
1-5/16"-12	1-1/4"-11½	6901-16-20	2000	42.00
1-5/8"-12	1-1/4"-11½	6901-20-20	2000	39.90

ORB Fittings

45° male SAE O-ring Boss thread x male SAE screw thread

SAE O-ring Boss Thread	SAE Screw Thread	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	1240-04-04	5000	\$3.75
9/16"-18	9/16"-18	1240-06-06	5000	4.20
9/16"-18	3/4"-16	1240-06-08	4500	6.25
3/4"-16	9/16"-18	1240-08-06	4500	7.10
3/4"-16	3/4"-16	1240-08-08	4500	6.20
3/4"-16	7/8"-14	1240-08-10	3500	9.00
7/8"-14	3/4"-16	1240-10-08	3500	7.45
7/8"-14	7/8"-14	1240-10-10	3500	7.95
7/8"-14	1-1/16"-12	1240-10-12	3500	11.40
1-1/16"-12	7/8"-14	1240-12-10	3500	10.45
1-1/16"-12	1-1/16"-12	1240-12-12	3500	10.65
1-5/16"-12	1-5/16"-12	1240-12-16	3000	16.45
1-5/16"-12	1-5/16"-12	1240-16-16	3000	15.25
1-5/16"-12	1-5/16"-12	1240-20-16	2500	35.00
1-5/8"-12	1-5/8"-12	1240-20-20	2500	34.85



straight thread branch tees
male 37° flare x male SAE O-ring Boss

(2) SAE 37° Male	SAE O-ring Boss	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	6803-4	5000	\$5.40
9/16"-18	9/16"-18	6803-6	5000	5.80
3/4"-16	3/4"-16	6803-8	4500	8.10
7/8"-14	7/8"-14	6803-10	3500	11.90
1-1/16"-12	1-1/16"-12	6803-12	3500	17.35
1-5/16"-12	1-5/16"-12	6803-16	3000	23.15



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SAE O-ring Boss thread plugs

Thread Size	Zinc Plated Steel		
	Part #	PSI	Price/E
7/16"-20	1255-04H	5000	\$1.00
9/16"-18	1255-06H	5000	1.10
3/4"-16	1255-08H	4500	1.65
7/8"-14	1255-10H	3500	2.05
1-1/16"-12	1255-12H	3500	2.90
1-5/16"-12	1255-16H	3000	4.15
1-5/8"-12	1255-20H	2500	7.05
1-7/8"-12	1255-24H	2000	12.60
2-1/2"-12	1255-32H	1500	32.60



hollow hex O-ring plugs

Features:

- reference SAE 090109
- uses Allen wrench

Male SAE O-ring Boss	Zinc Plated Steel		
	Part #	PSI	Price/E
7/16"-20	6408HHP-4	5000	\$0.85
9/16"-18	6408HHP-6	5000	1.10
3/4"-16	6408HHP-8	4500	1.80
7/8"-14	6408HHP-10	3500	1.95
1-1/16"-12	6408HHP-12	3500	2.60
1-5/16"-12	6408HHP-16	3000	3.90
1-5/8"-12	6408HHP-20	2500	8.15
1-7/8"-12	6408HHP-24	1500	11.95
2-1/2"-12	6408HHP-32	1500	20.65



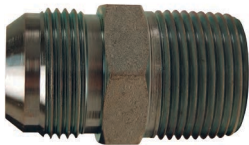
SAE / JIC Fittings

male SAE screw thread x male SAE screw thread



SAE Screw Thread	SAE Screw Thread	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	1204-04-04	5000	\$1.20
9/16"-18	9/16"-18	1204-06-06	5000	1.60
3/4"-16	7/16"-20	1204-08-04	4500	3.15
3/4"-16	3/4"-16	1204-08-08	4500	2.35
7/8"-14	3/4"-16	1204-10-08	3500	3.80
7/8"-14	7/8"-14	1204-10-10	3500	4.05
1-1/16"-12	3/4"-16	1204-12-08	3500	5.05
1-1/16"-12	7/8"-14	1204-12-10	3500	4.95
1-1/16"-12	1-1/16"-12	1204-12-12	3500	4.15
1-5/16"-12	1-1/16"-12	1204-16-12	3000	9.05
1-5/16"-12	1-5/16"-12	1204-16-16	3000	7.55
NEW 1-5/8"-12	1-5/8"-12	1204-20-20	2500	11.00
1-7/8"-12	1-7/8"-12	1204-24-24	2000	20.00

male 37° flare x male NPTF



Male 37° Flare	Male NPTF	PSI	Zinc Plated Steel		316 Stainless Steel	
			Part #	Price/E	Part #	Price/E
7/16"-20	1/8"-27	4500	2404-4-2	\$1.20	---	---
7/16"-20	1/4"-18	4500	2404-4-4	1.55	SS2404-4-4	\$15.10
7/16"-20	3/8"-18	4000	2404-4-6	2.05	---	---
7/16"-20	1/2"-18	3000	2404-4-8	4.95	---	---
NEW 1/2"-20	1/8"-27	4000	2404-5-2	2.10	---	---
9/16"-18	1/8"-27	4000	2404-6-2	1.75	---	---
9/16"-18	1/4"-18	4000	2404-6-4	1.55	---	---
9/16"-18	3/8"-18	4000	2404-6-6	2.10	SS2404-6-6	22.00
9/16"-18	1/2"-14	3000	2404-6-8	2.45	---	---
3/4"-16	1/4"-18	4000	2404-8-4	2.25	---	---
3/4"-16	3/8"-18	4000	2404-8-6	2.25	---	---
3/4"-16	1/2"-14	3000	2404-8-8	2.55	SS2404-8-8	23.50
3/4"-16	3/4"-14	2500	2404-8-12	4.20	---	---
7/8"-14	1/2"-14	3000	2404-10-8	2.75	---	---
7/8"-14	3/4"-14	2500	2404-10-12	4.05	---	---
1-1/16"-12	1/2"-14	3000	2404-12-8	5.35	---	---
1-1/16"-12	3/4"-14	2500	2404-12-12	4.20	SS2404-12-12	52.00
1-1/16"-12	1"-11½	2000	2404-12-16	6.15	---	---
1-5/16"-12	3/4"-14	2500	2404-16-12	8.80	---	---
1-5/16"-12	1"-11½	2000	2404-16-16	6.25	SS2404-16-16	65.00
NEW 1-5/8"-12	1-1/4"-11½	1150	2404-20-20	9.00	---	---
1-7/8"-12	1-1/2"-11½	1000	2404-24-24	15.70	---	---
2-1/2"-12	2"-11½	1000	2404-32-32	39.50	---	---

male 37° flare x female NPTF



Male 37° Flare	Female NPTF	PSI	Zinc Plated Steel		316 Stainless Steel	
			Part #	Price/E	Part #	Price/E
7/16"-20	1/8"-27	4500	2405-4-2	\$2.40	---	---
7/16"-20	1/4"-18	4500	2405-4-4	2.95	SS2405-4-4	\$19.90
9/16"-18	1/4"-18	4000	2405-6-4	3.05	---	---
9/16"-18	3/8"-18	4000	2405-6-6	3.00	SS2405-6-6	25.50
9/16"-18	1/2"-14	3000	2405-6-8	4.50	---	---
3/4"-16	3/8"-18	4000	2405-8-6	3.80	---	---
3/4"-16	1/2"-14	3000	2405-8-8	4.20	SS2405-8-8	41.00
3/4"-16	3/4"-14	2500	2405-8-12	13.35	---	---
7/8"-14	1/2"-14	3000	2405-10-8	5.95	---	---
1-1/16"-12	3/4"-14	2500	2405-12-12	6.65	SS2405-12-12	67.00
1-1/16"-12	1"-11½	2000	2405-12-16	20.80	---	---
1-5/16"-12	1"-11½	2000	2405-16-16	9.15	SS2405-16-16	112.00
NEW 1-5/8"-12	1-1/4"-11½	1150	2405-20-20	18.20	---	---

SAE / JIC Fittings

37° JIC swivel x male NPTF

NEW
FOR 2013

SAE 37° Female Swivel	Male NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/8"-27	6505-4-2	4500	\$4.90
7/16"-20	1/4"-18	6505-4-4	4500	3.30
1/2"-20	1/4"-18	6505-5-4	4000	5.05
9/16"-18	1/4"-18	6505-6-4	4000	4.45
9/16"-18	3/8"-18	6505-6-6	4000	4.25
3/4"-16	3/8"-18	6505-8-6	4000	5.35
7/8"-14	1/2"-14	6505-10-8	3000	6.80
7/8"-14	3/4"-14	6505-10-12	2500	10.75
1-1/16"-12	1/2"-14	6505-12-8	3000	9.90
1-1/16"-12	3/4"-14	6505-12-12	2500	7.95
1-5/16"-12	3/4"-14	6505-16-12	2500	15.20
1-5/16"-12	1"-1/2	6505-16-16	2000	14.30
1-5/8"-12	1-1/4"-11½	6505-20-20	1150	19.75
1-7/8"-12	1-1/2"-11½	6505-24-24	1000	32.00
2-1/2"-12	2"-11½	6505-32-32	1000	51.00



female 37° swivel x female NPTF pipe

SAE 37° Female Swivel	Female NPTF	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/4"-18	6506-4-4	4500	\$4.90
7/16"-20	3/8"-18	6506-4-6	4000	6.65
9/16"-18	1/4"-18	6506-6-4	4000	6.35
9/16"-18	3/8"-18	6506-6-6	4000	6.45
3/4"-16	1/2"-14	6506-8-8	3000	6.95
7/8"-14	1/2"-14	6506-10-8	3000	10.50
1 1/16"-12	3/4"-14	6506-12-12	2500	10.85
1 5/16"-12	1" 11 1/2	6506-16-16	2000	15.25



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90° male SAE screw thread x male SAE screw thread

SAE Screw Thread	SAE Screw Thread	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	1234-04-04	5000	\$2.45
9/16"-18	9/16"-18	1234-06-06	5000	3.30
3/4"-16	3/4"-16	1234-08-08	4500	4.45
7/8"-14	7/8"-14	1234-10-10	3500	6.20
1-1/16"-12	1-1/16"-12	1234-12-12	3500	8.60
1-5/16"-12	1-5/16"-12	1234-16-16	3000	13.05
1-5/8"-12	1-5/8"-12	1234-20-20	2500	25.40



male 37° flare x female 37° swivel 90° elbows

- reference SAE 070221

Male 37° Flare	Female 37° Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	6500-4	5000	\$3.25
9/16"-18	9/16"-18	6500-6	5000	3.65
9/16"-18	7/16"-20	6500-6-4	5000	5.40
9/16"-18	3/4"-16	6500-6-8	4500	5.90
3/4"-16	3/4"-16	6500-8	4500	5.55
3/4"-16	9/16"-18	6500-8-6	4500	6.10
3/4"-16	7/8"-14	6500-8-10	3500	9.10
7/8"-14	7/8"-14	6500-10	3500	7.30
1-1/16"-12	1-1/16"-12	6500-12	3500	9.75
1-1/16"-12	7/8"-14	6500-12-10	3500	11.65
1-5/16"-12	1-5/16"-12	6500-16	3000	17.25
1-5/8"-12	1-5/8"-12	6500-20	2500	35.55



SAE / JIC Fittings

90° male 37° flare x male NPTF



Male 37° Flare	Male NPTF	PSI	Zinc Plated Steel		316 Stainless Steel	
			Part #	Price/E	Part #	Price/E
7/16"-20	1/8"-27	4500	2501-4-2	\$3.15	---	---
7/16"-20	1/4"-18	4500	2501-4-4	3.05	SS2501-4-4	\$18.90
7/16"-20	3/8"-18	4000	2501-4-6	4.10	---	---
9/16"-18	1/8"-27	4000	2501-6-2	3.75	---	---
9/16"-18	1/4"-18	4000	2501-6-4	2.80	---	---
9/16"-18	3/8"-18	4000	2501-6-6	3.90	SS2501-6-6	31.00
9/16"-18	1/2"-14	3000	2501-6-8	4.80	---	---
3/4"-16	1/4"-18	4000	2501-8-4	5.70	---	---
3/4"-16	3/8"-18	4000	2501-8-6	4.90	---	---
3/4"-16	1/2"-14	3000	2501-8-8	5.25	SS2501-8-8	47.00
3/4"-16	3/4"-14	2500	2501-8-12	7.80	---	---
7/8"-14	1/2"-14	3000	2501-10-8	6.25	---	---
7/8"-14	3/4"-14	2500	2501-10-12	8.10	---	---
1-1/16"-12	1/2"-14	3000	2501-12-8	8.10	---	---
1-1/16"-12	3/4"-14	2500	2501-12-12	8.65	SS2501-12-12	76.00
1-1/16"-12	1"-11½	2000	2501-12-16	11.25	---	---
1-5/16"-12	3/4"-14	2500	2501-16-12	12.40	---	---
1-5/16"-12	1"-11½	2000	2501-16-16	12.00	SS2501-16-16	110.00
1-5/8"-12	1"-11½	2000	2501-20-16	26.50	---	---
1-5/8"-12	1-1/4"-11½	1150	2501-20-20	22.50	---	---
1-7/8"-12	1-1/2"-11½	1000	2501-24-24	38.50	---	---
2-1/2"-12	2"-11½	1000	2501-32-32	82.00	---	---

Female 37° JIC swivel x 90° male NPTF

NEW
FOR 2013

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SAE 37° Female Swivel	Male NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/8"-27	6501-4-2	4500	\$3.60
7/16"-20	1/4"-18	6501-4-4	4500	3.90
1/2"-20	1/8"-27	6501-5-2	4000	4.10
9/16"-18	1/4"-18	6501-6-4	4000	4.30
9/16"-18	3/8"-18	6501-6-6	4000	5.45
3/4"-16	3/8"-18	6501-8-6	4000	5.65
3/4"-16	1/2"-14	6501-8-8	3000	7.90
7/8"-14	1/2"-14	6501-10-8	3000	9.80
1-1/16"-12	3/4"-14	6501-12-12	2500	10.70
1-3/16"-12	3/4"-14	6501-14-12	2500	15.90
1-5/16"-12	1"-11½	6501-16-16	2000	17.75
1-5/8"-12	1-1/4"-11½	6501-20-20	1150	32.50
1-7/8"-12	1-1/2"-11½	6501-24-24	1000	47.00
2-1/2"-12	2"-11½	6501-32-32	1000	94.00

45° swivel elbow male 37° flare x female 37° swivel



SAE 37° Male	SAE 37° Female Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	6502-4	4500	\$3.90
9/16"-18	9/16"-18	6502-6	4000	4.30
3/4"-16	3/4"-16	6502-8	4000	4.90
7/8"-14	7/8"-14	6502-10	3000	9.15
1 1/16"-12	1 1/16"-12	6502-12	3000	10.40
1 5/16"-12	1 5/16"-12	6502-16	2500	16.95
1 5/8"-12	1 5/8"-12	6502-20	2000	35.00

SAE / JIC Fittings

45° male 37° flare x male NPTF

Male 37° Flare	Male NPTF	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/8"-27	2503-4-2	4500	\$2.90
7/16"-20	1/4"-18	2503-4-4	4500	3.15
9/16"-18	1/4"-18	2503-6-4	4000	3.40
9/16"-18	3/8"-18	2503-6-6	4000	3.90
3/4"-16	1/4"-18	2503-8-4	4000	4.75
3/4"-16	3/8"-18	2503-8-6	4000	4.70
3/4"-16	1/2"-14	2503-8-8	3000	5.00
7/8"-14	1/2"-14	2503-10-8	3000	6.55
7/8"-14	3/4"-14	2503-10-12	2500	7.65
1-1/16"-12	3/4"-14	2503-12-12	2500	8.00
1-5/16"-12	3/4"-14	2503-16-12	2500	13.30
1-5/16"-12	1"-11½	2503-16-16	2000	14.10



NEW

union tees

• reference SAE 070401

Male (3) 37° Flare	Zinc Plated Steel		
	Part #	PSI	Price/E
7/16"-20	2603-4	5000	\$4.75
9/16"-18	2603-6	5000	4.35
3/4"-16	2603-8	4500	7.10
7/8"-14	2603-10	3500	9.75
1-1/16"-12	2603-12	3500	13.35
1-5/16"-12	2603-16	3000	19.10



swivel branch tees male 37° flare x female 37° swivel

SAE 37° Male (2)	SAE 37° Female Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	6600-4	4500	\$5.70
9/16"-18	9/16"-18	6600-6	4000	5.90
3/4"-16	3/4"-16	6600-8	4000	7.85
1 1/16"-12	1 1/16"-12	6600-12	3000	15.85
1 5/16"-12	1 5/16"-12	6600-16	2500	25.85



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male 37° flare x female 37° swivel run tees

• reference SAE 070432

Male (2) 37° Flare	Female 37° Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	7/16"-20	6602-4	4500	\$5.95
9/16"-18	9/16"-18	6602-6	4000	6.45
3/4"-16	3/4"-16	6602-8	4000	8.75
7/8"-14	7/8"-14	6602-10	3000	12.80
1-1/16"-12	1-1/16"-12	6602-12	3000	15.30
1-5/16"-12	1-5/16"-12	6602-16	2500	26.15
1-5/8"-12	1-5/8"-12	6602-20	2000	54.65



male 37° flare x male NPTF branch tees

• reference SAE070425

Male 37° Flare (2)	Male NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/4"-18	2601-4-4-4	5000	\$5.40
9/16"-18	1/4"-18	2601-6-6-4	5000	4.75
9/16"-18	3/8"-18	2601-6-6-6	4000	7.10
3/4"-16	1/2"-14	2601-8-8-8	3000	8.55
7/8"-14	1/2"-14	2601-10-10-8	3000	9.70
1-1/16"-12	3/4"-14	2601-12-12-12	2500	13.40
1-5/16"-12	1"-11½	2601-16-16-16	2000	21.45



SAE / JIC Fittings

JIC caps

- reference SAE 070112



JIC Cap Nut	Tube OD	Zinc Plated Steel		
		Part #	PSI	Price/E
5/16"-24	1/8"	0304C-2	5000	\$1.55
7/16"-20	1/4"	0304C-4	5000	0.85
9/16"-18	3/8"	0304C-6	5000	0.95
3/4"-16	1/2"	0304C-8	4500	1.35
7/8"-14	5/8"	0304C-10	3500	1.65
1-1/16"-12	3/4"	0304C-12	3500	2.45
1-5/16"-12	1"	0304C-16	3000	3.55
1-5/8"-12	1-1/4"	0304C-20	2500	7.10
1-7/8"-12	1-1/2"	0304C-24	2000	15.85
2-1/2"-12	2"	0304C-32	1500	24.10

tube nuts



JIC 37°	Zinc Plated Steel		
	Part #	PSI	Price/E
7/16"-20	0318-4	5000	\$0.85
9/16"-18	0318-6	5000	1.05
3/4"-16	0318-8	4500	1.55
7/8"-14	0318-10	3500	1.90
1-1/16"-12	0318-12	3500	2.55
1-5/16"-12	0318-16	3000	3.45

JIC screw thread plugs



Thread Size	Zinc Plated Steel		
	Part #	PSI	Price/E
5/16"-24	1254-02H	5000	\$1.55
7/16"-20	1254-04H	5000	1.15
9/16"-18	1254-06H	5000	1.20
3/4"-16	1254-08H	4500	1.40
7/8"-14	1254-10H	3500	2.75
1-1/16"-12	1254-12H	3500	2.85
1-5/16"-12	1254-16H	3000	4.00
1-5/8"-12	1254-20H	2500	6.80

tube sleeves



JIC 37°	Zinc Plated Steel		
	Part #	PSI	Price/E
7/16"-20	0319-4	5000	\$0.55
9/16"-18	0319-6	5000	0.70
3/4"-16	0319-8	4500	0.80
7/8"-14	0319-10	3500	1.05
1-1/16"-12	0319-12	3500	1.35
1-5/16"-12	0319-16	3000	2.45

bulkhead union with lock nut

- reference SAE 070601



Male 37° Flare	Zinc Plated Steel		
	Part #	PSI	Price/E
7/16"-20	2700LN-4	5000	\$3.40
9/16"-18	2700LN-6	5000	3.70
3/4"-16	2700LN-8	4500	5.65
7/8"-14	2700LN-10	3500	7.45
1-1/16"-12	2700LN-12	3500	9.60
1-5/16"-12	2700LN-16	3000	13.65

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SAE / JIC Fittings

90° bulkhead elbow with lock nut

- reference SAE 070701

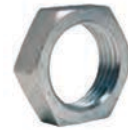
Male 37° Flare	Zinc Plated Steel		
	Part #	PSI	Price/E
7/16"-20	2701LN-4	5000	\$4.50
9/16"-18	2701LN-6	5000	5.35
3/4"-16	2701LN-8	4500	8.80
7/8"-14	2701LN-10	3500	12.45
1-1/16"-12	2701LN-12	3500	13.85
1-5/16"-12	2701LN-16	3000	19.65



bulkhead lock nuts

- reference SAE 070118

Bulkhead Lock Nut	Tube OD	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/4"	0306-4	5000	\$0.55
9/16"-18	3/8"	0306-6	5000	0.60
3/4"-16	1/2"	0306-8	4500	0.85
7/8"-14	5/8"	0306-10	3500	0.95
1-1/16"-12	3/4"	0306-12	3500	1.45
1-5/16"-12	1"	0306-16	3000	2.05



NPT Fittings

male NPTF hex pipe nipples

- reference SAE 140137



Male NPTF Pipe	Male NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/8"-27	1/8"-27	5404-2	5000	\$1.15
1/4"-18	1/4"-18	5404-4	5000	1.35
3/8"-18	3/8"-18	5404-6	4000	2.00
3/8"-18	1/4"-18	5404-6-4	4000	1.90
1/2"-14	1/2"-14	5404-8	3000	2.60
1/2"-14	3/8"-18	5404-8-6	3000	2.50
3/4"-14	3/4"-14	5404-12	2500	4.05
3/4"-14	1/2"-14	5404-12-8	2500	3.80
1"-11½	1"-11½	5404-16	2000	6.35
1"-11½	3/4"-14	5404-16-12	2000	6.00
1-1/4"-11½	1-1/4"-11½	5404-20	1150	14.10

male NPTF x female NPTF hex reducer bushings



Male NPTF Pipe	Female NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/8"-27	5406-4-2	5000	\$1.45
3/8"-18	1/8"-27	5406-6-2	4000	1.60
3/8"-18	1/4"-18	5406-6-4	4000	1.60
1/2"-14	1/8"-27	5406-8-2	3000	2.60
1/2"-14	1/4"-18	5406-8-4	3000	2.55
1/2"-14	3/8"-18	5406-8-6	3000	2.55
3/4"-14	1/8"-27	5406-12-2	2500	4.35
3/4"-14	1/4"-18	5406-12-4	2500	4.20
3/4"-14	3/8"-18	5406-12-6	2500	3.85
3/4"-14	1/2"-14	5406-12-8	2500	3.85
1"-11½	1/4"-18	5406-16-4	2000	7.50
1"-11½	3/8"-18	5406-16-6	2000	7.50
1"-11½	1/2"-14	5406-16-8	2000	7.25
1"-11½	3/4"-14	5406-16-12	2000	7.25
1-1/4"-11½	3/8"-18	5406-20-6	1150	14.75
1-1/4"-11½	1/2"-14	5406-20-8	1150	14.75
1-1/4"-11½	3/4"-14	5406-20-12	1150	14.75
1-1/4"-11½	1"-11½	5406-20-16	1150	13.90
1-1/2"-11½	1/2"-14	5406-24-8	1000	21.05
1-1/2"-11½	3/4"-14	5406-24-12	1000	16.80
1-1/2"-11½	1"-11½	5406-24-16	1000	16.80
1-1/2"-11½	1-1/4"-11½	5406-24-20	1000	18.10
2"-11½"	1/2"-14	5406-32-8	1000	66.25
2"-11½"	3/4"-14	5406-32-12	1000	37.35
2"-11½"	1"-11½	5406-32-16	1000	37.35
2"-11½"	1-1/4"-11½	5406-32-20	1000	37.35
2"-11½"	1-1/2"-11½	5406-32-24	1000	37.35

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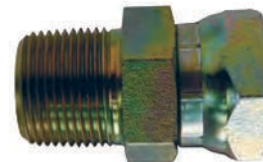
NPT Fittings

Features:

- designed to prevent hose stress due to twisting during assembly
- female NPSM swivel seals on a 30° seat
- compact design provides ease of assembly in confining areas
- male NPTF must have a 30° chamfer to seal

male NPTF x female NPSM swivel nut

Male NPTF	Female NPSM Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
1/8"-27	1/8"-27	1404-2-2	5000	\$2.55
1/8"-27	1/4"-18	1404-2-4	4500	3.10
1/4"-18	1/4"-18	1404-4-4	4500	2.90
1/4"-18	3/8"-18	1404-4-6	4000	3.85
3/8"-18	1/4"-18	1404-6-4	4000	3.90
3/8"-18	3/8"-18	1404-6-6	4000	3.80
3/8"-18	1/2"-14	1404-6-8	4000	5.10
1/2"-14	3/8"-18	1404-8-6	3000	4.90
1/2"-14	1/2"-14	1404-8-8	3000	4.75
1/2"-14	3/4"-14	1404-8-12	3000	9.30
3/4"-14	1/2"-14	1404-12-8	2500	8.80
3/4"-14	3/4"-14	1404-12-12	2500	8.55
1"-11½	1"-11½	1404-16-16	2000	11.55
1-1/4"-11½	1-1/4"-11½	1404-20-20	1150	23.95
1-1/2"-11½	1-1/2"-11½	1404-24-24	1000	38.25
2"-11½	2"-11½	1404-32-32	1000	54.15



female NPTF hex pipe couplings

- reference SAE 140138

Female NPTF Pipe	Female NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/8"-27	1/8"-27	5000-2	5000	\$1.60
1/4"-18	1/4"-18	5000-4	5000	2.00
3/8"-18	1/4"-18	5000-6-4	4000	2.65
3/8"-18	3/8"-18	5000-6	4000	2.45
1/2"-14	3/8"-18	5000-8-6	3000	3.70
1/2"-14	1/2"-14	5000-8	3000	3.40
3/4"-14	3/4"-14	5000-12	2500	4.45
1"-11½	3/4"-14	5000-16-12	2000	9.30
1"-11½	1"-11½	5000-16	2000	8.75
1-1/4"-11½	1-1/4"-11½	5000-20	1150	20.70



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female NPTF x female NPSM swivel nut

Female NPTF	Female NPSM Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
1/8"-27	1/8"-27	1405-2-2	5000	\$3.55
1/4"-18	1/4"-18	1405-4-4	4500	3.75
3/8"-18	1/4"-18	1405-6-4	4000	5.00
3/8"-18	3/8"-18	1405-6-6	4000	5.55
3/8"-18	1/2"-14	1405-6-8	4000	6.10
1/2"-14	1/2"-14	1405-8-8	3000	5.95
3/4"-14	1/2"-14	1405-12-8	2500	8.05
3/4"-14	3/4"-14	1405-12-12	2500	10.55
1"-11½	1"-11½	1405-16-16	2000	16.40
1-1/4"-11½	1-1/4"-11½	1405-20-20	1150	27.10
1-1/2"-11½	1-1/2"-11½	1405-24-24	1000	27.50
2"-11½	2"-11½	1405-32-32	1000	72.25



90° male pipe elbows

Male NPTF Pipe	Male NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-18	5500-4	5000	\$3.45
3/8"-18	3/8"-18	5500-6	4000	4.25
1/2"-14	1/2"-14	5500-8	3000	6.05
3/4"-14	3/4"-14	5500-12	2500	10.00
1"-11½	1"-11½	5500-16	2000	12.55



NPT Fittings

male NPTF x female NPTF 90° street elbows

• reference 140239



Male NPTF Pipe	Female NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-18	5502-4	5000	\$5.55
3/8"-18	3/8"-18	5502-6	4000	6.45
1/2"-14	1/2"-14	5502-8	3000	7.35
3/4"-14	3/4"-14	5502-12	2500	10.35
1"-11½	1"-11½	5502-16	2000	16.70
1-1/4"-11½	1-1/4"-11½	5502-20	1150	23.70

90° male NPTF x female NPSM swivel nut



Male NPTF	Female NPSM Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
1/8"-27	1/8"-27	1501-2-2	5000	\$4.00
1/4"-18	1/4"-18	1501-4-4	4500	4.45
1/4"-18	3/8"-18	1501-4-6	4000	6.20
3/8"-18	1/4"-18	1501-6-4	4000	6.45
3/8"-18	3/8"-18	1501-6-6	4000	6.70
3/8"-18	1/2"-14	1501-6-8	4000	7.45
1/2"-14	3/8"-18	1501-8-6	3000	6.85
1/2"-14	1/2"-14	1501-8-8	3000	8.25
1/2"-14	3/4"-14	1501-8-12	3000	11.85
3/4"-14	1/2"-14	1501-12-8	2500	12.00
3/4"-14	3/4"-14	1501-12-12	2500	13.85
3/4"-14	1"-11½	1501-12-16	2000	21.20
1"-11½	3/4"-14	1501-16-12	2000	20.80
1"-11½	1"-11½	1501-16-16	2000	18.20
1"-11½	1-1/4"-11½	1501-16-20	1150	37.60
1-1/4"-11½	1-1/4"-11½	1501-20-20	1150	34.15

90° female pipe elbows



Female NPTF Pipe	Female NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-18	5504-4	5000	\$3.15
3/8"-18	3/8"-18	5504-6	4000	4.75
1/2"-14	1/2"-14	5504-8	3000	7.80
3/4"-14	3/4"-14	5504-12	2500	11.50
1"-11 1/2	1"-11 1/2	5504-16	2000	18.65

90° female NPTF x female NPSM swivel nut



Female NPTF	Female NPSM Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-18	1502-4-4	4500	\$6.30
3/8"-18	3/8"-18	1502-6-6	4000	7.45
1/2"-14	1/2"-14	1502-8-8	3000	10.35
3/4"-14	3/4"-14	1502-12-12	2500	12.45
1"-11½	1"-11½	1502-16-16	2000	21.55

45° male NPTF x female NPSM swivel nut



Male NPTF	Female NPSM Swivel	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-18	1503-4-4	4500	\$4.50
3/8"-18	3/8"-18	1503-6-6	4000	6.50
1/2"-14	1/2"-14	1503-8-8	3000	8.65
3/4"-14	3/4"-14	1503-12-12	2500	10.80
1"-11½	1"-11½	1503-16-16	2000	16.85

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NPT Fittings

male pipe tees

Male (3) NPTF Pipe	Zinc Plated Steel		
	Part #	PSI	Price/E
1/4"-18	5600-4	5000	\$5.90
3/8"-18	5600-6	4000	10.45
1/2"-14	5600-8	3000	12.95
3/4"-14	5600-12	2500	16.20
1"-11½	5600-16	2000	23.50



pipe tees

Male (2) NPTF Pipe	Female NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-18	5601-4	5000	\$8.30
3/8"-18	3/8"-18	5601-6	4000	10.20
1/2"-14	1/2"-14	5601-8	3000	12.70
3/4"-14	3/4"-14	5601-12	2500	20.55
1"-11½	1"-11½	5601-16	2000	32.05



branch tees

Female (2) NPTF Pipe	Male NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-18	5604-4	5000	\$7.00
3/8"-18	3/8"-18	5604-6	4000	9.95
1/2"-14	1/2"-14	5604-8	3000	13.55
3/4"-14	3/4"-14	5604-12	2500	18.60
1"-11½	1"-11½	5604-16	2000	29.95



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female NPTF pipe tees

- reference 140438

Female (3) NPTF Pipe	Zinc Plated Steel		
	Part #	PSI	Price/E
1/4"-18	5605-4	5000	\$8.45
3/8"-18	5605-6	4000	10.35
1/2"-14	5605-8	3000	11.60
3/4"-14	5605-12	2500	17.30
1"-11½	5605-16	2000	27.45



male NPTF x female NPTF run tees

- reference 140424

Male NPTF Pipe	Female (2) NPTF Pipe	Zinc Plated Steel		
		Part #	PSI	Price/E
1/8"-27	1/8"-27	5602-2	5000	\$4.60
1/4"-18	1/4"-18	5602-4	5000	5.70
3/8"-18	3/8"-18	5602-6	4000	10.35
1/2"-14	1/2"-14	5602-8	3000	13.50
3/4"-14	3/4"-14	5602-12	2500	16.95
1"-11½	1"-11½	5602-16	2000	30.25
1-1/4"-11½	1-1/4"-11½	5602-20	1150	44.85
1-1/2"-11½	1-1/2"-11½	5602-24	1000	279.95



NPT Fittings

female NPTF hex caps



Female NPTF Pipe	Zinc Plated Steel		
	Part #	PSI	Price/E
1/8"-27	5406C-2	5000	\$1.45
1/4"-18	5406C-4	5000	1.85
3/8"-18	5406C-6	4000	2.65
1/2"-14	5406C-8	3000	4.20
3/4"-14	5406C-12	2500	6.35
1"-11½	5406C-16	2000	9.65
1-1/4"-11½	5406C-20	1150	49.15
1-1/2"-11½	5406C-24	1000	66.60

male NPT hex plug



Thread Size	Zinc Plated Steel		
	Part #	PSI	Price/E
1/8"-27	1251-02H	5000	\$0.50
1/4"-18	1251-04H	5000	0.85
3/8"-18	1251-06H	4000	1.50
1/2"-14	1251-08H	3000	2.45
3/4"-14	1251-12H	2500	3.80
1"-11½	1251-16H	2000	7.05
1-1/4"-11½	1251-20H	1150	8.30

Metric Fittings

male 37° flare x male metric parallel thread

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SAE 37° Male	Male Metric Thread	Zinc Plated Steel	
		Part #	Price/E
7/16"-20	M10X1.0	M7400-4-10	\$3.50
7/16"-20	M12X1.5	M7400-4-12	3.65
9/16"-18	M14X1.5	M7400-6-14	3.85
9/16"-18	M16X1.5	M7400-6-16	4.30
3/4"-16	M16X1.5	M7400-8-16	4.45
3/4"-16	M18X1.5	M7400-8-18	5.65
1-1/16"-12	M22X1.5	M7400-12-22	6.45
1-1/16"-12	M27X2.0	M7400-12-27	7.85
1-5/16"-12	M33X2.0	M7400-16-33	11.80

female NPTF pipe x male metric parallel thread



Female NPTF	Male Metric Thread	Zinc Plated Steel	
		Part #	Price/E
1/4"-18	M12X1.5	M7455-4-12	\$3.85
1/4"-18	M14X1.5	M7455-4-14	4.00
3/8"-18	M16X1.5	M7455-6-16	4.30
3/8"-18	M18X1.5	M7455-6-18	5.65
1/2"-14	M16X1.5	M7455-8-16	7.15
1/2"-14	M18X1.5	M7455-8-18	7.15
1/2"-14	M22X1.5	M7455-8-22	7.50
3/4"-14	M27X2.0	M7455-12-27	11.25
1"-11 1/2	M33X2.0	M7455-16-33	12.50

BSPT Fittings

male 37° flare x male BSPP

SAE 37° Male	Male British Parallel	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/4"-19	B3800-4-4	5000	\$3.30
9/16"-18	3/8"-19	B3800-6-6	4000	3.60
3/4"-16	1/2"-14	B3800-8-8	3000	4.90
1-1/16"-12	3/4"-14	B3800-12-12	2500	9.05
1-5/16"-12	1"-11	B3800-16-16	2000	10.60



male NPTF pipe x male BSPP

Male NPTF	Male British Parallel	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-19	B3401-4-4	5000	\$3.30
3/8"-18	3/8"-19	B3401-6-6	4000	3.70
1/2"-14	1/2"-14	B3401-8-8	3000	4.60
3/4"-14	3/4"-14	B3401-12-12	2500	7.80
1"-11 1/2	1"-11	B3401-16-16	2000	11.60



female NPTF pipe x male BSPP

Female NPTF	Male British Parallel	Zinc Plated Steel		
		Part #	PSI	Price/E
1/4"-18	1/4"-19	B3455-4-4	5000	\$3.85
3/8"-18	3/8"-19	B3455-6-6	4000	4.30
1/2"-14	1/2"-14	B3455-8-8	3000	7.15
3/4"-14	3/4"-14	B3455-12-12	2500	10.60
1"-11 1/2	1"-11	B3455-16-16	2000	13.30



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male 37° flare x male BSPP 90° Elbow

SAE 37° Male	Male British Parallel	Zinc Plated Steel		
		Part #	PSI	Price/E
7/16"-20	1/4"-19	B3801-4-4	5000	\$6.80
9/16"-18	3/8"-19	B3801-6-6	4000	8.15
3/4"-16	1/2"-14	B3801-8-8	3000	11.80
1-1/16"-12	3/4"-14	B3801-12-12	2500	19.40
1-5/16"-12	1"-11	B3801-16-16	2000	32.50



bonded doughy seal for British Thread

Bonded Seal	Plated Carbon Steel with Buna O-ring	
	Part #	Price/E
1/4"	BDS04	\$1.25
3/8"	BDS06	1.50
1/2"	BDS08	1.80
3/4"	BDS12	2.30
1"	BDS16	3.50



Steel Flow Control Valves

Series F

Features:

- Two-step needle provides fine adjustments at low flow with the first three turns of the adjusting knob. The next three turns give full-open needle position and conventional throttling control. When flow is reversed, the heavy-duty poppet/retainer permits full-flow return capacity.
- Exclusive color-coded reference scale on the adjusting knob greatly simplifies flow setting, resetting, adjusting and return to an original flow. A simple set screw locks the valve on any desired setting.
- maximum operating pressure: **5000 PSI** at 70°F for 1/8" - 1/2", **3000 PSI** at 70°F for 3/4" - 2"
- also available in brass, see page 140



Thread Size	Black Oxide Steel	
	Part #	Price/E
1/8"	SFC200	\$65.00
1/4"	SFC400	75.50
3/8"	SFC600	93.25
1/2"	SFC800	125.70
3/4"	SFC1200	179.00
1"	SFC1600	550.00
1 1/2"	SFC2400	1435.00
2"	SFC3200	2843.50

Series PF

Application: Recommended for use in non-shock applications.

Features:

- ball type check meters the flow of hydraulic oil in one direction and allows for free flow in the reverse direction
- maximum operating pressure: **5000 PSI** at 70°F, **5 PSI** cracking pressure
- also available in brass, see page 140



Thread Size	Zinc Plated Steel with a dichromate seal	
	Part #	Price/E
1/4"	SPF400	\$53.30
3/8"	SPF600	71.00
1/2"	SPF800	92.35

Series N

K Application: Ideal for use as speed control on hydraulic systems where a reverse flow check valve is not needed.

Features:

- Provides excellent control and reliable shutoff in a very small envelope. Color-coded reference scale on the adjusting knob simplifies setting, resetting, adjusting and quick return to a previous speed setting.
- maximum operating pressure: **5000 PSI** at 70°F for 1/8" - 3/4", **3000 PSI** at 70°F for 1" - 1 1/4"
- also available in brass, see page 140



Thread Size	Steel	
	Part #	Price/E
1/8"	SN200	\$69.00
1/4"	SN400	78.40
3/8"	SN600	94.30
1/2"	SN800	121.00
3/4"	SN1200	161.10
1"	SN1600	686.25
1 1/4"	SN2000	950.00

Series MV

Features:

- easily make fine adjustments and reset with the color code 5000 that shows when desired setting is reached
- body components are precision-turned from solid barstock
- all models have 416 stainless steel needles
- maximum operating pressure: **5000 PSI** at 70°F



Thread Size	Steel	
	Part #	Price/E
1/4"	SMV400	\$77.50
3/8"	SMV600	164.50
1/2"	SMV800	206.75

Series C Check Valves

Features:

- Provides free flow in one direction and dependable shutoff in the opposite direction.
- maximum operating pressure: **5000 PSI** at 70°F, **5 PSI** cracking pressure
- also available in brass, see page 140



Thread Size	Free Flow GPM	Steel	
		Part #	Price/E
1/8"	3	SCV200	\$52.50
1/4"	5	SCV400	57.25
3/8"	8	SCV600	67.10
1/2"	15	SCV800	77.80

High Pressure Full-Bore Ball Valves

Features:

- blow out proof stem
- rugged construction
- Viton® seals
- stainless steel valves have Delrin® seats
- female thread

Size	PSI	Carbon Steel				PSI	316 Stainless Steel	
		NPTF Part #	Price/E	SAE Part #	Price/E		NPTF Part #	Price/E
1/4"	7350	HPBV25	\$63.90	HPBV25SAE	\$71.65	5880	HPBV25SS	\$427.50
3/8"	7350	HPBV38	67.80	HPBV38SAE	80.70	5880	HPBV38SS	497.50
1/2"	7350	HPBV12	73.70	HPBV12SAE	87.10	5880	HPBV12SS	595.00
3/4"	5880	HPBV34	145.05	HPBV34SAE	162.20	5145	HPBV34SS	1027.90
1"	5145	HPBV10	173.10	HPBV10SAE	190.00	5145	HPBV10SS	1212.80
1 1/4"	5880	HPBV125	452.90	HPBV125SAE	490.20	---	---	---
1 1/2"	5880	HPBV150	548.90	HPBV150SAE	583.00	---	---	---
2"	5880	HPBV200	831.00	HPBV200SAE	870.00	---	---	---



Mini Needle Valves

Features:

- available in a variety of materials, and handle options
- A Viton® O-ring seal and a PTFE back-up ring below the threads protects the mini valve from corrosion and galling.
- The stem threads are rolled for strength and ease of operation, and the metal-to-metal hard seat design is 100% helium leak tested to 1 x 10⁻⁴ ml/s at 200 PSI on each mini valve.
- 1/8" and 1/4": orifice size: 0.172", flow coefficient: 0.42
- 1/2": orifice size: 0.187", flow coefficient: 0.44
- O-ring seal: Viton®
- back-up ring: PTFE

Male to Female

NPT Size	Handle Style	PSI at 70°F	Material	Part #	Price/E
1/8" - 27	knurled knob	6000	brass	MFB101	\$56.50
1/4" - 18	knurled knob	6000	brass	MFB102	56.50
1/8" - 27	T design	10000	nickel plated steel	MFC101	46.75
1/4" - 18	T design	10000	nickel plated steel	MFC102	46.75
1/2" - 14	T design	10000	nickel plated steel	MFC404	65.50
1/8" - 27	T design	10000	316 stainless steel	MFS101	107.25
1/4" - 18	T design	10000	316 stainless steel	MFS102	107.25
1/2" - 14	T design	10000	316 stainless steel	MFS404	166.75



Female to Female

NPT Size	Handle Style	PSI at 70°F	Material	Part #	Price/E
1/8" - 27	knurled knob	6000	brass	FFB101	\$56.50
1/4" - 18	knurled knob	6000	brass	FFB102	56.50
1/8" - 27	T design	10000	nickel plated steel	FFC101	46.75
1/4" - 18	T design	10000	nickel plated steel	FFC102	46.75
1/2" - 14	T design	10000	nickel plated steel	FFC404	62.60
1/8" - 27	T design	10000	316 stainless steel	FFS101	107.25
1/4" - 18	T design	10000	316 stainless steel	FFS102	107.25
1/2" - 14	T design	10000	316 stainless steel	FFS404	158.00



K

NEW
FOR 2013

Pipe and Tube Clamps

Applications:

- use for standard hydraulics, general pipe construction, electric cables, etc.

Features:

- clamps are welded in place to secure the pipe or tubing
- polypropylene cushions reduce wear due to vibration
- *Standard and twin series clamps* are recommended for systems with less than 1500 PSI without dynamic loads.
- *Heavy duty clamps* are recommended for systems with greater than 1500 PSI operating pressure.
- kit includes clamp with weld plate, cover plate and bolts

standard series clamps

Part #	Size	Length	Width	Height	Price/E
<i>HST02P</i>	1/8" pipe	1.65"	1.18"	1.30"	5.50
<i>HST04P</i>	1/4" pipe	1.89"	1.18"	1.54"	6.55
<i>HST04T</i>	1/4" tube	1.65"	1.18"	1.30"	5.50
<i>HST05T</i>	5/16" tube	1.65"	1.18"	1.30"	5.50
<i>HST06P</i>	3/8" pipe	1.89"	1.18"	1.54"	6.55
<i>HST06T</i>	3/8" tube	1.65"	1.18"	1.30"	5.50
<i>HST08P</i>	1/2" pipe	2.17"	1.18"	1.61"	7.30
<i>HST08T</i>	1/2" tube	1.89"	1.18"	1.54"	6.55
<i>HST10T</i>	5/8" tube	1.89"	1.18"	1.54"	6.55
<i>HST12P</i>	3/4" pipe	2.44"	1.18"	1.89"	7.30
<i>HST12T</i>	3/4" tube	2.17"	1.18"	1.61"	6.95
<i>HST14T</i>	7/8" tube	2.17"	1.18"	1.61"	6.95
<i>HST16P</i>	1" pipe	2.91"	1.18"	2.52"	8.65
<i>HST16T</i>	1" tube	2.17"	1.18"	1.61"	6.95
<i>HST20P</i>	1-1/4" pipe	2.91"	1.18"	2.52"	8.65
<i>HST20T</i>	1-1/4" tube	2.91"	1.18"	2.52"	8.65
<i>HST24P</i>	1-1/2" pipe	3.46"	1.18"	2.83"	12.00
<i>HST24T</i>	1-1/2" tube	2.91"	1.18"	2.52"	8.70
<i>HST32T</i>	2" tube	3.46"	1.18"	2.83"	12.00

**twin series clamps**

Part #	Size	Length	Width	Height	Price/E
<i>HTW02P</i>	1/8" pipe	1.46"	1.18"	1.36"	6.70
<i>HTW04P</i>	1/4" pipe	1.46"	1.18"	1.36"	7.05
<i>HTW04T</i>	1/4" tube	1.46"	1.18"	1.36"	6.70
<i>HTW05T</i>	5/16" tube	1.46"	1.18"	1.36"	6.70
<i>HTW06P</i>	3/8" pipe	2.17"	1.18"	1.42"	7.05
<i>HTW06T</i>	3/8" tube	1.46"	1.18"	1.36"	6.70
<i>HTW08P</i>	1/2" pipe	2.76"	1.18"	1.85"	7.25
<i>HTW08T</i>	1/2" tube	2.17"	1.18"	1.42"	7.05
<i>HTW10T</i>	5/8" tube	2.17"	1.18"	1.42"	7.05
<i>HTW12P</i>	3/4" pipe	3.35"	1.18"	2.05"	8.65
<i>HTW12T</i>	3/4" tube	2.76"	1.18"	1.85"	7.25
<i>HTW14T</i>	7/8" tube	2.76"	1.18"	1.85"	7.25
<i>HTW16P</i>	1" pipe	4.33"	1.18"	2.52"	11.00
<i>HTW16T</i>	1" tube	2.76"	1.18"	1.85"	7.25
<i>HTW20P</i>	1-1/4" pipe	4.33"	1.18"	2.52"	11.00
<i>HTW20T</i>	1-1/4" tube	4.33"	1.18"	2.52"	11.00
<i>HTW24T</i>	1-1/2" tube	4.33"	1.18"	2.52"	11.00

K**heavy duty series clamps**

Part #	Size	Length	Width	Height	Price/E
<i>HHD02P</i>	1/8" pipe	2.87"	1.18"	1.89"	14.25
<i>HHD04P</i>	1/4" pipe	2.87"	1.18"	1.89"	14.25
<i>HHD04T</i>	1/4" tube	2.87"	1.18"	1.89"	14.25
<i>HHD05T</i>	5/16" tube	2.87"	1.18"	1.89"	14.25
<i>HHD06P</i>	3/8" pipe	2.87"	1.18"	1.89"	14.25
<i>HHD06T</i>	3/8" tube	2.87"	1.18"	1.89"	14.25
<i>HHD08P</i>	1/2" pipe	3.35"	1.18"	2.52"	16.25
<i>HHD08T</i>	1/2" tube	2.87"	1.18"	1.89"	14.25
<i>HHD10T</i>	5/8" tube	2.87"	1.18"	1.89"	14.25
<i>HHD12P</i>	3/4" pipe	3.35"	1.18"	2.52"	16.25
<i>HHD12T</i>	3/4" tube	3.35"	1.18"	2.52"	16.25
<i>HHD14T</i>	7/8" tube	3.35"	1.18"	2.52"	16.25
<i>HHD16P</i>	1" pipe	3.94"	1.18"	2.99"	17.30
<i>HHD16T</i>	1" tube	3.35"	1.18"	2.52"	16.25
<i>HHD20P</i>	1-1/4" pipe	5.51"	1.77"	4.33"	45.00
<i>HHD20T</i>	1-1/4" tube	3.94"	1.18"	2.99"	17.30
<i>HHD24P</i>	1-1/2" pipe	5.51"	1.77"	4.33"	45.00
<i>HHD24T</i>	1-1/2" tube	3.94"	1.18"	2.99"	17.30
<i>HHD32P</i>	2" pipe	5.51"	1.77"	4.33"	45.00
<i>HHD32T</i>	2" tube	5.51"	1.77"	4.33"	45.00



Holedall Coupling Machines

Rams securely attach Holedall couplings to hose. Five machines meet every hose service requirement. Rams, are powerful finely engineered machines designed specifically to externally swage and internally expand Holedall couplings by hydraulic pressure. Since each ram generates all the hydraulic pressure required to attach the Holedall coupling, one person can easily operate the equipment.

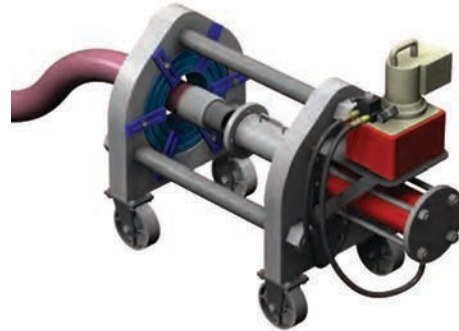
15 Ton Ram



Features:

Specially designed ram for internally expanded couplings only. Bench mounted model (optional stand available), producing up to 10,000 PSI, for up to 15 tons of ram force. Capable of expanding 1" through 3" steel fittings and 5/8" through 4" brass Holedall Petroleum fittings. The motor is 1/2 h.p., 115 volt 60 cycle, single phase with foot pedal.

100 Ton Ram



Features:

Used for externally swaging Holedall fittings to hose from 1 1/4" through 10" ID. With optional accessories, this ram may be used for internally expanded couplings on hose from 1" through 6". This machine is capable of producing up to 100 tons of ram force. A 1-1/8 h.p., 115 volt, 60 cycle, single phase motor is standard with remote, (220/440 volt motors are available).

25 Ton Ram



Features:

Free standing model producing up to 10,000 PSI of line pressure for up to 25 tons of ram force. Capable of external swaging 1/4" through 4" ID hose and internal expanding 5/8" through 4" ID hose, with proper equipment. The motor is 1/2 h.p., 115 volt 60 cycle, single phase with foot pedal. High speed pump kit option is available.

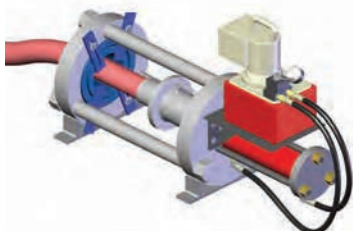
350 Ton Ram



Features:

Used for externally swaging Holedall and Rotary fittings. This ram is capable of producing up to 354 tons of ram force for swaging. A 14" 150 lb. flange will fit through the bed plate. This ram has 36" of stroke. A 12.5 h.p., 230 volt, 60Hz, 3 phase motor is standard with remote.

50 Ton Ram



Features:

Bench mounted model (optional stand available), producing up to 10,000 PSI, for up to 50 tons of ram force. Capable of external swaging 1 1/4" through 6" ID hose and internal expanding 5/8" through 6" ID hose, with proper equipment. A 1-1/8 h.p., 115 volt, 60 cycle, single phase motor is standard with remote, (220/440 volt motors are available).



All Rams require dies of the proper size to reduce the ferrule to the proper diameter for a good grip on the hose. Pushers of the proper size must be used on the end of the Ram to push the Holedall fitting through the die. Die and pusher selection depends on the sizes and types of hoses being coupled. Ferrule recommendations and a Die Chart binder are available upon request. Consult your Dixon representative for specific details.

Recommended Working Pressures



Holedall couplings, regardless of coupling style, are never to be used for steam service at any pressure. Holedall fittings listed below are not to be used with cable reinforced high-pressure hose, 4 or 6 braid wire hydraulic hose or any other service not listed in recommendations. In addition, Internally Expanded Holedall couplings are not to be used with plastic lined chemical hose. Consult Dixon for recommendations on usage.

Holedall couplings (Externally Swaged), to perform satisfactorily, must be applied properly in accordance with Dixon's assembly procedures, using correct die and ferrule for that particular hose end OD. Dixon's Die and Ferrule Recommendation Guide is to be used to select correct dies and ferrules. If you do not have the updated Die and Ferrule Recommendation Guide, consult the Dixon factory. Strict adherence to ferrule OD range (Internally Expanded) for each hose end to be assembled is essential for satisfactory performance.

Note: Hose service working pressure (including surges and spikes) is never to exceed the maximum recommended working pressure for the fitting (reference chart below)*. Media being transported through the hose should be compatible with the stem material. Compatibility of ferrule material with the environment in which it will be used is recommended. Consult Compatibility Chart on pages 694-699 or the Dixon factory for material compatibility. For applications other than the ones listed, please consult the Dixon factory.

Size	Externally Swaged				Internally Expanded			
	Standard Fittings ¹	Long Style Fittings ¹	Light Duty Fittings		Holedall II Fittings ¹	Cam and Groove ¹	Internally Expanded ¹	Flow Chief / Crimp Sanitary Fittings ¹
			NO Notched Fittings ¹	NOS Notched Short Fittings ¹				
	TM, TP, TG, TMR, TPR, TGR	TML, TPL, TGL	TM, TP, TG, RN•••NO	RST•••NOS, STC•••NOS, GAS•••NOS	FW		IXM, IXV, IXH	IXSE, IXFS, IXMS, CSSR
3/4"	---	---	---	---	---	---	---	---
1"	---	---	---	---	---	250	---	---
1-1/4"	600	1,000	350	---	---	---	800	---
1-3/8"	---	---	---	---	---	---	---	---
1-1/2"	600	1,000	350	250	300	250	800	250
2"	600	1,000	350	250	300	250	800	250
2-1/2"	600	1,000	250	---	250	150	600	250
3"	600	1,000	250	250	200	125	600**	250
4"	500	850	250	***	200	100	500**	200
5"	450	750	---	---	---	---	---	---
6"	400	700	---	---	---	---	400	---
8"	350	600	---	---	---	---	---	---
10"	300	550	---	---	---	---	---	---

¹ maximum recommended working pressures, in PSI, at 70°F ambient temperature

* The assembly's (hose + coupling) maximum working pressure is the lesser of:

- 1) The hose rated working pressure, or
- 2) The coupling rated working pressure

** For hoses which use IXF48-3 to IXF48-5 and IXF64-2 to IXF64-5, consult the Dixon factory for working pressures.

See notes below for specific recommendations.

***Contact factory for pressure recommendations

Standard Fittings

Recommended for use on most one and two wire braid reinforced hoses, fiber reinforced (braided or spiraled) with or without helical wire such as: oil suction and discharge hose, barge and dock loading and unloading hose as well as L.P. gas hose, anhydrous ammonia hose, acid chemical hose and high pressure air and water hose.

Long Style Fittings

Recommended for use on hose as listed under standard fittings where additional retention is required due to higher working pressures or end pull. Consult maximum working pressure chart or call the Dixon factory.

Holedall II Fittings

Recommended for Royalflex 1193 and 1196 hose or hoses with similar construction, having helical wire for a given OD range.

Light Duty Fittings

Recommended for use in the same applications as standard fittings above where lower working pressures are encountered. Consult maximum working pressure chart or consult the Dixon factory.

Internally Expanded Fittings

Recommended for concrete placement, grout and plaster, food, dairy, pharmaceutical as well as other applications where increased flow capacity is important. Consult maximum working pressure chart or call the Dixon factory for additional application and working pressure information.

Holedall External Swage Coupling System

The Holedall coupling system provides outstanding strength, durability and safety.

The Holedall system is a method of attaching couplings to hose utilizing a progressive swage. The patented Holedall couplings include a Holedall stem and a specially engineered ferrule. The hydraulic swaging of the coupling to the hose is accomplished by pushing the ferrule through a die which reduces the ferrule OD, thus providing a 360° uninterrupted compression band around the hose.

A hydraulic ram is the only piece of machinery necessary to accomplish the coupling. Available in five different sizes - 15, 25, 50, 100 and 350 ton - these rams will accommodate dies and pushers of various sizes so that hoses up to 10" in diameter may be coupled.

This multi-purpose, high pressure coupling system requires no bolts and results in a clean coupling with no protrusions. The swaging operation is fast and hose of various lengths and different styles can be coupled. Ease of operation, flexibility and economy make the Holedall method an unequalled assembly system.

The Holedall coupling:

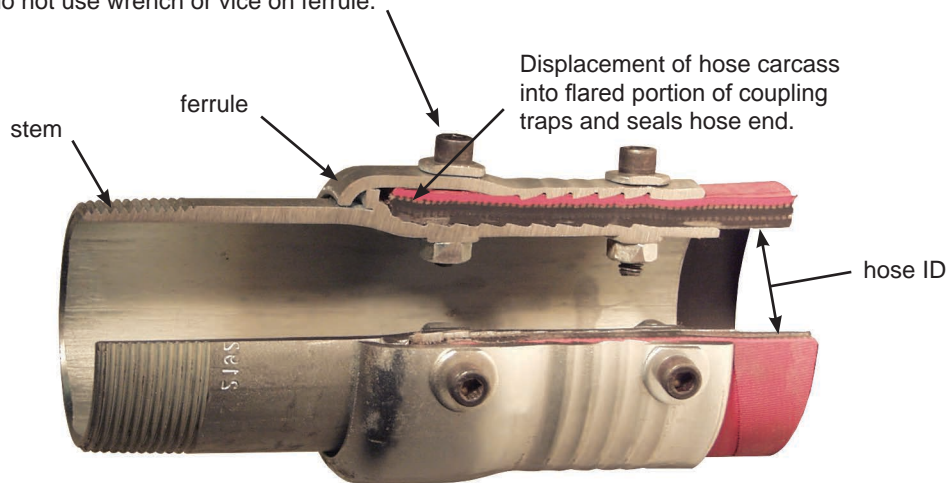
- provides long-lasting efficiency and safety.
- available in stainless steel and carbon steel.
- furnished with pipe thread, plain end, grooved or flanged ends.

Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.

Streamlined, lightweight coupling consisting of ferrule and stem.
No protrusions to snag on equipment.



Note: do not use wrench or vice on ferrule.



Cross-section of Holedall externally swaged assembly

External Swage Stems

Applications:

- Designed for hose ID's 1¼" - 10". The ferrule size depends on the hose OD. Consult the next page for selection of the correct ferrule. Stems are supplied in plated carbon steel and 316 stainless steel.
- for higher working pressure applications use long style stems and ferrules

Male Pipe Threaded (NPT) End



tubular type



investment cast design

Hose ID	Carbon Steel		316 Stainless		Long Style Carbon Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1¼"	TM20	\$48.20	TMR20	\$75.20	TML20	\$58.00
1½"	TM24	55.00	TMR24	72.40	TML24	65.90
2"	TM32	40.00	TMR32	83.40	TML32	57.10
2½"	TM40	74.90	TMR40	201.00	TML40	83.00
3"	TM48	70.00	TMR48	182.00	TML48	94.75
4"	TM64	85.80	TMR64	288.20	TML64	140.00
5"	TM80	241.00	---	---	TML80	400.00
6"	TM96	220.00	TMR96	705.00	TML96	341.00
8"	TM128	258.50	---	---	TML128	371.00
10"	TM160	557.75	---	---	TML160	680.00

Hose ID	316 Stainless Steel	
	Part #	Price/E
1½"	TMR24C	\$47.25
2"	TMR32C	55.00
3"	TMR48C	111.30

Note: product will be discontinued as inventory is depleted.

Beveled End for Welding



tubular type

Grooved End



tubular type

Hose ID	Carbon Steel		316 Stainless		Long Style Carbon Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1¼"	TP20	\$50.00	---	---	TPL20	\$62.00
1½"	TP24	55.00	---	---	TPL24	65.90
2"	TP32	40.00	TPR32	\$113.00	TPL32	57.10
2½"	TP40	74.90	---	---	TPL40	94.75
3"	TP48	70.00	TPR48	210.00	TPL48	94.75
4"	TP64	85.80	TPR64	320.00	TPL64	140.00
5"	TP80	241.00	---	---	TPL80	400.00
6"	TP96	220.00	---	---	TPL96	341.00
8"	TP128	258.50	---	---	TPL128	371.00
10"	TP160	580.00	---	---	TPL160	680.00

Hose ID	Carbon Steel		316 Stainless		Long Style Carbon Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1¼"	TG20	\$48.20	---	---	TGL20	POR
1½"	TG24	55.00	TGR24	\$72.40	TGL24	POR
2"	TG32	53.80	TGR32	83.40	TGL32	POR
2½"	TG40	85.00	TGR40	201.00	TGL40	POR
3"	TG48	81.10	TGR48	182.00	TGL48	POR
4"	TG64	91.25	TGR64	302.60	TGL64	POR
5"	TG80	241.00	---	---	TGL80	POR
6"	TG96	220.00	---	---	TGL96	POR
8"	TG128	258.50	---	---	TGL128	POR
10"	TG160	580.00	---	---	TGL160	POR

Female End



stem and ferrule - two piece design
1" sizes



stem and ferrule - one piece design
1¼" - 2" sizes

tubular type

Hose ID	Hose OD		Carbon Steel	
	from	to	Part #	Price/E
1"	1-30/64"	1-34/64"	TF16WF1-80	\$46.70
	1-34/64"	1-38/64"	TF16WF2-80	46.70
	1-35/64"	1-42/64"	TF16WF3-80	46.70
1¼"	1-44/64"	1-48/64"	TF20WF1-80 ¹	149.00
	1-49/64"	1-56/64"	TF20WF2-80 ¹	149.00
	1-57/64"	2"	TF20WF3-80 ¹	149.00
2"	2-36/64"	2-40/64"	TF32WF1-80 ¹	162.75
	2-41/64"	2-48/64"	TF32WF2-80 ¹	162.75
	2-49/64"	2-56/64"	TF32WF3-80 ¹	162.75

¹ Special pusher required for 1¼" and 2" sizes:

1¼" **25PUSH125-MOD**

2" **25PUSH200-MOD**

External Swage Ferrules

Features:

The selection of ferrules is very important to achieve the proper coupling-to-hose assembly.

- ferrules are plated carbon steel
- style F ferrules are used with all standard length male stems
- style FL ferrules are extra long and are used with all long style stems



Hose ID	Hose OD		Plated Carbon Steel		Long Style Plated Carbon Stl.	
	from	to	Part #	Price/E	Part #	Price/E
1 1/4"	1-44/64"	1-48/64"	F20-1	\$42.80	FL20-1	\$61.45
	1-49/64"	1-56/64"	F20-2	42.80	FL20-2	61.45
	1-57/64"	2"	F20-3	47.15	FL20-3	61.45
	2-1/64"	2-8/64"	F20-4	47.15	FL20-4	61.45
1 1/2"	1-58/64"	2"	F24-1	37.35	FL24-1	56.85
	2-1/64"	2-8/64"	F24-2	37.35	FL24-2	56.85
	2-9/64"	2-16/64"	F24-3	40.40	FL24-3	56.85
	2-17/64"	2-24/64"	F24-4	43.00	FL24-4	56.85
	2-25/64"	2-32/64"	F24-5	43.00	FL24-5	56.85
2"	2-28/64"	2-40/64"	F32-1	38.00	FL32-1	57.00
	2-41/64"	2-48/64"	F32-2	38.00	FL32-2	57.00
	2-49/64"	2-56/64"	F32-3	44.70	FL32-3	57.00
	2-57/64"	3-2/64"	F32-4	44.70	FL32-4	57.00
2 1/2"	2-62/64"	3-8/64"	F40-1	57.70	FL40-1	80.00
	3-9/64"	3-16/64"	F40-2	57.70	FL40-2	80.00
	3-17/64"	3-24/64"	F40-3	57.70	FL40-3	80.00
	3-25/64"	3-32/64"	F40-4	70.00	FL40-4	80.00
	3-33/64"	3-40/64"	F40-5	70.00	FL40-5	80.00
3"	3-30/64"	3-40/64"	F48-1	48.70	FL48-1	94.20
	3-41/64"	3-48/64"	F48-2	53.55	FL48-2	94.20
	3-49/64"	3-56/64"	F48-3	58.20	FL48-3	94.20
	3-57/64"	4"	F48-4	73.20	FL48-4	94.20
	4-1/64"	4-8/64"	F48-5	68.00	FL48-5	94.20
4"	4-30/64"	4-39/64"	F64-Z ¹	94.00	FL64-Z ²	120.00
	4-40/64"	4-44/64"	F64-1	94.00	FL64-1	120.00
	4-45/64"	4-52/64"	F64-2	94.00	FL64-2	120.00
	4-53/64"	4-60/64"	F64-3	94.00	FL64-3	120.00
	4-61/64"	5-4/64"	F64-4	94.00	FL64-4	120.00
	5-5/64"	5-12/64"	F64-5	106.00	FL64-5	120.00
	5-13/64"	5-20/64"	F64-6	106.00	FL64-6	120.00
	5-21/64"	5-28/64"	F64-7	106.00	FL64-7	120.00
5"	5-29/64"	5-36/64"	F64-8	106.00	FL64-8	120.00
	5-56/64"	5-60/64"	F80-1	240.00	FL80-1	POR
	5-61/64"	6-4/64"	F80-2	240.00	FL80-2	POR
	6-5/64"	6-12/64"	F80-3	250.00	FL80-3	POR
	6-13/64"	6-20/64"	F80-4	POR	FL80-4	POR
	6-21/64"	6-28/64"	F80-5	POR	FL80-5	POR
	6-29/64"	6-38/64"	F80-6	POR	FL80-6	POR
6-37/64"	6-44/64"	F80-7	POR	FL80-7	POR	

Hose ID	Hose OD		Plated Carbon Steel		Long Style Plated Carbon Stl.	
	from	to	Part #	Price/E	Part #	Price/E
6"	6-44/64"	6-63/64"	F96-Z ³	\$227.70	FL96-Z ³	\$304.75
	7"	7-4/64"	F96-1	235.00	FL96-1	304.75
	7-5/64"	7-12/64"	F96-2	235.00	FL96-2	304.75
	7-13/64"	7-20/64"	F96-3	235.00	FL96-3	304.75
	7-21/64"	7-28/64"	F96-4	245.00	FL96-4	304.75
	7-29/64"	7-36/64"	F96-5	245.00	FL96-5	304.75
	7-37/64"	7-44/64"	F96-6	255.30	FL96-6	304.75
	7-45/64"	7-52/64"	F96-7	255.30	FL96-7	304.75
	7-53/64"	7-60/64"	F96-8	255.30	FL96-8	304.75
8"	7-61/64"	8"	F96-9	255.30	FL96-9	304.75
	NEW 8-53/64"	8-56/64"	F128-X	398.00	---	---
	9"	9-9/64"	F128-Y	395.00	FL128-Y	POR
	9-20/64"	9-24/64"	F128-1	410.00	FL128-1	POR
	9-25/64"	9-32/64"	F128-2	410.00	FL128-2	POR
	9-33/64"	9-40/64"	F128-3	410.00	FL128-3	POR
	9-41/64"	9-48/64"	F128-4	463.50	FL128-4	POR
	9-49/64"	9-56/64"	F128-5	463.50	FL128-5	POR
	9-57/64"	10"	F128-6	463.50	FL128-6	POR
	10-1/64"	10-4/64"	F128-7	463.50	FL128-7	POR
10"	11-32/64"	11-44/64"	F160-1	750.00	FL160-1	POR
	11-45/64"	11-60/64"	F160-2	750.00	FL160-2	POR
	11-61/64"	12-12/64"	F160-3	POR	FL160-3	POR
	12-13/64"	12-28/64"	F160-4	POR	FL160-4	POR
	12-29/64"	12-44/64"	F160-5	POR	FL160-5	POR
	12-45/64"	12-60/64"	F160-6	POR	FL160-6	POR

Special Holedall Stems

Hose ID	Material	Thread	Part #	Price/E
4"	carbon steel	NPT	TM64-42 ¹	\$99.70
4"	carbon steel	NPT	TML64-42 ²	140.00
6"	carbon steel	NPT	TM96-42 ³	220.00
6"	316 stainless	NPT	TMR96-42 ³	705.00
6"	carbon steel	NPT	TML96-42 ³	341.00
6"	carbon steel	beveled	TP96-42 ³	220.00
6"	316 stainless	beveled	TPR96-42 ³	POR
6"	long carbon steel	grooved	TGL96-42 ³	POR
6"	carbon steel	grooved	TG96-42 ³	220.00

^{1,2,3} requires special stem

For applications with hose OD ranges not listed, call the factory.

Holedall II External Swage Ferrules

Applications:

- For use with Royal-Flex™ thin wall hose.

Features:

- These specially designed carbon steel ferrules have serrations on the outside and should be used with stem styles TM, TP and TG stems on page 398.



Hose ID	Hose OD		Carbon Steel	
	Part #	Price/E	Part #	Price/E
1½"	1-58/64"	2-2/64"	FW24	\$75.00
2"	2-28/64"	2-34/64"	FW32	86.60
3"	3-30/64"	3-38/64"	FW48	106.00
4"	4-30/64"	4-42/64"	FW64¹	108.00

¹ 4" takes special stem; **TM64-42, \$99.70**

Stainless External Swage Ferrules

Features:

- Light duty 304 stainless ferrules for use with standard length stems such as the TMR series. Consult Dixon for die recommendations. See page 686-691 for specific pressure recommendations.



Hose ID	Hose OD		304 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	1-60/64"	2-12/64"	GAS2334TO	\$42.40
	2-4/64"	2-22/64"	GAS2370TO	42.40
2"	2-30/64"	2-44/64"	GAS2709TO	34.40
	2-42/64"	2-54/64"	GAS2885TO	71.25
3"	3-30/64"	3-46/64"	GAS3760TO	53.30
	3-47/64"	3-54/64"	GAS3885TO	69.90
4"	4-40/64"	4-47/64"	GAS5010TO	275.00

External Swage Notched NOS Stems and Ferrules

Features:

- The notched system allows you to better manage your inventories. You can stock one stem and two ferrules, and cover the same hose range with less inventory. *You must purchase a fitting and the matching ferrule to create an assembly.*
 - For hose outside diameters of 2-4/64" and below, *the couplings are crimp only.*
 - For hose outside diameters of 2-5/64" and above, the couplings can be crimped or swaged.
- See page 57 for cam and groove style notched NOS fittings.

L



STC200NOS



RST150NOS



Only use the NOS shank with the NOS ferrules.
Due to differences in dimensions and tolerances for safety reasons,
do not use other manufacturer's stems or ferrules with Dixon Holedall products.

stems

Size	PSI at 70°F	Plated Carbon Steel		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
1½"	250	STC150NOS	\$24.00	RST150NOS	\$45.40
2"	250	STC200NOS	28.25	RST200NOS	53.30
3"	250	STC300NOS	51.00	RST300NOS	119.60
4"	*	STC400NOS	64.50	RST400NOS	178.00

* Contact factory for pressure information

ferrules



Size	Hose OD		Carbon Steel		304 Stainless Steel	
	From:	To:	Part #	Price/E	Part #	Price/E
1½"	1-60/64"	2-12/64"	CAS2334NOS	\$17.55	GAS2334NOS	\$31.90
1½"	2-4/64"	2-22/64"	CAS2370NOS	17.55	GAS2370NOS	34.50
2"	2-30/64"	2-44/64"	CAS2709NOS	24.10	GAS2709NOS	31.50
	2-42/64"	2-54/64"	CAS2885NOS	23.30	GAS2885NOS	64.40
3"	3-30/64"	3-46/64"	CAS3760NOS	34.60	GAS3760NOS	46.35
3"	3-47/64"	3-54/64"	CAS3885NOS	36.55	GAS3885NOS	63.00
4"	4-40/64"	4-47/64"	CAS5010NOS	59.60	GAS5010NOS	235.00

External Swage Flanged Assemblies

Features:

- 150# ASA flange drilling available with carbon steel stem, ferrule and flange, or 316 stainless steel stem, flange and carbon steel ferrule
- available in other sizes, consult the factory for pricing



fixed - carbon steel



floating - carbon steel

fixed flange

floating flange

Hose ID	Hose OD		Carbon Steel		Stainless Steel		Carbon Steel		Stainless Steel	
	from	to	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
2"	2-28/64"	2-40/64"	32P1SO15	\$212.70	R32P1SOR15	\$442.00	32P1LJ15	\$260.00	R32P1LJR15	\$510.00
	2-41/64"	2-48/64"	32P2SO15	212.70	R32P2SOR15	442.00	32P2LJ15	260.00	R32P2LJR15	510.00
	2-49/64"	2-56/64"	32P3SO15	212.70	R32P3SOR15	442.00	32P3LJ15	260.00	R32P3LJR15	510.00
3"	3-30/64"	3-40/64"	48P1SO15	271.00	R48P1SOR15	600.00	48P1LJ15	288.40	R48P1LJR15	690.00
	3-41/64"	3-48/64"	48P2SO15	271.00	R48P2SOR15	600.00	48P2LJ15	288.40	R48P2LJR15	690.00
	3-49/64"	3-56/64"	48P3SO15	271.00	R48P3SOR15	600.00	48P3LJ15	288.40	R48P3LJR15	690.00
4"	4-40/64"	4-44/64"	64P1SO15	354.00	R64P1SOR15	875.00	64P1LJ15	450.00	R64P1LJR15	1197.00
	4-45/64"	4-52/64"	64P2SO15	354.00	R64P2SOR15	875.00	64P2LJ15	450.00	R64P2LJR15	1197.00
	4-53/64"	4-60/64"	64P3SO15	354.00	R64P3SOR15	875.00	64P3LJ15	450.00	R64P3LJR15	1197.00
6"	7"	7-4/64"	96P1SO15	675.00	R96P1SOR15	1542.00	96P1LJ15	840.00	R96P1LJR15	1800.00
	7-5/64"	7-12/64"	96P2SO15	675.00	R96P2SOR15	1542.00	96P2LJ15	840.00	R96P2LJR15	1800.00
	7-13/64"	7-20/64"	96P3SO15	675.00	R96P3SOR15	1542.00	96P3LJ15	840.00	R96P3LJR15	1800.00
8"	9-20/64"	9-24/64"	128P1SO15	1020.00	---	---	128P1LJ15	1150.00	---	---
	9-25/64"	9-32/64"	128P2SO15	1020.00	---	---	128P2LJ15	1150.00	---	---
	9-33/64"	9-40/64"	128P3SO15	1020.00	---	---	128P3LJ15	1150.00	---	---

External Swage Uni-Range Male Couplings

Applications:

Designed for smaller hose systems, these couplings may be used for hose ID's of 1/4" - 1" and come complete with factory assembled stem and ferrule combination.

Features:

- can be swaged or crimped
- other hose OD's available, consult the factory
- stainless steel stems are investment cast
- plated carbon steel stem and ferrule



- 316 stainless steel stem, plated carbon steel ferrule

Hose ID	Hose OD		Plated Carbon Steel	
	Part #	Price/E	Part #	Price/E
1/4"	34/64"	38/64"	4P1	\$16.05
	38/64"	42/64"	4P2	16.05
	42/64"	46/64"	4P3	16.05
3/8"	46/64"	50/64"	6P1	21.80
	50/64"	54/64"	6P2	21.80
	54/64"	58/64"	6P3	21.80
1/2"	54/64"	58/64"	8P1	22.25
	58/64"	62/64"	8P2	22.25
	62/64"	1-2/64"	8P3	22.25
3/4"	1-10/64"	1-14/64"	12P1	23.80
	1-14/64"	1-18/64"	12P2	23.80
	1-18/64"	1-22/64"	12P3	23.80
1"	1-30/64"	1-34/64"	16P1	30.65
	1-34/64"	1-38/64"	16P2	30.65
	1-38/64"	1-42/64"	16P3	30.65
	1-42/64"	1-46/64"	16P4	30.65

Hose ID	Hose OD		Stainless/Carbon Steel	
	Part #	Price/E	Part #	Price/E
3/4"	1-10/64"	1-14/64"	R12P1	\$59.65
	1-14/64"	1-18/64"	R12P2	59.65
	1-18/64"	1-22/64"	R12P3	59.65
1"	1-30/64"	1-34/64"	R16P1	105.00
	1-34/64"	1-38/64"	R16P2	105.00
	1-38/64"	1-42/64"	R16P3	105.00
	1-42/64"	1-46/64"	R16P4	105.00

- 316 stainless steel stem, 304 stainless steel ferrule

Hose ID	Hose OD		Stainless Steel	
	Part #	Price/E	Part #	Price/E
1/2"	58/64"	62/64"	R8P2SS	\$113.00
3/4"	1-6/64"	1-12/64"	R12P1250	90.85
	1-13/64"	1-22/64"	R12P1370	90.85
1"	1-30/64"	1-38/64"	R16P1620	118.45
	1-38/64"	1-46/64"	R16P1770	119.60

External Swage High Pressure Couplings

Applications:

These couplings are for services requiring a fitting which will withstand extremely high pressures (up to **3,000 PSI** at 70°F) and severe operating conditions, such as on small and medium size drilling rigs, used for slim hole, core drill, workover, seismograph, water well, blast or shot holes, etc. These long, rugged fittings are machined from seamless pipe and tubing with specially designed serrations. The mating ferrules are machined from heavy wall material incorporating matching serrations. These couplings are shipped with matching ferrules. Please provide hose OD when ordering for properly sized ferrule. Make sure both ends of the hose are measured for OD. Must be swaged with 50 Ton or 100 Ton Ram.

Features:

- The LM fittings are sold as a complete coupling, including stem and ferrule.
- API and NPT sizes are interchangeable

Stem and Ferrule Complete Assemblies



Male NPT Thread Coupling Units

Hose ID	NPT Size	Zinc Plated Steel	
		Part #	Price/E
2"	2"	LM32-*	\$335.00
2½"	2½"	LM40-*	390.00
3"	3"	LM48-*	435.00

Male API Thread Coupling Units

Hose ID	API Size	Zinc Plated Steel	
		Part #	Price/E
2"	2½"	LM3240-*	POR
2½"	3"	LM4048-*	POR
3"	4"	LM4864-*	POR

*an accurate hose OD must be provided to complete the part # and to ensure proper retention.

Holedall Internal Expansion Couplings

Applications:

The Dixon Internally Expanded Couplings are essential when maximum flow is important. Only one expansion tool is needed for each hose ID. Some recommended applications of these fittings are: concrete pump hose, plaster and grout hose, oil suction and discharge hose, multi-purpose heavy duty air hose, jetting hose, barge loading hose and bottom loading hose.

Features:

Benefits of Internal Expansion Fittings:

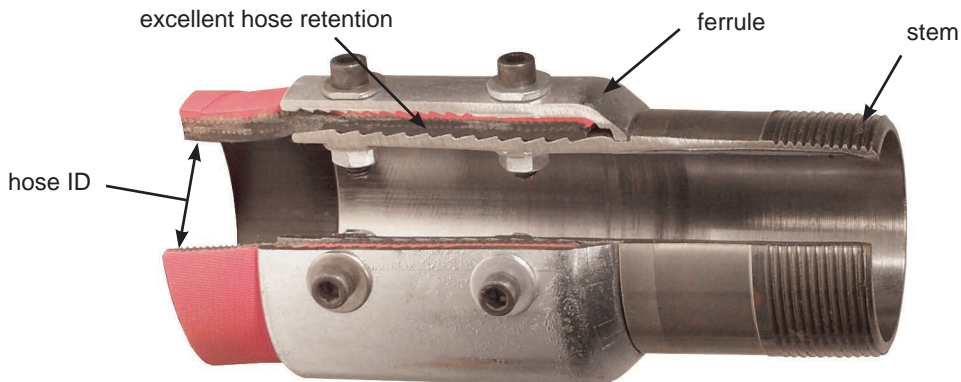
- maximum flow of media
- reduction of turbulence through hose
- excellent sealing and retention characteristics
- outperforms band clamps
- easy and consistent installation

End Configurations Available:

- male NPT
- raised end (California style)
- grooved
- others available on request



Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.



Cross-section of Holedall internally expanded assembly

Internal Expansion Stems



male pipe threaded end



heavy duty raised end



grooved end

Size	Carbon Steel		Carbon Steel		Carbon Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	IXM16	\$57.75	---	---	---	---
1¼"	IXM20	59.75	---	---	IXV20	\$55.90
1½"	IXM24	53.30	IXH24	\$97.50	IXV24	55.40
2"	IXM32	57.25	IXH32	102.00	IXV32	58.40
2½"	IXM40	73.55	IXH40	125.00	IXV40	73.00
3"	IXM48	96.30	IXH48	155.50	IXV48	106.10
4"	IXM64	137.60	IXH64	214.20	IXV64	150.00
6"	IXM96	165.00	---	---	---	---

Butt Weld x Heavy Duty Raised End (California Style)

Features:

- Beveled design for welding to Schedule 40 pipe allows connection to a heavy duty raised end (California style) hose fitting or similar style end.

California style end

Size	Length	Carbon Steel	
		Part #	Price/E
1½"	1½"	HDE24	\$43.25
2"	1½"	HDE32	44.00
2½"	1½"	HDE40	54.25
3"	1½"	HDE48	57.75
4"	1½"	HDE64	69.50
5"	1½"	HDE80	85.00



Clamps for IXH Raised End (California Style) Stems

Applications:

- These clamps can be used to connect the ends of pipes or hoses which use the Raised End or California style fittings listed above.

Features:

- Cast steel clamps for fast assembly when connecting heavy-duty raised end fittings used for concrete.
- Shipped with double lipped gasket and safety pin.
- All sizes are painted green.
- Clamp should only be used with safety pin in place.

Hose ID	Steel Clamps		Buna-N Gaskets	
	Part #	Price/E	Part #	Price/E
1½"	IXHC150	\$134.00	IXHCG150	\$15.00
2"	IXHC200	136.00	IXHCG200	15.00
2½"	IXHC250	150.00	IXHCG250	15.00
3"	IXHC300	167.00	IXHCG300	18.75
4"	IXHC400	214.50	IXHCG400	18.75
5"	IXHC500	221.00	IXHCG500	21.15



Internal Expansion Ferrules

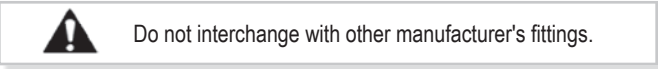


Hose ID	Hose OD		Ferrule ID	Plated Carbon Steel	
	From:	To:		Part #	Price/E
1"	1-24/64"	1-28/64"	1-7/16"	IXF16-1	\$40.50
	1-28/64"	1-32/64"	1-1/2"	IXF16-2	40.50
	1-32/64"	1-36/64"	1-9/16"	IXF16-3	40.50
1 1/4"	1-40/64"	1-44/64"	1-11/16"	IXF20-Z	38.00
	1-44/64"	1-48/64"	1-3/4"	IXF20-1	38.00
	1-48/64"	1-52/64"	1-13/16"	IXF20-2	38.00
	1-52/64"	1-56/64"	1-7/8"	IXF20-3	38.00
	1-56/64"	1-60/64"	1-15/16"	IXF20-4	38.00
	1-60/64"	2"	2"	IXF20-5	38.00
1 1/2"	2"	2-4/64"	2-1/16"	IXF20-6	38.00
	1-56/64"	1-60/64"	1-15/16"	IXF24-Z	37.65
	1-60/64"	2"	2"	IXF24-1	37.65
	2"	2-4/64"	2-1/16"	IXF24-2	37.65
	2-4/64"	2-8/64"	2-1/8"	IXF24-3	37.65
	2-8/64"	2-12/64"	2-3/16"	IXF24-4	37.65
	2-12/64"	2-16/64"	2-1/4"	IXF24-5	37.65
2-16/64"	2-20/64"	2-5/16"	IXF24-6	37.65	
2-20/64"	2-24/64"	2-3/8"	IXF24-7	37.65	
2"	2-32/64"	2-36/64"	2-9/16"	IXF32-Y	40.15
	2-36/64"	2-40/64"	2-5/8"	IXF32-Z	40.15
	2-40/64"	2-44/64"	2-11/16"	IXF32-1	40.15
	2-44/64"	2-48/64"	2-3/4"	IXF32-2	40.15
	2-48/64"	2-52/64"	2-13/16"	IXF32-3	40.15
	2-52/64"	2-56/64"	2-7/8"	IXF32-4	40.15
	2-56/64"	2-60/64"	2-15/16"	IXF32-5	40.15
	2-60/64"	3"	3"	IXF32-6	40.15
3"	3-4/64"	3-1/16"	IXF32-7	40.15	
2 1/2"	3"	3-4/64"	3-1/16"	IXF40-1	59.50
	3-4/64"	3-8/64"	3-1/8"	IXF40-2	59.50
	3-8/64"	3-12/64"	3-3/16"	IXF40-3	59.50
	3-12/64"	3-16/64"	3-1/4"	IXF40-4	59.50
	3-16/64"	3-20/64"	3-5/16"	IXF40-5	59.50
	3-20/64"	3-24/64"	3-3/8"	IXF40-6	59.50
	3-24/64"	3-28/64"	3-7/16"	IXF40-7	59.50
	3-28/64"	3-32/64"	3-1/2"	IXF40-8	59.50

Hose ID	Hose OD		Ferrule ID	Plated Carbon Steel	
	From:	To:		Part #	Price/E
3"	3-32/64"	3-36/64"	3-9/16"	IXF48-T	\$75.30
	3-36/64"	3-40/64"	3-5/8"	IXF48-U	75.30
	3-40/64"	3-44/64"	3-11/16"	IXF48-V	75.30
	3-44/64"	3-48/64"	3-3/4"	IXF48-W	75.30
	3-48/64"	3-52/64"	3-13/16"	IXF48-X	75.30
	3-52/64"	3-56/64"	3-7/8"	IXF48-Y	75.30
	3-56/64"	3-60/64"	3-15/16"	IXF48-Z	75.30
	3-60/64"	4"	4"	IXF48-1	81.25
	4"	4-4/64"	4-1/16"	IXF48-2	81.25
	4-4/64"	4-8/64"	4-1/8"	IXF48-3 ¹	81.25
4-8/64"	4-12/64"	4-3/16"	IXF48-4 ¹	81.25	
4-12/64"	4-16/64"	4-1/4"	IXF48-5 ¹	81.25	
4"	4-36/64"	4-40/64"	4-5/8"	IXF64-T	107.35
	4-40/64"	4-44/64"	4-11/16"	IXF64-U	107.35
	4-44/64"	4-48/64"	4-3/4"	IXF64-V	107.35
	4-48/64"	4-52/64"	4-13/16"	IXF64-W	107.35
	4-52/64"	4-56/64"	4-7/8"	IXF64-X	107.35
	4-56/64"	4-60/64"	4-15/16"	IXF64-Y	107.35
	4-60/64"	5"	5"	IXF64-Z	107.35
	5"	5-4/64"	5-1/16"	IXF64-1	107.35
	5-4/64"	5-8/64"	5-1/8"	IXF64-2 ¹	107.35
	5-8/64"	5-12/64"	5-3/16"	IXF64-3 ¹	107.35
	5-12/64"	5-16/64"	5-1/4"	IXF64-4 ¹	107.35
	5-16/64"	5-20/64"	5-5/16"	IXF64-5 ¹	107.35
	6-40/64"	6-44/64"	6-11/16"	IXF96-1	POR
	6-44/64"	6-48/64"	6-3/4"	IXF96-2	POR
6-46/64"	6-50/64"	6-25/32"	IXF96-3	POR	
6-48/64"	6-52/64"	6-13/16"	IXF96-4	POR	
6-52/64"	6-56/64"	6-7/8"	IXF96-5	POR	
6-56/64"	6-60/64"	6-15/16"	IXF96-6	POR	
6-60/64"	7"	7"	IXF96-7	POR	
7"	7-4/64"	7-1/16"	IXF96-8	POR	
7-4/64"	7-8/64"	7-1/8"	IXF96-9	POR	
7-8/64"	7-12/64"	7-3/16"	IXF96-10	POR	
7-12/64"	7-16/64"	7-1/4"	IXF96-11	POR	
7-16/64"	7-20/64"	7-5/16"	IXF96-12	POR	
7-18/64"	7-22/64"	7-11/32"	IXF96-13	POR	
7-20/64"	7-24/64"	7-3/8"	IXF96-14	POR	

¹ For hoses using ferrule sizes IXF48-3 thru IXF48-5 and IXF64-2 thru IXF64-5, consult the factory for working pressures.

Internally Expanded Permanent Couplings - Scovill Style



Applications:

- Brass internally expanded permanent couplings are recommended for discharge and suction service. Commonly used in the transfer of fuel to homes, airplanes, ships, etc. The working pressure of the 520-H fitting varies with the size of the fitting, the size and construction of the hose and the media being conveyed. Consult the factory for recommendations. Dixon Holedall stems and ferrules are specifically designed to be used together as a coupling system.

Features:

- Both the male and female have octagonal facets for tightening with a wrench. The female in 1½" and larger sizes has lugs for tightening. The stem is expanded to nominal ID of hose for a rigid, uniform, full-flow area.
- Male and female stems are machined from bar stock or solid brass forgings; ferrules are available in brass and stainless steel.
- Couplings are compact, light and streamlined to eliminate catching on curbs and shrubs.
- The H520 fittings are designed for internal expansion only.
- Couplings are pre-lubricated for assembly.
- Hand and electrically operated installation equipment is available. Consult factory for pricing and availability.
- The fittings on this page are intended for fuel delivery service. See page 406 for information on AP 1529 certification.



male



female



grooved

Hose ID	male NPT		male NST		female NPSH		female NST		grooved	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4"	H5192	\$23.85	---	---	H5191-BU	\$41.00	---	---	---	---
1"	H5212-A	25.90	H5212NST	\$26.10	H5211-A-BU	43.75	H5211NST	\$51.75	G5212	\$32.55
1-1/4"	H5222-A	34.45	---	---	H5221-A-BU	49.80	---	---	---	---
1-3/8"	H5272 ¹	40.00	---	---	H5271-BU ¹	79.20	---	---	---	---
1-1/2"	H5232-A	41.65	H5232NST	41.05	H5231-A-BU	78.60	H5231NST ²	83.60	G5232	59.20
2"	H5242	80.10	---	---	H5241-BU	137.90	---	---	G5242	80.50
2-1/2"	H5252	138.00	---	---	H5251 ³	212.50	---	---	G5252 ^{NEW}	138.00
3"	H5262	185.00	---	---	H5261 ³	282.00	---	---	---	---

¹ 1-3/8" stem has 1½" thread

² 1½" NST requires special adapter, part # H5231NSTADT

³ 2½" and 3" parts have female NPSM thread

520-H Ferrules

Features:

- A wide range of sizes permits a perfect assembly of a coupling to a corresponding size of hose within commercial tolerances regardless of wall thickness. Eliminates need for large stock of coupling bodies. Consult Dixon for other hose OD's.



Hose ID	Hose OD		Brass		Hose ID	Hose OD		Brass		Hose ID	Hose OD		Brass	
	From:	To:	Part #	Price/E		From:	To:	Part #	Price/E		From:	To:	Part #	Price/E
¾"	1-4/64"	1-7/64"	R75AAAS	\$8.55 ^{NEW}	1-3/8"	1-47/64"	1-50/64"	R1375BS	\$16.95	2"	2-27/64"	2-30/64"	R2AAS	\$32.20
	1-8/64"	1-11/64"	R75AAS	8.55		1-51/64"	1-54/64"	R1375CS	16.95		2-31/64"	2-34/64"	R2AS	32.20
	1-12/64"	1-14/64"	R75AS	8.55		1-55/64"	1-58/64"	R1375DS	16.95		2-35/64"	2-38/64"	R2BS	32.20
	1-15/64"	1-17/64"	R75BS	8.55		1-59/64"	1-62/64"	R1375ES	16.95		2-39/64"	2-42/64"	R2CS	32.20
	1-18/64"	1-20/64"	R75CS	8.55		1-54/64"	1-57/64"	R15AAAS-A	17.20		2-43/64"	2-46/64"	R2DS	32.20
1"	1-24/64"	1-26/64"	R1AAAS-A	9.65	1½"	1-58/64"	1-62/64"	R15AAS-A	17.20	2½"	2-47/64"	2-50/64"	R2ES	32.20
	1-27/64"	1-29/64"	R1AAS-A	9.65		1-63/64"	2-2/64"	R15AS-A	17.20		2-51/64"	2-54/64"	R2FS	32.20
	1-30/64"	1-32/64"	R1AS-A	9.65		2-3/64"	2-6/64"	R15BS-A	17.20		2-62/64"	3-1/64"	R25AS	46.10
	1-33/64"	1-35/64"	R1BS-A	9.65		2-7/64"	2-11/64"	R15CS-A	17.20		3-2/64"	3-6/64"	R25BS	46.10
	1-36/64"	1-38/64"	R1CS-A	9.65		2-12/64"	2-14/64"	R15DS-A	17.20		3-7/64"	3-11/64"	R25CS	46.10
	1-39/64"	1-41/64"	R1DS-A	9.65		2-15/64"	2-19/64"	R15ES-A	17.20		3-12/64"	3-16/64"	R25DS	46.10
	1-42/64"	1-44/64"	R1ES-A	9.65		2-20/64"	2-24/64"	R15FS ¹	17.20		3-17/64"	3-21/64"	R25ES	46.10
1¼"	1-39/64"	1-42/64"	R125AAS-A	14.35	2-25/64"	2-28/64"	R15GS ¹	17.20	3-22/64"	3-26/64"	R25FS	46.10		
	1-43/64"	1-46/64"	R125AS-A	14.35	3"	3-30/64"	3-34/64"	R3AAAS	62.90	3-35/64"	3-39/64"	R3AAS	62.90	
	1-47/64"	1-50/64"	R125BS-A	14.35		3-40/64"	3-45/64"	R3AS	62.90	3-46/64"	3-50/64"	R3BS	62.90	
	1-51/64"	1-54/64"	R125CS-A	14.35		3-51/64"	3-54/64"	R3CS	62.90					
	1-55/64"	1-58/64"	R125DS-A	14.35										
1-59/64"	1-62/64"	R125ES ¹	14.35											

¹ will be replaced by API ferrules

API Certified Permanently Attached Petroleum Couplings

Features:

- Tested and compliant with API 1529 6th edition. Coupling procedures, ferrule recommendations and API test data are available upon request, please contact the factory.



520-H series male thread

Hose Size	Thread Type	Brass		Aluminum	
		Part #	Price/E	Part #	Price/E
1"	NPT	H5212-A	\$25.90	---	--
1¼"	NPT	H5222-A	34.45	---	--
1½"	NPT	H5232-A	41.65	---	--
2"	NPT	H5242L-A	80.10	A5242L-A ¹	\$55.00
2½"	NPT	H5252L-A	138.00	A5252L-A ¹	95.00
3"	NPT	H5262L-A	185.00	A5262L-A ¹	115.00
4"	NPT	H5282L-A	320.00	---	--



520-H series female thread

Hose Size	Thread Type	Brass	
		Part #	Price/E
1"	NPSH	H5211-A-BU	\$43.75
1¼"	NPSH	H5221-A-BU	49.80
1½"	NPSH	H5231-A-BU	78.60
2"	NPSH	H5241L-A-BU	137.90
2½"	NPSM	H5251L-A-BU	212.50
3"	NPSM	H5261L-A-BU	282.00
4"	NPSM	H5281L-A-BU	405.00

¹ requires a special thrust plate

2" **25000HTL24**

2½" **25000HTL25**

3" **25000HTL26**

API 520-H Series Ferrules



Hose ID	Hose OD		Brass	
	From:	To:	Part #	Price/E
1"	1-24/64"	1-26/64"	R1AAAS-A	\$9.65
	1-27/64"	1-29/64"	R1AAS-A	9.65
	1-30/64"	1-32/64"	R1AS-A	9.65
	1-33/64"	1-35/64"	R1BS-A	9.65
	1-36/64"	1-38/64"	R1CS-A	9.65
	1-39/64"	1-41/64"	R1DS-A	9.65
1¼"	1-42/64"	1-44/64"	R1ES-A	9.65
	1-39/64"	1-42/64"	R125AAS-A	14.35
	1-43/64"	1-46/64"	R125AS-A	14.35
	1-47/64"	1-50/64"	R125BS-A	14.35
	1-51/64"	1-54/64"	R125CS-A	14.35
	1-55/64"	1-58/64"	R125DS-A	14.35
1½"	1-59/64"	1-62/64"	R125ES-A	14.35
	1-54/64"	1-57/64"	R15AAAS-A	17.20
	1-58/64"	1-62/64"	R15AAS-A	17.20
	1-63/64"	2-2/64"	R15AS-A	17.20
	2-3/64"	2-6/64"	R15BS-A	17.20
	2-7/64"	2-11/64"	R15CS-A	17.20
2"	2-12/64"	2-14/64"	R15DS-A	17.20
	2-15/64"	2-19/64"	R15ES-A	17.20

Size	Hose OD		304 Stain. Steel		Aluminum	
	From:	To:	Part #	Price/E	Part #	Price/E
2"	2-31/64"	2-34/64"	R2ASS-A	\$27.80	R2AAL-A	\$20.00
	2-35/64"	2-38/64"	R2BSS-A	27.80	R2BAL-A	20.00
	2-39/64"	2-42/64"	R2CSS-A	27.80	R2CAL-A	20.00
	2-43/64"	2-46/64"	R2DSS-A	27.80	R2DAL-A	20.00
	2-47/64"	2-50/64"	R2ESS-A	27.80	R2EAL-A	20.00
2½"	2-62/64"	3-1/64"	R25ASS-A	42.25	R25AAL-A	30.00
	3-2/64"	3-6/64"	R25BSS-A	42.25	R25BAL-A	30.00
	3-7/64"	3-11/64"	R25CSS-A	42.25	R25CAL-A	30.00
	3-12/64"	3-16/64"	R25DSS-A	42.25	R25DAL-A	30.00
	3-17/64"	3-21/64"	R25ESS-A	42.25	R25EAL-A	30.00
3"	3-35/64"	3-39/64"	R3AASS-A	48.30	R3AAAL-A	35.00
	3-40/64"	3-45/64"	R3ASS-A	48.30	R3AAL-A	35.00
	3-46/64"	3-50/64"	R3BSS-A	48.30	R3BAL-A	35.00
	3-51/64"	3-54/64"	R3CSS-A	48.30	R3CAL-A	35.00
	3-55/64"	3-59/64"	R3DSS-A	48.30	R3DAL-A	35.00
4"	4-46/64"	4-48/64"	R4ESS-A	160.00	---	--
	4-49/64"	4-51/64"	R4FSS-A	160.00	---	--
	4-52/64"	4-54/64"	R4GSS-A	160.00	---	--
	4-55/64"	4-57/64"	R4HSS-A	160.00	---	--
	4-58/64"	4-59/64"	R4KSS-A	160.00	---	--
	4-60/64"	4-62/64"	R4LSS-A	160.00	---	--
	4-63/64"	5"	R4MSS-A	160.00	---	--

Replacement Washers

Feature:

- Replacement washers for 520-H series female internally expanded permanent couplings are on pages 405 and 406.

Size	Buna	
	Part #	Price/E
3/4"	H5071-BU	\$1.20
1"	H5072-BU	1.20
1 1/4"	H5073-BU	1.20
1 1/2"	H5074-BU	1.20
2"	H5075-BU	1.30
2 1/2"	H5076-BU	1.30
3"	H5077-BU	1.35
4"	H5078-BU	1.80



Permanent Couplings for Pump Hose

Applications:

- Economical and trouble-free couplings for gas pump hose.

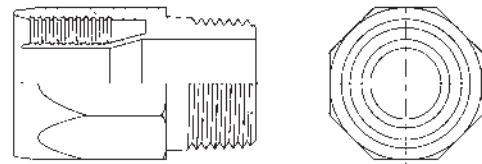
Features:

- Serrations on the stem become imbedded in the hose eliminating wicking and leakage. The shell extends beyond the stem to prevent cutting of interior walls. Tapered ends of stem and shell protect hose when flexed.
- Couplings provide tamper-proof static connection which cannot be broken without completely damaging coupling and hose.
- internal expansion of stem to nominal ID of hose provides full flow
- Broad, firm grip of coupling extends hose life by making it possible for hose to withstand more flexings.
- Hand and electrically operated installation equipment is available. Consult factory for pricing and availability.



Reattach static wire if required.

Hose ID	Male NPT	Hose OD	Chrome Plated Brass	
			Part #	Price/E
5/8"	3/4"	1"	H5741	\$14.70
5/8"	3/4"	1-1/32"	H5742	14.70
3/4"	3/4"	1-9/64"	H5751	16.60
3/4"	3/4"	1-11/64"	H5752	16.60
3/4"	3/4"	1-13/64"	H5753	27.10
3/4"	3/4"	1-7/32"	H5754	27.10
3/4"	3/4"	1-17/64"	H5755 ¹	27.10
1"	1"	1-25/64"	H5771	30.50
1"	1"	1-29/64"	H5772	30.50
1"	1"	1-1/2"	H5773	30.50
1"	1"	1-9/16"	H5774	30.50



¹ thrust plate required **2500HTL15**

HB Coupling Expander Machine

Features:

- hand operated, pull-through type expander
- for use in a fixed location for small production runs or as a portable repair type expander
- attaches sizes 3/4" through 2" of the 520-H Series couplings, and all sizes of 570-H and 580-H Series couplings
- expander tooling sold separately

Part #	Price/E
2500HB0000	\$3180.00



Dubl-Grip® Re-attachable Couplings for Curb Pump Hose

Features:

- Two-piece re-attachable coupling made of chrome-plated brass for pump hose.
- Streamlined design prevents damage to hose and fits smartly on new pump equipment.
- Wide, flat surfaces of body threads protect inside of hose from breaking.
- Tapered surfaces of sleeve and body cradle hose, prevent one-point strain from flexing.
- Hose is gripped on its full circumference in two places, ensuring a rigid leakproof connection.
- couplings have standard male NPT threads
- worn portion of hose can be removed and Dubl-Grip® can be reapplied
- easy assembly:

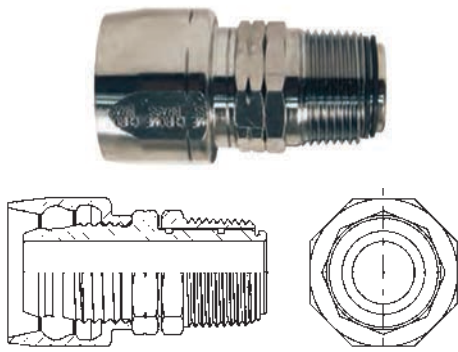
Hose is held in position by sleeve as body is threaded home.

Only a wrench is required to assemble the Dubl-Grip®.



Reattach static wire if required.

H-600 Series Dubl-Grip® Swivel Re-attachables



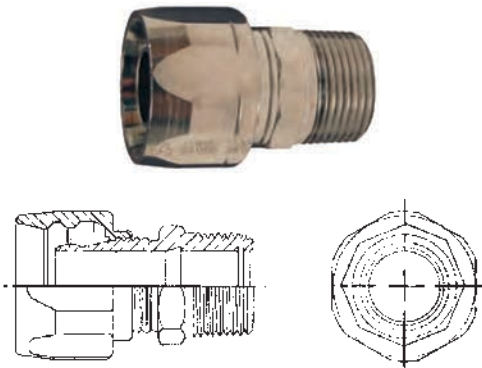
Hose ID	Male NPT	Hose OD	Chrome Plated Brass	
			Part #	Price/E
5/8"	3/4"	1"	H601 ¹	22.60
5/8"	3/4"	1-1/32"	H602 ¹	22.60
3/4"	3/4"	1-1/8"	H603	37.50
3/4"	3/4"	1-13/64"	H604	37.50
3/4"	3/4"	1-1/4"	H605	37.50
1"	1"	1-3/8"	H609 ²	58.00
1"	1"	1-7/16"	H610 ²	58.00
1"	1"	1-1/2"	H611 ²	58.00

¹ items will be discontinued when stock is depleted

² octagonal shape

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Dubl-Grip® Re-attachables



Hose ID	Male NPT	Hose OD	Chrome Plated Brass	
			Part #	Price/E
5/8"	3/4"	1"	850212	\$20.50
5/8"	3/4"	1-1/32"	850213	20.50
3/4"	3/4"	1-1/8"	850451	27.60
3/4"	3/4"	1-13/64"	850455	27.60
3/4"	3/4"	1-1/4"	850453	27.60
1"	1"	1-3/8"	850841 ¹	42.00
1"	1"	1-7/16"	850801 ¹	42.00
1"	1"	1-1/2"	850811 ¹	42.00

¹ octagonal shape

CIP Internal Expansion (IX) Sanitary Style Hose Couplings

Features:

- Clean-In-Place (CIP) compliant
- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules.
- Flow Chief Sanitary fittings are used in the food, dairy and beverage industries.

Sanitary Clamp End Stems

Features:

- see pages 426-432 for sanitary style gaskets
- see pages 413-415 for sanitary style clamps
- special plug is required to expand CIP compliant fittings
- special adapter plate is required to expand 1½" CIP compliant fittings
- 3A compliant when assembled by 3A authorized hose shop

Size	304 Stainless Steel	
	Part #	Price/E
1½"	IXSE24-3A	\$173.50
2"	IXSE32-3A	195.00
3"	IXSE48-3A	350.00



Tube Weld End Stem

Feature:

- special plug is required to expand CIP compliant fittings

Size	304 Stainless Steel	
	Part #	Price/E
2"	IXPE32-3A	\$175.00



Special Expansion Plug for CIP Compliant IX Fittings

Hose Size	304 Stainless Steel	
	Part #	
1½"	IXFDPLG137	
2"	IXFDPLG187	
3"	IXFDPLG287	



Flow Chief Ferrules

Feature:

- the ferrule ID's are designed in increments of 1/16"

Size	Hose OD		304 Stainless Steel	
	From:	To:	Part #	Price/E
1½" ¹	1-56/64"	1-59/64"	24PFX1.937	\$102.90
	1-60/64"	1-63/64"	24PFX2.000	102.90
	2"	2-3/64"	24PFX2.062	102.90
	2-4/64"	2-7/64"	24PFX2.125	102.90
	2-8/64"	2-11/64"	24PFX2.187	102.90
	2-12/64"	2-15/64"	24PFX2.250	102.90
2" ¹	2-16/64"	2-19/64"	24PFX2.312 ²	102.90
	2-28/64"	2-31/64"	32PFX2.500	108.00
	2-32/64"	2-35/64"	32PFX2.562	108.00
	2-36/64"	2-39/64"	32PFX2.625	108.00
	2-40/64"	2-43/64"	32PFX2.687	108.00
	2-44/64"	2-47/64"	32PFX2.750	108.00
	2-48/64"	2-51/64"	32PFX2.812	108.00
	2-52/64"	2-55/64"	32PFX2.875	108.00
	2-56/64"	2-59/64"	32PFX2.937	108.00
	2½"	3"	3-3/64"	40PFX3.062
3-4/64"		3-7/64"	40PFX3.125	151.00
3-8/64"		3-11/64"	40PFX3.187	151.00
3-12/64"		3-15/64"	40PFX3.250	151.00
3-16/64"		3-19/64"	40PFX3.312	151.00
3-20/64"		3-23/64"	40PFX3.375	151.00
3-28/64"		3-31/64"	40PFX3.500	151.00

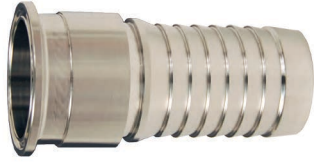


Size	Hose OD		304 Stainless Steel		
	From:	To:	Part #	Price/E	
3"	3-32/64"	3-35/64"	48PFX3.562	\$172.50	
	3-36/64"	3-39/64"	48PFX3.625	172.50	
	3-40/64"	3-43/64"	48PFX3.687	172.50	
	3-44/64"	3-47/64"	48PFX3.750	172.50	
	3-48/64"	3-51/64"	48PFX3.812	172.50	
	3-52/64"	3-55/64"	48PFX3.875	172.50	
	3-56/64"	3-59/64"	48PFX3.937	172.50	
	3-60/64"	3-63/64"	48PFX4.000	172.50	
	4"	4-3/64"	4-3/64"	48PFX4.062	172.50
	4-4/64"	4-7/64"	48PFX4.125	172.50	
4"	4-36/64"	4-39/64"	64PFX4.625	235.00	
	4-40/64"	4-43/64"	64PFX4.687	235.00	
	4-44/64"	4-47/64"	64PFX4.750	235.00	
	4-48/64"	4-51/64"	64PFX4.812	235.00	
	4-52/64"	4-55/64"	64PFX4.875	235.00	
	4-56/64"	4-59/64"	64PFX4.937	235.00	

¹ 1½" and 2" ferrules do not have serrations on the ID

² consult the factory for working pressure

Internal Expansion (IX) Sanitary Style Hose Couplings



Features:

- sanitary style end
- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules.
- see pages 426-432 for sanitary style gaskets
- see pages 413-415 for sanitary style clamps

Size	304 Stainless Steel	
	Part #	Price/E
1½"	IXSE24	\$138.40
2"	IXSE32	169.00
2½"	IXSE40	270.00
3"	IXSE48	350.50
4"	IXSE64	470.00

Internal Expansion (IX) Male NPT Hose Couplings



Feature:

- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules.

Size	304 Stainless Steel	
	Part #	Price/E
1½"	IXMS24	\$186.35
2"	IXMS32	180.00
2½"	IXMS40	230.00
3"	IXMS48	351.00
4"	IXMS64	500.00

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Internal Expansion (IX) Bevel Seat Hose Couplings

Features:

- Flow Chief internal expansion (IX) fittings are only to be used with Flow Chief stainless steel ferrules.
- see page 441 for bevel seat gaskets

Female Shank



- only use with the IXAN nuts shown below

Size	304 Stainless Steel	
	Part #	Price/E
1½"	IXFS24	\$154.35
2"	IXFS32	210.10
NEW 2"	IXFS32-3A¹	215.00
2½"	IXFS40	236.90
3"	IXFS48	375.00
4"	IXFS64	395.00

¹ must use plug part # IXFDPLG187

Threaded Hex Nuts



series 13H (modified)

Size	304 Stainless Steel	
	Part #	Price/E
1½"	IXAN24	\$37.10
2"	IXAN32	49.10
2½"	IXAN40	73.00
3"	IXAN48¹	92.25
4"	IXAN64	155.00

¹ modified for use on CBSR300: **IXAN300 \$99.00**

Dixon Sanitary Style Crimp Stems Clamp End x Hose Shank

Features:

- sanitary style end
- Dixon sanitary crimp stems are only to be used with Dixon sanitary stainless steel crimp ferrules
- reference pages 733-734 for crimp recommendations

Size	316 Stainless Steel	
	Part #	Price/E
1"	CSSR100	\$75.60
1½"	CSSR150	77.85
2"	CSSR200	135.50
3"	CSSR300	302.60
4"	CSSR400	562.85



Female Bevel Seat End x Hose Shank

- only to be used with IXAN nuts on page 410

Size	Nut Used	316 Stainless Steel	
		Part #	Price/E
1"	13H-G100	CBSR100	\$75.60
1½"	IXAN24	CBSR150	77.85
2"	IXAN32	CBSR200	135.50
3"	IXAN300	CBSR300 ¹	302.10
4"	IXAN64	CBSR400	562.85



Female I-Line End x Hose Shank

Size	316 Stainless Steel	
	Part #	Price/E
1½"	CILR150	\$77.85
2"	CILR200	135.50
3"	CILR300	302.10
4"	CILR400	562.85



Tube Weld End x Hose Shank

Size	316 Stainless Steel	
	Part #	Price/E
1½"	CTER150	\$77.85
2"	CTER200	135.50
3"	CTER300	302.10
4"	CTER400	562.85



Holedall DIN External Crimp Stems Male Stem

NEW
FOR 2013

Size	316 Stainless Steel	
	Part #	Price/E
1½"	HA0235	\$98.95
2"	HA0236	138.50
3"	HA0238	250.10



Female Stem

Size	316 Stainless Steel	
	Part #	Price/E
1½"	HA0240	\$88.30
2"	HA0241	127.80
3"	HA0243	239.75



Dixon Sanitary Crimp Ferrules



Features:

- manufactured in AISI 304 stainless steel
- ferrules have a surface finish of 63 or better

Hose ID	Hose OD		304 Stainless Steel	
	From:	To:	Part #	Price/E
1"	1-26/64"	1-28/64"	F16G-1453	\$51.50
	1-29/64"	1-31/64"	F16G-1500	51.50
	1-32/64"	1-34/64"	F16G-1547	51.50
	1-35/64"	1-37/64"	F16G-1594	51.50
	1-38/64"	1-40/64"	F16G-1641	51.50
1½"	1-58/64"	1-61/64"	F24G-1969	59.45
	1-62/64"	2-1/64"	F24G-2031	59.45
	2-2/64"	2-5/64"	F24G-2094	59.45
	2-6/64"	2-9/64"	F24G-2156	59.45

Hose ID	Hose OD		304 Stainless Steel	
	From:	To:	Part #	Price/E
2"	2-30/64"	2-33/64"	F32G-2531	\$77.80
	2-34/64"	2-37/64"	F32G-2594	77.80
	2-38/64"	2-41/64"	F32G-2656	77.80
	2-42/64"	2-45/64"	F32G-2719	77.80
	2-52/64"	2-55/64"	F32G-2875 NEW	77.80
3"	3-39/64"	3-42/64"	F48G-3625	208.00
	3-40/64"	3-43/64"	F48G-3688	208.00
	3-44/64"	3-47/64"	F48G-3750	208.00
	3-48/64"	3-51/64"	F48G-3813	208.00
	3-52/64"	3-55/64"	F48G-3875	208.00
	3-56/64"	3-59/64"	F48G-3938	208.00
4"	3-61/64"	4"	F48G-4016 NEW	208.00
	4-40/64"	4-43/64"	F64G-4688	409.15
	4-44/64"	4-47/64"	F64G-4750	409.15
	4-48/64"	4-51/64"	F64G-4813	409.15
	4-52/64"	4-55/64"	F64G-4875	409.15
	4-56/64"	4-59/64"	F64G-4938	409.15
	5-5/64"	5-8/64"	F64G-5141 NEW	409.15

DIN Round Nut (DIN11857) - 13R




Tube OD	DN Size	304 Stainless Steel	
		Part #	Price/E
1"	25	13R-G100DIN	\$38.00
1½"	40	13R-G150DIN	47.40
2"	50	13R-G200DIN	60.60
2½"	65	13R-G250DIN	82.10
3"	80	13R-G300DIN	126.10
4"	100	13R-G400DIN	147.15

L

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Clamps

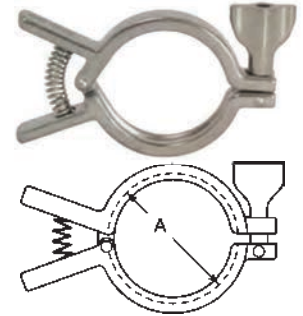
Service pressure ratings are based on the following parameters: matching elastomer gaskets and weld ferrules properly aligned and assembled with the clamps tightened to the required torque (**25 in. lbs.**). Tests are done hydrostatically with no water hammer or shock loads. Please note the pressure ratings of the described unions are above the recommended pipe line operating pressures. 

"A Tale of Two Clamps" YouTube Link
<http://www.youtu.be/LEwAjHaW5ll>



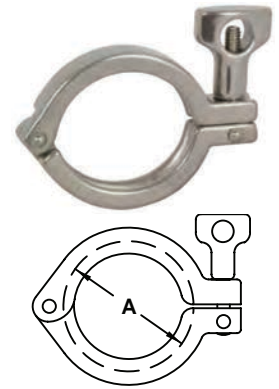
Single Pin Squeeze Clamps - 13MHHM-Q

Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	Stainless Steel	
				Part #	Price/E
½" - ¾"	1500	1200	1.062	13MHHM-Q75	\$32.15
1" - 1½"	500	300	2.122	13MHHM-Q100150	39.50
2"	450	250	2.654	13MHHM-Q200	46.25
2½"	400	200	3.185	13MHHM-Q250	59.70
3"	350	175	3.717	13MHHM-Q300	62.60
4"	300	150	4.820	13MHHM-Q400	72.70



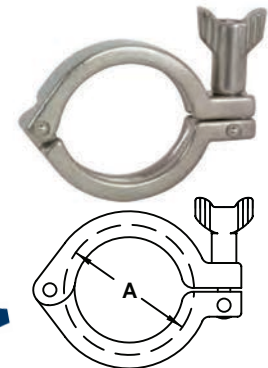
Single Pin Heavy Duty Clamps - 13MHHM with cross hole wing nut

Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	Stainless Steel	
				Part #	Price/E
½" - ¾"	1500	1200	1.062	13MHHM50-75	\$9.20
1" - 1½"	500	300	2.122	13MHHM100-150	16.50
2"	450	250	2.654	13MHHM200	17.85
2½"	400	200	3.185	13MHHM250	20.40
3"	350	175	3.717	13MHHM300	22.30
4"	300	150	4.820	13MHHM400	28.10
5"	225	100	5.820	13MHHM500	79.90
6"	150	75	6.695	13MHHM600	60.10
8"	100	50	8.695	13MHHM800	86.25



Single Pin Heavy Duty Clamps - 13MHHM***SN with serrated wing nut

Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	Stainless Steel	
				Part #	Price/E
½" - ¾"	1500	1200	1.062	13MHHM50-75SN	\$9.20
1" - 1½"	500	300	2.122	13MHHM100-150SN	16.50
2"	450	250	2.654	13MHHM200SN	17.85
2½"	400	200	3.185	13MHHM250SN	20.40
3"	350	175	3.717	13MHHM300SN	22.30
4"	300	150	4.820	13MHHM400SN	28.10
5"	225	100	5.820	13MHHM500SN	79.90 NEW
6"	150	75	6.695	13MHHM600SN	60.10
8"	100	50	8.695	13MHHM800SN	86.25



Double Pin Heavy Duty Clamps - 13MHHM-DP

Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	Stainless Steel	
				Part #	Price/E
1" - 1½"	500	300	2.122	13MHHM-DP100150	\$20.55
2"	450	250	2.654	13MHHM-DP200	23.35
2½"	400	200	3.185	13MHHM-DP250	27.00
3"	350	175	3.717	13MHHM-DP300	30.40
4"	300	150	4.820	13MHHM-DP400	37.10
10"	100	50	10.740	13MHHM-DP1000	262.80



¹ wing nut tightened to 25 in. lb. of torque

Clamps

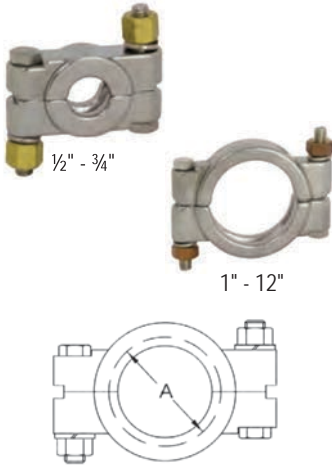
Three Segment Clamps - 13MHHM-3P



Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	Stainless Steel	
				Part #	Price/E
1" - 1½"	600	300	2.122	13MHHM-3P100150	\$27.25
2"	550	275	2.654	13MHHM-3P200	31.05
2½"	450	225	3.185	13MHHM-3P250	37.25
3"	350	175	3.717	13MHHM-3P300	44.25
4"	300	150	4.820	13MHHM-3P400	52.85
12"	75	50	12.740	13MHHM-3P1200	632.45

¹ wing nut should be tightened to 25 in. lb. of torque

Bolted Clamps - 13MHP



Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	Stainless Steel	
				Part #	Price/E
½" - ¾"	1500	1200	1.062	13MHP75	\$27.90
1" - 1½"	1500	1200	2.046	13MHP100-150	32.35
2"	1000	800	2.578	13MHP200	40.30
2½"	1000	800	3.110	13MHP250	44.00
3"	1000	800	3.640	13MHP300	53.55
4"	800	600	4.744	13MHP400	60.50
6"	300	200	6.632	13MHP600	92.65
8"	250	150	8.638	13MHP800	267.40
10"	200	125	10.740	13MHP1000	409.80
12"	150	100	12.740	13MHP1200	462.10

¹ nuts should be tightened to 20 ft. lbs. of torque

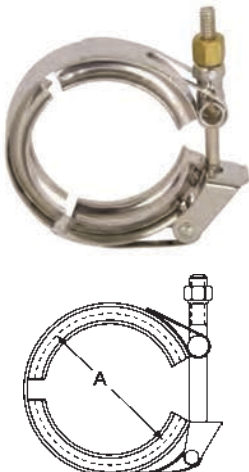
Toggle Clamps - 13MHLA



Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	304 Stainless Steel	
				Part #	Price/E
1" - 1½"	150	125	2.122	13MHLA100-150	\$54.10
2"	150	125	2.654	13MHLA200	56.70
2½"	150	125	3.185	13MHLA250	60.90
3"	150	125	3.717	13MHLA300	96.85
4"	100	75	4.820	13MHLA400	102.90

¹ screw tightened to maximum

T-bolt Clamps - 13MO



Tube OD	Service Pressure Rating @ 70°F ²	Service Pressure Rating @ 250°F ²	Dimension A	304 Stainless Steel	
				Part #	Price/E
1" - 1½"	500	250	2.080	13MO100-150	\$35.60
2"	350	200	2.610	13MO200	39.15
2½"	300	150	3.140	13MO250	48.00
3"	200	100	3.670	13MO300	48.90
4"	100	75	4.780	13MO400	68.65
6"	75	50	6.690	13MO600	95.00
8" ¹	50	40	8.690	13MO800	141.65
10" ¹	40	30	10.690	13MO1000	179.05
12" ¹	30	25	12.690	13MO1200	238.25

¹ 2 bolt configuration

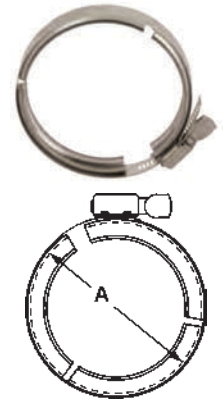
² 1" - 3" nuts tightened to 20 in. lb., 4" nut tightened to 30 in. lb., 6" nut tightened to 40 in. lb. and 8" - 12" nuts tightened to 50 in. lb. of torque

Clamps

Dairy Clamps - 13WGC

Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	A	304 Stainless Steel	
				Part #	Price/E
1" - 1½"	100	75	2.080	13WGC100-150	\$13.25
2"	100	75	2.610	13WGC200	13.85
2½"	100	75	3.140	13WGC250	17.00
3"	100	75	3.670	13WGC300	18.35
4"	100	75	4.780	13WGC400	21.75

¹ finger tight



Accessories

Spring Loaded Nut - 13SLN

Features:

- Lines using PTFE gaskets that are subject to large temperature swings can benefit from this special product. As the PTFE is compressed through the cycling of the lines, the spring load will help keep the connection from leaking.
- If the lines suffer from vibration and bolted clamps are not an option, refitting single pin clamps with this nut will keep the connections from leaking for a longer time than the standard wing nuts.
- If you transport material in tanks via truck, the vibrations can loosen the standard single pin clamps. Spring loaded nuts can add a level of insurance to the shipment.
- can be used on all wing nut style clamps
- torque to 50 in. lb.

Thread	A	B	304 Stainless Steel	
			Part #	Price/E
5/16 - 18	1.73	.875	13SLN	\$94.45



Torque-Rite® Nuts - 13TR

Features:

- an audible "click" indicating correct inch/pounds force
- maintains constant 30 or 50 inch/pounds force
- manual override feature
- retrofits all sanitary clamps, ¾" through 12"
- works in rupture disk applications
- no torque wrench or special training required

Description	Part #	Price/E
Torque-Rite® 30 in. lb nut	13TR-30	\$309.25
Torque-Rite® 50 in. lb nut	13TR-50	309.25



Nuts and Bolts

Description	Part #	Price/E
cross hole wing nut 5/16"-18	13WNX	\$12.10
mini cross hole wing nut 5/16"-18 for ½" - ¾" clamps	13WNXM	12.10
serrated wing nut 5/16"-18	13WNS	12.10
hex wing nut 5/16"-18	13WNH	8.05
bronze hex nut 3/8"-16 for bolted clamps	13BN	2.85
bolt 3/8"-16 x 2¼" for 1½" bolted clamps	13CB-2.25	9.25
bolt 3/8"-16 x 2¾" for 2" and 2½" bolted clamps	13CB-2.75	9.25
bolt 3/8"-16 x 3¼" for 3" - 12" bolted clamps	13CB-3.25	9.25
rivet pin for ½" - 5" single pin clamps 5/16" x 1"	13RP	4.55
rivet pin for 6" and 8" single pin clamps 5/16" x 1-1/8"	13RP6	5.60
5/16"-18 x 2" threaded eye bolt for ½" - 5" clamps	13IB	3.75
5/16"-18 x 2½" threaded eye bolt for 6" - 12" clamps	13IB6	3.75
brass 3/8"-16 nuts used on 10" and 12" bolted clamps	13BNH NEW	4.50
stainless steel hex nut for bolted clamps	13SN NEW	3.85
3/8" lockwasher 304 stainless steel for bolted clamps	13LW NEW	1.95



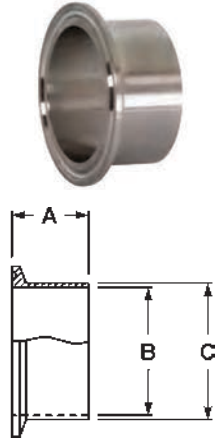
Clamp Ferrules

3 Short Weld Ferrules - 14WMP



Tube OD	Dimensions			304 Stainless Steel		316L Stainless Steel	
	A	B	C	Part #	Price/E	Part #	Price/E
½"	.500	.370	.500	14WMP-G50	\$7.30	14WMP-R50	\$9.50
¾"	.500	.620	.750	14WMP-G75	7.30	14WMP-R75	9.50
1"	.500	.870	1.000	14WMP-G100	7.50	14WMP-R100	9.60
1½"	.500	1.370	1.500	14WMP-G150	7.50	14WMP-R150	9.60
2"	.500	1.870	2.000	14WMP-G200	9.00	14WMP-R200	11.75
2½"	.500	2.370	2.500	14WMP-G250	12.95	14WMP-R250	18.65
3"	.500	2.870	3.000	14WMP-G300	17.05	14WMP-R300	22.50
4"	.625	3.834	4.000	14WMP-G400	27.05	14WMP-R400	33.45
5"	.750	4.782	5.000	14WMP-G500	346.60	14WMP-R500	361.45
6"	.875	5.782	6.000	14WMP-G600	119.25	14WMP-R600	143.50
8"	.875	7.760	8.000	14WMP-G800	149.25	14WMP-R800	228.85
10"	.875	9.782	10.000	14WMP-G1000	370.35	14WMP-R1000	447.20
12"	.875	11.760	12.000	14WMP-G1200	546.85	14WMP-R1200	743.45

3 Long Weld Ferrules - L14AM7

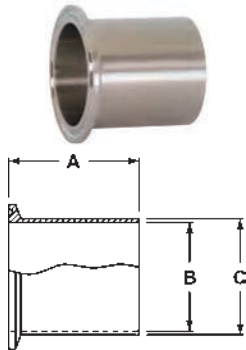


Tube OD	Dimensions			304 Stainless Steel		316L Stainless Steel	
	A	B	C	Part #	Price/E	Part #	Price/E
½"	1.125	.370	.500	L14AM7-G50	\$9.70	L14AM7-R50	\$12.45
¾"	1.125	.620	.750	L14AM7-G75	9.70	L14AM7-R75	12.45
1"	1.125	.870	1.000	L14AM7-G100	10.85	L14AM7-R100	14.25
1½"	1.125	1.370	1.500	L14AM7-G150	10.85	L14AM7-R150	14.25
2"	1.125	1.870	2.000	L14AM7-G200	13.70	L14AM7-R200	17.75
2½"	1.125	2.370	2.500	L14AM7-G250	17.40	L14AM7-R250	26.75
3"	1.125	2.870	3.000	L14AM7-G300	22.80	L14AM7-R300	32.20
4"	1.125	3.834	4.000	L14AM7-G400	32.30	L14AM7-R400	43.25
6"	1.500	5.782	6.000	L14AM7-G600	200.20	L14AM7-R600	230.20
8"	1.500	7.760	8.000	L14AM7-G800	267.00	L14AM7-R800	474.05
10"	1.750	9.782	10.000	L14AM7-G1000	563.90	L14AM7-R1000	734.65
12"	1.750	11.760	12.000	L14AM7-G1200	861.85	L14AM7-R1200	1052.55

3 Automatic Weld Ferrules - TL14AM7

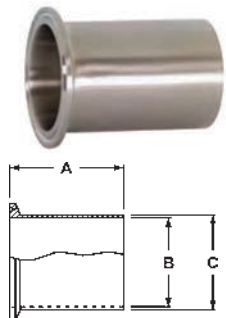
Specification:

- meets ASME BPE-2012 specifications



Tube OD	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
½"	1.750	.370	.500	TL14AM7-050PL	\$28.10
¾"	1.750	.620	.750	TL14AM7-075PL	28.10
1"	1.750	.870	1.000	TL14AM7-100PL	26.55
1½"	1.750	1.370	1.500	TL14AM7-150PL	28.05
2"	2.250	1.870	2.000	TL14AM7-200PL	38.70
3"	2.250	2.870	3.000	TL14AM7-300PL	81.10
4"	2.250	3.834	4.000	TL14AM7-400PL	143.85

3 Tank Weld Ferrules (light duty) - 14WLMF



Tube OD	Dimensions			304 Stainless Steel		316L Stainless Steel	
	A	B	C	Part #	Price/E	Part #	Price/E
1"	3.000	.870	1.000	14WLMF-G100	\$30.65	14WLMF-R100	\$90.05
1½"	3.000	1.370	1.500	14WLMF-G150	30.65	14WLMF-R150	90.05
2"	3.000	1.870	2.000	14WLMF-G200	38.55	14WLMF-R200	110.00
2½"	3.000	2.370	2.500	14WLMF-G250	53.10	14WLMF-R250	156.25
3"	4.000	2.870	3.000	14WLMF-G300	66.40	14WLMF-R300	207.75
4"	4.000	3.834	4.000	14WLMF-G400	103.70	14WLMF-R400	311.85
6"	6.000	5.782	6.000	14WLMF-G600	407.00	14WLMF-R600	631.20

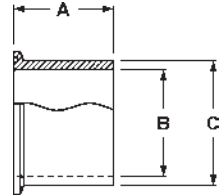
Clamp Ferrules

Tank Weld Ferrules (heavy duty) - 14MPW 

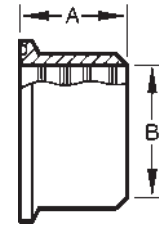
Specification:

- certified ASME materials

Tube OD	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
½"	1.625	.321	.502	14MPW-R50	\$59.70
¾"	1.625	.574	.750	14MPW-R75	59.70
1"	1.625	.870	1.160	14MPW-R100	36.40
1½"	1.625	1.370	1.676	14MPW-R150	36.40
2"	1.750	1.870	2.192	14MPW-R200	46.20
2½"	1.750	2.370	2.708	14MPW-R250	64.75
3"	1.813	2.870	3.224	14MPW-R300	84.40
4"	2.125	3.834	4.256	14MPW-R400	152.70
6"	2.500	5.758	6.192	14MPW-R600	798.10

Roll-on Ferrules for Expanding - 14RMP 

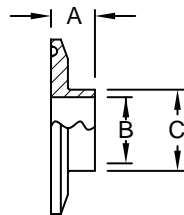
Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	B	Part #	Price/E	Part #	Price/E
1"	.750	1.005	14RMP-G100	\$13.10	14RMP-R100	\$40.00
1½"	1.125	1.505	14RMP-G150	16.60	14RMP-R150	25.25
2"	1.312	2.005	14RMP-G200	21.85	14RMP-R200	38.20
2½"	1.375	2.505	14RMP-G250	29.35	14RMP-R250	115.45
3"	1.437	3.005	14RMP-G300	34.65	14RMP-R300	102.30
4"	1.500	4.005	14RMP-G400	36.60	14RMP-R400	199.75



¹ for use when modifying or repairing existing on-site farm milk handling systems

Reducing Ferrules - B31WMP 

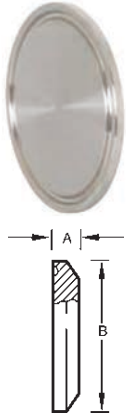
Tube OD	Dimensions			304 Stainless Steel	
	A	B	C	Part #	Price/E
2" x 1"	.500	.870	1.000	B31WMP-G200100	\$140.65
2½" x 1½"	.500	1.370	1.500	B31WMP-G250150	298.15
2½" x 2"	.500	1.870	2.000	B31WMP-G250200	270.65
3" x 2"	.500	1.870	2.000	B31WMP-G300200	326.25
4" x 3"	.625	2.870	3.000	B31WMP-G400300	589.75



M

Clamp Caps

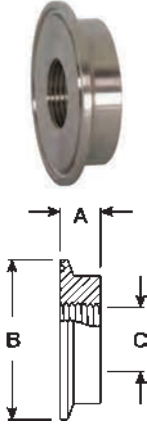
3 Solid End Caps - 16AMP



- Specify if you are using a piping system or a tubing system when ordering.

Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	B	Part #	Price/E	Part #	Price/E
1/2" - 3/4"	.187	.992	16AMP-G50-75	\$5.90	16AMP-R50-75	\$8.75
1" - 1 1/2"	.250	1.984	16AMP-G100-150	8.15	16AMP-R100-150	9.95
2"	.250	2.516	16AMP-G200	9.10	16AMP-R200	12.95
2 1/2"	.250	3.047	16AMP-G250	13.65	16AMP-R250	19.15
3"	.250	3.579	16AMP-G300	18.70	16AMP-R300	25.40
4"	.312	4.682	16AMP-G400	34.75	16AMP-R400	48.70
5"	.312	5.687	16AMP-G500	525.00	16AMP-R500	633.85
6"	.437	6.570	16AMP-G600	133.65	16AMP-R600	165.00
8"	.437	8.570	16AMP-G800	296.45	16AMP-R800	369.35
10"	.437	10.570	16AMP-G1000	451.15	16AMP-R1000	885.65
12"	.437	12.750	16AMP-G1200	624.35	16AMP-R1200	1199.95

Thermometer Caps - B23BMP



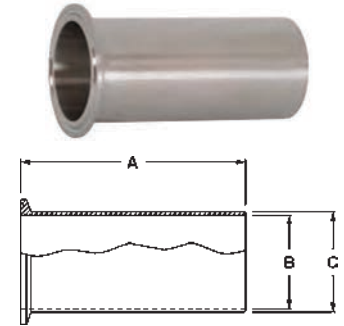
Tube OD	Dimensions			304 Stainless Steel		316L Stainless Steel	
	A	B	C ¹	Part #	Price/E	Part #	Price/E
1/2"	.500	.993	1/4 NPT	---	---	B23BMP-R5014	\$216.25
3/4"	.500	.993	1/4 NPT	---	---	B23BMP-R7514	240.30
1"	.625	1.984	1/2 NPT	B23BMP-G100	\$39.60	B23BMP-R100	50.25
1 1/2"	.625	1.984	3/4 NPT	B23BMP-G150	34.70	B23BMP-R150	50.25
2"	.625	2.516	3/4 NPT	B23BMP-G200	52.15	B23BMP-R200	66.70
2 1/2"	.625	3.047	3/4 NPT	B23BMP-G250	68.20	B23BMP-R250	108.20
3"	.625	3.579	3/4 NPT	B23BMP-G300	89.75	B23BMP-R300	116.00
4"	.625	4.682	3/4 NPT	B23BMP-G400	135.35	B23BMP-R400	179.50

- ¹ other NPT tap sizes available, call Dixon Sanitary

Clamp Adapters

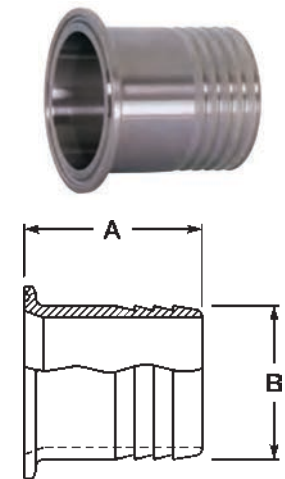
Tygon® Hose Adapters - 14MPHT

Tube OD	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
¾"	4.000	.620	.750	14MPHT-R75	\$200.15
1"	4.500	.870	1.000	14MPHT-R100	68.20
1½"	4.500	1.370	1.500	14MPHT-R150	68.20
2"	4.500	1.870	2.000	14MPHT-R200	75.00
2½"	4.500	2.370	2.500	14MPHT-R250	100.00
3"	4.500	2.870	3.000	14MPHT-R300	124.75
4"	4.625	3.834	4.000	14MPHT-R400	200.10



Rubber Hose Adapters - 14MPHR

Tube OD	Hose Size	Dimensions		304 Stainless Steel		316L Stainless Steel	
		A	B	Part #	Price/E	Part #	Price/E
1/2"	1/4"	1.500	.250	---	---	14MPHR-R5025	129.60
1/2"	1/2"	1.500	.500	---	---	14MPHR-R50	89.90
1/2"	3/4"	1.500	.750	---	---	14MPHR-R5075	129.60
3/4"	1/4"	1.500	.250	---	---	14MPHR-R7525	106.85
3/4"	3/8"	1.500	.375	---	---	14MPHR-R75375	106.85
3/4"	1/2"	1.500	.500	---	---	14MPHR-R7550	106.85
3/4"	3/4"	1.500	.750	---	---	14MPHR-R75	94.00
1"	3/8"	1.500	.375	---	---	14MPHR-R100375	194.10
1"	1/2"	1.500	.500	14MPHR-G10050	\$158.45	14MPHR-R10050	186.40
1"	3/4"	1.688	.750	14MPHR-G10075	158.45	14MPHR-R10075	232.05
1"	1"	1.688	1.000	14MPHR-G100	40.40	14MPHR-R100	162.90
1-1/2"	1/2"	1.500	.500	14MPHR-G15050	116.25	14MPHR-R15050	204.10
1-1/2"	5/8"	1.500	.625	---	---	14MPHR-R150625	204.10
1-1/2"	3/4"	1.500	.750	14MPHR-G15075	116.25	14MPHR-R15075	204.10
1-1/2"	1"	1.687	1.000	14MPHR-G150100	109.30	14MPHR-R150100	171.85
1-1/2"	1-1/2"	1.689	1.500	14MPHR-G150	44.75	14MPHR-R150	137.70
2"	1-1/2"	2.312	1.500	14MPHR-G200150	212.05	14MPHR-R200150	291.90
2"	2"	2.312	2.000	14MPHR-G200	63.90	14MPHR-R200	148.85
2-1/2"	2-1/2"	2.344	2.500	14MPHR-G250	93.65	14MPHR-R250	267.35
3"	3"	3.094	3.000	14MPHR-G300	110.85	14MPHR-R300	299.45
4"	4"	3.406	4.000	14MPHR-G400	148.95	14MPHR-R400	662.55
6"	6"	3.406	6.000	14MPHR-G600	1280.55	14MPHR-R600	1807.00

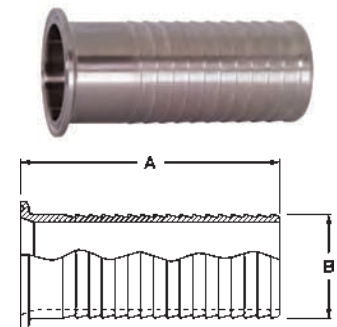
**M**

Brewery Hose Barb Adapters - 14MPHRL

Feature:

- suitable for use with band clamps

Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	3.500	1.045	14MPHRL100	\$56.60
1½"	5.000	1.545	14MPHRL150	64.20
2"	5.000	2.045	14MPHRL200	82.15
2½"	5.500	2.545	14MPHRL250	100.30
3"	5.500	3.045	14MPHRL300	132.05
4"	5.500	4.045	14MPHRL400	183.40

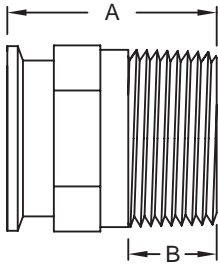


Use of PVC tubing requires special techniques to prevent leakage. All assembly work must be done with heated tube. Cold durometer is 90 as opposed to rubber hose at 65 to 70 durometer. Banding buckles must be at 180° from one another.

Clamp Adapters

Clamp x Male NPT Adapters - 21MP

Tube OD	NPT Size	Dimensions		304 Stainless Steel		316L Stainless Steel	
		A	B	Part #	Price/E	Part #	Price/E
1/2"	1/4"	2.000	.595	---	---	21MP-R5025	\$85.80
1/2"	3/8"	2.000	.600	---	---	21MP-R50375	85.80
1/2"	1/2"	1.625	.782	---	---	21MP-R50	78.30
1/2"	3/4"	2.000	.794	---	---	21MP-R5075	111.15
3/4"	1/4"	2.000	.595	---	---	21MP-R7525	95.35
3/4"	3/8"	2.000	.600	---	---	21MP-R75375	160.85
3/4"	1/2"	2.000	.782	---	---	21MP-R7550	95.35
3/4"	3/4"	1.787	.794	---	---	21MP-R75	66.35
1"	1/2"	2.187	.782	21MP-G10050	\$140.55	21MP-R10050	153.85
1"	3/4"	2.187	.794	21MP-G10075	97.15	21MP-R10075	153.85
1"	1"	2.250	.985	21MP-G100	93.70	21MP-R100	109.75
1"	1-1/4"	2.438	1.009	21MP-G100125	203.75	21MP-R100125	207.75
1"	1-1/2"	2.438	1.025	21MP-G100150	193.60	21MP-R100150	221.10
1"	2"	2.625	1.058	21MP-G100200	322.25	21MP-R100200	532.35
1-1/2"	3/8"	2.187	.600	21MP-G150375	189.80	21MP-R150375	236.50
1-1/2"	1/2"	2.187	.782	21MP-G15050	150.25	21MP-R15050	173.00
1-1/2"	3/4"	2.187	.794	21MP-G15075	156.75	21MP-R15075	179.50
1-1/2"	1"	2.437	.985	21MP-G150100	96.75	21MP-R150100	106.00
1-1/2"	1-1/4"	2.438	1.009	21MP-G150125	170.85	21MP-R150125	186.60
1-1/2"	1-1/2"	2.250	1.025	21MP-G150	92.75	21MP-R150	108.30
1-1/2"	2"	2.625	1.058	21MP-G150200	215.80	21MP-R150200	354.50
2"	1/2"	2.188	.782	21MP-G20050	360.40	21MP-R20050	431.95
2"	3/4"	2.188	.794	21MP-G20075	302.25	21MP-R20075	388.55
2"	1"	2.469	.985	21MP-G200100	235.35	21MP-R200100	243.75
2"	1-1/2"	2.625	1.009	21MP-G200150	111.30	21MP-R200150	151.95
2"	2"	2.638	1.058	21MP-G200	112.05	21MP-R200	159.40
2-1/2"	1/2"	2.781	.782	21MP-G25050	628.70	21MP-R25050	811.15
2-1/2"	1"	2.781	.782	21MP-G250100	515.15	21MP-R250100	680.20
2-1/2"	1-1/2"	2.781	1.025	21MP-G250150	395.40	21MP-R250150	473.25
2-1/2"	2"	2.781	1.058	21MP-G250200	350.75	21MP-R250200	423.45
2-1/2"	2-1/2"	2.875	1.571	21MP-G250	215.95	21MP-R250	420.90
3"	1-1/2"	3.000	1.009	21MP-G300150	559.30	21MP-R300150	721.50
3"	2"	3.000	1.058	21MP-G300200	559.30	21MP-R300200	721.50
3"	3"	3.070	1.634	21MP-G300	193.80	21MP-R300	279.55
4"	4"	3.155	1.734	21MP-G400	289.70	21MP-R400	629.85



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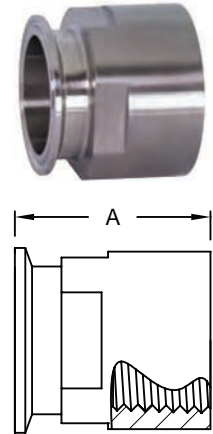
See pages 705-708 for pipe thread data.

Clamp Adapters

Clamp x Female NPT Adapters - 22MP

Tube OD	NPT Size	Dimension A	304 Stainless Steel		316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
1/2"	1/4"	1.500	---	---	22MP-R5025	\$66.50
1/2"	3/8"	1.500	---	---	22MP-R50375	192.00
1/2"	1/2"	1.500	---	---	22MP-R50	77.90
1/2"	3/4"	1.500	---	---	22MP-R5075	192.00
3/4"	1/4"	1.500	---	---	22MP-R7525	193.20
3/4"	1/2"	1.625	---	---	22MP-R7550	154.60
3/4"	3/4"	1.625	---	---	22MP-R75	76.35
1"	1/4"	1.625	---	---	22MP-R10025	256.15
1"	1/2"	1.625	22MP-G10050	\$215.80	22MP-R10050	216.70
1"	3/4"	1.625	22MP-G10075	215.80	22MP-R10075	216.70
1"	1"	1.625	22MP-G100	89.70	22MP-R100	119.10
1"	1-1/4"	1.625	---	---	22MP-R100125	368.15
1-1/2"	1/2"	1.625	22MP-G15050	213.65	22MP-R15050	216.30
1-1/2"	3/4"	1.625	22MP-G15075	160.25	22MP-R15075	216.30
1-1/2"	1"	2.250	22MP-G150100	82.90	22MP-R150100	102.15
1-1/2"	1-1/2"	2.250	22MP-G150	93.55	22MP-R150	125.60
1-1/2"	2"	2.500	22MP-G150200	293.15	22MP-R150200	347.00
2"	1"	1.687	22MP-G200100	382.60	22MP-R200100	365.25
2"	1-1/2"	2.344	22MP-G200150	117.35	22MP-R200150	354.75
2"	2"	2.406	22MP-G200	117.50	22MP-R200	156.75
2"	2-1/2"	2.406	22MP-G200250	387.75	---	---
2-1/2"	2"	2.093	22MP-G250200	553.95	22MP-R250200	565.85
2-1/2"	2-1/2"	2.187	22MP-G250	274.30	22MP-R250	410.70
3"	2"	2.187	22MP-G300200	595.05	22MP-R300200	972.40
3"	2-1/2"	2.187	22MP-G300250	666.40	22MP-R300250	827.35
3"	3"	2.187	22MP-G300	192.25	22MP-R300	289.65
4"	4"	3.652	22MP-G400	335.10	22MP-R400	654.60

See pages 705-708 for pipe thread data.



Transition Fittings ¹

Cam and Groove Adapter x Clamp End

Feature:

- does not have sanitary polish

Size	316 Stainless Steel Part #	Price/E
1½"	RE150SE	\$162.75
2"	RE200SE	172.45
3"	RE300SE	378.00



Cam and Groove Coupler x Clamp End

Feature:

- does not have sanitary polish

Size	316 Stainless Steel Part #	Price/E
1½"	RC150SE	\$270.00
2"	RC200SE	310.50
3"	RC300SE	490.00

¹ for all other cam and groove options see section B

Dixon Weld to Tube Cam and Groove ¹

Features:

- 316 stainless steel investment casting
- designed to be welded to standard sanitary tubing
- does not have sanitary polish

Cam and Groove Adapter x Weld to Tube End

Size	316 Stainless Steel Part #	Price/E
1"	RE100BT	\$130.00
1½"	RE150BT	143.00
2"	RE200BT	158.00
3"	RE300BT	357.00



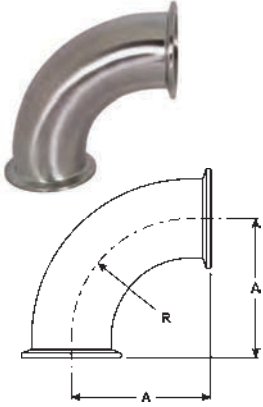
Boss-Lock Coupler x Weld to Tube End

Size	316 Stainless Steel Part #	Price/E
1"	RC100BT	\$195.00
1½"	RC150BT	240.00
2"	RC200BT	260.00
3"	RC300BT	425.00

¹ for all other cam and groove options see section B

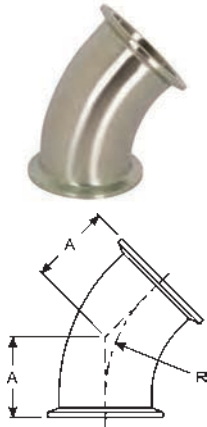
Clamp Elbows

3 90° Clamp Elbows - B2CMP



Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	R	Part #	Price/E	Part #	Price/E
1/2"	1.625	1.125	---	---	B2CMP-R50	\$101.80
3/4"	1.625	1.125	---	---	B2CMP-R75	117.05
1"	2.000	1.500	B2CMP-G100	\$48.15	B2CMP-R100	62.25
1 1/2"	2.750	2.250	B2CMP-G150	49.80	B2CMP-R150	66.80
2"	3.500	3.000	B2CMP-G200	65.90	B2CMP-R200	88.35
2 1/2"	4.250	3.750	B2CMP-G250	89.55	B2CMP-R250	126.10
3"	5.000	4.500	B2CMP-G300	126.85	B2CMP-R300	175.35
4"	6.625	6.000	B2CMP-G400	214.45	B2CMP-R400	264.95
6"	9.875	9.000	B2CMP-G600	728.05	B2CMP-R600	830.10

3 45° Clamp Elbows - B2KMP



Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	R	Part #	Price/E	Part #	Price/E
1/2"	.996	1.125	---	---	B2KMP-R50	\$106.25
3/4"	.966	1.125	---	---	B2KMP-R75	130.30
1"	1.125	1.500	B2KMP-G100	\$42.50	B2KMP-R100	56.40
1 1/2"	1.437	2.250	B2KMP-G150	45.85	B2KMP-R150	62.00
2"	1.750	3.000	B2KMP-G200	64.60	B2KMP-R200	80.45
2 1/2"	2.062	3.750	B2KMP-G250	87.65	B2KMP-R250	115.90
3"	2.375	4.500	B2KMP-G300	118.60	B2KMP-R300	151.45
4"	3.125	6.000	B2KMP-G400	193.75	B2KMP-R400	245.10
6"	4.625	9.000	B2KMP-G600	731.00	B2KMP-R600	1045.75

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3 90° Clamp x Plain Bevel Seat with Hex Nut Elbows - B2FMP-14

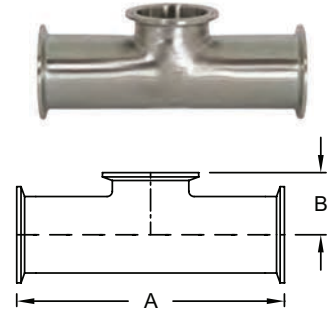


Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
2"	3.750	3.500	B2FMP-14-G200	\$233.95
2 1/2"	4.625	4.250	B2FMP-14-G250	280.50
3"	5.406	5.000	B2FMP-14-G300	391.65

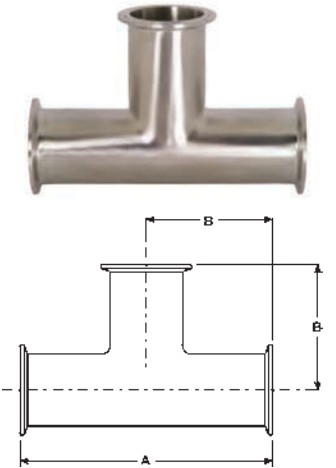
Clamp Tees

Short Outlet Clamp Tees - *B7MPS*

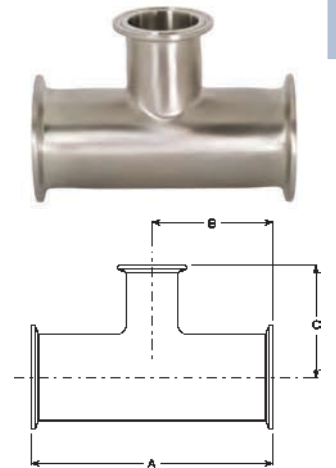
Tube OD	Dimensions		316L Stainless Steel	
	A	B	Part #	Price/E
1½"	5.500	1.375	B7MPS-R150	\$275.05
2"	7.000	1.625	B7MPS-R200	318.15
2½"	7.000	1.875	B7MPS-R250	341.10

Clamp Tees - *B7MP*

Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	B	Part #	Price/E	Part #	Price/E
½"	4.750	2.375	---	---	B7MP-R50	\$175.25
¾"	5.000	2.500	---	---	B7MP-R75	155.00
1"	4.750	2.375	B7MP-G100	\$78.20	B7MP-R100	116.85
1½"	5.500	2.750	B7MP-G150	88.00	B7MP-R150	121.95
2"	7.000	3.500	B7MP-G200	109.00	B7MP-R200	141.55
2½"	7.000	3.500	B7MP-G250	139.25	B7MP-R250	189.85
3"	7.500	3.750	B7MP-G300	188.95	B7MP-R300	264.90
4"	9.000	4.500	B7MP-G400	259.20	B7MP-R400	356.55
6"	13.000	6.500	B7MP-G600	1127.50	B7MP-R600	1293.75
8"	15.750	7.875	B7MP-G800	2132.85	B7MP-R800	3471.60

Clamp Reducing Tees - *B7RMP*

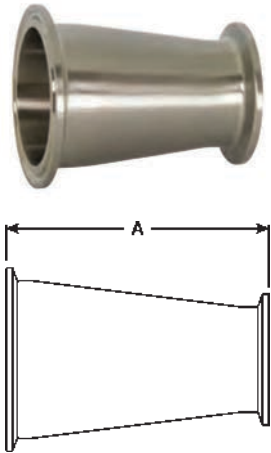
Tube OD	Dimensions			304 Stainless Steel		316L Stainless Steel	
	A	B	C	Part #	Price/E	Part #	Price/E
1" x ¾"	5.250	2.625	2.625	---	---	B7RMP-R10075	\$236.55
1½" x ½"	5.750	2.875	2.875	---	---	B7RMP-R15050	241.05
1½" x 1"	4.312	2.156	1.875	---	---	B7RMP-R150100	189.95
2" x ½"	6.750	3.375	3.125	---	---	B7RMP-R20050	687.05
2" x ¾"	6.750	3.375	3.125	---	---	B7RMP-R20075	722.50
2" x 1"	5.125	2.562	2.125	B7RMP-G200100	\$218.60	B7RMP-R200100	224.85
2" x 1½"	5.125	2.562	2.406	B7RMP-G200150	167.25	B7RMP-R200150	244.15
2½" x 1½"	5.688	2.844	2.812	B7RMP-G250150	235.05	B7RMP-R250150	328.40
2½" x 2"	5.688	2.844	2.812	B7RMP-G250200	202.40	B7RMP-R250200	237.45
3" x 1½"	6.188	3.093	2.906	B7RMP-G300150	288.25	B7RMP-R300150	444.40
3" x 2"	6.188	3.093	3.063	B7RMP-G300200	243.20	B7RMP-R300200	363.95
4" x 1½"	8.125	4.063	3.406	B7RMP-G400150	388.35	---	---
4" x 2"	8.125	4.063	3.563	B7RMP-G400200	388.35	---	---



M

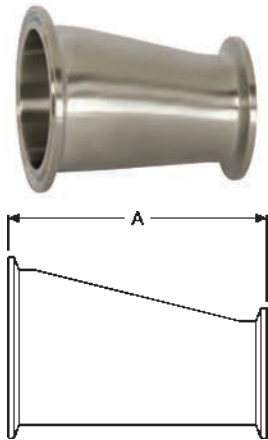
Clamp Reducers

3. Clamp Concentric Reducers - B3114MP



Tube OD	Dimension A	304 Stainless Steel		316L Stainless Steel	
		Part #	Price/E	Part #	Price/E
1" x 1/2"	3.000	---	---	B3114MP-R10050	\$235.50
1" x 3/4"	2.000	---	---	B3114MP-R10075	201.45
1 1/2" x 1/2"	5.000	---	---	B3114MP-R15050	304.05
1 1/2" x 3/4"	4.000	---	---	B3114MP-R15075	303.95
1 1/2" x 1"	3.000	B3114MP-G150100	\$80.10	B3114MP-R150100	87.65
2" x 3/4"	6.000	---	---	B3114MP-R20075	495.45
2" x 1"	5.000	B3114MP-G200100	109.80	B3114MP-R200100	132.20
2" x 1 1/2"	3.000	B3114MP-G200150	84.20	B3114MP-R200150	93.25
2 1/2" x 1 1/2"	5.000	B3114MP-G250150	117.80	B3114MP-R250150	126.20
2 1/2" x 2"	3.000	B3114MP-G250200	101.85	B3114MP-R250200	115.40
3" x 1 1/2"	7.000	B3114MP-G300150	200.20	B3114MP-R300150	244.65
3" x 2"	5.000	B3114MP-G300200	137.40	B3114MP-R300200	158.85
3" x 2 1/2"	3.000	B3114MP-G300250	125.60	B3114MP-R300250	139.60
4" x 1 1/2"	11.125	B3114MP-G400150	453.40	B3114MP-R400150	535.90
4" x 2"	9.125	B3114MP-G400200	258.20	B3114MP-R400200	291.00
4" x 2 1/2"	7.125	B3114MP-G400250	293.35	B3114MP-R400250	307.50
4" x 3"	5.125	B3114MP-G400300	175.05	B3114MP-R400300	186.25
6" x 4"	7.000	B3114MP-G600400	704.80	---	---

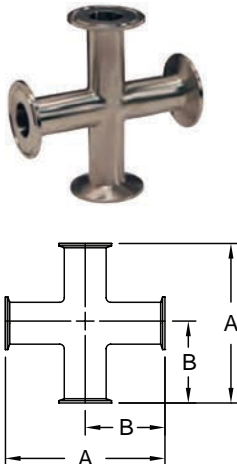
3. Clamp Eccentric Reducers - B3214MP



Tube OD	Dimension A	304 Stainless Steel		316L Stainless Steel	
		Part #	Price/E	Part #	Price/E
1 1/2" x 1"	3.000	B3214MP-G150100	\$90.45	B3214MP-R150100	\$123.70
2" x 1"	5.000	B3214MP-G200100	213.25	B3214MP-R200100	338.95
2" x 1 1/2"	3.000	B3214MP-G200150	102.90	B3214MP-R200150	154.80
2 1/2" x 1 1/2"	5.000	B3214MP-G250150	127.05	B3214MP-R250150	216.70
2 1/2" x 2"	3.000	B3214MP-G250200	119.60	B3214MP-R250200	198.85
3" x 1 1/2"	7.000	B3214MP-G300150	230.75	B3214MP-R300150	259.40
3" x 2"	5.000	B3214MP-G300200	166.70	B3214MP-R300200	183.90
3" x 2 1/2"	3.000	B3214MP-G300250	202.05	B3214MP-R300250	211.15
4" x 2"	9.125	B3214MP-G400200	319.30	B3214MP-R400200	338.05
4" x 2 1/2"	7.125	B3214MP-G400250	310.95	B3214MP-R400250	395.80
4" x 3"	5.125	B3214MP-G400300	227.10	B3214MP-R400300	329.15
6" x 3"	6.875	B3214MP-G600300	980.45	---	---
6" x 4"	7.000	B3214MP-G600400	1067.95	---	---

Clamp Crosses

3. Clamp Crosses - B9MP

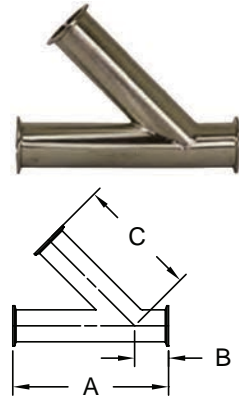


Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	B	Part #	Price/E	Part #	Price/E
1"	4.750	2.375	B9MP-G100	\$275.25	B9MP-R100	\$304.70
1 1/2"	5.500	2.750	B9MP-G150	284.45	B9MP-R150	324.25
2"	7.000	3.500	B9MP-G200	308.70	B9MP-R200	373.80
3"	7.500	3.750	B9MP-G300	479.15	B9MP-R300	722.00
4"	9.000	4.500	B9MP-G400	814.90	B9MP-R400	1163.30

Miscellaneous Configurations

Clamp Laterals - B28AMP

Tube OD	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
1"	7.000	1.500	5.500	B28AMP-R100	\$613.45
1½"	8.375	1.688	6.688	B28AMP-R150	618.35
2"	9.750	2.125	7.625	B28AMP-R200	641.65
3"	11.750	2.375	9.375	B28AMP-R300	994.70
4"	14.062	2.640	11.312	B28AMP-R400	1744.90



Clamp True Wyes - B28BMP

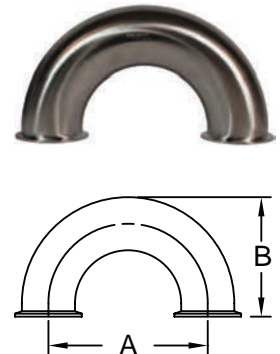
Tube OD	Dimensions		316L Stainless Steel	
	A	B	Part #	Price/E
1"	2.500	2.938	B28BMP-R100	\$571.95
1½"	2.500	2.938	B28BMP-R150	618.35
2"	3.125	3.750	B28BMP-R200	641.65
3"	4.500	5.375	B28BMP-R300	973.05
4"	6.000	6.000	B28BMP-R400	1673.55



Clamp 180° Return Bends - B2WUMP

- bends are the standard 1.5 x tube diameter

Tube OD	Dimensions		316L Stainless Steel	
	A	B	Part #	Price/E
1"	3.000	2.500	B2WUMP-R100	\$290.00
1½"	4.500	3.500	B2WUMP-R150	316.95
2"	6.000	4.500	B2WUMP-R200	422.65
3"	9.000	6.500	B2WUMP-R300	739.50
4"	12.000	8.625	B2WUMP-R400	1022.75



M

Clamp End Protection Covers - BCC

Feature:

- Use these covers to protect all clamp ends on fittings, valves, filters and pumps.

Size	Vinyl Plastic Part Number	Price/E
½"	BCC-050	\$1.50
¾"	BCC-075	1.50
1"	BCC-100	2.20
1½"	BCC-150	2.20
2"	BCC-200	2.85
2½"	BCC-250	3.75
3"	BCC-300	4.95
4"	BCC-400	6.55
6"	BCC-600	16.95
8"	BCC-800	30.55

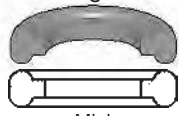


NEW
FOR 2013

Clamp Gaskets

Features:

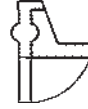
Gasket material approved by 3-A (3A), USDA and complies with FDA's 21CFR177.2600 and 1550. PSI Service Ratings for the sanitary clamps *DO NOT APPLY* to connections (1" and above) using any PTFE gaskets, due to the potential for cold flow under normal operating conditions. PTFE gaskets, when used with any clamp, are likely to leak at pressures far below the published service ratings. This restriction *does not apply* to the fractionally sized 1/2" and 3/4" connections, due to their recessed, fully contained design.



Mini

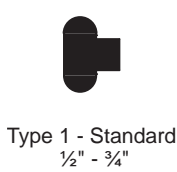


Standard - type 1

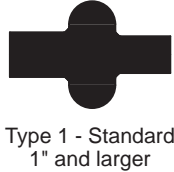


Flanged - type 2

Buna-N Clamp Gaskets - Black



Type 1 - Standard
1/2" - 3/4"



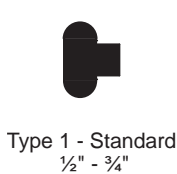
Type 1 - Standard
1" and larger

Features:

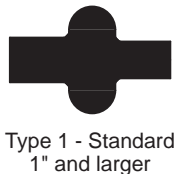
- color code: red dot
- meets 21CFR 177.2600

Size	Part #	Price/E
1/2"	42MP-U50	\$1.75
3/4"	42MP-U75	2.50
1"	40MP-U100	0.85
1 1/2"	40MP-U150	0.65
2"	40MP-U200	0.85
2 1/2"	40MP-U250	0.85
3"	40MP-U300	1.05
4"	40MP-U400	1.80
5"	40MP-U500	8.90
6"	40MP-U600	19.70
8"	40MP-U800	28.30

Buna-N Clamp Gaskets - White



Type 1 - Standard
1/2" - 3/4"



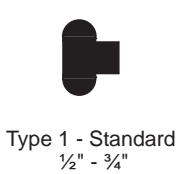
Type 1 - Standard
1" and larger

Features:

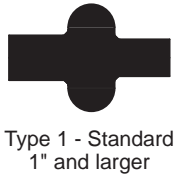
- color code: red dot
- meets 21CFR 177.2600

Size	Part #	Price/E
1/2"	42MP-UW50	\$2.85
3/4"	42MP-UW75	3.25
1"	40MP-UW100	1.50
1 1/2"	40MP-UW150	1.40
2"	40MP-UW200	1.65
2 1/2"	40MP-UW250	1.55
3"	40MP-UW300	1.80
4"	40MP-UW400	3.25
6"	40MP-UW600	32.50

EPDM Clamp Gaskets - Black



Type 1 - Standard
1/2" - 3/4"



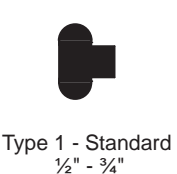
Type 1 - Standard
1" and larger

Features:

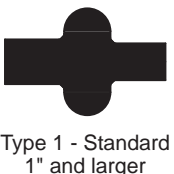
- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed USP Class VI Cytotoxicity testing

Size	Part #	Price/E
1/2"	42MP-E50	\$2.20
3/4"	42MP-E75	2.45
1"	40MP-E100	2.20
1 1/2"	40MP-E150	2.10
2"	40MP-E200	2.20
2 1/2"	40MP-E250	2.80
3"	40MP-E300	3.25
4"	40MP-E400	3.55
6"	40MP-E600	21.40

FKM Clamp Gaskets - Black



Type 1 - Standard
1/2" - 3/4"



Type 1 - Standard
1" and larger

Features:

- color code: one white dot, one yellow dot
- peroxide cured
- meets 21CFR 177.2600
- passed USP Class VI Cytotoxicity testing

Size	Part #	Price/E
1/2"	42MP-SFY50	\$5.75
3/4"	42MP-SFY75	6.30
1"	40MP-SFY100	6.30
1 1/2"	40MP-SFY150	4.55
2"	40MP-SFY200	4.80
2 1/2"	40MP-SFY250	8.75
3"	40MP-SFY300	11.05
4"	40MP-SFY400	16.30
6"	40MP-SFY600	54.75

See pages 431-432 for sizing charts.

Clamp Gaskets

Silicone Clamp Gaskets - *White*

Size	Part #	Price/E
1/2"	42MP-XW50	\$3.00
3/4"	42MP-XW75	3.40
1"	40MP-XW100	3.25
1 1/2"	40MP-XW150	2.75
2"	40MP-XW200	3.25
2 1/2"	40MP-XW250	4.40
3"	40MP-XW300	4.85
4"	40MP-XW400	5.75
6"	40MP-XW600	36.95

Type 1 - Standard
1/2" - 3/4"Type 1 - Standard
1" and larger**Features:**

- color code: pink dot
- peroxide cured
- meets 21CFR 177.2600
- passed USP Class VI Cytotoxicity testing

Silicone Clamp Gaskets - *Clear*

Size	Part #	Price/E
1/2"	42MP-XC50	\$3.00
3/4"	42MP-XC75	3.40
1"	40MP-XC100	4.40
1 1/2"	40MP-XC150	4.40
2"	40MP-XC200	4.55
2 1/2"	40MP-XC250	5.50
3"	40MP-XC300	6.30
4"	40MP-XC400	8.75

Type 1 - Standard
1/2" - 3/4"Type 1 - Standard
1" and larger**Features:**

- color code: no dot
- peroxide cured
- meets 21CFR 177.2600
- passed USP Class VI Cytotoxicity testing

PTFE Clamp Gaskets - *White*

Size	Part #	Price/E
1/2"	42MP-G50	\$3.25
3/4"	42MP-G75	3.00
1"	40MP-G100	2.85
1 1/2"	40MP-G150	2.05
2"	40MP-G200	2.45
2 1/2"	40MP-G250	3.15
3"	40MP-G300	3.40
4"	40MP-G400	9.75
5"	40MP-G500	79.35
6"	40MP-G600	43.65
8"	40MP-G800	75.05
10"	40MP-G1000	89.50
12"	40MP-G1200	230.15

Type 1 - Standard
1/2" - 3/4"Type 1 - Standard
1" and larger**Features:**

- color code: no dot
- meets 21CFR 177.1550
- passed USP Class VI Cytotoxicity testing
- not recommended for use with bolted clamps



PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

See pages 431-432 for sizing charts.

Metal Detectable Clamp Gaskets

Feature:

- Metal detectable gaskets are impregnated with stainless steel particles. The addition of stainless steel allows a gasket or gasket pieces to be found with metal detection equipment.

Buna-N Metal Detectable Clamp Gaskets



Type 1 - Standard
1" and larger

Features:

- minimum temperature: **-20°F**
- maximum temperature: **212°F**
- good general use where temperature extremes do not exist

Size	Part #	Price/E
1"	40MP-UZ100	\$3.75
1½"	40MP-UZ150	3.50
2"	40MP-UZ200	3.80
2½"	40MP-UZ250	5.90
3"	40MP-UZ300	6.40
4"	40MP-UZ400	6.45

EPDM Metal Detectable Clamp Gaskets



Type 1 - Standard
1" and larger

Features:

- minimum temperature: **-70°F**
- maximum temperature: **310°F**
- resistant to steam, water and base solutions

Size	Part #	Price/E
1"	40MP-EZ100	\$5.25
1½"	40MP-EZ150	5.10
2"	40MP-EZ200	5.35
2½"	40MP-EZ250	6.95
3"	40MP-EZ300	7.70
4"	40MP-EZ400	10.20

FKM Metal Detectable Clamp Gaskets



Type 1 - Standard
1" and larger

Features:

- minimum temperature: **-20°F**
- maximum temperature: **410°F**
- resistant to steam, heat and high acid solutions

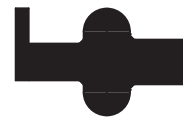
Size	Part #	Price/E
1"	40MP-SFYZ100	\$11.70
1½"	40MP-SFYZ150	11.25
2"	40MP-SFYZ200	11.55
2½"	40MP-SFYZ250	19.45
3"	40MP-SFYZ300	23.60
4"	40MP-SFYZ400	30.50

See pages 431-432 for sizing charts.

Clamp Gaskets


Buna-N Flanged Clamp Gaskets - *Black*

Size	Part #	Price/E
1"	40MPF-U100	\$2.05
1½"	40MPF-U150	1.80
2"	40MPF-U200	2.05
2½"	40MPF-U250	2.45
3"	40MPF-U300	3.40
4"	40MPF-U400	4.55
6"	40MPF-U600	26.70
8"	40MPF-U800	27.85
10"	40MPF-U1000	81.90
12"	40MPF-U1200	99.80

Type 2 - Flanged
1" and larger**Features:**

- color code: red dot
- meets 21CFR 177.2600
- not recommended for use with bolted clamps

Buna-N Flanged Clamp Gaskets - *White*

Size	Part #	Price/E
1"	40MPF-UW100	\$3.15
1½"	40MPF-UW150	2.45
2"	40MPF-UW200	2.85
2½"	40MPF-UW250	4.80
3"	40MPF-UW300	4.80
4"	40MPF-UW400	6.70
6"	40MPF-UW600 	35.60

Type 2 - Flanged
1" and larger**Features:**

- color code: red dot
- meets 21CFR 177.2600
- not recommended for use with bolted clamps

EPDM Flanged Clamp Gaskets - *Black*

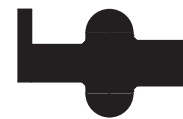
Size	Part #	Price/E
1"	40MPF-E100	\$3.65
1½"	40MPF-E150	3.40
2"	40MPF-E200	3.80
2½"	40MPF-E250	5.60
3"	40MPF-E300	6.05
4"	40MPF-E400	6.55
6"	40MPF-E600	42.60
8"	40MPF-E800	61.85
10"	40MPF-E1000	73.00
12"	40MPF-E1200	77.90

Type 2 - Flanged
1" and larger**Features:**

- color code: three green dots
- peroxide cured
- meets 21CFR 177.2600
- passed USP Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

FKM Flanged Clamp Gaskets - *Black*

Size	Part #	Price/E
1"	40MPF-SFY100	\$11.80
1½"	40MPF-SFY150	8.75
2"	40MPF-SFY200	10.10
2½"	40MPF-SFY250	17.50
3"	40MPF-SFY300	18.30
4"	40MPF-SFY400	21.20
6"	40MPF-SFY600	63.80
8"	40MPF-SFY800	106.35
10"	40MPF-SFY1000	133.65
12"	40MPF-SFY1200	145.80

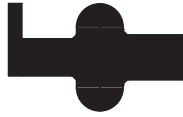
Type 2 - Flanged
1" and larger**Features:**

- color code: one white dot, one yellow dot
- peroxide cured
- meets 21CFR 177.2600
- passed USP Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

See pages 431-432 for sizing charts.

Clamp Gaskets

Silicone Flanged Clamp Gaskets - White



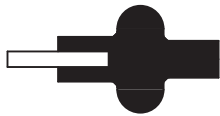
Type 2 - Flanged
1" and larger

Features:

- color code: pink dot
- peroxide cured
- meets 21CFR 177.2600
- passed USP Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

Size	Part #	Price/E
1"	40MPF-XW100	\$4.75
1½"	40MPF-XW150	4.95
2"	40MPF-XW200	4.95
2½"	40MPF-XW250	6.15
3"	40MPF-XW300	7.35
4"	40MPF-XW400	9.70
6"	40MPF-XW600	51.50
8"	40MPF-XW800	64.05
10"	40MPF-XW1000	79.85
12"	40MPF-XW1200	82.15

Buna-N Mesh Screen Clamp Gasket, 316



Type 3 - Mesh

Features:

- color code: red dot
- 10 mesh standard, other mesh available-call for details
- meets 21CFR 177.2600

Size	Part #	Price/E
1"	40MPS-U100	\$47.10
1½"	40MPS-U150	41.45
2"	40MPS-U200	44.35
2½"	40MPS-U250	58.85
3"	40MPS-U300	67.75
4"	40MPS-U400	105.95

PTFE Envelope Clamp Gaskets with EPDM Filler



Features:

- color code: usually not marked
- peroxide cured EPDM
- meets 21CFR 177.1550
- PTFE passed USP Class VI Cytotoxicity testing

Size	Part #	Price/E
½"	42MP-GRE50	\$15.80
1"	40MP-GRE100	8.65
1½"	40MP-GRE150	7.25
2"	40MP-GRE200	8.10
2½"	40MP-GRE250	9.80
3"	40MP-GRE300	11.45
4"	40MP-GRE400	21.10
6"	40MP-GRE600	74.00



PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

PTFE Envelope Clamp Gaskets with FKM Filler



Features:

- color code: FKM usually not marked
- peroxide cured FKM
- meets 21CFR 177.1550
- PTFE passed USP Class VI Cytotoxicity testing

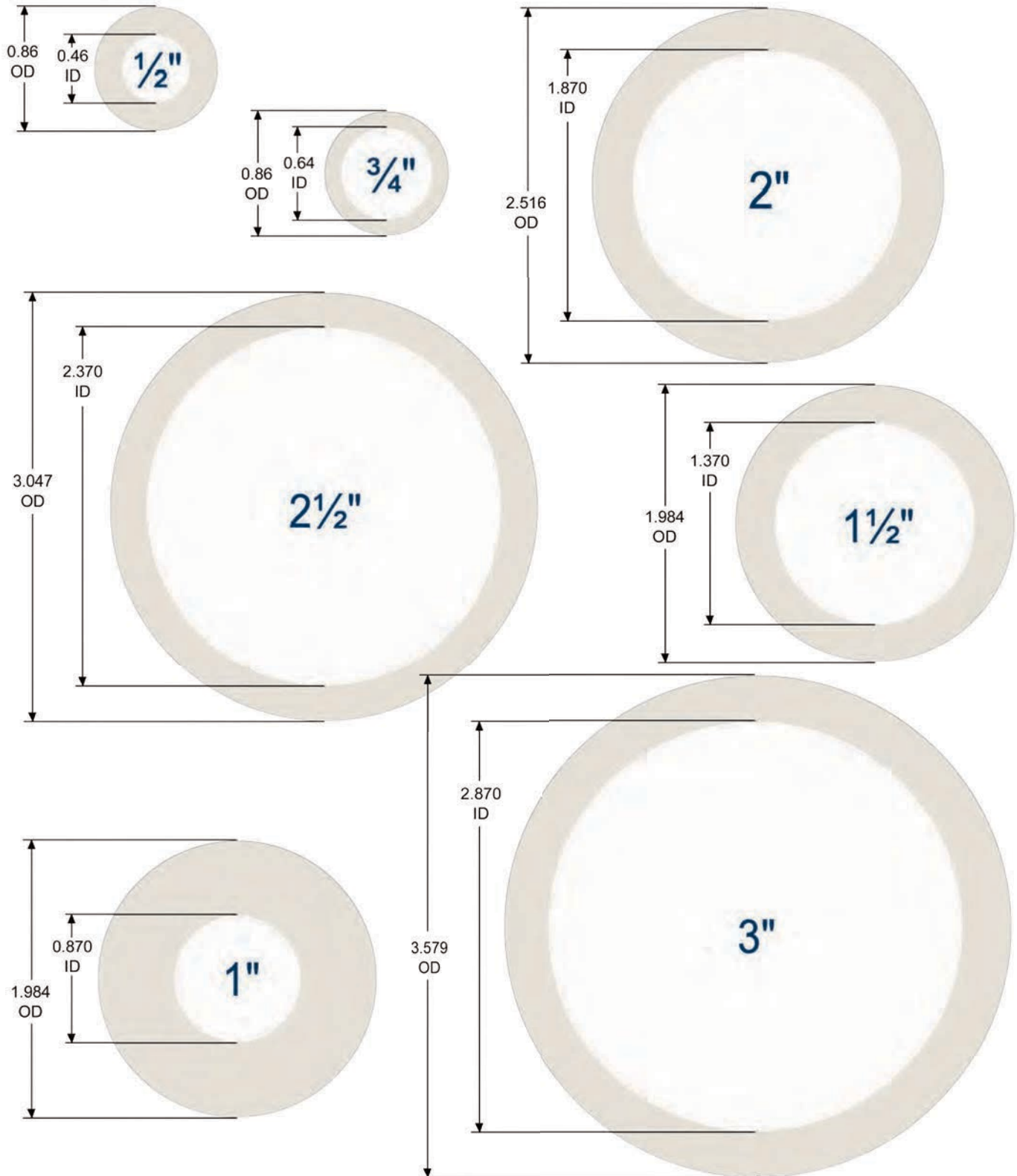
Size	Part #	Price/E
1"	40MP-GR100	\$7.85
1½"	40MP-GR150	7.25
2"	40MP-GR200	8.25
2½"	40MP-GR250	10.85
3"	40MP-GR300	11.45
4"	40MP-GR400	19.50
6"	40MP-GR600	93.30



PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

See pages 431-432 for sizing charts.

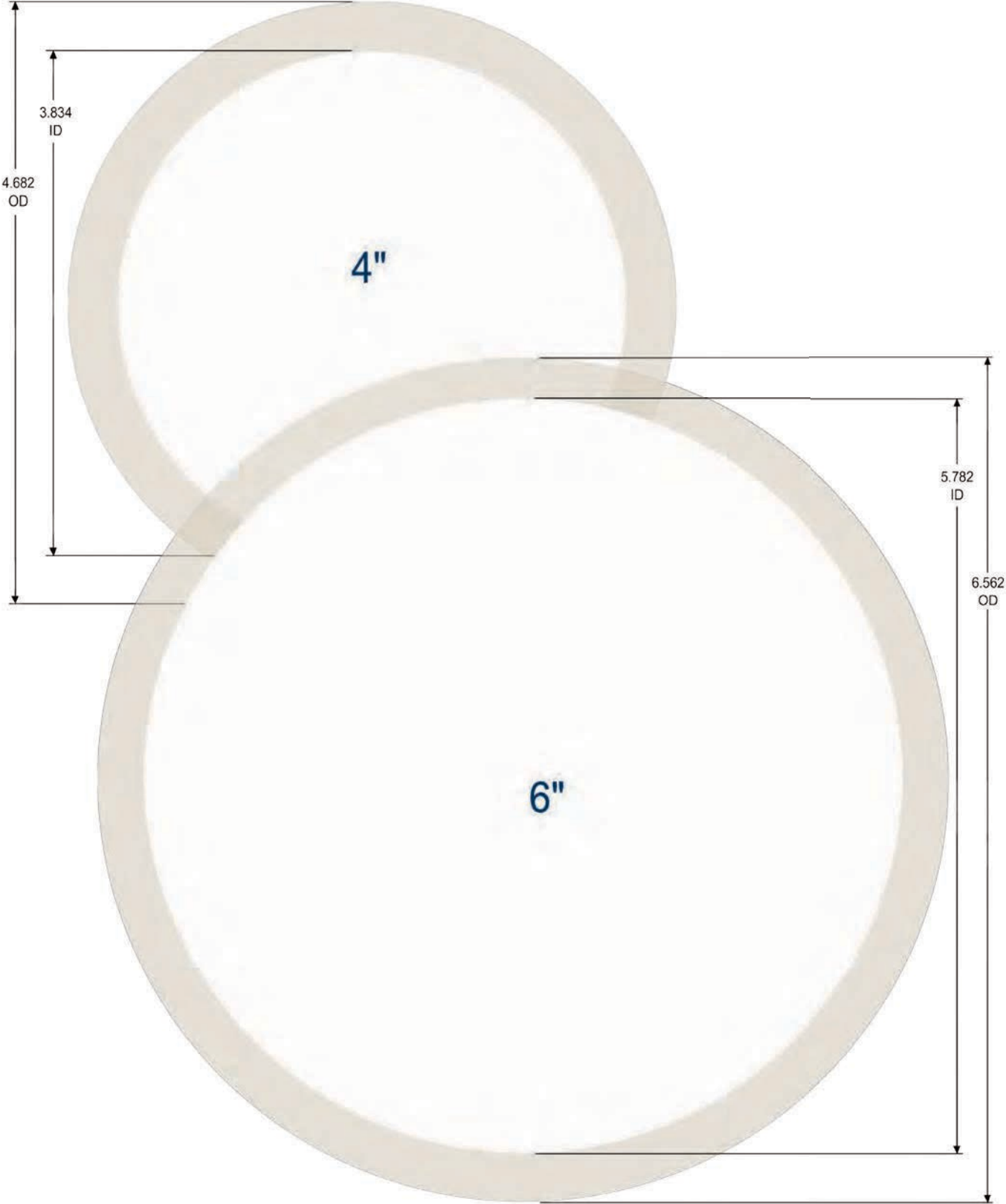
Clamp Fittings and Gasket Sizing Guide



M

Sanitary Size	OD of Clamp End	ID of Fitting	Sanitary Size	OD of Clamp End	ID of Fitting
1/2"	0.992	0.370	3"	3.579	2.870
3/4"	0.992	0.620	4"	4.682	3.834
1"	1.984	0.870	6"	6.562	5.782
1 1/2"	1.984	1.370	8"	8.602	7.782
2"	2.516	1.870	10"	10.570	9.782
2 1/2"	3.047	2.370	12"	12.570	11.760

Clamp Fittings and Gasket Sizing Guide

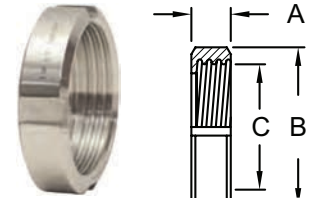


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European Fittings DIN 11851

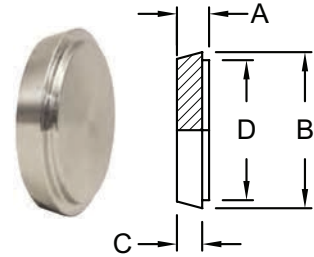
DIN Round Nuts (DIN11857) - 13R

Tube OD	DN Size	Dimensions			304 Stainless Steel	
		A	B	C	Part #	Price/E
1"	25	.83	2.48	2.05	13R-G100DIN	\$38.00
1½"	40	.83	3.07	2.56	13R-G150DIN	47.40
2"	50	.87	3.62	3.07	13R-G200DIN	60.60
2½"	65	.98	4.41	3.74	13R-G250DIN	82.10
3"	80	1.14	5.00	4.33	13R-G300DIN	126.10
4"	100	1.22	5.83	5.12	13R-G400DIN	147.15



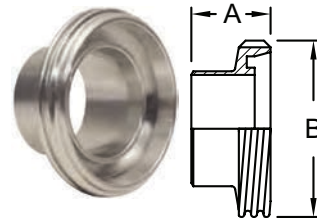
DIN Blank Caps - 16AMP

Tube OD	DN Size	Dimensions				316 Stainless Steel	
		A	B	C	D	Part #	Price/E
1"	25	.51	1.73	.39	1.38	16AMP-R100DIN	\$30.10
1½"	40	.51	2.20	.39	1.89	16AMP-R150DIN	49.20
2"	50	.55	2.68	.43	2.40	16AMP-R200DIN	70.10
2½"	65	.63	3.39	.47	3.11	16AMP-R250DIN	124.25
3"	80	.63	3.66	.47	3.39	16AMP-R300DIN	153.20
4"	100	.79	4.76	.59	4.49	16AMP-R400DIN	255.05



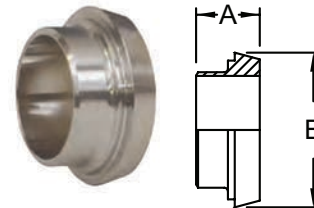
DIN Welding Males - 15A

Tube OD	DN Size	Dimensions		316 Stainless Steel	
		A	B	Part #	Price/E
1"	25	1.14	2.04	15A-R100DIN	\$36.35
1½"	40	1.30	2.55	15A-R150DIN	50.80
2"	50	1.38	3.07	15A-R200DIN	62.35
2½"	65	1.57	3.74	15A-R250DIN	98.15
3"	80	1.77	4.31	15A-R300DIN	152.50
4"	100	2.13	5.12	15A-R400DIN	172.30



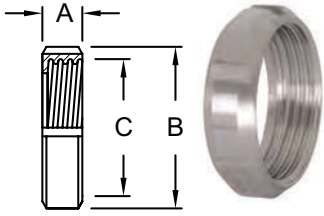
DIN Welding Liners - 14A

Tube OD	DN Size	Dimensions		316 Stainless Steel	
		A	B	Part #	Price/E
1"	25	.87	1.73	14A-R100DIN	\$25.30
1½"	40	1.02	2.20	14A-R150DIN	35.55
2"	50	1.10	2.68	14A-R200DIN	45.40
2½"	65	1.26	3.39	14A-R250DIN	77.95
3"	80	1.46	3.94	14A-R300DIN	108.35
4"	100	1.73	4.76	14A-R400DIN	138.15



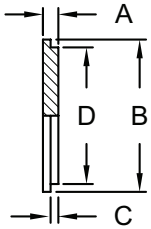
European Fittings

SMS Round Nuts - 13R



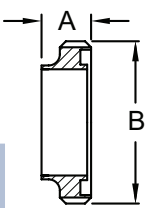
Tube OD	DN Size	Dimensions			304 Stainless Steel	
		A	B	C	Part #	Price/E
1"	25	.75	2.01	1.57	13R-G100SMS	\$37.70
1½"	38	.91	2.91	2.36	13R-G150SMS	47.30
2"	51	.94	3.31	2.76	13R-G200SMS	59.20
2½"	63.5	1.10	3.94	3.35	13R-G250SMS	76.75
3"	76	1.18	4.49	3.86	13R-G300SMS	115.05
4"	101.6	1.22	5.43	4.92	13R-G400SMS	139.30

SMS Blank Caps - 16AMP



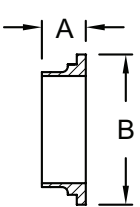
Tube OD	DN Size	Dimensions				316 Stainless Steel	
		A	B	C	D	Part #	Price/E
1"	25	.30	1.40	.14	1.25	16AMP-R100SMS	\$26.65
1½"	38	.31	2.20	.16	1.89	16AMP-R150SMS	42.50
2"	51	.35	2.56	.16	2.38	16AMP-R200SMS	63.75
2½"	63.5	.35	3.15	.16	2.89	16AMP-R250SMS	96.80
3"	76	.43	3.66	.20	3.41	16AMP-R300SMS	138.40
4"	101.6	.43	4.65	.23	4.43	16AMP-R400SMS	207.35

SMS Welding Males - 15A



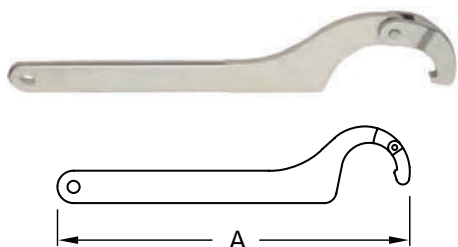
Tube OD	DN Size	Dimensions		316 Stainless Steel	
		A	B	Part #	Price/E
1"	25	.75	1.57	15A-R100SMS	\$34.55
1½"	38	.91	2.36	15A-R150SMS	44.10
2"	51	.91	2.76	15A-R200SMS	61.90
2½"	63.5	1.06	3.35	15A-R250SMS	113.70
3"	76	1.06	3.86	15A-R300SMS	140.80
4"	101.6	1.18	4.92	15A-R400SMS	168.25

SMS Welding Liners - 14A



Tube OD	DN Size	Dimensions		316 Stainless Steel	
		A	B	Part #	Price/E
1"	25	.61	1.40	14A-R100SMS	\$23.15
1½"	38	.63	2.17	14A-R150SMS	32.65
2"	51	.67	2.56	14A-R200SMS	39.95
2½"	63.5	.67	3.16	14A-R250SMS	52.60
3"	76	.75	3.66	14A-R300SMS	83.40
4"	101.6	.75	4.65	14A-R400SMS	106.35

DIN and SMS Spanner Wrenches - SP

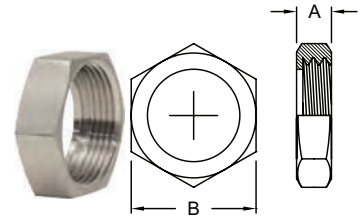


Used On Sizes	DN Size	A	Nickel Plated Steel	
			Part #	Price/E
1" - 1½"	25-40	9.75	DIN-SMS-60/90SP	\$234.75
2" - 4"	50-101.6	13.00	DIN-SMS90/155SP	611.45

European Fittings

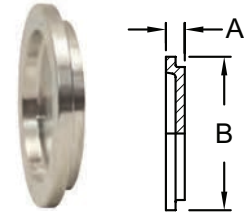
RJT BS:4825 Hex Nuts - 13H

Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	.87	2.00	13H-G100RJT	\$35.15
1½"	.87	2.56	13H-G150RJT	47.15
2"	.87	3.12	13H-G200RJT	61.35
2½"	.87	3.62	13H-G250RJT	76.40
3"	.87	4.12	13H-G300RJT	93.75
4"	.87	5.12	13H-G400RJT	111.85



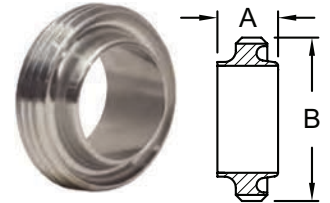
RJT BS:4825 Blank Caps - 13RBN

Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	.32	1.63	13RBN-G100RJT	\$19.00
1½"	.32	2.12	13RBN-G150RJT	29.45
2"	.32	2.62	13RBN-G200RJT	43.95
2½"	.32	3.12	13RBN-G250RJT	68.40
3"	.32	3.63	13RBN-G300RJT	90.15
4"	.32	4.63	13RBN-G400RJT	166.80



RJT BS:4825 Welding Males - 15A

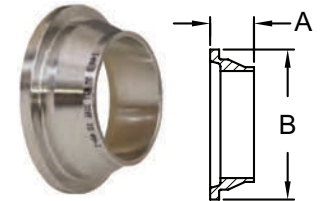
Tube OD	Dimensions		316 Stainless Steel	
	A	B	Part #	Price/E
1"	1.06	1.80	15A-R100RJT	\$42.35
1½"	1.06	2.30	15A-R150RJT	57.50
2"	1.06	2.86	15A-R200RJT	74.20
2½"	1.06	3.36	15A-R250RJT	86.80
3"	1.06	3.86	15A-R300RJT	107.65
4"	1.06	4.86	15A-R400RJT	154.00



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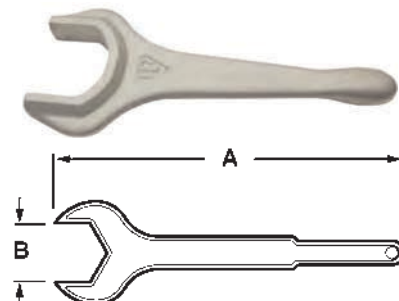
RJT BS:4825 Welding Liners - 14A

Tube OD	Dimensions		316 Stainless Steel	
	A	B	Part #	Price/E
1"	.77	1.63	14A-R100RJT	\$28.40
1½"	.77	2.13	14A-R150RJT	32.10
2"	.77	2.63	14A-R200RJT	40.25
2½"	.77	3.13	14A-R250RJT	54.85
3"	.77	3.63	14A-R300RJT	63.65
4"	.77	4.63	14A-R400RJT	88.70



RJT BS:4825 Spanner Wrenches - SP

Tube OD	Dimensions		Aluminum	
	A	B	Part #	Price/E
1"	10.00	2.00	RJT-100SP	\$213.90
1½"	11.50	2.56	RJT-150SP	244.95
2"	12.00	3.12	RJT-200SP	287.40
2½"	13.50	3.62	RJT-250SP	375.55
3"	14.50	4.12	RJT-300SP	462.60
4"	17.50	5.12	RJT-400SP	579.15

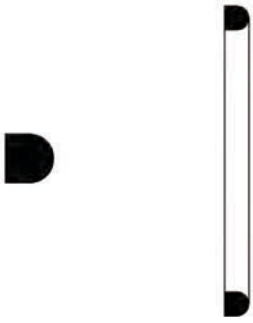


European Gaskets

DIN Buna-N European Gaskets - *Black*

Features:

- color code: red dot
- meets 21CFR 177.2600

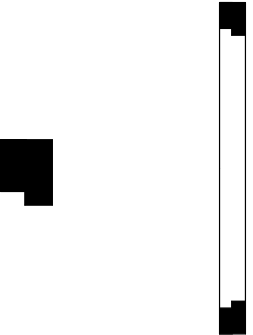


Tube OD	DN Size	ID	OD	Height	Part #	Price/E
1"	25	1.18	1.57	.20	40MP-U100DIN	\$7.85
1½"	40	1.65	2.05	.20	40MP-U150DIN	12.45
2"	50	2.13	2.52	.20	40MP-U200DIN	13.00
2½"	65	2.80	3.19	.20	40MP-U250DIN	15.20
3"	80	3.35	3.74	.20	40MP-U300DIN	17.45
4"	100	4.09	4.49	.24	40MP-U400DIN	21.95

SMS Buna-N European Gaskets - *Black*

Features:

- color code: red dot
- meets 21CFR 177.2600

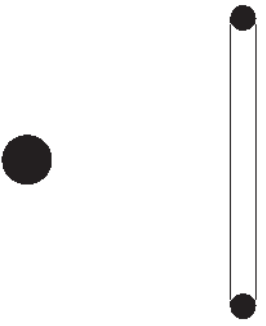


Tube OD	DN Size	ID	OD	Part #	Price/E
1"	25	.98	1.26	40MP-U100SMS	\$6.95
1½"	38	1.49	1.89	40MP-U150SMS	2.35
2"	51	2.00	2.40	40MP-U200SMS	2.50
2½"	63.5	2.50	2.89	40MP-U250SMS	2.70
3"	76	2.99	3.39	40MP-U300SMS	4.95
4"	101.6	4.09	4.49	40MP-U400SMS	20.75

RJT Buna-N European Gaskets - *Black*

Features:

- color code: red dot
- meets 21CFR 177.2600



Tube OD	ID	Ø	Part #	Price/E
1"	1.06	.25	40MP-U100RJT	\$8.75
1½"	1.56	.25	40MP-U150RJT	9.45
2"	2.06	.25	40MP-U200RJT	11.00
2½"	2.56	.25	40MP-U250RJT	14.20
3"	3.06	.25	40MP-U300RJT	17.75
4"	4.06	.25	40MP-U400RJT	48.20

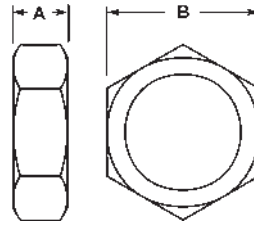
Bevel Seat Hex Nuts

Union Hex Nuts - 13H

Feature:

- **400 PSI** maximum

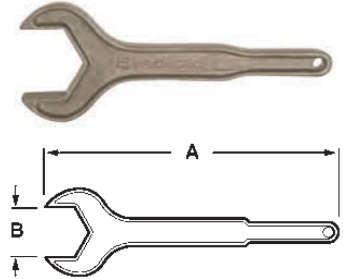
Tube OD	Dimensions		304 Stainless Steel (CF8)	
	A	B	Part #	Price/E
1"	.906	1.812	13H-G100	\$19.15
1½"	.968	2.406	13H-G150	27.00
2"	1.062	3.000	13H-G200	34.70
2½"	1.187	3.594	13H-G250	51.85
3"	1.281	4.188	13H-G300	68.90
4"	1.500	5.438	13H-G400	119.70



Bevel Seat Hex Wrenches

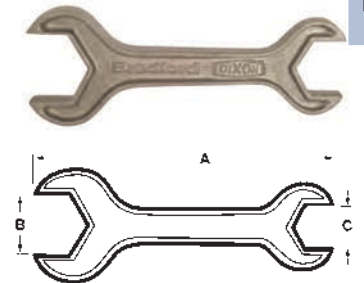
Single Sided Hex Wrenches - 25H

Tube OD	Dimensions		Weight Lbs.	Aluminum	
	A	B		Part #	Price/E
1"	10.500	1.812	.64	25H-100	\$51.30
1½"	12.000	2.406	.86	25H-150	53.00
2"	14.000	3.000	1.76	25H-200	65.00
2½"	16.250	3.594	2.40	25H-250	95.95
3"	18.500	4.188	3.04	25H-300	133.25
4"	19.500	5.438	3.62	25H-400	169.70



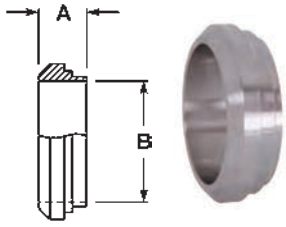
Two Sided Hex Wrenches - 25H

Tube OD	Dimensions			Weight Lbs.	Aluminum	
	A	B	C		Part #	Price/E
1½" x 1"	12.000	2.406	1.812	1.00	25H-150100	\$95.80
2" x 1½"	14.000	3.000	2.406	1.75	25H-200150	107.00
2½" x 2"	16.500	3.594	3.000	2.80	25H-250200	129.05
3" x 2"	18.000	4.188	3.000	3.20	25H-300200	149.30
3" x 2½"	18.000	4.188	3.594	3.70	25H-300250	172.00

**M**

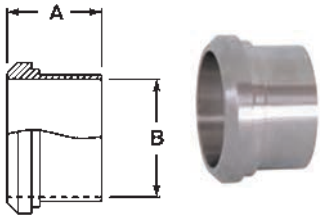
Bevel Seat Ferrules

3 Short Plain Bevel Seat Weld Ferrules - 14PRF



Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	.718	.870	14PRF-G100	\$11.40
1½"	.718	1.370	14PRF-G150	13.90
2"	.750	1.870	14PRF-G200	18.20
2½"	.875	2.370	14PRF-G250	25.25
3"	.906	2.870	14PRF-G300	32.65
4"	1.031	3.834	14PRF-G400	52.95

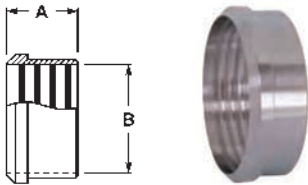
3 Long Plain Bevel Seat Weld Ferrules - 14A



Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	1.375	.870	14A-G100	\$16.35
1½"	1.500	1.370	14A-G150	20.60
2"	1.500	1.870	14A-G200	31.30
2½"	1.750	2.370	14A-G250	38.70
3"	1.750	2.870	14A-G300	51.00
4"	1.750	3.834	14A-G400	75.30

3¹ Recessless Plain Bevel Seat Ferrules for Expanding - 14R

M



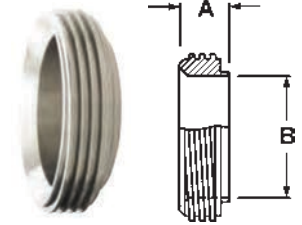
Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1½"	1.125	1.500	14R-G150	\$17.60
2"	1.312	2.000	14R-G200	23.05
2½"	1.375	2.500	14R-G250	29.60
3"	1.437	3.000	14R-G300	37.60
4"	1.500	4.000	14R-G400	60.30

¹ Meets 3-A Standard Number 63-03 when used to modify or repair existing on-site farm milk handling systems.

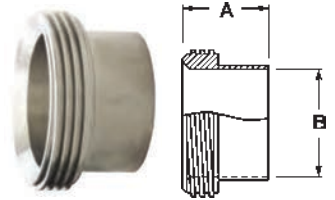
Bevel Seat Ferrules

Short Threaded Bevel Seat Weld Ferrules - 15TRF 

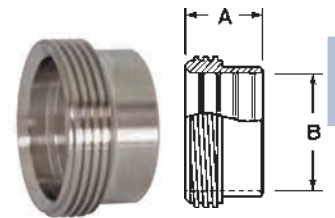
Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	.718	.870	15TRF-G100	\$13.35
1½"	.718	1.370	15TRF-G150	16.05
2"	.750	1.870	15TRF-G200	21.25
2½"	.875	2.370	15TRF-G250	28.05
3"	.906	2.870	15TRF-G300	36.15
4"	1.031	3.834	15TRF-G400	60.70

Long Threaded Bevel Seat Weld Ferrules - 15A 

Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	1.375	.870	15A-G100	\$22.55
1½"	1.500	1.370	15A-G150	31.50
2"	1.500	1.870	15A-G200	39.15
2½"	1.750	2.370	15A-G250	52.35
3"	1.750	2.870	15A-G300	68.90
4"	1.750	3.834	15A-G400	102.00

Recessless Threaded Bevel Seat Ferrules for Expanding - 15R 

Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1½"	1.125	1.500	15R-G150	\$25.90
2"	1.375	2.000	15R-G200	32.35
2½"	1.500	2.500	15R-G250	44.15
3"	1.675	3.000	15R-G300	52.15
4"	1.675	4.000	15R-G400	82.80

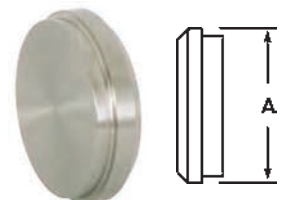


¹ Meets 3-A Standard Number 63-03 when used to modify or repair existing on-site farm milk handling systems.

Bevel Seat End Caps

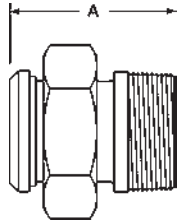
Plain Bevel Seat Solid End Caps - 16A 

Tube OD	Dimension	304 Stainless Steel	
	A	Part #	Price/E
1"	1.312	16A-G100	\$9.10
1½"	1.843	16A-G150	16.05
2"	2.375	16A-G200	24.05
2½"	2.906	16A-G250	32.15
3"	3.437	16A-G300	47.10
4"	4.500	16A-G400	84.85



Bevel Seat

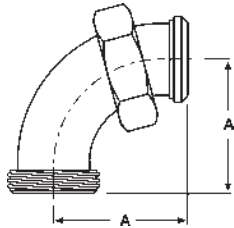
Plain Bevel Seat x Male NPT Adapters with Hex Nut - 14-19



Tube OD	Dimension A	304 Stainless Steel	
		Part #	Price/E
1½"	3.250	14-19-G150	\$361.40
2"	3.312	14-19-G200	441.25
3"	4.250	14-19-G300	529.95

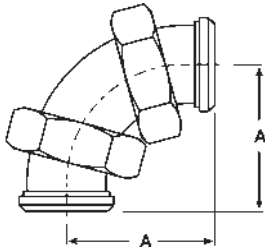
Bevel Seat Elbows

3. Threaded Bevel Seat x Plain Bevel Seat with Hex Nut 90° Elbows - B2F



Tube OD	Dimension A	304 Stainless Steel	
		Part #	Price/E
1½"	2.968	B2F-G150	\$197.00
2"	3.750	B2F-G200	204.80
2½"	4.625	B2F-G250	272.35
3"	5.406	B2F-G300	327.35

3. Plain Bevel Seat x Plain Bevel Seat with Hex Nut 90° Elbows - B2E

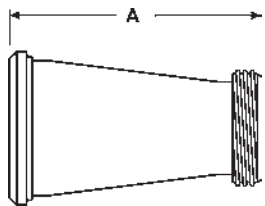


Tube OD	Dimension A	304 Stainless Steel	
		Part #	Price/E
1½"	2.968	B2E-G150	\$243.60
2"	3.750	B2E-G200	305.20
2½"	4.625	B2E-G250	321.05
3"	5.406	B2E-G300	449.15

M

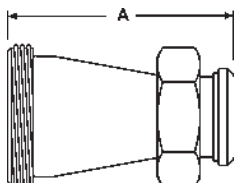
Bevel Seat Reducers

3. Plain Bevel Seat x Threaded Bevel Seat Concentric Reducers - B3115F



Tube OD	Dimension A	304 Stainless Steel	
		Part #	Price/E
2" x 1½"	3.468	B3115F-G200150	\$168.75
2½" x 2"	3.625	B3115F-G250200	189.35
3" x 2"	5.656	B3115F-G300200	234.55
3" x 2½"	3.781	B3115F-G300250	291.95
4" x 3"	5.937	B3115F-G400300	341.40

3. Threaded Bevel Seat x Plain Bevel Seat with Hex Nut Concentric Reducers - B31TP

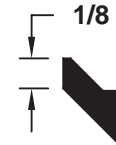


Tube OD	Dimension A	304 Stainless Steel	
		Part #	Price/E
2" x 1½"	3.468	B31TP-G200150	\$198.85
2½" x 2"	3.625	B31TP-G250200	225.70
3" x 2"	5.656	B31TP-G300200	297.05
3" x 2½"	3.781	B31TP-G300250	335.75
4" x 3"	5.937	B31TP-G400300	375.60

Bevel Seat Gaskets

Buna-N Bevel Seat Gaskets - *Black*

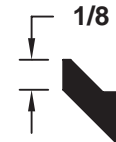
Size	Part #	Price/E
1"	40BS-O100	\$1.65
1½"	40BS-O150	1.40
2"	40BS-O200	1.50
2½"	40BS-O250	2.70
3"	40BS-O300	3.15
4"	40BS-O400	5.60


Features:

- color code: red dot
- meets 21CFR 177.2600

PTFE Bevel Seat Gaskets - *White*

Size	Part #	Price/E
1"	40BS-S100	\$3.65
1½"	40BS-S150	3.20
2"	40BS-S200	3.60
2½"	40BS-S250	4.95
3"	40BS-S300	6.70
4"	40BS-S400	11.10


Features:

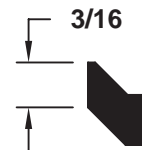
- color code: no dot
- meets 21CFR 177.1550
- passed USP Class VI Cytotoxicity testing



PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

Heavy PTFE Bevel Seat Gaskets

Size	Part #	Price/E
1"	40BS-H100	\$4.70
1½"	40BS-H150	4.95
2"	40BS-H200	5.50
2½"	40BS-H250	8.25
3"	40BS-H300	10.15
4"	40BS-H400	16.75


Features:

- color code: no dot
- meets 21CFR 177.1550
- passed USP Class VI Cytotoxicity testing



PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.

I-Line Clamps

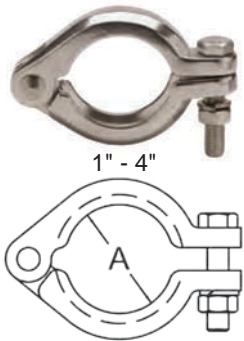
Heavy Duty Clamps - 13ILH



Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	304 Stainless Steel	
				Part #	Price/E
1" - 1½"	700	250	2.122	13ILH100-150	\$29.35
2"	450	250	2.654	13ILH200	38.85
2½"	450	200	3.185	13ILH250	53.25
3"	350	150	3.717	13ILH300	64.65
4"	200	125	4.820	13ILH400	79.85
6"	150	100	7.689	13ILH600	151.05
8"	125	75	9.689	13ILH800	202.40

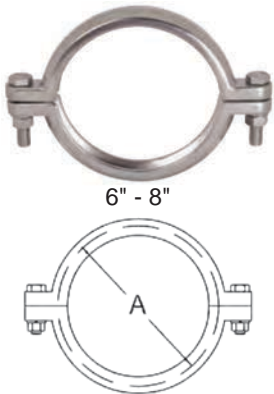
¹ wing nut tightened to 25 in. lbs. of torque

Bolted Clamps - 13ILB



Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	304 Stainless Steel	
				Part #	Price/E
1" - 1½"	1220	1100	2.122	13ILB100-150	\$31.70
2"	900	830	2.654	13ILB200	53.30
2½"	720	660	3.185	13ILB250	73.00
3"	600	550	3.717	13ILB300	104.10
4"	570	525	4.820	13ILB400	125.75

¹ nut tightened to 20 ft. lbs. of torque



Tube OD	Service Pressure Rating @ 70°F ¹	Service Pressure Rating @ 250°F ¹	Dimension A	304 Stainless Steel	
				Part #	Price/E
6"	300	200	7.689	13ILB600	\$190.90
8"	250	150	9.689	13ILB800	392.95

¹ nut tightened to 20 ft. lbs. of torque

M

Q-Line Clamps

Heavy Duty Clamps - 13QLH¹



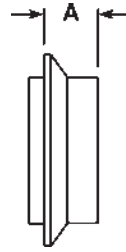
Tube OD	Dimension A	304 Stainless Steel	
		Part #	Price/E
1" - 1½"	2.122	13QLH100-150	\$29.35
2"	2.654	13QLH200	38.85
2½"	3.185	13QLH250	53.20
3"	3.717	13QLH300	64.65
4"	4.820	13QLH400	79.85

¹ wing nut tightened to 25 in. lbs. of torque

I-Line Ferrules

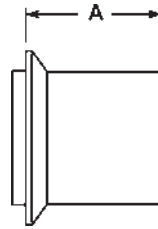
Male I-Line Short Weld Ferrules - 14WI

Tube OD	Dim A	304 Stainless Steel		316L Stainless Steel	
		Part #	Price/E	Part #	Price/E
1"	.600	14WI-G100	\$14.55	14WI-R100	\$21.45
1½"	.765	14WI-G150	15.70	14WI-R150	22.25
2"	.790	14WI-G200	24.00	14WI-R200	32.20
2½"	.848	14WI-G250	33.50	14WI-R250	45.40
3"	.906	14WI-G300	44.20	14WI-R300	69.95
4"	1.031	14WI-G400	75.00	14WI-R400	101.65
6"	.940	---	---	14WI-R600	346.40
8"	.940	---	---	14WI-R800	551.25



Male I-line Long Weld Ferrules - 14WLI

Tube OD	Dim A	304 Stainless Steel		316L Stainless Steel	
		Part #	Price/E	Part #	Price/E
1"	1.562	14WLI-G100	\$46.35	14WLI-R100	\$134.30
1½"	1.843	14WLI-G150	46.40	14WLI-R150	139.70
2"	2.062	14WLI-G200	54.65	14WLI-R200	170.95
2½"	2.188	14WLI-G250	81.10	14WLI-R250	227.50
3"	2.375	14WLI-G300	105.45	14WLI-R300	342.75
4"	2.688	14WLI-G400	153.70	14WLI-R400	1004.50
6"	2.688	---	---	14WLI-R600	1810.30



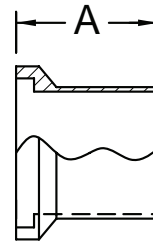
Female I-line Short Weld Ferrules - 15WI

Tube OD	Dim A	304 Stainless Steel		316L Stainless Steel	
		Part #	Price/E	Part #	Price/E
1"	.785	15WI-G100	\$14.55	15WI-R100	\$22.50
1½"	.950	15WI-G150	15.65	15WI-R150	22.75
2"	1.040	15WI-G200	24.00	15WI-R200	32.85
2½"	1.160	15WI-G250	33.50	15WI-R250	47.70
3"	1.220	15WI-G300	46.30	15WI-R300	71.15
4"	1.350	15WI-G400	71.40	15WI-R400	103.25
6"	1.125	---	---	15WI-R600	363.95
8"	1.125	---	---	15WI-R800	532.35



Female I-line Long Weld Ferrules - 15WLI

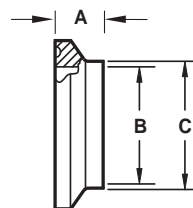
Tube OD	Dim A	304 Stainless Steel		316L Stainless Steel	
		Part #	Price/E	Part #	Price/E
1"	1.750	15WLI-G100	\$43.50	15WLI-R100	\$140.05
1½"	2.031	15WLI-G150	43.50	15WLI-R150	140.05
2"	2.312	15WLI-G200	51.15	15WLI-R200	223.20
2½"	2.500	15WLI-G250	76.00	15WLI-R250	341.90
3"	2.688	15WLI-G300	98.80	15WLI-R300	452.05
4"	3.000	15WLI-G400	144.00	15WLI-R400	602.90
6"	3.000	---	---	15WLI-R600	1631.70



Q-line Ferrules

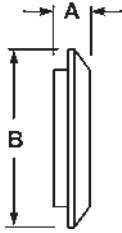
Q-line Weld Ferrules - 14WQ

Tube OD	Dimensions			304 Stainless Steel	
	A	B	C	Part #	Price/E
1"	.531	.870	1.000	14WQ-G100	\$51.85
1½"	.563	1.370	1.500	14WQ-G150	38.30
2"	.813	1.870	2.000	14WQ-G200	71.45
2½"	.938	2.370	2.500	14WQ-G250	94.05
3"	.938	2.870	3.000	14WQ-G300	163.20
4"	1.000	3.834	4.000	14WQ-G400	324.95



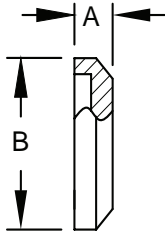
I-Line End Caps

3 Male I-line Solid End Caps - 16AI-14I



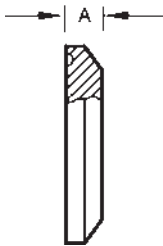
Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	B	Part #	Price/E	Part #	Price/E
1"	.500	1.985	16AI-14I100	\$16.20	16AI-14I100R	\$41.35
1½"	.500	1.985	16AI-14I150	16.20	16AI-14I150R	51.45
2"	.562	2.640	16AI-14I200	24.75	16AI-14I200R	60.65
2½"	.750	3.307	16AI-14I250	41.45	16AI-14I250R	121.25
3"	.750	3.870	16AI-14I300	53.90	16AI-14I300R	126.75
4"	.750	4.870	16AI-14I400	92.15	16AI-14I400R	209.40
6"	.750	7.495	---	---	16AI-14I600R	789.00
8"	.880	9.495	---	---	16AI-14I800R	823.55

3 Female I-line Solid End Caps - 16AI-15I



Tube OD	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	B	Part #	Price/E	Part #	Price/E
1"	.500	1.985	16AI-15I100	\$17.15	16AI-15I100R	\$55.10
1½"	.500	1.985	16AI-15I150	17.15	16AI-15I150R	50.70
2"	.562	2.640	16AI-15I200	24.75	16AI-15I200R	82.65
2½"	.750	3.307	16AI-15I250	41.45	16AI-15I250R	186.80
3"	.750	3.870	16AI-15I300	53.90	16AI-15I300R	184.60
4"	.750	4.870	16AI-15I400	92.15	16AI-15I400R	280.45
6"	.750	7.495	---	---	16AI-15I600R	565.10
8"	.880	9.495	---	---	16AI-15I800R	1508.35

3 Q-Line Solid End Caps - 16AQ



Tube OD	Dimension	304 Stainless Steel	
	A	Part #	Price/E
1"	.313	16AQ-G100	\$39.80
1½"	.313	16AQ-G150	39.80
2"	.438	16AQ-G200	61.15
2½"	.500	16AQ-G250	84.85
3"	.500	16AQ-G300	136.95
4"	.625	16AQ-G400	304.80

I-Line Gaskets

Buna-N I-Line Gaskets - Black

Size	Part #	Price/E
1"	40IH100	\$1.75
1½"	40IH150	1.45
2"	40IH200	1.65
2½"	40IH250	2.55
3"	40IH300	2.95
4"	40IH400	3.85
6"	40IH600	38.95
8"	40IH800	44.05

Features:

- color code: red dot
- meets 21CFR 177.2600
- 3/32" thick



PTFE I-Line Gaskets - White Virgin

Size	Part #	Price/E
1"	40IT100	\$2.90
1½"	40IT150	3.45
2"	40IT200	3.65
2½"	40IT250	4.20
3"	40IT300	4.80
4"	40IT400	6.40
6"	40IT600	137.40
8"	40IT800	161.70

Features:

- color code: no dot
- meets 21CFR 177.1550
- passed USP class VI cytotoxicity testing
- 1/16" thick

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EPDM I-Line Gaskets - White

Size	Part #	Price/E
1"	40IE100	\$2.75
1½"	40IE150	2.75
2"	40IE200	3.10
2½"	40IE250	4.00
3"	40IE300	4.60
4"	40IE400	7.95
6"	40IE600	20.50
8"	40IE800	35.45

Features:

- color code: three green dots
- meets 21CFR 177.2600
- passed USP class VI cytotoxicity testing
- peroxide cured
- 3/32"



FKM I-Line Gaskets

Size	Part #	Price/E
1"	40IV100	\$9.50
1½"	40IV150	11.55
2"	40IV200	13.55
2½"	40IV250	16.10
3"	40IV300	20.15
4"	40IV400	25.35
6"	40IV600	117.70
8"	40IV800	122.85

Features:

- color code: one white dot, one yellow dot
- meets 21CFR 177.1550
- passed USP Class VI Cytotoxicity testing
- peroxide cured
- 1/16"



M

Q-line Gaskets

Buna-N Q-Line Gaskets - Black

Size	Part #	Price/E
1"	40QH100	\$3.55
1½"	40QH150	3.50
2"	40QH200	4.60
2½"	40QH250	5.75
3"	40QH300	7.45
4"	40QH400	11.45

Features:

- color code: red dot
- meets 21CFR 177.2600



PTFE Q-Line Gaskets - White Virgin

Size	Part #	Price/E
1"	40QT100	\$10.40
1½"	40QT150	10.40
2"	40QT200	13.40
2½"	40QT250	18.10
3"	40QT300	19.20
4"	40QT400	29.30

Features:

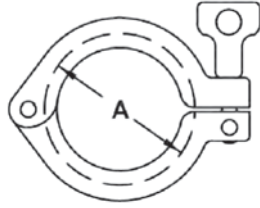
- color code: no dot
- meets 21CFR 177.1550
- passed USP Class VI Cytotoxicity testing

PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.



Pipe Size Clamps

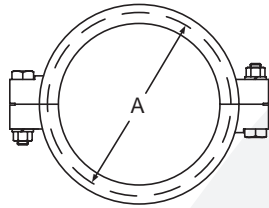
Schedule 5S and 10S Single Pin Heavy Duty Clamps - 13MHHV



Pipe Size	Service pressure rating @ 70°F ¹	Dimension A	304 Stainless Steel	
			Part #	Price/E
1"	500	2.122	13MHHV100	\$15.15
1½"	450	2.654	13MHHV150	17.15
2"	400	3.185	13MHHV200	19.65
2½"	350	3.717	13MHHV250	21.35
3"	250	4.263	13MHHV300	42.95
4"	150	5.263	13MHHV400	67.50
NEW 6"	100	7.500	13MHHV600	232.75

¹ wing nut tightened to 25 ft. lbs. of torque

Bolted Clamp - 13MHPV400

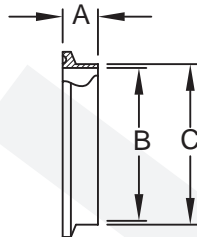


Pipe Size	Service pressure rating @ 70°F ¹	Dimension A	304 Stainless Steel	
			Part #	Price/E
4"	400	5.187	13MHPV400	\$95.10

¹ nut tightened to 20 ft. lbs. of torque

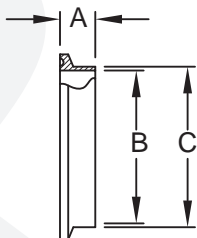
Pipe Size Ferrules

Schedule 5S Short Weld Ferrules - 14WMV



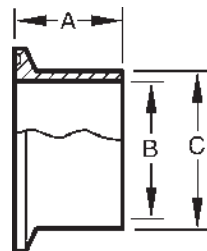
Pipe Size	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
1"	.500	1.185	1.315	14WMV-R100	\$34.35
1½"	.500	1.770	1.900	14WMV-R150	46.70
2"	.500	2.245	2.375	14WMV-R200	68.85
2½"	.500	2.709	2.875	14WMV-R250	88.80
3"	.500	3.334	3.500	14WMV-R300	111.50
4"	.625	4.334	4.500	14WMV-R400	186.95
NEW 6"	.875	6.407	6.625	14WMV-R600	203.25

Schedule 10S Short Weld Ferrules - 14WMX



Pipe Size	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
1"	.500	1.097	1.315	14WMX-R100	\$34.35
1½"	.500	1.682	1.900	14WMX-R150	46.70
2"	.500	2.157	2.375	14WMX-R200	68.85
2½"	.500	2.635	2.875	14WMX-R250	88.80
3"	.500	3.260	3.500	14WMX-R300	111.50
4"	.625	4.260	4.500	14WMX-R400	186.95

Schedule 5S Long Weld Ferrules - L14AM7V

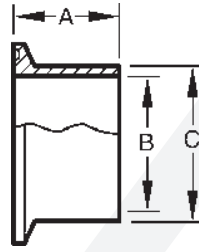


Pipe Size	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
1"	1.125	1.185	1.315	L14AM7V-R100	\$67.60
1½"	1.125	1.770	1.900	L14AM7V-R150	85.70
2"	1.125	2.245	2.375	L14AM7V-R200	128.10
2½"	1.125	2.709	2.875	L14AM7V-R250	149.70
3"	1.125	3.334	3.500	L14AM7V-R300	210.85
4"	1.125	4.334	4.500	L14AM7V-R400	313.95

Pipe Size Ferrules

Schedule 10S Long Weld Ferrules - L14AM7X 

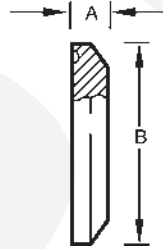
Pipe Size	Dimensions			316L Stainless Steel	
	A	B	C	Part #	Price/E
1"	1.125	1.097	1.315	L14AM7X-R100	\$67.60
1½"	1.125	1.682	1.900	L14AM7X-R150	85.70
2"	1.125	2.157	2.375	L14AM7X-R200	128.10
2½"	1.125	2.635	2.875	L14AM7X-R250	149.70
3"	1.125	3.260	3.500	L14AM7X-R300	210.85
4"	1.125	4.260	4.500	L14AM7X-R400	313.95



Pipe Size End Caps

Schedule 5S and 10S Solid End Caps - 16AMV 

Pipe Size	Dimensions		304 Stainless Steel		316L Stainless Steel	
	A	B	Part #	Price/E	Part #	Price/E
1"	.250	1.984	16AMV-G100	\$8.20	16AMV-R100	\$10.55
1½"	.250	2.516	16AMV-G150	9.00	16AMV-R150	13.60
2"	.250	3.047	16AMV-G200	13.50	16AMV-R200	19.70
2½"	.250	3.579	16AMV-G250	18.50	16AMV-R250	26.70
3"	.312	4.125	16AMV-G300	225.45	16AMV-R300	245.45
4"	.312	5.125	16AMV-G400	305.90	16AMV-R400	307.20

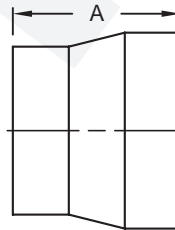


- Specify if you are using a piping system or a tubing system when ordering.

Pipe Size Adapters

Tube OD Weld x Schedule 5S Weld Adapters - B19WV 

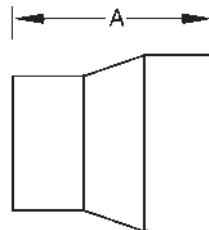
Pipe Size	Dim. A	Tube Wall Thickness	Pipe Wall Thickness	316L Stainless Steel	
				Part #	Price/E
1"	2.000	.065	.065	B19WV-R100	\$94.05
1½"	2.500	.065	.065	B19WV-R150	104.80
2"	2.500	.065	.065	B19WV-R200	122.55
2½"	2.500	.065	.084	B19WV-R250	144.40
3"	2.500	.065	.084	B19WV-R300	164.85
4"	3.000	.084	.084	B19WV-R400	309.10



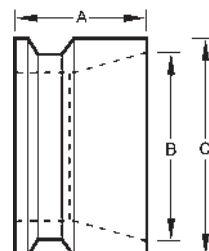
M

Tube OD Weld x Schedule 10S Weld Adapters - B19WX 

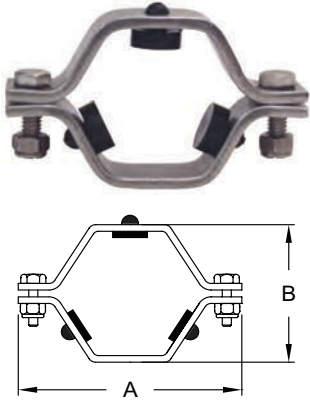
Pipe Size	Dim. A	Tube Wall Thickness	Pipe Wall Thickness	316L Stainless Steel	
				Part #	Price/E
1"	2.000	.065	.109	B19WX-R100	\$94.55
1½"	2.500	.065	.109	B19WX-R150	105.25
2"	2.500	.065	.109	B19WX-R200	123.20
2½"	2.500	.065	.120	B19WX-R250	145.10
3"	2.500	.065	.120	B19WX-R300	165.60
4"	3.000	.084	.120	B19WX-R400	310.50

Clamp x Schedule 10S Weld Adapters - B19MPX 

Pipe Size	Dimensions			Pipe Wall Thickness	316L Stainless Steel	
	A	B	C		Part #	Price/E
1"	1.125	1.097	1.315	.109	B19MPX-R100	\$75.05
1½"	1.125	1.682	1.900	.109	B19MPX-R150	149.45
2"	1.125	2.157	2.375	.109	B19MPX-R200	225.05
2½"	1.125	2.635	2.875	.120	B19MPX-R250	246.95
3"	1.125	3.260	3.500	.120	B19MPX-R300	307.15
4"	1.125	4.260	4.500	.120	B19MPX-R400	368.95

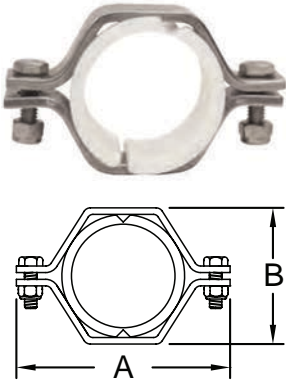


Pipe Size Hangers

Hex Pipe Size Hanger with Rubber Grommets - B24RV¹

Pipe Size	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	3.625	2.125	B24RV-G100	\$23.30
1½"	3.625	2.125	B24RV-G150	25.40
2"	4.312	2.625	B24RV-G200	28.00
2½"	4.875	3.125	B24RV-G250	31.80
3"	5.375	3.625	B24RV-G300	37.35
4"	6.562	4.750	B24RV-G400	37.90
6"	9.000	6.625	B24RV-G600	107.30

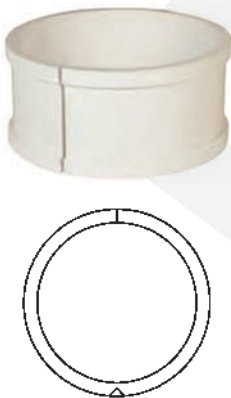
¹ for coupler options call Dixon Sanitary

Hex Pipe Size Hanger with Polypropylene Sleeves - B24PV¹

Pipe Size	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
1"	3.625	2.125	B24PV-G100	\$35.75
1½"	4.312	2.625	B24PV-G150	36.40
2"	4.875	3.125	B24PV-G200	40.15
2½"	4.812	3.125	B24PV-G250	49.60
3"	6.000	4.250	B24PV-G300	49.85
4"	7.500	5.625	B24PV-G400	56.75
6"	9.750	7.375	B24PV-G600	200.70

¹ for coupler options call Dixon Sanitary

Pipe Size Sleeves - 13PV



Pipe Size	Polypropylene	
	Part #	Price/E
1"	13PV-100	\$19.50
1½"	13PV-150	19.50
2"	13PV-200	19.50
2½"	13PV-250	29.65
3"	13PV-300	30.30
4"	13PV-400	34.00
6"	13PV-600	131.25

Schedule 5S and 10S Pipe Gaskets

Buna-N Pipe Gaskets- 40MPV-U

Size	Part #	Price/E
1"	40MPV-U100	\$7.45
1½"	40MPV-U150	7.45
2"	40MPV-U200	7.45
2½"	40MPV-U250	7.85
3"	40MPV-U300	8.35
4"	40MPV-U400	9.20

Features:

- color code: red dot
- meets 21CFR 177.2600



PTFE Pipe Gaskets - 40MPV-G

Size	Part #	Price/E
1"	40MPV-G100	\$33.25
1½"	40MPV-G150	25.10
2"	40MPV-G200	37.70
2½"	40MPV-G250	51.75
3"	40MPV-G300	69.00
4"	40MPV-G400	71.35

Features:

- color code: no dot
- meets 21CFR 177.1550
- passed USP Class VI Cytotoxicity testing
- not recommended for use with bolted clamps

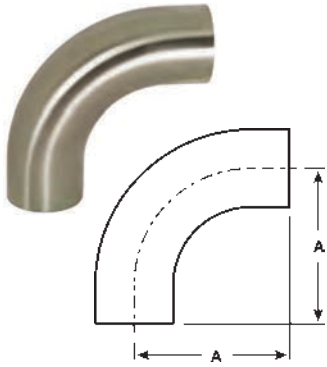


PTFE is a material subject to plastic flow. When cycled through heat and then cooled down in process lines, PTFE gaskets will not return to the original configuration and it will continue to compress as the cycling continues. This plastic flow will allow leakage if clamp torques are not maintained.



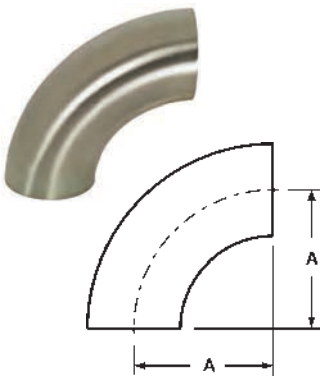
Weld Elbows

3 Polished 90° Weld Elbows with Tangents - B2S



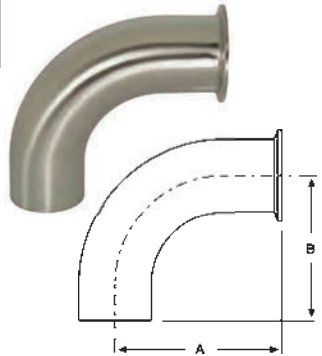
Tube OD	Dimension A	Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
½"	3.000	.065	---	---	NEW B2S-R50P	\$77.30
¾"	3.000	.065	---	---	B2S-R75P	77.30
1"	2.062	.065	B2S-G100P	\$32.30	B2S-R100P	36.10
1½"	2.937	.065	B2S-G150P	34.55	B2S-R150P	40.30
2"	4.062	.065	B2S-G200P	37.55	B2S-R200P	55.65
2½"	5.187	.065	B2S-G250P	53.45	B2S-R250P	83.85
3"	6.312	.065	B2S-G300P	77.80	B2S-R300P	115.55
4"	8.312	.083	B2S-G400P	139.20	B2S-R400P	212.25

3 Polished 90° Weld Elbows - B2WCL



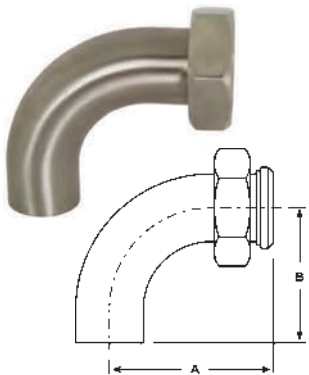
Tube OD	Dimension A	Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
½"	1.125	.065	---	---	B2WCL-R50P	\$33.45
¾"	1.125	.065	---	---	B2WCL-R75P	33.45
1"	1.500	.065	B2WCL-G100P	\$17.35	B2WCL-R100P	20.90
1½"	2.250	.065	B2WCL-G150P	22.20	B2WCL-R150P	28.00
2"	3.000	.065	B2WCL-G200P	30.30	B2WCL-R200P	38.55
2½"	3.750	.065	B2WCL-G250P	48.75	B2WCL-R250P	63.85
3"	4.500	.065	B2WCL-G300P	69.35	B2WCL-R300P	88.60
4"	6.000	.083	B2WCL-G400P	132.85	B2WCL-R400P	161.50
6"	9.000	.109	B2WCL-G600P	460.75	B2WCL-R600P	530.05
8"	12.000	.120	B2WCL-G800P	1305.95	B2WCL-R800P	1479.60

3 Polished 90° Clamp x Weld Elbows - B2CM



Tube OD	Dimensions		Nom. Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B		Part #	Price/E	Part #	Price/E
1"	2.562	2.062	.065	B2CM-G100	\$80.45	B2CM-R100	\$97.80
1½"	3.438	2.937	.065	B2CM-G150	80.45	B2CM-R150	97.80
2"	4.562	4.062	.065	B2CM-G200	90.20	B2CM-R200	110.65
2½"	5.688	5.187	.065	B2CM-G250	118.05	B2CM-R250	154.60
3"	6.812	6.312	.065	B2CM-G300	157.00	B2CM-R300	229.15
4"	8.937	8.312	.083	B2CM-G400	253.25	B2CM-R400	320.20

3 Polished 90° Plain Bevel Seat with Hex Nut x Weld Elbows - B2FP

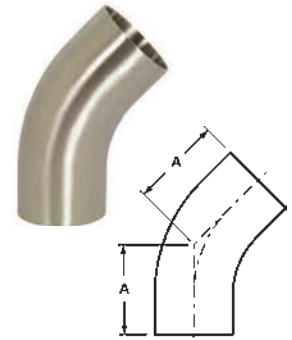


Tube OD	Dimensions		Nominal Wall	polished ID/OD 304 Stainless Steel	
	A	B		Part #	Price/E
1½"	3.656	2.937	.065	B2FP-G150	\$132.65
2"	4.812	4.062	.065	B2FP-G200	158.05
2½"	6.062	5.187	.065	B2FP-G250	234.80
3"	7.218	6.312	.065	B2FP-G300	272.90

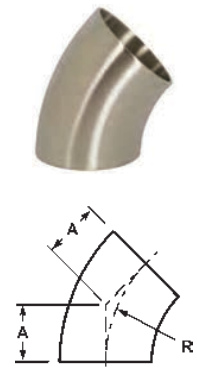
Weld Elbows

Polished 45° Weld Elbows with Tangents - B2KS 

Tube OD	Dimension A	Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
¾"	2.250	.065	---	---	B2KS-R75P	\$115.70
1"	1.188	.065	B2KS-G100P	\$26.60	B2KS-R100P	28.85
1½"	1.625	.065	B2KS-G150P	28.85	B2KS-R150P	33.95
2"	2.312	.065	B2KS-G200P	35.65	B2KS-R200P	46.95
2½"	3.000	.065	B2KS-G250P	49.15	B2KS-R250P	65.50
3"	3.688	.065	B2KS-G300P	66.45	B2KS-R300P	94.25
4"	4.812	.083	B2KS-G400P	114.35	B2KS-R400P	153.85

Polished 45° Weld Elbows - B2WK 

Tube OD	Dimensions		Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	R		Part #	Price/E	Part #	Price/E
1"	.625	1.500	.065	B2WK-G100P	\$19.50	B2WK-R100P	\$21.05
1½"	.937	2.250	.065	B2WK-G150P	18.80	B2WK-R150P	21.45
2"	1.250	3.000	.065	B2WK-G200P	24.75	B2WK-R200P	34.25
2½"	1.562	3.750	.065	B2WK-G250P	36.20	B2WK-R250P	49.70
3"	1.875	4.500	.065	B2WK-G300P	61.25	B2WK-R300P	79.15
4"	2.500	6.000	.083	B2WK-G400P	116.30	B2WK-R400P	149.60
6"	3.750	9.000	.109	B2WK-G600P	370.50	B2WK-R600P	455.15
8"	5.00	12.000	.120	---	---	B2WK-R800P	1088.95

Polished 45° Clamp x Weld Elbows - B2KM 

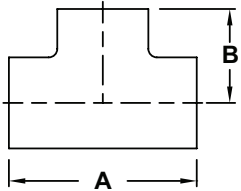
Tube OD	Dimensions		Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B		Part #	Price/E	Part #	Price/E
1"	1.188	1.688	.065	B2KM-G100	\$91.30	B2KM-R100	\$107.80
1½"	1.625	2.125	.065	B2KM-G150	94.70	B2KM-R150	96.25
2"	2.312	2.812	.065	B2KM-G200	120.20	B2KM-R200	126.25
2½"	3.000	3.500	.065	B2KM-G250	148.70	B2KM-R250	160.40
3"	3.688	4.188	.065	B2KM-G300	201.40	B2KM-R300	208.40
4"	4.812	5.437	.083	B2KM-G400	271.20	B2KM-R400	343.95



M

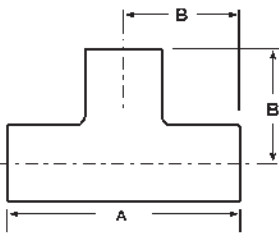
Weld Tees

3 Polished Short Weld Tees - B7WWW



Tube OD	Dimensions		Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B		Part #	Price/E	Part #	Price/E
1"	2.250	1.125	.065	B7WWW-G100P	\$37.45	B7WWW-R100P	\$44.55
1½"	3.312	1.656	.065	B7WWW-G150P	42.25	B7WWW-R150P	46.65
2"	4.124	2.062	.065	B7WWW-G200P	53.15	B7WWW-R200P	59.15
2½"	4.688	2.344	.065	B7WWW-G250P	65.70	B7WWW-R250P	81.15
3"	5.188	2.594	.065	B7WWW-G300P	92.90	B7WWW-R300P	114.20
4"	6.876	3.438	.083	B7WWW-G400P	143.90	B7WWW-R400P	168.75

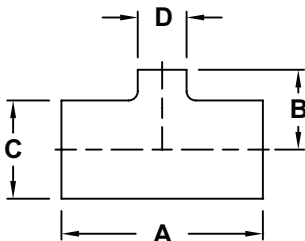
3 Polished Long Weld Tees - B7W



Tube OD	Dimensions		Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B		Part #	Price/E	Part #	Price/E
¾"	4.000	2.000	.065	---	---	B7W-R75P	\$141.55
1"	3.750	1.875	.065	B7W-G100P	\$42.40	B7W-R100P	50.35
1½"	4.500	2.250	.065	B7W-G150P	42.30	B7W-R150P	55.45
2"	6.000	3.000	.065	B7W-G200P	50.35	B7W-R200P	78.35
2½"	6.000	3.000	.065	B7W-G250P	69.00	B7W-R250P	108.85
3"	6.500	3.250	.065	B7W-G300P	103.15	B7W-R300P	135.15
4"	7.750	3.875	.083	B7W-G400P	153.30	B7W-R400P	225.10

M

3 Polished Reducing Weld Tees - B7RWWW



Tube OD	Dimensions				Nom. Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B	C	D		Part #	Price/E	Part #	Price/E
1½" x 1"	3.312	1.375	1.500	1.000	.065	B7RWWW-G150100P	\$68.45	B7RWWW-R150100P	\$80.75
2" x 1"	4.124	1.625	2.000	1.000	.065	B7RWWW-G200100P	89.45	B7RWWW-R200100P	102.30
2" x 1½"	4.124	1.906	2.000	1.500	.065	B7RWWW-G200150P	89.45	B7RWWW-R200150P	102.30
2½" x 1½"	4.688	2.156	2.500	1.500	.065	B7RWWW-G250150P	98.05	B7RWWW-R250150P	104.70
2½" x 2"	4.688	2.312	2.500	2.000	.065	B7RWWW-G250200P	98.05	B7RWWW-R250200P	104.70
3" x 1½"	5.188	2.406	3.000	1.500	.065	B7RWWW-G300150P	137.50	B7RWWW-R300150P	167.15
3" x 2"	5.188	2.562	3.000	2.000	.065	B7RWWW-G300200P	137.50	B7RWWW-R300200P	167.15
4" x 2"	6.876	3.062	4.000	2.000	.083	B7RWWW-G400200P	210.65	B7RWWW-R400200P	267.15
4" x 3"	6.876	3.094	4.000	3.000	.083	B7RWWW-G400300P	210.65	B7RWWW-R400300P	267.15

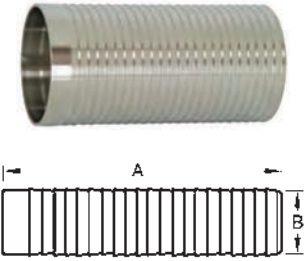
Weld Adapters

Long Weld Hose Adapters - 14WHRL

Feature:

- suitable for use with band clamps

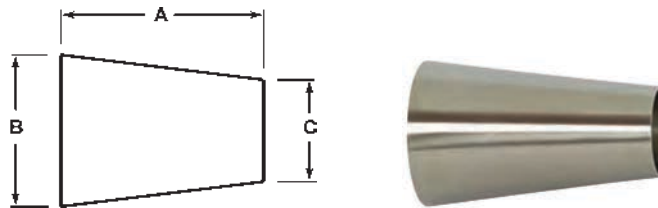
Tube OD	Dimensions		Nominal Wall	316L Stainless Steel	
	A	B		Part #	Price/E
1"	3.000	1.030	.116	14WHRL-R100	\$37.95
1½"	4.500	1.030	.116	14WHRL-R150	64.75
2"	4.500	2.030	.116	14WHRL-R200	82.55
2½"	5.000	2.530	.116	14WHRL-R250	112.90
3"	5.000	3.030	.116	14WHRL-R300	134.65
4"	4.875	4.030	.116	14WHRL-R400	188.80



Use of PVC tubing requires special techniques to prevent leakage. All assembly work must be done with heated tube. Cold durometer is 90 as opposed to rubber hose at 65 to 70 durometer. Banding buckles must be at 180° from one another.

Weld Reducers

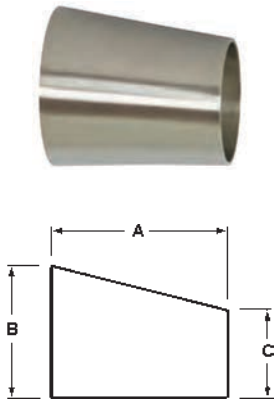
Polished Concentric Weld Reducers - B31W



Tube OD	Dimensions			Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B	C		Part #	Price/E	Part #	Price/E
¾" x ½"	1.000	.750	.500	.065	---	---	B31W-R7550P	\$112.45
1" x ½"	2.000	1.000	.500	.065	---	---	B31W-R10050P NEW	83.25
1" x ¾"	1.000	1.000	.750	.065	---	---	B31W-R10075P	106.95
1½" x ¾"	3.000	1.500	.750	.065	---	---	B31W-R15075P	177.25
1½" x 1"	2.000	1.500	1.000	.065	B31W-G150100P	\$41.55	B31W-R150100P	58.65
2" x 1"	4.000	2.000	1.000	.065	B31W-G200100P	73.10	B31W-R200100P	115.00
2" x 1½"	2.000	2.000	1.500	.065	B31W-G200150P	42.25	B31W-R200150P	71.45
2½" x 1½"	4.000	2.500	1.500	.065	B31W-G250150P	69.40	B31W-R250150P	115.95
2½" x 2"	2.000	2.500	2.000	.065	B31W-G250200P	49.30	B31W-R250200P	77.85
3" x 1½"	6.000	3.000	1.500	.065	B31W-G300150P	128.70	B31W-R300150P	190.50
3" x 2"	4.000	3.000	2.000	.065	B31W-G300200P	72.45	B31W-R300200P	116.55
3" x 2½"	2.000	3.000	2.500	.065	B31W-G300250P	85.95	B31W-R300250P	142.00
4" x 2"	8.000	4.000	2.000	.083	B31W-G400200P	187.05	B31W-R400200P	261.50
4" x 2½"	6.000	4.000	2.500	.083	B31W-G400250P	200.45	B31W-R400250P	241.15
4" x 3"	4.000	4.000	3.000	.083	B31W-G400300P	107.40	B31W-R400300P	136.75
6" x 3"	5.500	6.000	3.000	.109	B31W-G600300P	328.80	B31W-R600300P	489.20
6" x 4"	5.500	6.000	4.000	.109	B31W-G600400P	328.80	B31W-R600400P	343.65

Weld Reducers

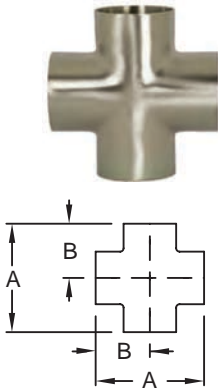
3 Polished Eccentric Weld Reducers - B32W



Tube OD	Dimensions			Nom. Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B	C		Part #	Price/E	Part #	Price/E
1" x 1/2"	2.000	1.000	.500	.065	---	---	B32W-R10050P	\$188.40
2" x 1"	4.000	2.000	1.000	.065	B32W-G200100P	\$151.95	B32W-R200100P	168.10
2" x 1 1/2"	2.000	2.000	1.500	.065	B32W-G200150P	70.30	B32W-R200150P	95.25
2 1/2" x 2"	2.000	2.500	2.000	.065	B32W-G250200P	73.75	B32W-R250200P	97.55
3" x 2"	4.000	3.000	2.000	.065	B32W-G300200P	119.35	B32W-R300200P	134.85
3" x 2 1/2"	2.000	3.000	2.500	.065	B32W-G300250P	129.50	B32W-R300250P	150.65
4" x 2"	8.000	4.000	2.000	.083	B32W-G400200P	247.75	B32W-R400200P	291.35
4" x 3"	4.000	4.000	3.000	.083	B32W-G400300P	142.45	B32W-R400300P	196.45

Weld Crosses

3 Polished Weld Crosses - B9WWWW

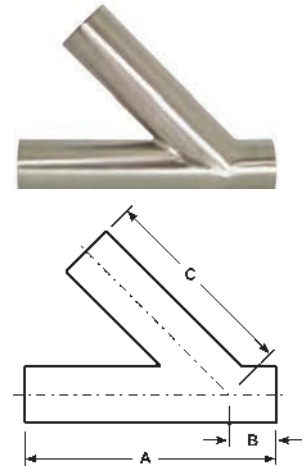


Tube OD	Dimensions		Nominal Wall	polished ID/OD 304 Stainless Steel		polished ID/OD 316L Stainless Steel	
	A	B		Part #	Price/E	Part #	Price/E
1 1/2"	3.312	1.656	.065	B9WWWW-G150P	\$181.40	B9WWWW-R150P	\$332.50
2"	4.125	2.062	.065	B9WWWW-G200P	226.20	B9WWWW-R200P	378.90
3"	5.187	2.593	.065	B9WWWW-G300P	326.45	B9WWWW-R300P	614.70
4"	6.875	3.437	.083	B9WWWW-G400P	503.75	B9WWWW-R400P	785.85

Miscellaneous Weld Configurations

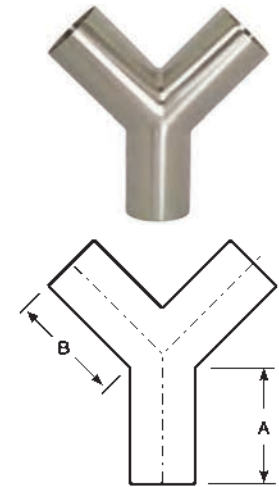
Polished Weld Laterals - B28WA 3

Tube OD	Dimensions			Nominal Wall	polished ID/OD 316L Stainless Steel	
	A	B	C		Part #	Price/E
1"	6.000	1.000	5.000	.065	B28WA-R100P	\$493.05
1½"	7.375	1.188	6.188	.065	B28WA-R150P	493.05
2"	8.750	1.625	7.125	.065	B28WA-R200P	553.85
2½"	10.000	1.500	8.500	.065	B28WA-R250P	668.60
3"	10.750	1.875	8.875	.065	B28WA-R300P	767.15
4"	12.812	2.015	10.750	.083	B28WA-R400P	1214.15



Polished Weld True Wyes - B28W 3

Tube OD	Dimensions		Nominal Wall	polished ID/OD 316L Stainless Steel	
	A	B		Part #	Price/E
1"	2.000	2.438	.065	B28W-R100P	\$446.95
1½"	2.000	2.438	.065	B28W-R150P	465.55
2"	2.625	3.250	.065	B28W-R200P	513.05
2½"	3.370	4.125	.065	B28W-R250P	711.80
3"	4.000	4.875	.065	B28W-R300P	769.60
4"	5.375	5.375	.083	B28W-R400P	1091.40

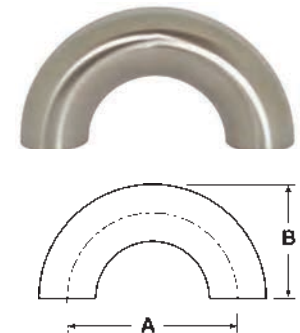


M

Polished Weld 180° Return Bends - B2WUL 3

- bends are standard 1.5 x tube diameter

Tube OD	Dimensions		polished ID/OD 316L Stainless Steel	
	A	B	Part #	Price/E
1"	3.000	2.000	B2WUL-R100P	\$216.15
1½"	4.500	3.000	B2WUL-R150P	335.00
2"	6.000	4.000	B2WUL-R200P	431.45
2½"	7.500	5.000	B2WUL-R250P	545.35
3"	9.000	6.000	B2WUL-R300P	749.50
4"	12.000	8.000	B2WUL-R400P	845.80



NEW
FOR 2013

Weld End Blue Protection Covers - *BCW*

Feature:

- Use these covers to protect all weld ends on fittings and valves.



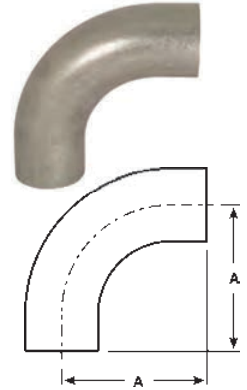
Size	Vinyl Plastic Part #	Price/E
½"	<i>BCW-050</i>	\$0.50
¾"	<i>BCW-075</i>	0.90
1"	<i>BCW-100</i>	1.30
1½"	<i>BCW-150</i>	1.70
2"	<i>BCW-200</i>	2.20
2½"	<i>BCW-250</i>	2.95
3"	<i>BCW-300</i>	3.65
4"	<i>BCW-400</i>	5.45
6"	<i>BCW-600</i>	13.25
8"	<i>BCW-800</i>	23.10

M

Unpolished Elbows

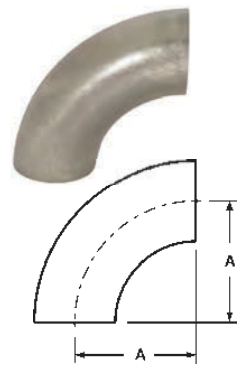
Unpolished 90° Weld Elbows with Tangents - B2S

Tube OD	Dimension A	Nominal Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
¾"	3.000	.065	---	---	B2S-R75U	\$71.95
1"	2.062	.065	B2S-G100U	22.15	B2S-R100U	29.15
1½"	2.937	.065	B2S-G150U	25.45	B2S-R150U	33.35
2"	4.062	.065	B2S-G200U	30.65	B2S-R200U	44.95
2½"	5.187	.065	B2S-G250U	44.35	B2S-R250U	70.60
3"	6.312	.065	B2S-G300U	69.55	B2S-R300U	103.95
4"	8.312	.083	B2S-G400U	123.90	B2S-R400U	198.65



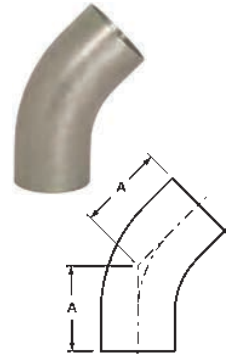
Unpolished 90° Weld Elbows - B2WCL

Tube OD	Dimension A	Nominal Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
½"	1.125	.065	---	---	B2WCL-R50U	\$26.15
¾"	1.125	.065	---	---	B2WCL-R75U	28.00
1"	1.500	.065	B2WCL-G100U	\$14.45	B2WCL-R100U	18.95
1½"	2.250	.065	B2WCL-G150U	15.45	B2WCL-R150U	19.45
2"	3.000	.065	B2WCL-G200U	21.45	B2WCL-R200U	28.15
2½"	3.750	.065	B2WCL-G250U	34.70	B2WCL-R250U	44.70
3"	4.500	.065	B2WCL-G300U	50.10	B2WCL-R300U	65.30
4"	6.000	.083	B2WCL-G400U	99.70	B2WCL-R400U	126.90
6"	9.000	.109	B2WCL-G600U	347.95	B2WCL-R600U	449.85
8"	12.000	.120	B2WCL-G800U	628.20	B2WCL-R800U	808.10



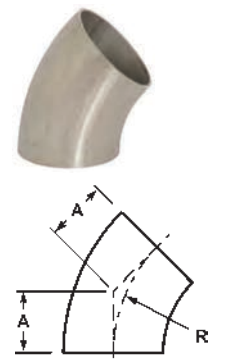
Unpolished 45° Weld Elbows with Tangents - B2KS

Tube OD	Dimension A	Nominal Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
¾"	2.250	.065	---	---	B2KS-R75U	\$112.35
1"	1.188	.065	B2KS-G100U	\$20.20	B2KS-R100U	24.65
1½"	1.625	.065	B2KS-G150U	21.55	B2KS-R150U	28.95
2"	2.312	.065	B2KS-G200U	28.30	B2KS-R200U	36.80
2½"	3.000	.065	B2KS-G250U	38.55	B2KS-R250U	57.00
3"	3.688	.065	B2KS-G300U	53.95	B2KS-R300U	76.15
4"	4.812	.083	B2KS-G400U	99.25	B2KS-R400U	133.40



Unpolished 45° Weld Elbows - B2WK

Tube OD	Dimensions		Nominal Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
	A	R		Part #	Price/E	Part #	Price/E
¾"	.466	1.125	.065	---	---	B2WK-R75U	\$51.90
1"	.625	1.500	.065	B2WK-G100U	\$18.00	B2WK-R100U	19.85
1½"	.937	2.250	.065	B2WK-G150U	14.70	B2WK-R150U	19.15
2"	1.250	3.000	.065	B2WK-G200U	18.95	B2WK-R200U	22.95
2½"	1.562	3.750	.065	B2WK-G250U	27.00	B2WK-R250U	36.40
3"	1.875	4.500	.065	B2WK-G300U	34.65	B2WK-R300U	50.15
4"	2.500	6.000	.083	B2WK-G400U	76.00	B2WK-R400U	97.45
6"	3.750	9.000	.109	B2WK-G600U	303.45	B2WK-R600U	373.85
8"	5.000	12.000	.120	B2WK-G800U	444.35	B2WK-R800U	538.80



Unpolished End Caps - *B16W*

Tube OD	Dimension A	unpolished 304 Stainless Steel	
		Part #	Price/E
1"	.375	B16W-G100	\$10.85
1½"	.562	B16W-G150	13.00
2"	.750	B16W-G200	22.05
2½"	1.000	B16W-G250	27.75
3"	1.250	B16W-G300	35.90
4"	1.500	B16W-G400	63.60

Unpolished Adapters

Male NPT x Weld End Adapters - *B19WB*

Tube OD	Dimension A	Nominal Wall	304 Stainless Steel	
			Part #	Price/E
1"	1.750	.065	B19WB-G100	\$18.65
1½"	1.750	.065	B19WB-G150	26.15
2"	1.812	.065	B19WB-G200	35.15
2½"	2.312	.065	B19WB-G250	60.25
3"	2.500	.065	B19WB-G300	81.70
4"	2.562	.083	B19WB-G400	156.40

Female NPT x Weld End Adapters - *B22WB*

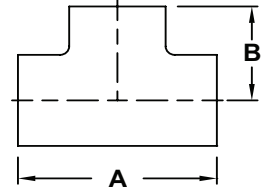
Tube OD	Dimension A	Nominal Wall	304 Stainless Steel	
			Part #	Price/E
1"	1.750	.065	B22WB-G100	\$133.55
1½"	1.750	.065	B22WB-G150	156.25
2"	1.812	.065	B22WB-G200	201.10
2½"	2.312	.065	B22WB-G250	312.90
3"	2.500	.065	B22WB-G300	333.20
4"	2.500	.083	B22WB-G400	444.60

M

Unpolished Tees

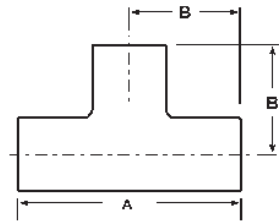
Unpolished Short Weld Tees - B7WWW

Tube OD	Dimensions		Nominal Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
	A	B		Part #	Price/E	Part #	Price/E
1"	2.250	1.125	.065	B7WWW-G100U	\$21.00	B7WWW-R100U	\$31.25
1½"	3.312	1.656	.065	B7WWW-G150U	22.50	B7WWW-R150U	41.10
2"	4.124	2.062	.065	B7WWW-G200U	28.60	B7WWW-R200U	50.60
2½"	4.688	2.344	.065	B7WWW-G250U	43.70	B7WWW-R250U	78.75
3"	5.188	2.594	.065	B7WWW-G300U	59.05	B7WWW-R300U	85.65
4"	6.876	3.438	.083	B7WWW-G400U	122.40	B7WWW-R400U	158.95



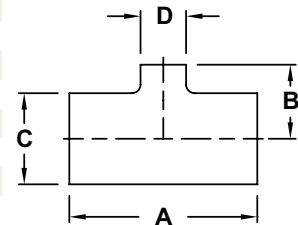
Unpolished Long Weld Tees - B7W

Tube OD	Dimensions		Nominal Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
	A	B		Part #	Price/E	Part #	Price/E
¾"	4.000	2.000	.065	---	---	B7W-R75U	\$98.65
1"	3.750	1.875	.065	B7W-G100U	\$23.75	B7W-R100U	30.30
1½"	4.500	2.250	.065	B7W-G150U	26.30	B7W-R150U	38.55
2"	6.000	3.000	.065	B7W-G200U	32.30	B7W-R200U	46.60
2½"	6.000	3.000	.065	B7W-G250U	46.30	B7W-R250U	71.25
3"	6.500	3.250	.065	B7W-G300U	63.00	B7W-R300U	100.45
4"	7.750	3.875	.083	B7W-G400U	103.90	B7W-R400U	214.85



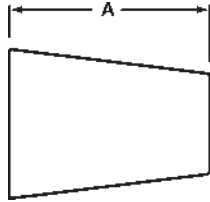
Unpolished Reducing Weld Tees - B7RWWW

Tube OD	Dimensions				Nom. Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
	A	B	C	D		Part #	Price/E	Part #	Price/E
1½" x 1"	3.312	1.375	1.500	1.000	.065	B7RWWW-G150100U	\$35.35	B7RWWW-R150100U	\$62.00
2" x 1"	4.124	1.625	2.000	1.000	.065	B7RWWW-G200100U	44.15	B7RWWW-R200100U	94.90
2" x 1½"	4.124	1.906	2.000	1.500	.065	B7RWWW-G200150U	44.15	B7RWWW-R200150U	94.90
2½" x 1½"	4.688	2.156	2.500	1.500	.065	B7RWWW-G250150U	69.05	B7RWWW-R250150U	78.00
2½" x 2"	4.688	2.312	2.500	2.000	.065	B7RWWW-G250200U	69.05	B7RWWW-R250200U	78.00
3" x 1½"	5.188	2.406	3.000	1.500	.065	B7RWWW-G300150U	100.75	B7RWWW-R300150U	156.45
3" x 2"	5.188	2.562	3.000	2.000	.065	B7RWWW-G300200U	100.75	B7RWWW-R300200U	156.45
4" x 2"	6.876	3.062	4.000	2.000	.083	B7RWWW-G400200U	112.10	B7RWWW-R400200U	162.05
4" x 3"	6.876	3.094	4.000	3.000	.083	B7RWWW-G400300U	112.10	B7RWWW-R400300U	162.05



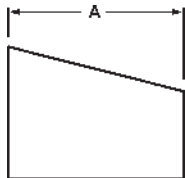
Unpolished Weld Reducers

Unpolished Concentric Weld Reducers - B31W



Tube OD	Dim. A	Nom. Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
NEW ¾" x ½"	1.000	.065	---	---	B31W-R7550U	\$77.15
1" x ½"	2.000	.065	---	---	B31W-R10050U	85.50
1" x ¾"	1.000	.065	---	---	B31W-R10075U	85.50
1½" x ¾"	3.000	.065	---	---	B31W-R15075U	168.30
1½" x 1"	2.000	.065	B31W-G150100U	\$22.50	B31W-R150100U	28.45
2" x 1"	4.000	.065	B31W-G200100U	41.95	B31W-R200100U	63.95
2" x 1½"	2.000	.065	B31W-G200150U	25.35	B31W-R200150U	32.45
2½" x 1½"	4.000	.065	B31W-G250150U	52.40	B31W-R250150U	68.45
2½" x 2"	2.000	.065	B31W-G250200U	30.10	B31W-R250200U	36.10
3" x 1½"	6.000	.065	B31W-G300150U	87.15	B31W-R300150U	137.25
3" x 2"	4.000	.065	B31W-G300200U	51.05	B31W-R300200U	64.10
3" x 2½"	2.000	.065	B31W-G300250U	39.75	B31W-R300250U	49.60
4" x 2"	8.000	.083	B31W-G400200U	125.70	B31W-R400200U	143.60
4" x 2½"	6.000	.083	B31W-G400250U	120.50	B31W-R400250U	146.30
4" x 3"	4.000	.083	B31W-G400300U	51.50	B31W-R400300U	69.35
6" x 4"	5.500	.109	B31W-G600400U	326.15	B31W-R600400U	450.70

Unpolished Eccentric Weld Reducers - B32W



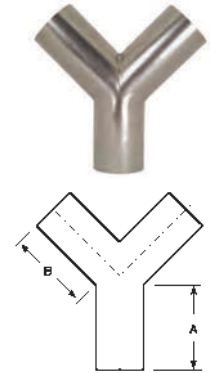
Tube OD	Dim. A	Nom. Wall	unpolished 304 Stainless Steel		unpolished 316L Stainless Steel	
			Part #	Price/E	Part #	Price/E
1" x ½"	2.000	.065	---	---	B32W-R10050U	\$100.35
2" x 1"	4.000	.065	B32W-G200100U	\$62.05	B32W-R200100U	131.30
2" x 1½"	2.000	.065	B32W-G200150U	35.20	B32W-R200150U	37.90
2½" x 2"	2.000	.065	B32W-G250200U	46.60	B32W-R250200U	48.55
3" x 2"	4.000	.065	B32W-G300200U	69.75	B32W-R300200U	97.30
3" x 2½"	2.000	.065	B32W-G300250U	91.00	B32W-R300250U	109.75
4" x 2"	8.000	.083	B32W-G400200U	187.90	B32W-R400200U	248.50
4" x 3"	4.000	.083	B32W-G400300U	80.40	B32W-R400300U	122.45

M

Unpolished Miscellaneous Configurations

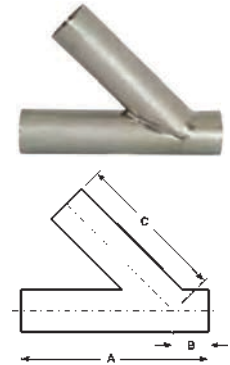
Unpolished Weld True Wyes - B28W

Tube OD	Dimensions		Nominal Wall	unpolished 316L Stainless Steel	
	A	B		Part #	Price/E
1"	2.000	2.438	.065	B28W-R100U	\$354.05
1½"	2.000	2.438	.065	B28W-R150U	453.10
2"	2.625	3.250	.065	B28W-R200U	501.20
2½"	3.370	4.125	.065	B28W-R250U	707.70
3"	4.000	4.875	.065	B28W-R300U	721.95
4"	5.375	5.375	.083	B28W-R400U	797.95



Unpolished Weld Laterals - B28WA

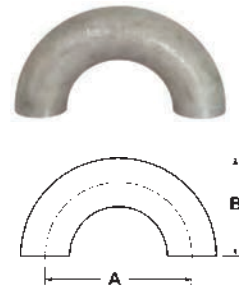
Tube OD	Dimensions			Nominal Wall	unpolished 316L Stainless Steel	
	A	B	C		Part #	Price/E
1"	6.000	1.000	5.000	.065	B28WA-R100U	\$405.30
1½"	7.375	1.188	6.188	.065	B28WA-R150U	444.95
2"	8.750	1.625	7.125	.065	B28WA-R200U	448.40
2½"	10.000	1.500	8.500	.065	B28WA-R250U	502.75
3"	10.750	1.875	8.875	.065	B28WA-R300U	617.55
4"	12.812	2.015	10.750	.083	B28WA-R400U	713.60



Unpolished Weld 180° Return Bends - B2WUL

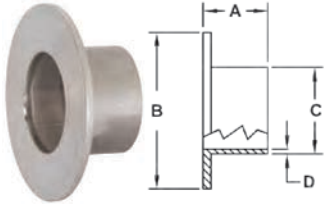
- bends are standard 1.5 x tube diameter

Tube OD	Dimensions		Nominal Wall	unpolished 316L Stainless Steel	
	A	B		Part #	Price/E
1"	3.000	2.000	.065	B2WUL-R100U	\$155.20
1½"	4.500	3.000	.065	B2WUL-R150U	175.45
2"	6.000	4.000	.065	B2WUL-R200U	248.70
2½"	7.500	5.000	.065	B2WUL-R250U	357.30
3"	9.000	6.000	.065	B2WUL-R300U	451.35
4"	12.000	8.000	.083	B2WUL-R400U	510.35



See pages 456 for weld end protection covers.

Unpolished Type A Stub Ends - 14VB

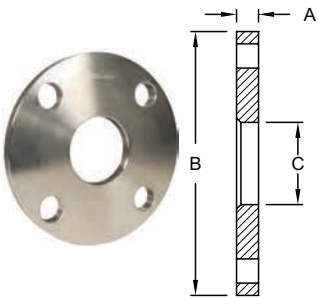
**Feature:**

- typically used with B38SL flanges

Tube OD	Dimensions				316L Stainless Steel	
	A	B	C	D	Part #	Price/E
1"	1.625	2.000	1.000	.065	14VB-R100	\$65.95
1½"	1.750	2.875	1.500	.065	14VB-R150	74.90
2"	1.500	3.625	2.000	.065	14VB-R200	112.35
2½"	2.000	4.125	2.500	.065	14VB-R250	149.75
3"	2.250	5.000	3.000	.065	14VB-R300	187.20
4"	2.625	6.187	4.000	.084	14VB-R400	299.45

Flanges

Unpolished Slip-On 150# Flanges - B38SL



Tube OD	Dimensions			Number & Diameter Bolt Holes	Bolt Circle	304 Stainless Steel		316L Stainless Steel	
	A	B	C			Part #	Price/E	Part #	Price/E
1"	.375	4.250	1.063	4/.625	3.125	B38SL-G100	\$93.70	B38SL-R100	\$129.80
1½"	.375	5.000	1.563	4/.625	3.875	B38SL-G150	116.50	B38SL-R150	158.65
2"	.437	6.000	2.063	4/.750	4.750	B38SL-G200	143.80	B38SL-R200	266.70
3"	.500	7.500	3.063	4/.750	6.000	B38SL-G300	260.30	B38SL-R300	457.50
4"	.562	9.000	4.063	8/.750	7.500	B38SL-G400	356.85	B38SL-R400	648.65
6"	.562	11.000	6.063	8/.875	9.500	B38SL-G600	518.90	B38SL-R600	853.55
8"	.687	13.500	8.063	8/.875	11.750	B38SL-G800	1037.85	B38SL-R800	1502.10

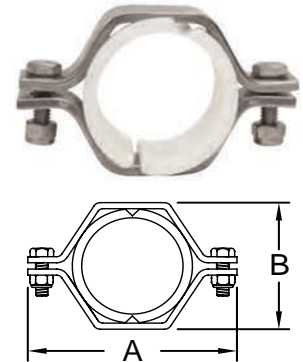
Tube Hangers

Hex Tube Hanger with ABS Sleeve - B24PS

Feature:

- ABS plastic sleeve operating temperatures up to **230°F**.

Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
½"	2.800	1.150	B24PS-G50	\$9.00
¾"	2.800	1.150	B24PS-G75	9.00
1"	3.425	1.450	B24PS-G100	12.10
1½"	4.000	2.125	B24PS-G150	13.25
2"	4.500	2.500	B24PS-G200	15.85
2½"	4.950	3.125	B24PS-G250	18.50
3"	5.500	3.750	B24PS-G300	20.80
4"	6.950	4.750	B24PS-G400	27.40
5"	8.063	5.625	B24PS-G500	82.55
6"	9.250	6.625	B24PS-G600	68.25
8"	11.500	8.625	B24PS-G800	109.70



Sleeves - 13PS

Features:

- maximum temperature: **230°F**
- high temperature sleeves are available

Size	ABS		Size	ABS	
	Part #	Price/E		Part #	Price/E
½"	13PS-50	\$7.25	3"	13PS-300	\$8.80
¾"	13PS-75	7.25	4"	13PS-400	11.15
1"	13PS-100	5.80	5"	13PS-500	62.95
1½"	13PS-150	5.80	6"	13PS-600	17.85
2"	13PS-200	5.80	8"	13PS-800	34.80
2½"	13PS-250	8.45			

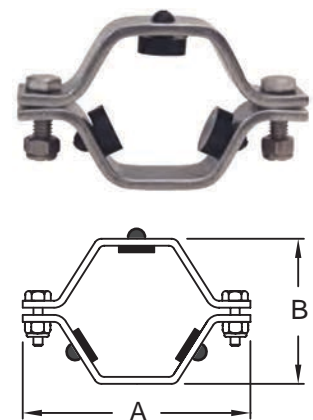


Hex Tube Hanger with Nitrile Grommets - B24RG

Features:

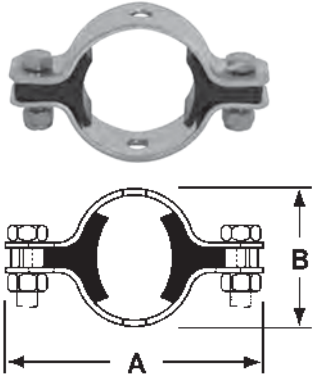
- replacement grommets are available
- Nitrile grommets maximum operating temperature of **230°F**.

Tube OD	Dimensions		304 Stainless Steel	
	A	B	Part #	Price/E
½" - ¾"	3.425	1.450	B24RG-G75	\$11.05
1"	3.425	1.450	B24RG-G100	11.90
1½"	4.000	2.125	B24RG-G150	12.80
2"	4.500	2.500	B24RG-G200	15.45
2½"	4.950	3.125	B24RG-G250	17.60
3"	5.500	3.750	B24RG-G300	19.90
4"	6.950	4.750	B24RG-G400	25.90
5"	8.000	5.625	B24RG-G500 NEW	37.55
6"	9.250	6.625	B24RG-G600	42.90
8"	11.500	8.625	B24RG-G800	93.70



Tube Hangers

Round Tube Hangers with Nitrile Inserts - B24RPH


Feature:

- Nitrile inserts maximum operating temperature of 230°F

Tube OD	Dimensions		304 Stainless Steel with nitrile insert	
	A	B	Part #	Price/E
1/2"	2.750	1.125	B24RPH-G50	\$12.75
3/4"	2.750	1.125	B24RPH-G75	12.75
1"	3.310	1.500	B24RPH-G100	20.30
1 1/2"	3.810	2.000	B24RPH-G150	21.65
2"	4.250	2.562	B24RPH-G200	25.00
2 1/2"	5.000	3.000	B24RPH-G250	27.80
3"	5.500	3.562	B24RPH-G300	31.25
4"	6.500	4.688	B24RPH-G400	39.45

Nuts and Bolts - 13NHN

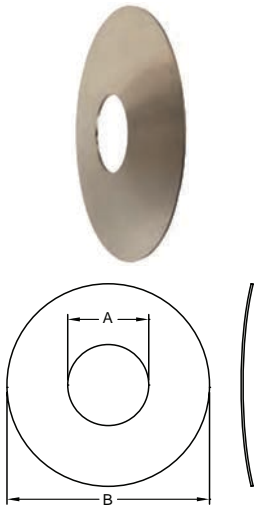
Features:

- All size hex hangers with grommets and round hangers 1" to 4" use 13NHN-G100-600 fastener sets
- 1/2" and 3/4" round and sleeved hangers use 13NHN-G75 fastener sets
- 2 nuts and bolts supplied to a set



Size	Description	304 Stainless Steel Part #	Price/E
1/2" - 3/4"	1/4-20 x 3/4" bolt with nylock nut	13NHN-G75	\$2.95
1" - 12"	5/16-18 x 1" bolt with nylock nut	13NHN-G100-600	9.45

Wall Flanges - B25



Tube OD	Dimensions		Wall Thickness	304 Stainless Steel	
	A	B		Part #	Price/E
1/2"	.50	3.00	.065	B25-G050300	\$32.25
1/2"	.50	5.00	.065	B25-G050500	33.30
3/4"	.75	3.00	.065	B25-G075300	29.05
3/4"	.75	5.00	.065	B25-G075500	35.00
1"	1.00	3.00	.065	B25-G100300	26.35
1"	1.00	5.00	.065	B25-G100500	29.95
1 1/2"	1.50	5.00	.065	B25-G150500	30.40
2"	2.00	5.00	.065	B25-G200500	31.00
2 1/2"	2.50	5.00	.065	B25-G250500	31.60
3"	3.00	6.00	.065	B25-G300600	32.05
4"	4.00	7.00	.065	B25-G400700	39.25
6"	6.00	10.00	.065	B25-G6001000	167.60
8"	8.00	12.00	.065	B25-G8001200	220.55
10"	10.00	14.00	.065	B25-G10001400	265.85
12"	12.00	16.00	.065	B25-G12001600	280.05

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Tubing

NEW
FOR 2013

Product Specifications



Tube OD	Nominal Wall Thickness	Gage Number	Box Qty	Wt. Pounds per Ft.
½"	.065	16	100'	0.31
¾"	.065	16	100'	0.49
1"	.065	16	280'	0.67
1½"	.065	16	340'	1.02
2"	.065	16	340'	1.36
2½"	.065	16	220'	1.71
3"	.065	16	220'	2.06
4"	.083	14	100'	3.45
6"	.109	12	40'	6.92

Features:

- size range: ½" - 6" OD tube
- materials:
 - 304 stainless steel
 - 316L stainless steel
- finishes:
 - ASTM-A210 3A sanitary finish ID and OD
 - ASTM-A269 unpolished ID and OD
 - BPE finishes are available
- tubing available in 20' lengths only
- surcharges change MONTHLY
- tubing only ships via truck
- other sizes may be available, call Dixon Sanitary for information
- tubing is NOT returnable
- if not ordered in full box quantity, broken box charge will be applied

Operating Pressures

304 Stainless Steel Tube

Tube OD Size	Nominal Wall Thickness	Pressure (PSI)		
		<i>working</i>	<i>yield</i>	<i>burst</i>
½"	.065	4,870	7,800	19,500
¾"	.065	3,250	5,200	13,000
1"	.065	2,440	3,900	9,800
1½"	.065	1,630	2,600	6,500
2"	.065	1,220	2,000	4,900
2½"	.065	980	1,600	3,900
3"	.065	810	1,300	3,300
4"	.083	780	1,200	3,100
6"	.109	680	1,090	2,720

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:

- material: 304
- yield strength (PSI): 30,000
- tensile strength (PSI): 75,000

Working Pressure = ¼ of Burst Pressure, these calculate from **-20°F to 100°F**.

316L Stainless Steel Tube

Tube OD Size	Nominal Wall Thickness	Pressure (PSI)		
		<i>working</i>	<i>yield</i>	<i>burst</i>
½"	.065	3,250	6,500	19,500
¾"	.065	2,167	4,330	13,000
1"	.065	2,280	3,300	9,100
1½"	.065	1,520	2,200	6,100
2"	.065	1,140	1,600	4,600
2½"	.065	910	1,300	3,600
3"	.065	760	1,100	3,000
4"	.083	730	1,000	2,900
6"	.109	635	900	2,540

The pressures shown in the table above are calculated using Barlow's Formula and the following properties:

- material: 316L
- yield strength (PSI): 25,000
- tensile strength (PSI): 70,000

Working Pressure = ¼ of Burst Pressure, these calculate from **-20°F to 100°F**.



Pipe size and Tube OD size materials are not interchangeable

Call Dixon Sanitary 800.789.1718 for pricing and freight allowance.

NEW
FOR 2013

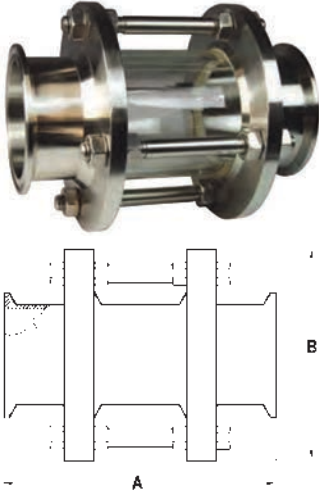
Sight Glasses

Product Specifications

Features:

- size range: 1" - 6" OD tube
- material:
 - 316L stainless steel
 - Borosilicate glass
 - white buna gaskets
- finish:
 - 32R_a sanitary finish, ID and OD

In-Line Sight Glasses - B54BMP

**Features:**

- various end configurations are available: clamp, weld, bevel seat, John Perry, I-Line and Q-Line
- maximum temperature: **200°F**

Tube OD	A	B	Working Pressure	316L Stainless Steel Part #	Price/E
1"	5.625	3.250	145	B54BMP-R100	\$555.60
1½"	5.625	4.000	145	B54BMP-R150	630.75
2"	5.625	4.250	145	B54BMP-R200	668.40
2½"	6.125	4.750	120	B54BMP-R250	856.55
3"	7.250	5.500	120	B54BMP-R300	1006.75
4"	7.375	6.500	95	B54BMP-R400	1204.70
6"	7.625	9.500	80	B54BMP-R600	6040.55

Kits and Replacement Parts

Seal kit contains:
(2) white buna gaskets

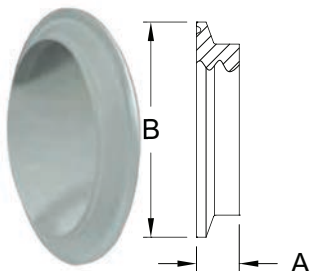
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Size	Seal Kit Part Number	Price/E	Replacement Glass Part #	Price/E
1"	B54BMP-SK100	\$11.30	B54G-P100	\$285.00
1½"	B54BMP-SK150	11.30	B54G-P150	330.80
2"	B54BMP-SK200	11.30	B54G-P200	352.60
2½"	B54BMP-SK250	15.25	B54G-P250	452.75
3"	B54BMP-SK300	15.25	B54G-P300	535.70
4"	B54BMP-SK400	15.25	B54G-P400	636.75
6"	B54BMP-SK600	POR	B54G-P600	POR

Acrylic Sight Glass End Caps - B5416MP

Features:

- for use on any line with a clamp and gasket
- maximum temperature: **150°F**
- maximum operating pressure: **100 PSI**



Tube OD	A	B	Acrylic Part #	Price/E
1" - 1½"	.438	1.984	B5416MP-A100150	\$138.95
2"	.438	2.516	B5416MP-A200	146.15
2½"	.438	3.047	B5416MP-A250	171.45
3"	.438	3.579	B5416MP-A300	179.75
4"	.438	4.682	B5416MP-A400	347.55
6"	.438	6.562	B5416MP-A600	749.45

Spray Balls

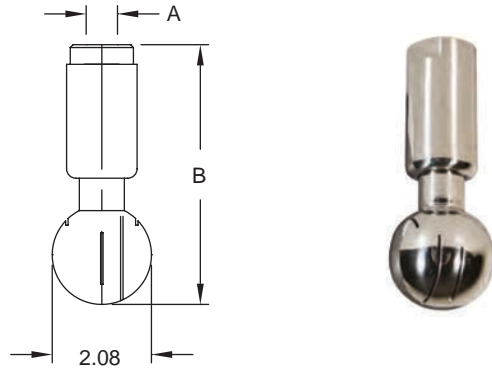
Rotating Spray Balls - SRH

Application:

- ideal for cleaning all types of tanks and vessels

Features:

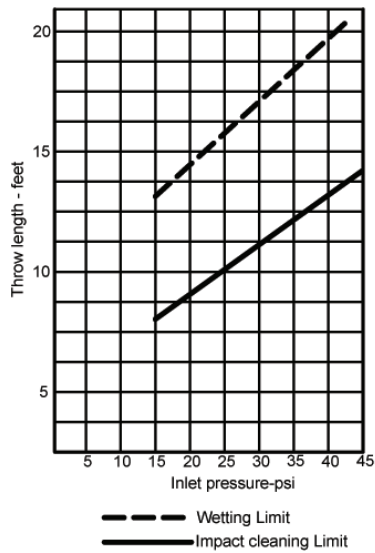
- stainless steel ball bearings eliminate rust
- cleaning solution lubricates unit
- mirror-like finish (OD)
- spray pattern: 360°
- connections available: clamp and NPT



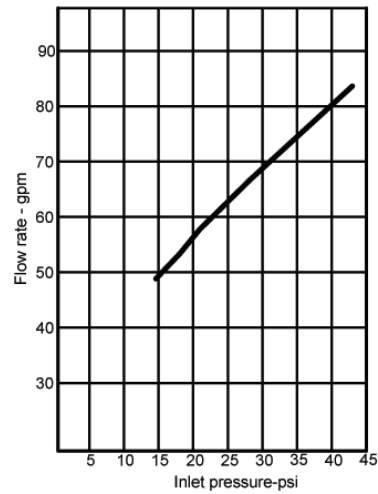
Size	Type	A	B	304 Stainless Steel		316L Stainless Steel	
				Part #	Price/E	Part #	Price/E
¾"	NPT	¾" NPT	5.46	SRH360NPT-G075	\$137.50	---	---
1½"	NPT	1½" NPT	5.46	---	---	SRH360NPT-R150	\$301.15
1½"	Clamp	1.984	5.46	SRH360CMP-G150	146.65	SRH360CMP-R150	197.95

Technical Data

Cleaning Radius

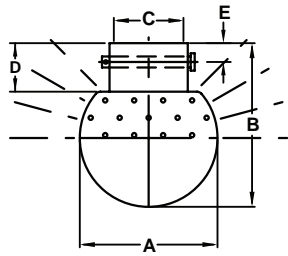


Flow Rate

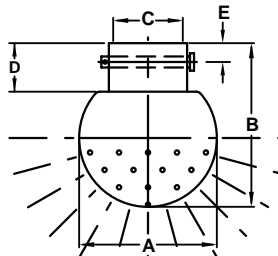


Spray Balls

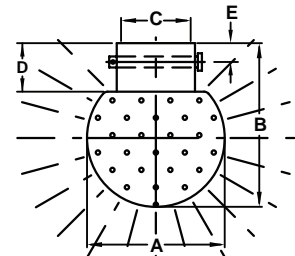
Stationary Spray Balls - STC



180° Top Pattern



180° Bottom Pattern



360° Pattern

Application:

- typical use is in food and beverage industries for cleaning storage tanks

Features:

- 316L stainless steel
- heavy stainless steel construction provides longer life
- various spray patterns available (blanks available as special order)
- stationary - designed to be mounted to a tube or pipe
- 2 mm spray holes

Size	Pin Length	Spray Pattern	Dimensions					Pin Size	316L Stainless Steel	
			A	B	C	D	E		Part #	Price/E
1"	1.47	360°	3.04	2.95	1.005	.975	.445	.226	STC-360-R100	\$118.30
1½"	1.95	360°	3.54	2.95	1.505	.975	.445	.226	STC-360-R150	182.45
1"	1.47	180° bottom	3.54	2.95	1.005	.975	.445	.226	STC-180B-R100	120.40
1½"	1.95	180° bottom	3.54	2.95	1.505	.975	.445	.226	STC-180B-R150	171.95
1"	1.47	180° top	3.54	2.95	1.005	.975	.445	.226	STC-180T-R100	120.40
1½"	1.95	180° top	3.54	2.95	1.505	.975	.445	.226	STC-180T-R150	171.95

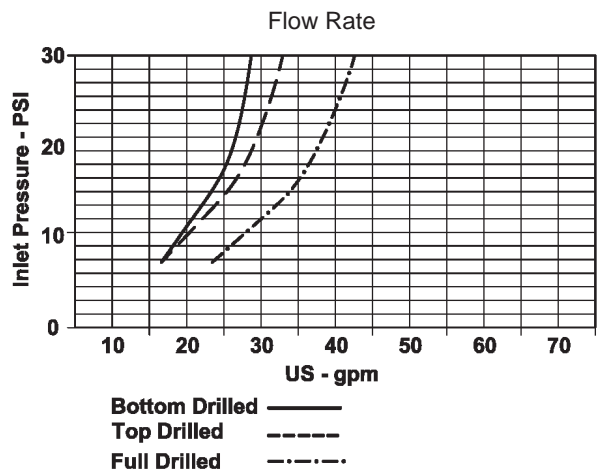
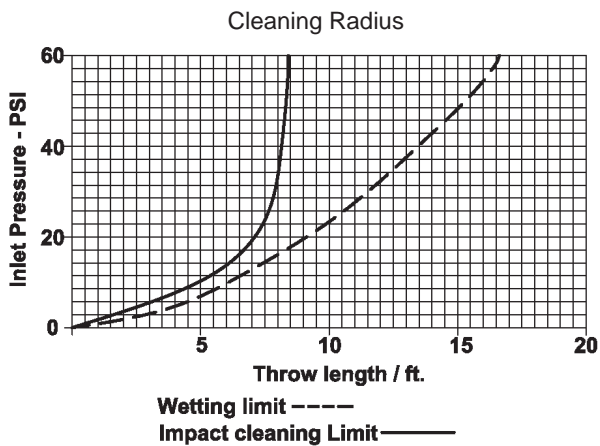
Repair Kits

Repair kit contains:

- (1) pin
- (1) R clip

Size	Part #	Price/E
1"	STC-RK100	\$8.65
1½"	STC-RK150	8.85

Technical Data



Product Specifications

Features:

- size range: 1" - 3" clamp
- type:
 - inline
 - short
 - long
 - side entry
 - long
- material: 316L stainless steel
- finish: 3A sanitary, ID and OD



What Are Filter / Strainers Used For?

Filter Definition

A filter uses a disposable media to remove finer particulate from the stream. Dixon Sanitary holds Authorization Number 1446 for the 3-A Sanitary Standard for Filters using Single Service Filter Media, Number: 10-4. Vertical mounting is necessary to meet 3-A 10-04 requirements for minimal product clingage.

Strainer Definition

A strainer is a device used to separate solids from fluids. Here it is used for larger particulate matter from liquid or gas. It uses cleanable media.



Full Flow Filters -
Can be equipped with a variety of filtering media, down to 40 microns, media includes polyester, cotton cheesecloth and nylon mesh.



Full Flow Coarse Strainers -
1/4" or 1/8" perforations.
1/8" not 3A

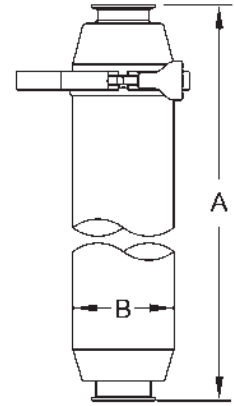


Full Flow Fine/Medium Strainers -
Can be equipped with a variety of mesh screens for removing finer particles (20 to 100 mesh). Not 3A.

M

Filters / Strainers

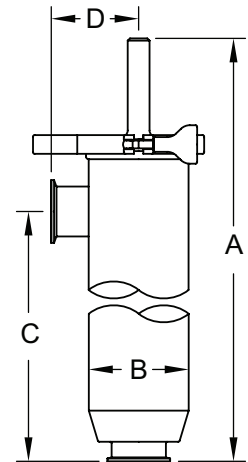
In-line Filter / Strainer - BSCCO

**Features:**

- must be vertical mount to be 3A
- bevel seat, I-line and weld ends available, call Dixon Sanitary at 800.789.1718 for information
- in-line units ship standard with the following: spring, distributor cap, clamp gasket, 1/4" perforated back-up tube, inlet and outlet bodies and squeeze clamp
- 1/8" perforated back-up tube available, must specify when ordering (not 3A)

Size	A short	A long	B	Short - 316L Stainless Steel Part #	Price/E	Long 316L Stainless Steel Part #	Price/E
1"	15.75	--	4.00	BSCCQ1-R100	\$1407.05	---	---
1½"	15.75	35.375	4.00	BSCCQ1-R150	1407.05	BSCCQ2-R150	\$2488.10
2"	15.75	35.375	4.00	BSCCQ1-R200	1407.05	BSCCQ2-R200	2488.10
2½"	15.75	--	4.50	BSCCS1-R250	1660.75	---	---
3"	15.75	35.375	4.50	BSCCS1-R300	1660.75	BSCCS2-R300	3040.30

Side-Entry Filter / Strainer - BSCCO

M**Features:**

- serviceable without removing from the line
- must be a vertical mount to be 3A
- Side entry units ship standard with the following: spring, end cap with handle, distributor cap, clamp gasket, 1/4" perforated back-up tube, body and squeeze clamp
- 1/8" perforated back-up tube available, must specify when ordering (not 3A)
- Bevel seat, I-line and weld ends available, call Dixon Sanitary at 800.789.1718 for information

Size	A	B	C	D	316L Stainless Steel Part #	Price/E
1½"	41.90	4.00	35.00	3.50	BSCCQ3-R150	\$3227.80
2"	41.90	4.00	35.00	3.50	BSCCQ3-R200	3227.80
3"	41.90	4.50	35.00	3.75	BSCCQ3-R300	3975.20

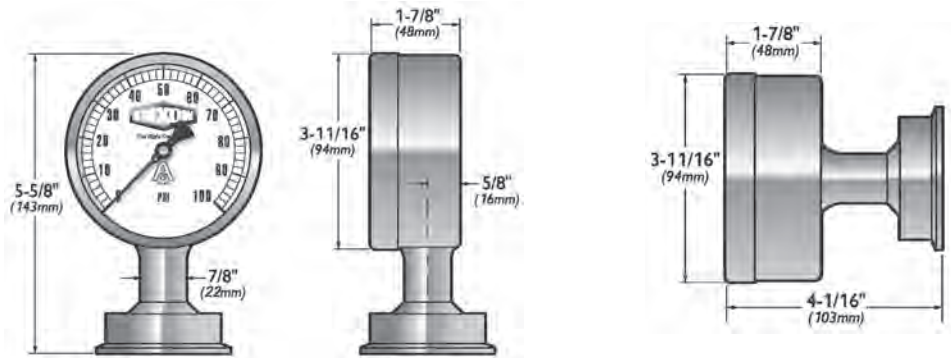
Sanitary Pressure Gauges

NEW
FOR 2013**Features:**

- accuracy: $\pm 1.5\%$ of full scale
- over range capacity: 30%
- wetted surfaces: 316L stainless steel
- surface finishes (wetted parts): R_a max = 25 microinches
- case material: 304 stainless steel
- dial size: $3\frac{1}{2}$ "
- lens material: polycarbonate
- temperature limits: 0°F (-18°C) to 250°F (121°C)
- standard fill: food grade glycerin
- rezero feature: standard on pointer
- shipping weight: approximately 3 lbs. (1.3 kg)



3S-B-2U-GFBTSS

 $3\frac{1}{2}$ " Gauge - (90 mm)

Dial Size	Clamp Size	Pressure Range (PSI)	Mount	Part #	Price/E
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-30	Bottom	3S-B-15U-GFBTSS	\$999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-60	Bottom	3S-C-15U-GFBTSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-100	Bottom	3S-D-15U-GFBTSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-160	Bottom	3S-E-15U-GFBTSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-200	Bottom	3S-F-15U-GFBTSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-300	Bottom	3S-G-15U-GFBTSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-30	Back	3S-B-15U-GFBKSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-60	Back	3S-C-15U-GFBKSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-100	Back	3S-D-15U-GFBKSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-160	Back	3S-E-15U-GFBKSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-200	Back	3S-F-15U-GFBKSS	999.25
$3\frac{1}{2}$ "	$1\frac{1}{2}$ "	0-300	Back	3S-G-15U-GFBKSS	999.25
$3\frac{1}{2}$ "	2"	0-30	Bottom	3S-B-2U-GFBTSS	999.25
$3\frac{1}{2}$ "	2"	0-60	Bottom	3S-C-2U-GFBTSS	999.25
$3\frac{1}{2}$ "	2"	0-100	Bottom	3S-D-2U-GFBTSS	999.25
$3\frac{1}{2}$ "	2"	0-160	Bottom	3S-E-2U-GFBTSS	999.25
$3\frac{1}{2}$ "	2"	0-200	Bottom	3S-F-2U-GFBTSS	999.25
$3\frac{1}{2}$ "	2"	0-300	Bottom	3S-G-2U-GFBTSS	999.25
$3\frac{1}{2}$ "	2"	0-30	Back	3S-B-2U-GFBKSS	999.25
$3\frac{1}{2}$ "	2"	0-60	Back	3S-C-2U-GFBKSS	999.25
$3\frac{1}{2}$ "	2"	0-100	Back	3S-D-2U-GFBKSS	999.25
$3\frac{1}{2}$ "	2"	0-160	Back	3S-E-2U-GFBKSS	999.25
$3\frac{1}{2}$ "	2"	0-200	Back	3S-F-2U-GFBKSS	999.25
$3\frac{1}{2}$ "	2"	0-300	Back	3S-G-2U-GFBKSS	999.25

Swivels

NEW
 FOR 2013

Product Specifications

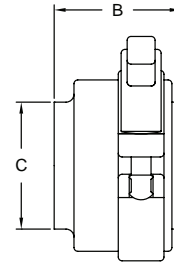
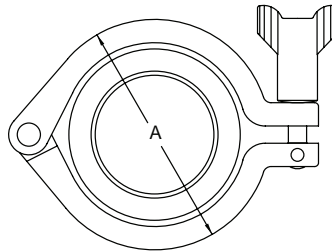
Features:

- available in clamp and weld configurations
- elastomers: silicone and PTFE
- optional elastomers available
- size range: 1" - 4" Tube OD
- materials: 316L stainless steel
- finish: sanitary finish ID and OD

pressure ratings

Size	PSI at 70°F	PSI at 250°F
1"	500	300
1½"	500	300
2"	450	250
2½"	400	200
3"	350	175
4"	300	150

Straight Swivel - SJSS



straight clamp dimensions - style 20

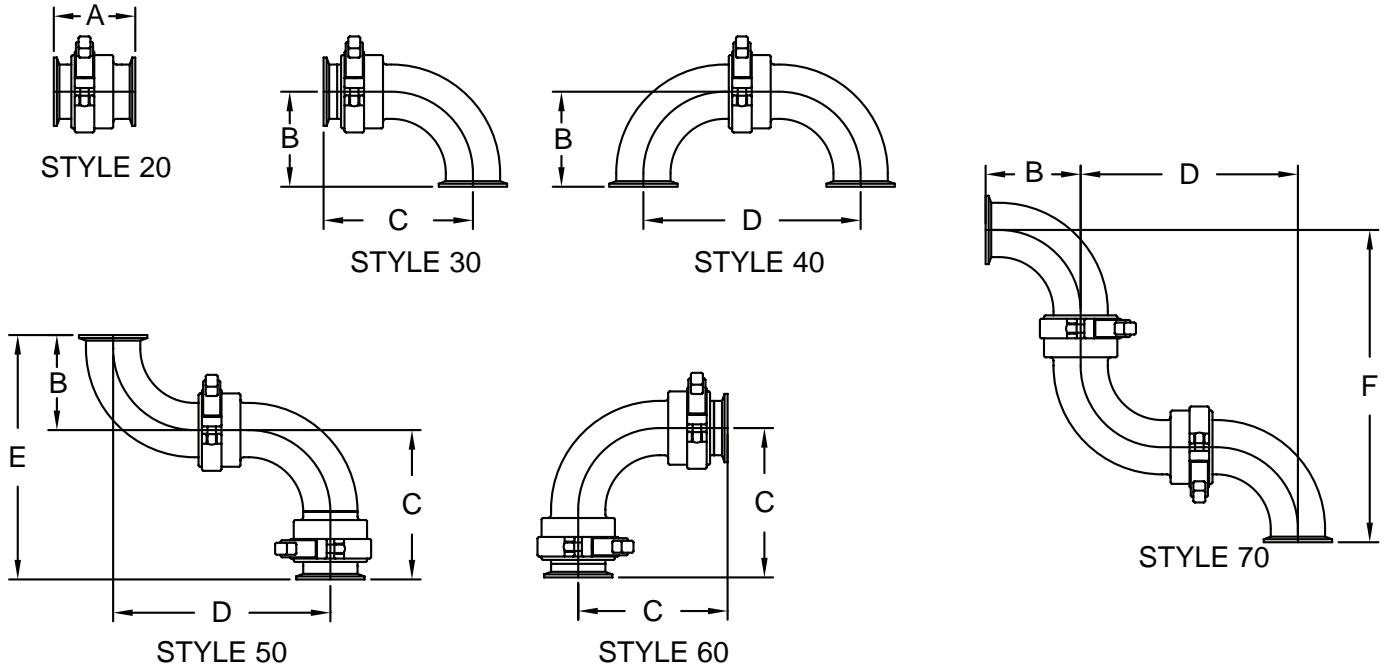
Size	A	B	C	316L Stainless Steel Part #	Price/E
1"	2.56	3.00	1.00	SJSS100CC-20	POR
1½"	2.56	3.00	1.50	SJSS150CC-20	POR
2"	3.09	3.00	2.00	SJSS200CC-20	POR
2½"	3.44	3.00	2.50	SJSS250CC-20	POR
3"	3.94	3.00	3.00	SJSS300CC-20	POR
4"	5.08	4.19	4.00	SJSS400CC-20	POR

straight weld connection dimensions - style 20

Size	A	B	C	316L Stainless Steel Part #	Price/E
1"	2.56	2.00	1.00	SJSS100BB-20	POR
1½"	2.56	2.00	1.50	SJSS150BB-20	POR
2"	3.09	2.00	2.00	SJSS200BB-20	POR
2½"	3.44	2.00	2.50	SJSS250BB-20	POR
3"	3.94	2.00	3.00	SJSS300BB-20	POR
4"	5.08	2.94	4.00	SJSS400BB-20	POR

Straight Swivels - SJSS Configurations

NEW
FOR 2013



clamp joint dimensions

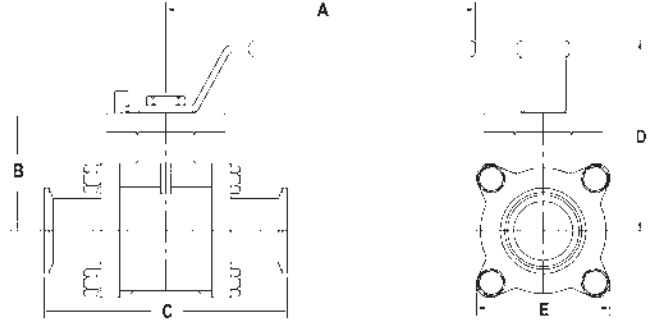
Part Number	Size	A	B	C	D	E	F
<i>SJSS100CC-*</i>	1"	3.00	2.00	4.00	5.00	6.00	7.00
<i>SJSS150CC-*</i>	1½"	3.00	2.75	4.75	6.50	7.50	9.25
<i>SJSS200CC-*</i>	2"	3.00	3.50	5.50	8.00	9.00	11.50
<i>SJSS250CC-*</i>	2½"	3.00	4.25	6.25	9.50	10.50	13.75
<i>SJSS300CC-*</i>	3"	3.00	5.00	7.00	11.00	12.00	16.00
<i>SJSS400CC-*</i>	4"	5.19	6.63	9.63	14.94	15.94	21.56

- Please contact Dixon Sanitary 800.789.1718 for pricing.

2-Way 3 Piece Encapsulated Ball Valves

Features:

- ½" - 2" rated at **1,000 PSI** WOG; 2½" - 4" rated at 800 PSI WOG
- balanced encapsulated construction minimizes cold flow
- live-loaded stem packing
- precision stainless steel balls reduce torque and friction losses while extending seat life
- integral ISO 5211 mounting pad
- ID polish is Ra 32 minimum
- lockable handle can prevent accidental actuation
- standard internal entry blow out proof stem design
- full port design matches ball and seat ports to tube ID for lower pressure drop and less turbulent flow
- compact design for areas with tight space restrictions
- fully encapsulated construction produces bubble tight seal
- identification tagging available
- virgin PTFE seats
- repair kits available
- for valve seat options, call Dixon Sanitary at 800.789.1718



Size	Dimensions					316 Stainless Steel	
	A	B	C	D	E	Part #	Price/E
½"	4.9	1.5	4.3	3.0	1.9	BV2CV-050CC-A	\$164.90
¾"	4.9	1.8	4.7	3.3	2.2	BV2CV-075CC-A	199.15
1"	5.6	2.1	4.9	3.6	2.4	BV2CV-100CC-A	261.10
1½"	9.5	2.7	5.6	4.4	3.1	BV2CV-150CC-A	440.40
2"	9.5	3.1	6.4	4.8	3.7	BV2CV-200CC-A	637.10
2½"	18.0	3.8	7.8	5.2	4.8	BV2CV-250CC-A	1285.20
3"	18.0	4.2	9.0	5.7	5.4	BV2CV-300CC-A	1696.50
4"	18.0	5.3	9.5	6.8	8.8	BV2CV-400CC-A	2914.80

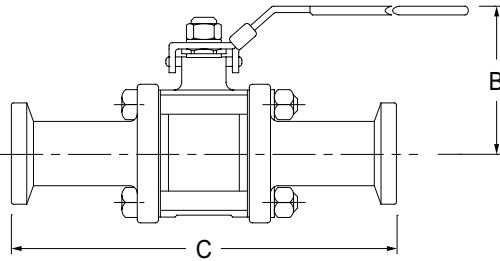
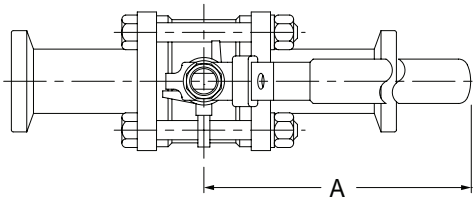
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Dixon Sanitary's commitment to excellence and continuous research and development for improving product quality may warrant periodic changes in design and specification. We reserve the right to modify product design without prior notification and without incurring any liability to provide these modifications to products previously purchased.



Literature download for Valve Seat Options

Non-Encapsulated 2-way 3 Piece Stainless Steel Ball Valves



Features:

- blow-out proof stem
- live-loaded stem packing
- 15% glass reinforced PTFE seats
- ID polish is R_a 32
- CF8M stainless body, ends and ball
- lockable handle
- rated to $\frac{1}{2}$ " - 2" **1,000 PSI WOG**
 $2\frac{1}{2}$ " - 4" **800 PSI WOG**
- repair kits available
- for valve seat options, call Dixon Sanitary at 800.789.1718



Size	Dimensions			Break Torque (in-lbs.)	Weight (lbs.)	316 Stainless Steel	
	A	B	C			Part #	Price/E
$\frac{1}{2}$ "	4.1	2.3	4.6	55	1.4	BV2GG-050CC-A	\$128.80
$\frac{3}{4}$ "	4.1	2.5	4.7	71	1.8	BV2GG-075CC-A	140.55
1"	5.0	2.8	4.9	101	2.6	BV2GG-100CC-A	207.25
$1\frac{1}{2}$ "	6.1	3.5	5.6	221	4.6	BV2GG-150CC-A	351.25
2"	7.6	3.9	6.4	345	8.5	BV2GG-200CC-A	529.30
$2\frac{1}{2}$ "	7.6	4.4	7.8	883	17.8	BV2GG-250CC-A	933.05
3"	10.9	4.9	9.0	830	28.2	BV2GG-300CC-A	1421.30
4"	13.2	6.6	9.6	1323	41.4	BV2GG-400CC-A	2582.65

Dimensions are approximate. Engineering dimensions are available upon request.
Specifications are subject to change without notice.



Literature download for Valve Seat Options

Butterfly Valves

Features:

In addition to a variety of end and seat configurations this butterfly valve also has four handle options.

- A. The *pull style handle* allows you to set the valve in four different positions simply by pulling and turning.
- B. The *infinite handle* has incremental marks on the top which can be used when needing a throttling valve.
- C. The stainless steel *trigger handle* offers twelve positions which make it easy to understand how to actuate the valve.

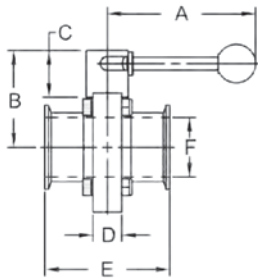
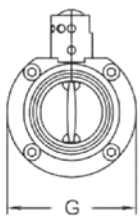
- 100% hydraulic tested / 100% inspected
- all wetted surfaces are sanitary finished to < 32R_a
- field serviceable (no special tools required)
- various end configurations available: weld, I-line, Q-line, bevel seat and John Perry
- actuation available: double-acting, air-to-spring, electric, call the factory at 800.789.1718 for details
- vacuum rating: 0.4 inches Hg at 68°F
- temperature range: **15°F to 200°F**
- clamp style is standard

Clamp End **Butterfly Valve with Pull Handle - [A]**



Size	316L Stainless Steel with Silicone seats		316L Stainless Steel with FKM seats		316L Stainless Steel with EPDM seats	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	B5101S050CC-A	\$325.05	B5101V050CC-A	\$351.60	B5101E050CC-A	\$319.10
¾"	B5101S075CC-A	325.05	B5101V075CC-A	351.60	B5101E075CC-A	319.10
1"	B5101S100CC-A	313.15	B5101V100CC-A	333.20	B5101E100CC-A	299.90
1½"	B5101S150CC-A	297.50	B5101V150CC-A	340.10	B5101E150CC-A	289.95
2"	B5101S200CC-A	360.30	B5101V200CC-A	421.15	B5101E200CC-A	349.95
2½"	B5101S250CC-A	450.20	B5101V250CC-A	576.45	B5101E250CC-A	427.25
3"	B5101S300CC-A	601.45	B5101V300CC-A	799.45	B5101E300CC-A	583.45
4" ¹	B5101S400CC-A	926.65	B5101V400CC-A	1377.05	B5101E400CC-A	897.65
6"	B5101S600CC-A	2095.70	---	---	B5101E600CC-A	2073.45
8"	---	---	---	---	B5101E800CC-A	6008.15

¹ 4" high pressure butterfly valve is available, call Dixon Sanitary for more information

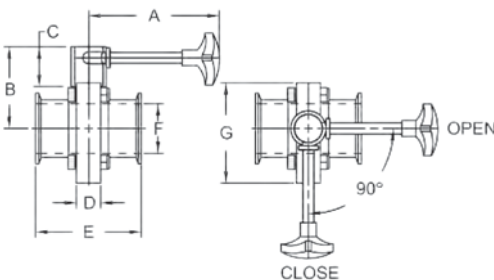


Size	Dimensions							Break Torque (in. lbs.) Silicone	Break Torque (in. lbs.) FKM	Break Torque (in. lbs.) EPDM	PSI @ 68°F
	A	B	C	D	E	F	G				
½"	4.4	2.8	1.4	0.9	3.5	.37	3.1	20	70	75	140
¾"	4.4	2.8	1.4	0.9	3.5	.62	3.1	20	70	75	140
1"	4.4	2.8	1.4	0.9	3.5	0.9	3.1	20	70	75	140
1½"	4.4	2.8	1.4	0.9	3.5	1.4	3.1	40	125	130	140
2"	4.4	3.1	1.4	0.9	3.8	1.9	3.9	55	175	165	140
2½"	4.4	3.5	1.4	0.9	3.8	2.4	4.6	70	220	210	110
3"	6.2	3.8	1.3	1.2	4.1	2.9	5.2	165	310	350	110
4"	6.2	4.5	1.3	1.2	4.8	3.8	6.7	350	450	540	85
6"	11.5	5.5	1.3	1.2	5.5	5.8	8.5	700	n/a	1550	60
8"	18.0	6.9	1.6	1.2	4.9	7.8	11.2	n/a	n/a	1650	60

Clamp End **Butterfly Valves with Infinite Position Handle - [B]**



Size	316L Stainless Steel with silicone seats		316L Stainless Steel with FKM seats		316L Stainless Steel with EPDM seats	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
½"	B5101S050CC-B	\$325.05	B5101V050CC-B	\$351.60	B5101E050CC-B	\$319.10
¾"	B5101S075CC-B	325.05	B5101V075CC-B	351.60	B5101E075CC-B	319.10
1"	B5101S100CC-B	305.85	B5101V100CC-B	333.20	B5101E100CC-B	299.90
1½"	B5101S150CC-B	297.50	B5101V150CC-B	340.10	B5101E150CC-B	289.95
2"	B5101S200CC-B	360.30	B5101V200CC-B	421.15	B5101E200CC-B	349.95
2½"	B5101S250CC-B	450.20	B5101V250CC-B	576.45	B5101E250CC-B	427.25
3"	B5101S300CC-B	601.45	B5101V300CC-B	799.45	B5101E300CC-B	583.45
4"	B5101S400CC-B	926.65	B5101V400CC-B	1377.05	B5101E400CC-B	897.65



Size	Dimensions							Break Torque (in. lbs.) Silicone	Break Torque (in. lbs.) FKM	Break Torque (in. lbs.) EPDM	PSI @ 68°F
	A	B	C	D	E	F	G				
½"	4.3	2.6	1.3	0.9	3.5	.37	3.1	20	70	75	140
¾"	4.3	2.6	1.3	0.9	3.5	.62	3.1	20	70	75	140
1"	4.3	2.6	1.3	0.9	3.5	0.9	3.1	20	70	75	140
1½"	4.3	2.6	1.3	0.9	3.5	1.4	3.1	40	125	130	140
2"	4.3	2.9	1.3	0.9	3.8	1.9	3.9	55	175	165	140
2½"	4.3	3.3	1.3	0.9	3.8	2.4	4.6	70	220	210	110
3"	6.4	3.6	1.3	1.2	4.1	2.9	5.2	165	310	350	110
4"	6.4	4.4	1.3	1.2	4.8	3.8	6.7	350	450	540	85

Butterfly Valves

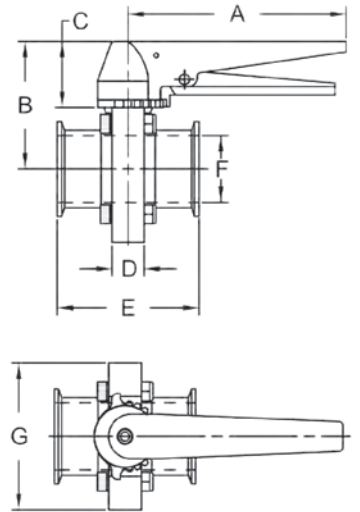
Clamp End **Butterfly Valve with Trigger Handle - [C]**

Feature:

- lockout / tagout handle



Size	316L Stainless Steel with Silicone seats		316L Stainless Steel with FKM seats		316L Stainless Steel with EPDM seats	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2"	B5101S050CC-C	\$325.05	B5101V050CC-C	\$351.60	B5101E050CC-C	\$319.10
3/4"	B5101S075CC-C	325.05	B5101V075CC-C	351.60	B5101E075CC-C	319.10
1"	B5101S100CC-C	305.85	B5101V100CC-C	333.20	B5101E100CC-C	299.90
1 1/2"	B5101S150CC-C	297.50	B5101V150CC-C	340.10	B5101E150CC-C	329.60
2"	B5101S200CC-C	360.30	B5101V200CC-C	421.15	B5101E200CC-C	349.95
2 1/2"	B5101S250CC-C	450.20	B5101V250CC-C	576.45	B5101E250CC-C	427.25
3"	B5101S300CC-C	601.45	B5101V300CC-C	799.45	B5101E300CC-C	583.45
4"	B5101S400CC-C	926.65	B5101V400CC-C	1377.05	B5101E400CC-C	897.65



Size	Dimensions							Break Torque (in. lbs.) silicone	Break Torque (in. lbs.) FKM	Break Torque (in. lbs.) EPDM	PSI @ 68°F
	A	B	C	D	E	F	G				
1/2"	6.6	3.0	1.7	0.9	3.5	.37	3.1	20	70	75	140
3/4"	6.6	3.0	1.7	0.9	3.5	.62	3.1	20	70	75	140
1"	6.6	3.0	1.7	0.9	3.5	0.9	3.1	20	70	75	140
1 1/2"	6.6	3.0	1.7	0.9	3.5	1.4	3.1	40	125	130	140
2"	6.6	3.5	1.7	0.9	3.8	1.9	3.9	55	175	165	140
2 1/2"	6.6	3.7	1.7	0.9	3.8	2.4	4.6	70	220	210	110
3"	6.6	3.9	1.7	1.2	4.1	2.9	5.2	165	310	350	110
4"	6.6	4.8	1.7	1.2	4.8	3.8	6.7	350	450	540	85

Repair Kit for **Butterfly Valves**

Repair kit contains:

- (1) seat
- (2) bushings

for valves located on pages 476-477

Valve Size	Black EPDM		Red Silicone		Brown FKM	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/2" - 1"	B5101-RKE100	\$28.15	B5101-RKS100	\$36.05	B5101-RKV100	\$77.85
1 1/2"	B5101-RKE150	30.40	B5101-RKS150	41.80	B5101-RKV150	107.75
2"	B5101-RKE200	36.85	B5101-RKS200	45.90	B5101-RKV200	141.25
2 1/2"	B5101-RKE250	41.35	B5101-RKS250	51.25	B5101-RKV250	264.60
3"	B5101-RKE300	66.50	B5101-RKS300	81.05	B5101-RKV300	465.65
4"	B5101-RKE400	101.20	B5101-RKS400	125.15	B5101-RKV400	855.45
6"	B5101-RKE600	160.80	B5101-RKS600	308.45	---	---
8"	B5101-RKE800	336.45	---	---	---	---

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Butterfly Valves

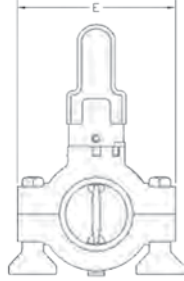
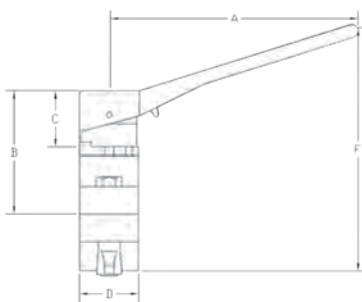
Clamp Butterfly Valves

Features:

- minimal line pressure 0.4 inches Hg vacuum @ 68°F
- 3 position reversible handle
- can be modified for lockout/tagout
- operating temperature **15°F - 200°F**
- PTFE valve disc bushings decrease friction and increase cycle life
- the grooved clamp housing connects directly to the corresponding sanitary clamp size
- valve is only 1-3/8" wide on all sizes
- valve uses only 3/4" of line space
- the grooved clamp housing connects directly to any sanitary clamp style fitting
- Easy assembly requires a hex key for the handle and wing nuts to secure and seal the housing onto lines.
- actuation available: double acting, spring return and electric, call the factory at 800.789.1718 for details



Size	316L Stainless Steel with Silicone seats		316L Stainless Steel with FKM seats		316L Stainless Steel with EPDM seats	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	B5102S100-A	\$197.90	B5102V100-A	\$244.55	B5102E100-A	\$197.90
1½"	B5102S150-A	197.90	B5102V150-A	242.30	B5102E150-A	197.90
2"	B5102S200-A	240.80	B5102V200-A	295.90	B5102E200-A	240.80
2½"	B5102S250-A	310.90	B5102V250-A	379.50	B5102E250-A	310.90
3"	B5102S300-A	367.80	B5102V300-A	444.30	B5102E300-A	367.80
4"	B5102S400-A	537.60	B5102V400-A	644.95	B5102E400-A	537.60



Size	Dimensions						Break Torque (inch lbs.)	PSI @ 68°F
	A	B	C	D	E	F		
1"	5.6	2.8	1.3	1.3	3.6	5.6	125	140
1½"	5.6	2.8	1.3	1.3	3.6	5.6	185	140
2"	5.6	3	1.3	1.3	4.1	6.1	200	120
2½"	5.6	3.3	1.3	1.3	4.6	6.6	260	120
3"	5.6	3.6	1.3	1.3	5.3	7.1	350	100
4"	5.6	4.1	1.3	1.3	6.4	8.2	495	70

Information supplied based on water media @ 68°F

Size	Break Torque (in-lbs.)	Assembly Torque (in-lbs.)	Pressure Rating (PSI)	Flow Coefficient (C _v)	Weight w/ standard handle (lbs.)
1"	125	36	140	23	1.5
1½"	185	36	140	80	2
2"	200	21.6	120	230	2.5
2½"	260	21.6	120	264	3
3"	350	28.8	100	372	4
4"	495	43.2	70	800	6

Repair Kit for Clamp Butterfly Valves

Repair kit contains:

- (1) seat
- (2) bushings

Valve Size	Black EPDM		Red Silicone		Brown FKM	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	B5102-RKE100	\$23.80	B5102-RKS100	\$30.20	B5102-RKV100	\$101.80
1½"	B5102-RKE150	16.25	B5102-RKS150	23.45	B5102-RKV150	91.35
2"	B5102-RKE200	25.35	B5102-RKS200	32.25	B5102-RKV200	116.05
2½"	B5102-RKE250	32.65	B5102-RKS250	38.40	B5102-RKV250	140.75
3"	B5102-RKE300	74.60	B5102-RKS300	86.15	B5102-RKV300	208.05
4"	B5102-RKE400	99.75	B5102-RKS400	108.00	B5102-RKV400	273.95

Butterfly Valves

Clamp End and Weld End **Butterfly Valves**

Features:

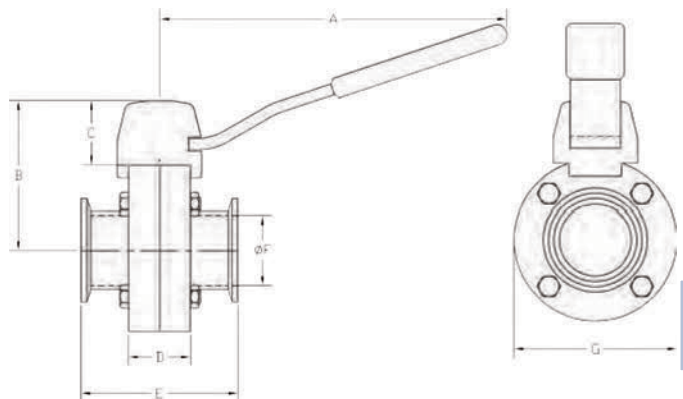
- 100% tested / 100% inspected
- all wetted surfaces are sanitary finished to $< 32R_a$
- field serviceable (no special tools required)
- seat materials available include: silicone, EPDM, FKM
- PTFE bushings reduce friction and increase cycle life
- minimal line pressure: 0.4 inches Hg vacuum @ 68°F
- operating temperature range: **15°F to 200°F**
- custom handle covers available, call Dixon Sanitary for details

Clamp End

Size	CF8M Stainless Steel with Silicone seats		CF8M Stainless Steel with EPDM seats		CF8M Stainless Steel with FKM seats	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	B5104S100CC-D	\$257.50	B5104E100CC-D	\$257.50	B5104V100CC-D	\$328.95
1½"	B5104S150CC-D	281.30	B5104E150CC-D	281.30	B5104V150CC-D	384.95
2"	B5104S200CC-D	303.30	B5104E200CC-D	303.30	B5104V200CC-D	411.90
2½"	B5104S250CC-D	380.40	B5104E250CC-D	380.40	B5104V250CC-D	499.05
3"	B5104S300CC-D	452.75	B5104E300CC-D	452.75	B5104V300CC-D	589.25
4"	B5104S400CC-D	600.20	B5104E400CC-D	600.20	B5104V400CC-D	771.30



Size	Dimensions						
	A	B	C	D	E	F	G
1"	6.6	2.9	1.2	1.2	3.0	0.9	3.1
1½"	6.6	2.9	1.2	1.2	3.0	1.4	3.1
2"	6.6	3.2	1.2	1.2	3.0	1.9	3.7
2½"	6.6	3.4	1.2	1.2	3.0	2.4	4.2
3"	6.6	3.7	1.2	1.2	3.0	2.9	4.8
4"	6.6	4.7	1.7	1.5	3.5	3.8	5.9

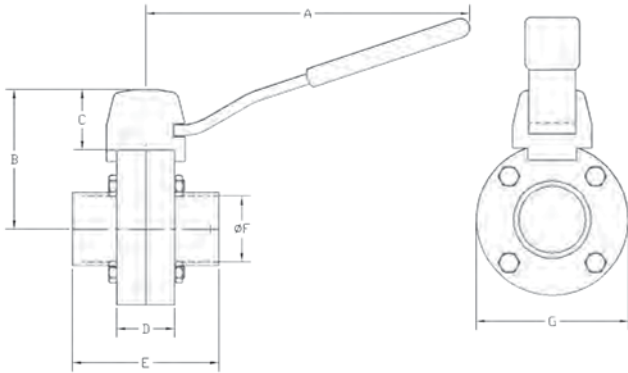

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Butterfly Valves

Weld End



Size	CF8M Stainless Steel with Silicone seats		CF8M Stainless Steel with EPDM seats		CF8M Stainless Steel with FKM seats	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	B5104S100BB-D	\$264.90	B5104E100BB-D	\$264.90	B5104V100BB-D	\$338.40
1½"	B5104S150BB-D	289.35	B5104E150BB-D	289.35	B5104V150BB-D	396.00
2"	B5104S200BB-D	312.00	B5104E200BB-D	312.00	B5104V200BB-D	423.65
2½"	B5104S250BB-D	391.25	B5104E250BB-D	391.25	B5104V250BB-D	513.35
3"	B5104S300BB-D	465.70	B5104E300BB-D	465.70	B5104V300BB-D	606.10
4"	B5104S400BB-D	617.30	B5104E400BB-D	617.30	B5104V400BB-D	793.30



Size	Dimensions						
	A	B	C	D	E	F	G
1"	6.6	2.9	1.2	1.2	3.0	0.9	3.1
1½"	6.6	2.9	1.2	1.2	3.0	1.4	3.1
2"	6.6	3.2	1.2	1.2	3.0	1.9	3.7
2½"	6.6	3.4	1.2	1.2	3.0	2.4	4.2
3"	6.6	3.7	1.2	1.2	3.0	2.9	4.8
4"	6.6	4.7	1.7	1.5	3.5	3.8	5.9

Repair Kit for Clamp End and Weld End **Butterfly Valves**

Repair kit contains:

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- (1) seat
- (1) bushing
- (1) split bushing

for valves located on page 479-480

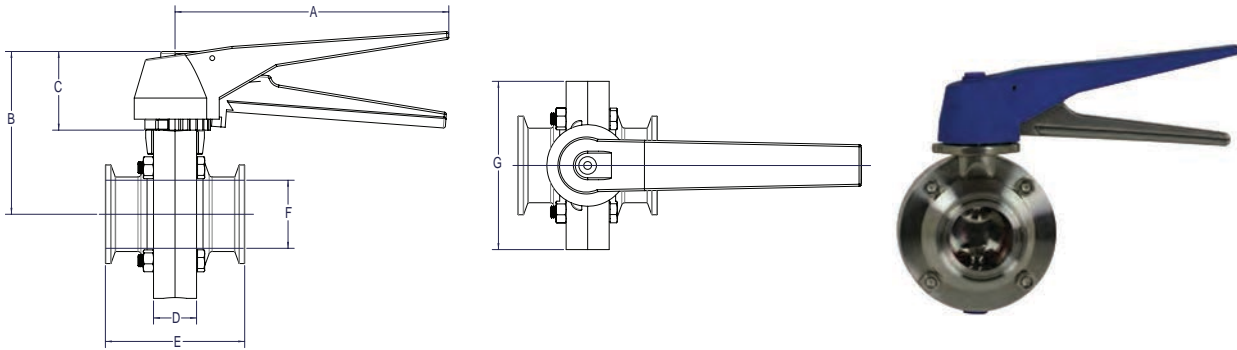
Valve Size	Red Silicone		Black EPDM		Black FKM	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
1"	B5104-RKS100	\$30.40	B5104-RKE100	\$30.40	B5104-RKV100	\$85.70
1½"	B5104-RKS150	32.75	B5104-RKE150	32.75	B5104-RKV150	124.40
2"	B5104-RKS200	36.00	B5104-RKE200	36.00	B5104-RKV200	129.05
2½"	B5104-RKS250	47.65	B5104-RKE250	47.65	B5104-RKV250	142.85
3"	B5104-RKS300	57.60	B5104-RKE300	57.60	B5104-RKV300	164.55
4"	B5104-RKS400	76.25	B5104-RKE400	76.25	B5104-RKV400	207.90

304 Stainless Steel **Butterfly Valves** with Trigger Handle

Features:

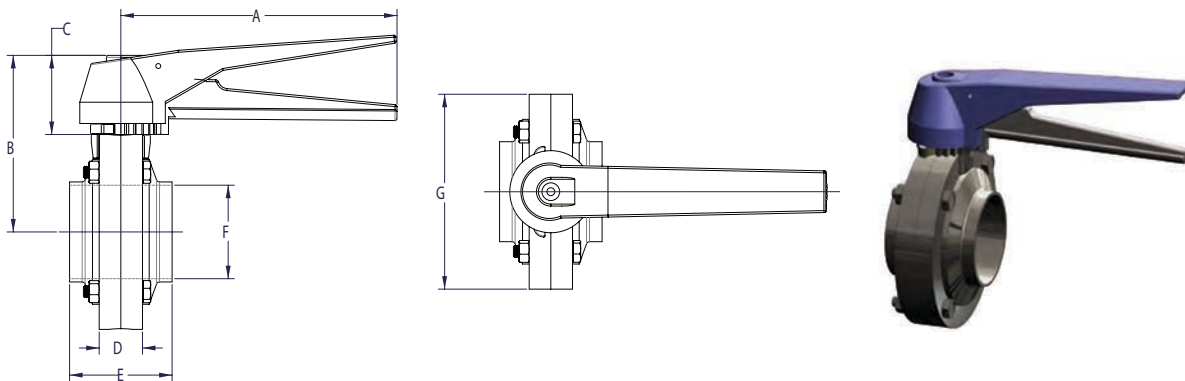
- 100% tested / 100% inspected
- all wetted surface are sanitary finish to <math><32R_a</math>
- field serviceable (no special tools required)
- silicone seats
- blue trigger handle
- repair kits available
- operating temperature range: 15° - 200°F
- maximum operating pressure: 110 PSI

Clamp End



Size	Dimensions							304 Stainless Steel	
	A	B	C	D	E	F	G	Part #	Price/E
1½"	5.70	3.40	1.60	0.87	2.80	1.40	3.40	B5115S150CC-C	\$164.95
2"	5.70	3.60	1.60	0.87	3.00	1.90	3.90	B5115S200CC-C	213.00
3"	5.70	4.20	1.60	0.87	3.30	2.90	5.00	B5115S300CC-C	313.30
4"	6.89	5.51	1.60	0.87	3.62	3.83	6.89	B5115S400CC-C	445.45

Weld End



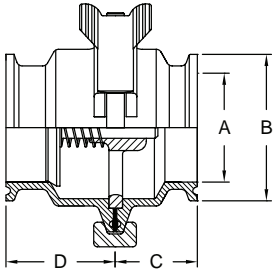
Size	Dimensions							304 Stainless Steel	
	A	B	C	D	E	F	G	Part #	Price/E
1½"	5.70	3.40	1.60	0.87	1.97	1.40	3.40	B5115S150BB-C	\$161.65
2"	5.70	3.60	1.60	0.87	2.05	1.90	3.90	B5115S200BB-C	195.95
3"	5.70	4.20	1.60	0.87	2.12	2.90	5.00	B5115S300BB-C	290.30
4"	6.89	5.51	1.60	0.87	2.52	3.83	6.89	B5115S400BB-C	422.20

Replacement Seats

Size	Part #	Price/E
1½"	B5115-RKS150	\$24.75
2"	B5115-RKS200	29.05
3"	B5115-RKS300	46.05
4"	B5115-RKS400	49.40



Spring Check Valves



Features:

- 3A authorized 58-00
- full size flow plate
- long stem bushing for increased cycle life
- suitable for low and medium viscosity fluids
- field serviceable (no special tools required)
- various end connections available
- sizes from ½" thru 4"
- operating temperature range: **15°F to 200°F**
- maximum operating pressure: **145 PSI**

Size	Dimensions				316L Stainless Steel	
	A	B	C	D	Part #	Price/E
½"	0.37	0.99	1.10	1.60	B45MP-R50	\$416.95
¾"	0.62	0.99	1.10	1.60	B45MP-R75	468.40
1"	0.87	1.99	1.37	1.92	B46MP-R100	430.65
1½"	1.37	1.99	1.44	1.92	B46MP-R150	456.75
2"	1.87	2.52	1.44	1.92	B46MP-R200	577.65
2½"	2.37	3.05	1.44	1.92	B46MP-R250	829.50
3"	2.87	3.58	1.44	1.92	B46MP-R300	1066.20
4"	3.84	4.69	1.88	2.15	B46MP-R400	1366.10

Repair Kit for Spring Check Valves

Repair kit contains:

½" - ¾"

- (1) 316L spring
- (1) FKM stem seat
- (1) Buna body O-ring

Repair kit contains:

1" - 4"

- (1) 316L spring
- (1) FKM stem seat
- (1) Buna clamp gasket

Size	Part #	Price/E
½"	B45MP-RK050	\$19.45
¾"	B45MP-RK075	19.45
1"	B46MP-RK100	30.85
1½"	B46MP-RK150	32.30
2"	B46MP-RK200	38.80
2½"	B46MP-RK250	40.00
3"	B46MP-RK300	50.40
4"	B46MP-RK400	53.30

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Y Ball Check Valves

1447

Application:

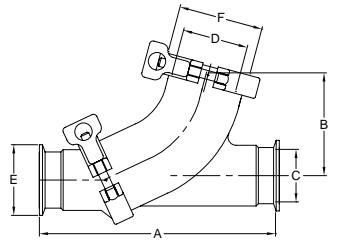
When liquid flows through the valve, the ball is forced into the branch of the valve allowing full fluid flow. When the liquid stops, equalizing the pressure, the ball drops back into the seat, preventing backflow. Should reverse flow occur, the differential pressure will cause the ball to seal firmly against the seat preventing leakage.

Features:

- maximum operating pressure: **150 PSI**
- operating temperature: **15° to 200°F**
- two piece construction for easier alignment during installation
- various end configurations available: clamp, weld, I-line, Q-line, bevel seat and John Perry
- polished ID and OD to 3A standards
- all metal contact surfaces of 316L stainless steel construction
- air blow check valve can be added (see air blow for sizing)
- PTFE ball
- replace seat instead of entire valve
- field serviceable without special tools



Size	Dimensions						316L Stainless Steel	
	A	B	C	D	E	F	Part #	Price/E
1½"	7.50	3.30	1.36	1.87	1.98	2.51	B45BY-R150	\$837.65
2"	8.50	3.90	1.86	2.33	2.51	3.04	B45BY-R200	1045.75
2½"	10.00	4.50	2.37	2.87	3.04	3.57	B45BY-R250	1374.90
3"	11.50	5.30	2.87	3.83	3.57	4.68	B45BY-R300	2243.45



Kits for Ball Check Valves

Repair Kits

contains:

- (1) PTFE ball
- (1) EPDM/CF8M seat
- (1) EPDM cap gasket

Size	Part #	Price/E
1½"	B45BY-RK150	\$127.20
2"	B45BY-RK200	179.65
2½"	B45BY-RK250	375.20
3"	B45BY-RK300	771.05

Seal Kits

contains:

- (1) EPDM/CF8M seat
- (1) EPDM cap gasket

Size	Part #	Price/E
1½"	B45BY-SK150	\$49.65
2"	B45BY-SK200	59.25
2½"	B45BY-SK250	79.05
3"	B45BY-SK300	110.50

All FKM Seal Kits

contains:

- (1) FKM/CF8M seat
- (1) FKM cap gasket

Size	Part #	Price/E
1½"	B45BY-SKV150	\$104.20
2"	B45BY-SKV200	129.80
2½"	B45BY-SKV250	168.00
3"	B45BY-SKV300	243.25

Replacement Balls

(1) PTFE Ball

Size	Part #	Price/E
1½"	B45BY-TB150	\$114.40
2"	B45BY-TB200	170.50
2½"	B45BY-TB250	392.80
3"	B45BY-TB300	844.60



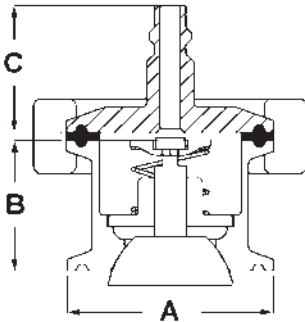
Air Blow Check Valves

Application:

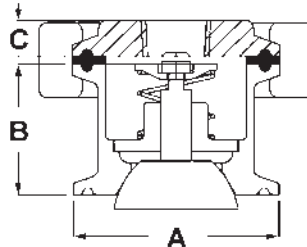
The air blow check valve is designed to pressurize lines with air to clean out product or cleaning solutions. It is fail-safe because the simple air-to-open, spring-to-close mechanism prevents backflow. Can be used with a check valve.

Features:

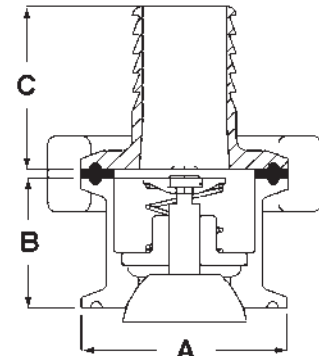
- EPDM seat and gasket
- conforms to 3A practice 604-05 with optional filter disc, sold separately in packs of 50
- maximum operating temperature: **212°F**
- maximum operating pressure: **145 PSI**



B45AB



B45BC



B45CC

Size	Dimensions		Quick Connect Plug 316L Stainless Steel		Dim. C	Female NPT 316L Stainless Steel		Dim. C	Hose Barb 316L Stainless Steel		Dim. C
	A	B	Part #	Price/E		Part #	Price/E		Part #	Price/E	
1"-1½"	1.984	1.300	B45AB-R100150	\$363.75	1.26	B45BC-R100150	\$363.75	0.60	B45CC-R100150	\$363.75	1.70
2"	2.516	1.300	B45AB-R200	370.65	1.26	B45BC-R200	370.65	0.60	B45CC-R200	370.65	1.70
2½"	3.047	1.300	B45AB-R250	477.00	1.26	B45BC-R250	477.00	0.60	B45CC-R250	477.00	1.70
3"	3.579	1.300	B45AB-R300	553.55	1.26	B45BC-R300	553.55	0.60	B45CC-R300	553.55	1.70
4"	4.682	1.300	B45AB-R400	629.20	1.26	B45BC-R400	629.20	0.60	B45CC-R400	629.20	1.70

Repair Kit for Air Blow Check Valves

Repair kit contains:

- (1) EPDM / 316L stainless perforated disc
- (1) 304 stainless spring retainer
- (1) 304 stainless spring
- (1) nylon stem guide
- (1) EPDM / 316L plug and stem

Part #	Price/E
B45AB-RK	\$114.35

When using air blow check valves with ball check valves, refer to the sizing chart below.

Sizing Chart

Ball Check Valve size	Air Blow Check Valve size
1½"	2"
2"	2½"
2½"	3"
3"	4"

Dixon Sanitary's commitment to excellence and continuous research and development for improving product quality may warrant periodic changes in design and specification. We reserve the right to modify product design without prior notification and without incurring any liability to provide these modifications to products previously purchased.

High Purity BioPharm Fittings



Specifications

- All fittings are manufactured to meet the latest edition of the ASME BPE International Standard, Bioprocessing Equipment.
- 316L stainless steel material and dimensions meet all orbital welding specifications with controlled sulphur.

Markets

- pharmaceutical
- bioprocessing
- semiconductor
- cosmetics
- food processing
- beverage

Packaging

Product markings per ASME BPE 2012 DT-10.1

- Job number
- 316L
- Bradford™ part number
- Heat number(s)
- Surface finish code
- ASME BPE

Per the specification, the size of the fitting may limit the space available for markings. When this occurs, the markings starting at the bottom of the list are not applied. The Bradford™ part number will describe the part configuration and size.

MTR (material test report) certifications are included inside the resealable bag with each fitting. The MTRs are traceable through the Job Number found on each fitting. All fittings are capped to prevent damage and contamination.

For easy identification each finish will have a different color cap.

- PL finish - SF1...blue caps
- PM finish - SF4...white caps

Material test reports are also available from the Dixon Sanitary website (bradfordfittings.com); just enter the job number located on each fitting.

Bradford™ High Purity BioPharm Fittings

316L Stainless Steel Material Test Report

Job Number AA729

Bradford™ Part Number	Description	Size	Surface finish
T2S88-150PL	Automatic Weld 88° Elbow per Table DT-4.1 1-1	1½"	SF1 (20Ra)

Chemical analysis (%) per ASME BPE 2012 Table MM-2.1 and Section MM-5.1.1

Item	Heat number	C	Mn	P	S	Si	Cr	Ni	Mo	min.	max.
		0.030	2.00	0.045	0.017	1.00	16.00	10.00	2.00		
1	96GK43	0.017	1.56	0.028	0.011	0.33	16.80	10.05	2.02		

Mechanical Test Results

Item	Yield Strength (0.2%), MPa	Tensile Strength, MPa	Elongation, %	Hardness, HRB	Specification
	170 minimum	485 minimum	35 minimum	90 maximum	
1	327	634	47.0	82	ASTM A269-10

Product of Thailand

We certify that the above is a true copy of the test results issued by the material supplier. This MTR conforms to EN10204-3.1. All fittings supplied by Dixon Sanitary conform to the requirements of the European Union Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS).

Bruce Anderson
Technical Director

Dixon Sanitary
N25 W23040 Paul Rd.
Pewaukee, WI 53072
USA
800-789-1718
bradfordfittings.com





High Purity BioPharm Fittings

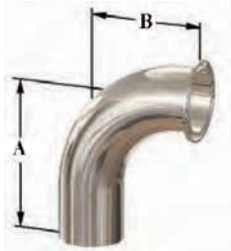
90° Weld Elbows - T2S



BPE Table DT-4.1.1-1

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
1/2"	3.00	T2S-050PL	\$56.90	T2S-050PM	\$90.85
3/4"	3.00	T2S-075PL	56.90	T2S-075PM	90.85
1"	3.00	T2S-100PL	54.55	T2S-100PM	88.80
1 1/2"	3.75	T2S-150PL	51.05	T2S-150PM	87.05
2"	4.75	T2S-200PL	68.95	T2S-200PM	115.95
2 1/2"	5.50	T2S-250PL	124.60	T2S-250PM	164.15
3"	6.25	T2S-300PL	173.30	T2S-300PM	218.60
4"	8.00	T2S-400PL	298.75	T2S-400PM	361.45

90° Clamp x Weld Elbows - T2CM



BPE Table DT-4.1.1-2

Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
1/2"	3.00	1.625	T2CM-050PL	\$115.15	T2CM-050PM	\$131.60
3/4"	3.00	1.625	T2CM-075PL	115.15	T2CM-075PM	131.60
1"	3.00	2.000	T2CM-100PL	105.25	T2CM-100PM	123.45
1 1/2"	3.75	2.750	T2CM-150PL	105.25	T2CM-150PM	125.00
2"	4.75	3.500	T2CM-200PL	133.20	T2CM-200PM	157.95
2 1/2"	5.50	4.250	T2CM-250PL	204.40	T2CM-250PM	237.90
3"	6.25	5.000	T2CM-300PL	266.65	T2CM-300PM	300.20
4"	8.00	6.625	T2CM-400PL	415.15	T2CM-400PM	456.65

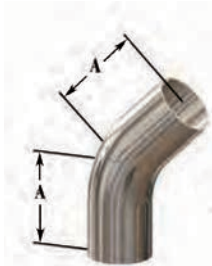
90° Clamp x Clamp Elbows - T2CMP



BPE Table DT-4.11.1-3

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
1/2"	1.625	T2CMP-050PL	\$110.20	T2CMP-050PM	\$128.25
3/4"	1.625	T2CMP-075PL	110.20	T2CMP-075PM	128.25
1"	2.000	T2CMP-100PL	97.10	T2CMP-100PM	113.60
1 1/2"	2.750	T2CMP-150PL	97.10	T2CMP-150PM	128.45
2"	3.500	T2CMP-200PL	130.00	T2CMP-200PM	168.25
2 1/2"	4.250	T2CMP-250PL	214.00	T2CMP-250PM	242.75
3"	5.000	T2CMP-300PL	242.75	T2CMP-300PM	276.25
4"	6.625	T2CMP-400PL	498.15	T2CMP-400PM	542.85

45° Weld Elbows - T2KS



BPE Table DT-4.1.1-4

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
1/2"	2.250	T2KS-050PL	\$60.40	T2KS-050PM	\$93.85
3/4"	2.250	T2KS-075PL	60.40	T2KS-075PM	93.85
1"	2.250	T2KS-100PL	63.90	T2KS-100PM	77.70
1 1/2"	2.500	T2KS-150PL	69.35	T2KS-150PM	87.70
2"	3.000	T2KS-200PL	82.10	T2KS-200PM	106.00
2 1/2"	3.375	T2KS-250PL	93.85	T2KS-250PM	130.30
3"	3.625	T2KS-300PL	122.00	T2KS-300PM	152.35
4"	4.500	T2KS-400PL	212.00	T2KS-400PM	246.50

PL Finish – SF1

OD = 32R_a Mechanically Polished

ID = 20R_a Mechanically Polished

PM Finish – SF4

OD = 32R_a Mechanically Polished

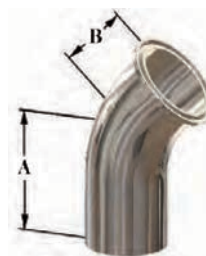
ID = 15R_a Mechanically Polished and Electropolished

High Purity BioPharm Fittings

45° Clamp x Weld Elbows - T2KM

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63-03
621

Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
1/2"	2.250	1.000	T2KM-050PL	\$108.60	T2KM-050PM	\$126.65
3/4"	2.250	1.000	T2KM-075PL	108.60	T2KM-075PM	126.65
1"	2.250	1.125	T2KM-100PL	105.25	T2KM-100PM	123.45
1 1/2"	2.500	1.438	T2KM-150PL	105.25	T2KM-150PM	125.00
2"	3.000	1.750	T2KM-200PL	120.10	T2KM-200PM	157.40
2 1/2"	3.375	2.063	T2KM-250PL	152.95	T2KM-250PM	202.05
3"	3.625	2.380	T2KM-300PL	204.40	T2KM-300PM	261.70
4"	4.500	3.125	T2KM-400PL	303.90	T2KM-400PM	349.55



BPE Table DT-4.1.1-5

45° Clamp x Clamp Elbows - T2KMP

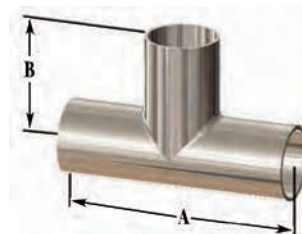
Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
1/2"	1.000	T2KMP-050PL	\$143.10	T2KMP-050PM	\$149.60
3/4"	1.000	T2KMP-075PL	131.60	T2KMP-075PM	149.60
1"	1.125	T2KMP-100PL	128.25	T2KMP-100PM	134.95
1 1/2"	1.438	T2KMP-150PL	116.75	T2KMP-150PM	136.50
2"	1.750	T2KMP-200PL	136.50	T2KMP-200PM	159.50
2 1/2"	2.063	T2KMP-250PL	210.75	T2KMP-250PM	242.75
3"	2.380	T2KMP-300PL	266.65	T2KMP-300PM	300.20
4"	3.125	T2KMP-400PL	598.70	T2KMP-400PM	646.60



BPE Table DT-4.1.1-6

Weld x Weld x Weld Tees - T7WWW

Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
1/2"	3.750	1.875	T7WWW-050PL	\$113.30	T7WWW-050PM	\$127.35
3/4"	4.000	2.000	T7WWW-075PL	113.30	T7WWW-075PM	127.35
1"	4.250	2.125	T7WWW-100PL	102.35	T7WWW-100PM	116.35
1 1/2"	4.750	2.375	T7WWW-150PL	102.35	T7WWW-150PM	129.90
2"	5.750	2.875	T7WWW-200PL	118.05	T7WWW-200PM	158.05
2 1/2"	6.250	3.125	T7WWW-250PL	166.35	T7WWW-250PM	215.85
3"	6.750	3.375	T7WWW-300PL	212.40	T7WWW-300PM	261.70
4"	8.250	4.125	T7WWW-400PL	308.20	T7WWW-400PM	375.90

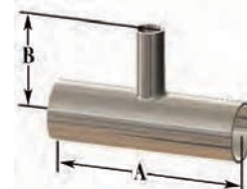


BPE Table DT-4.1.2-1

N

Weld x Weld x Weld Reducing Tees - T7RWWW

Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
3/4" x 1/2"	4.000	2.000	T7RWWW-075050PL	\$116.60	T7RWWW-075050PM	\$172.45
1" x 1/2"	4.250	2.125	T7RWWW-100050PL	120.30	T7RWWW-100050PM	178.90
1" x 3/4"	4.250	2.125	T7RWWW-100075PL	120.30	T7RWWW-100075PM	178.90
1 1/2" x 1/2"	4.750	2.375	T7RWWW-150050PL	167.65	T7RWWW-150050PM	190.00
1 1/2" x 3/4"	4.750	2.375	T7RWWW-150075PL	120.30	T7RWWW-150075PM	180.45
1 1/2" x 1"	4.750	2.375	T7RWWW-150100PL	167.65	T7RWWW-150100PM	190.00
2" x 1/2"	5.750	2.625	T7RWWW-200050PL	217.15	T7RWWW-200050PM	239.50
2" x 3/4"	5.750	2.625	T7RWWW-200075PL	217.15	T7RWWW-200075PM	239.50
2" x 1"	5.750	2.625	T7RWWW-200100PL	217.15	T7RWWW-200100PM	239.50
2" x 1 1/2"	5.750	2.625	T7RWWW-200150PL	217.15	T7RWWW-200150PM	239.50



BPE Table DT-4.1.2-6

PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished



High Purity BioPharm Fittings

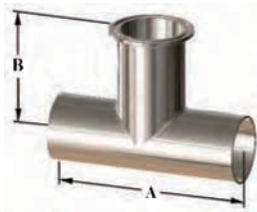
Weld x Weld x Clamp Short Outlet Tees - T7WWMS



BPE Table DT-4.1.2-2

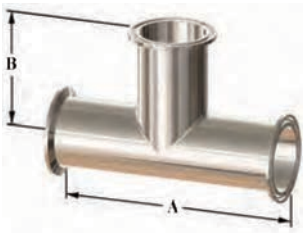
Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
1/2"	3.750	1.000	T7WWMS-050PL	\$150.20	T7WWMS-050PM	\$171.75
3/4"	4.000	1.125	T7WWMS-075PL	138.15	T7WWMS-075PM	157.95
1"	4.250	1.125	T7WWMS-100PL	123.45	T7WWMS-100PM	139.90
1 1/2"	4.750	1.375	T7WWMS-150PL	123.45	T7WWMS-150PM	144.70
2"	5.750	1.625	T7WWMS-200PL	148.05	T7WWMS-200PM	189.70
2 1/2"	6.250	1.825	T7WWMS-250PL	193.25	T7WWMS-250PM	251.20
3"	6.750	2.125	T7WWMS-300PL	251.65	T7WWMS-300PM	298.60
4"	8.250	2.750	T7WWMS-400PL	555.60	T7WWMS-400PM	600.30

Weld x Weld x Clamp Tees - T7WWM



Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
1/2"	3.750	2.250	T7WWM-050PL	\$138.15	T7WWM-050PM	\$157.95
3/4"	4.000	2.375	T7WWM-075PL	138.15	T7WWM-075PM	157.95
1"	4.250	2.625	T7WWM-100PL	123.45	T7WWM-100PM	139.90
1 1/2"	4.750	2.875	T7WWM-150PL	123.45	T7WWM-150PM	159.20
2"	5.750	3.375	T7WWM-200PL	148.05	T7WWM-200PM	189.70
2 1/2"	6.250	3.625	T7WWM-250PL	193.25	T7WWM-250PM	251.20
3"	6.750	3.875	T7WWM-300PL	263.45	T7WWM-300PM	328.50
4"	8.250	4.750	T7WWM-400PL	555.60	T7WWM-400PM	600.30

Clamp x Clamp x Clamp Tees - T7MP



BPE Table DT-4.1.2-4

Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
1/2"	4.500	2.250	T7MP-050PL	\$169.50	T7MP-050PM	\$187.75
3/4"	4.750	2.375	T7MP-075PL	169.50	T7MP-075PM	187.75
1"	5.250	2.625	T7MP-100PL	152.50	T7MP-100PM	169.50
1 1/2"	5.750	2.875	T7MP-150PL	152.50	T7MP-150PM	191.50
2"	6.750	3.375	T7MP-200PL	172.50	T7MP-200PM	228.95
2 1/2"	7.250	3.625	T7MP-250PL	227.45	T7MP-250PM	290.55
3"	7.750	3.875	T7MP-300PL	489.00	T7MP-300PM	526.60
4"	9.500	4.750	T7MP-400PL	938.70	T7MP-400PM	995.15

N

PL Finish – SF1
 OD = 32R_a Mechanically Polished
 ID = 20R_a Mechanically Polished

PM Finish – SF4
 OD = 32R_a Mechanically Polished
 ID = 15R_a Mechanically Polished and Electropolished

High Purity BioPharm Fittings Weld x Weld Concentric Reducers - T31W

3 63-03
621

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
¾" x ½"	4.00	T31W-075050PL	\$109.05	T31W-075050PM	\$126.15
1" x ½"	4.50	T31W-100050PL	154.75	T31W-100050PM	174.05
1" x ¾"	4.00	T31W-100075PL	125.35	T31W-100075PM	145.00
1½" x ½"	5.50	T31W-150050PL	280.60	T31W-150050PM	301.40
1½" x ¾"	5.00	T31W-150075PL	301.75	T31W-150075PM	324.10
1½" x 1"	5.00	T31W-150100PL	134.90	T31W-150100PM	199.70
2" x ½"	7.75	T31W-200050PL	358.75	T31W-200050PM	468.05
2" x ¾"	7.25	T31W-200075PL	333.65	T31W-200075PM	440.65
2" x 1"	7.25	T31W-200100PL	158.35	T31W-200100PM	181.25
2" x 1½"	5.25	T31W-200150PL	127.70	T31W-200150PM	176.25



BPE Table DT-4.1.3-1(a)

Clamp x Clamp Concentric Reducers - T3114MP

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
¾" x ½"	2.000	T3114MP075050PL	\$229.05	T3114MP075050PM	\$250.95
1" x ½"	2.500	T3114MP100050PL	322.95	T3114MP100050PM	349.00
1" x ¾"	2.000	T3114MP100075PL	247.50	T3114MP100075PM	268.25
1½" x ½"	3.500	T3114MP150050PL	385.65	T3114MP150050PM	416.70
1½" x ¾"	3.000	T3114MP150075PL	389.80	T3114MP150075PM	484.40
1½" x 1"	3.000	T3114MP150100PL	277.80	T3114MP150100PM	303.20
2" x ½"	5.500	T3114MP200050PL	528.60	T3114MP200050PM	709.50
2" x ¾"	5.000	T3114MP200075PL	525.00	T3114MP200075PM	564.10
2" x 1"	5.000	T3114MP200100PL	342.00	T3114MP200100PM	364.45
2" x 1½"	3.000	T3114MP200150PL	235.45	T3114MP200150PM	259.90



BPE Table DT-4.1.3-3(a)

Weld x Weld Eccentric Reducers - T32W

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
¾" x ½"	4.00	T32W-075050PL	\$199.60	T32W-075050PM	\$218.75
1" x ½"	4.50	T32W-100050PL	189.70	T32W-100050PM	207.65
1" x ¾"	4.00	T32W-100075PL	202.80	T32W-100075PM	218.75
1½" x ½"	5.50	T32W-150050PL	447.95	T32W-150050PM	475.70
1½" x ¾"	5.00	T32W-150075PL	411.90	T32W-150075PM	437.45
1½" x 1"	5.00	T32W-150100PL	185.25	T32W-150100PM	206.95
2" x ½"	7.75	T32W-200050PL	434.75	T32W-200050PM	541.90
2" x ¾"	7.25	T32W-200075PL	432.15	T32W-200075PM	539.30
2" x 1"	7.25	T32W-200100PL	197.25	T32W-200100PM	250.00
2" x 1½"	5.25	T32W-200150PL	175.65	T32W-200150PM	229.90



BPE Table DT-4.1.3-1(a)

N

Clamp x Clamp Eccentric Reducers - T3214MP

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
¾" x ½"	2.000	T3214MP075050PL	\$288.30	T3214MP075050PM	\$309.15
1" x ½"	2.500	T3214MP100050PL	335.15	T3214MP100050PM	359.40
1" x ¾"	2.000	T3214MP100075PL	337.55	T3214MP100075PM	359.95
1½" x ½"	3.500	T3214MP150050PL	436.15	T3214MP150050PM	462.50
1½" x ¾"	3.000	T3214MP150075PL	469.00	T3214MP150075PM	497.35
1½" x 1"	3.000	T3214MP150100PL	340.55	T3214MP150100PM	371.90
2" x ½"	5.500	T3214MP200050PL	695.50	T3214MP200050PM	847.95
2" x ¾"	5.000	T3214MP200075PL	679.40	T3214MP200075PM	831.35
2" x 1"	5.000	T3214MP200100PL	437.60	T3214MP200100PM	466.00
2" x 1½"	3.000	T3214MP200150PL	298.75	T3214MP200150PM	346.45



BPE Table DT-4.1.3-3(a)

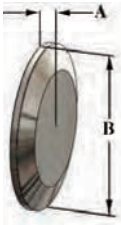
PL Finish – SF1
OD = 32R_a Mechanically Polished
ID = 20R_a Mechanically Polished

PM Finish – SF4
OD = 32R_a Mechanically Polished
ID = 15R_a Mechanically Polished and Electropolished



High Purity BioPharm Fittings

Solid End Caps - T16AMP



BPE Table DT-4.1.5-2

Size	Dimensions		PL finish - SF1		PM finish - SF4	
	A	B	Part #	Price/E	Part #	Price/E
½" - ¾"	0.19	1.00	T16AMP-050075PL	\$15.40	T16AMP-050075PM	\$28.40
1" - 1½"	0.25	1.99	T16AMP-100150PL	13.95	T16AMP-100150PM	26.80
2"	0.25	2.52	T16AMP-200PL	18.55	T16AMP-200PM	41.20
2½"	0.25	3.05	T16AMP-250PL	26.80	T16AMP-250PM	49.25
3"	0.25	3.58	T16AMP-300PL	41.70	T16AMP-300PM	65.60
4"	0.31	4.69	T16AMP-400PL	108.85	T16AMP-400PM	135.60

Auto Weld Ferrules - TL14AM7



BPE Table DT-4.1.4-1

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
½"	1.75	TL14AM7-050PL	\$28.10	TL14AM7-050PM	\$46.35
¾"	1.75	TL14AM7-075PL	28.10	TL14AM7-075PM	46.35
1"	1.75	TL14AM7-100PL	26.55	TL14AM7-100PM	51.30
1½"	1.75	TL14AM7-150PL	28.05	TL14AM7-150PM	63.90
2"	2.25	TL14AM7-200PL	38.70	TL14AM7-200PM	82.40
2½"	2.25	TL14AM7-250PL	59.50	TL14AM7-250PM	115.20
3"	2.25	TL14AM7-300PL	81.10	TL14AM7-300PM	140.35
4"	2.25	TL14AM7-400PL	143.85	TL14AM7-400PM	198.80

Weld Caps - T16W



BPE Table DT-4.1.5-1

Size	Dimension A	PL finish - SF1		PM finish - SF4	
		Part #	Price/E	Part #	Price/E
½"	1.50	T16W-050PL	\$60.90	T16W-050PM	\$75.70
¾"	1.50	T16W-075PL	88.20	T16W-075PM	103.65
1"	1.50	T16W-100PL	55.95	T16W-100PM	70.75
1½"	1.50	T16W-150PL	64.55	T16W-150PM	102.05
2"	1.50	T16W-200PL	93.75	T16W-200PM	112.10

N

PL Finish – SF1
 OD = 32R_a Mechanically Polished
 ID = 20R_a Mechanically Polished

PM Finish – SF4
 OD = 32R_a Mechanically Polished
 ID = 15R_a Mechanically Polished and Electropolished

Angle Hose Valves



Features:

- cast brass with an aluminum handwheel
- for pressures up to **300 PSI**
- Underwriters Listed and Factory Mutual approved
- New York City Board of Standards and Appeals approved

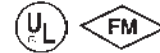
Cast Brass Domestic Angle Hose Valves

Description	Part #	Price/E	Pkg Qty
1½" female NPT x 1½" male NST (NH)	AV150	\$305.70	10
2½" female NPT x 2½" male NST (NH)	AV250	473.65	6
1½" female NPT x 1½" female NPT	AVF150	305.70	10
2½" female NPT x 2½" female NPT	AVF250	473.65	6
1½" aluminum replacement handwheel	AV150-W	22.00	---
2½" aluminum replacement handwheel	AV250-W	26.00	---



female x male

Cast Brass Global Angle Hose Valves



Description	Part #	Price/E	Pkg Qty
1½" female NPT x 1½" male NST (NH)	AV150-I	\$110.00	10
2½" female NPT x 2½" male NST (NH)	AV250-I	222.00	6
1½" female NPT x 1½" female NPT	AVF150-I	110.00	10
2½" female NPT x 2½" female NPT	AVF250-I	221.30	6
2½" inlet grooved x 2½" male NH (NST)	AVG250F-I	225.00	---
2½" inlet grooved x 2½" female NPT	AVGF250-I	225.00	---
1½" aluminum replacement handwheel	AV150-W	22.00	---
2½" aluminum replacement handwheel	AV250-W	26.00	---



female x female

Forged Brass Global Angle Hose Valves



Features:

- Underwriters Listed and Factory Mutual approved
- for use with a fire hose rack assembly, or as a fire department outlet connection
- for pressures up to **300 PSI**
- forged brass with steel red painted handwheel

Description	Part #	Price/E	Pkg Qty
1½" female NPT x 1½" male NST (NH)	AV151	\$155.50	1
2½" female NPT x 2½" male NST (NH)	AV251	288.30	1
1½" female NPT x 1½" female NPT	AVF151	155.50	1
2½" female NPT x 2½" female NPT	AVF251	288.30	1
red handwheel for AV151	AV151-WR	24.00	---
red handwheel for AV251	AV251-WR	33.70	---



female x male



female x female

Adjustable Pressure Restricting Device

Features:

- intended for installation on Class I or Class III standpipe system hose outlets
- Use of this device restricts pressure in the piping system to such a degree that hose lines can be handled by persons untrained in the handling of heavy fire streams.
- listed by the New York City Board of Standards and Appeals
- Note: *restricts under flow conditions only*
- Other threads and finishes, including chrome plated, are also available. Consult factory for pricing and availability.

Female NST (NH) Inlet	Male NST (NH) Outlet	U/L	Working Pressure at 70°F	Cast Brass Part #	Price/E
1½"	1½"	No	175 PSI	APRD150F¹	\$350.00
2½"	2½"	Yes	175 PSI	APRD250F	366.00

¹ 1½" is not Underwriters Listed





Backflow Preventer

Application:

- Designed to give maximum protection against backflow caused by back-pressure or back-siphonage from a cross-connection wherein a contaminant hazard exists.

Features:

- consists of two spring-loaded poppet type check valves and a mechanically independent, hydraulically dependent pressure differential relief valve
- three top mounted test cocks ensure easy access during repair and maintenance
- supply pressures up to **175 PSIG** and water temperatures from **33°F** to **180°F**
- meets USC's FCCC and HR Manual, Sec. 10, ASSE 1015, AWWA C-510 and CSA B64.4 specifications
- Underwriters Listed and Factory Mutual approved
- Create a Fire Hydrant Backflow Preventer by using the **RSMSA25F20T** (page 507) and the **DMH2025F** (page 501).



NPT	Working Pressure	Brass Part #	Wt. (lbs)	Price/E
2"	175 PSI	BFP200	41	\$1592.00

Straight Globe Valves

Features:

- aluminum handwheel
- ideal for wet and combination systems
- used with a fire hose rack assembly, or as a fire department outlet connection
- for use up to **300 PSI** at ambient temperature (70°F)



male outlet



female outlet

Female NPT Inlet	Male NST (NH) Outlet	Cast Brass Part #	Price/E
1½"	1½"	SGV150F	\$431.00
2½"	2½"	SGV250F	610.55

Female NPT Inlet	Female NPT Outlet	Cast Brass Part #	Price/E
1½"	1½"	SGVF150	\$431.00
2½"	2½"	SGVF250	610.55

Wharf Hydrants

Features:

- used to provide a fire department outlet connection
- pentagon nut at top of spindle
- discourages unauthorized use
- hydrostatically tested for **300 PSI** at ambient temperature (70°F)



Female NPT Inlet	Male NST (NH) Outlet	Height Open	Height Closed	Cast Brass Part #	Price/E
3"	2½"	16.4"	14.25"	WHYD3025F	\$905.00
4"	2½"	16.4"	14.25"	WHYD4025F	1023.00
4"	4½"	18.2"	15.6"	WHYD4045F	1180.00

replacement part

Description	Part #	Price/E
handwheel	46-030-00025	\$29.30
pentagon hex nut	44-251-00006	15.15

Non-Rising Stem Wedge Disc Gate Valves

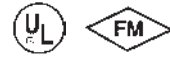
Features:

- solid wedge disc with tapered seats
- red iron handwheel, with brass cap and chain
- 2½" is Underwriters Listed and Factory Mutual approved
- Not recommended for wet standpipe systems. Use **AV250** on page 491 for wet standpipe systems.

Female NPT Inlet	Male NST (NH) Outlet	U/L	Working Pressure at 70°F	Cast Brass Part #	Price/E	Pkg Qty
1½"	1½"	No	300 PSI	WDGV150F	\$160.00	2
2½"	2½"	Yes	300 PSI	WDGV250F	888.00	2



Non-rising Stem Wedge Disc Gate Valves



Features:

- satin finish
- solid wedge disc with tapered seats
- straightway pattern
- red handwheel, with brass cap and chain
- Underwriters Listed and Factory Mutual approved
- for use up to **300 PSI** working pressure at ambient temperature (70°F)
- for use on standpipes, fire pumps and hydrants

Female NPT Inlet	Male NST (NH) Outlet	Forged Brass Part #	Price/E
2½"	2½"	WDGV251F	\$481.30
3"	2½"	WDGV3025F	581.65



Rising Stem Wedge Disc Gate Valves

Features:

- solid wedge disc with tapered seats
- red iron handwheel, with cap and chain
- 3" is Underwriters Listed
- Not recommended for wet standpipe systems. Use **AV250** on page 491 for wet standpipe systems.

Female NPT Inlet	Male NST (NH) Outlet	U/L	Working Pressure at 70°F	Cast Brass Part #	Price/E	Pkg Qty
2½"	2½"	No	200 PSI	RWDGV250F	\$857.90	2
3"	2½"	Yes	300 PSI	RWDGV3025F	1000.00	2



Hydrant Diffuser



Features:

- powder coated red
- carbon steel bodies, brass swivels with full 360° rotation
- flow can be directed to your desired position while flushing the hydrant
- specially designed outlet reduces high velocity discharge to a slower diffused pattern, protecting landscape and traffic

Female NST (NH)	Carbon Steel Part #	Wt Lbs.	Price/E
2½"	HD250F	14	\$1492.00
4"	HD400F	26	3906.00
4½"	HD450F	26	4000.00



Single Hydrant Gate Valves



Features:

- pin lug swivel, non-rising stem
- aluminum speed handle, **rubber seal**
- The hydrant gate valve is used to throttle the flow from a fire hydrant without damaging the hydrant itself.
- for use up to **175 PSI (water only)** at ambient temperature (70°F)

Female x Male	Brass Part #	Price/E	Pkg Qty
2½" female NST (NH) x 2½" male NPSH	HGV250	\$419.35	4
2½" female NST (NH) x 2½" male NST (NH)	HGV250F	409.10	4
replacement handle	HGV250-H	18.00	1



Single Hydrant Gate Valve with Handwheel



Application:

- for use on standpipes and fire pumps where UL listing is required

Features:

- O-ring seal
- used to throttle the flow from a fire hydrant without damaging the hydrant itself
- Underwriters Listed
- for use up to **175 PSI (water only)** at ambient temperature (70°F)

Female x Male	Cast Red Brass		Wt. (lbs)
	Part #	Price/E	
2½" female NST (NH) inlet x 2½" male NST (NH) outlet	UHGV250F	\$450.00	9
replacement handwheel	UHGV250-W	23.00	.5



Single Hydrant Gate Valve



Features:

- pin lug swivel, non-rising stem
- red handwheel, **metal-metal seal**
- used to throttle the flow from a fire hydrant without damaging the hydrant itself
- Underwriters Listed
- for use up to **300 PSI (water only)** at ambient temperature (70°F)

Female x Male	Forged Brass Part #	Price/E
2½" female NST (NH) x 2½" male NST (NH)	HGVW250F	\$613.00
replacement wheel	HGVW250-W	40.95

Single Hydrant Gate Valve

O



Application:

- protects fire hydrants from damage that can occur if they are used for throttling.

Features:

- full 2½" waterway
- body of valve - high strength aluminum alloy, 356-T6
- hardcoat anodized throughout - minimum thickness 0.001 inch
- **250 PSI** test pressure, **100 PSI** working pressure

Female x Male	Aluminum Part #	Price/E
2½" female NST (NH) x 2½" male NST (NH)	AHGV250F	\$625.00
replacement handlewheel	AHGV250F-H	65.00

Global Single Hydrant Gate Valve



Features:

- pin lug swivel, non-rising stem
- aluminum speed handle
- designed to protect fire hydrants from damage that can occur if used for throttling
- for use up to **175 PSI (water only)** at ambient temperature (70°F)

Female x Male	Aluminum Part #	Price/E
2½" female NST (NH) x 2½" male NST (NH)	AHGV250F-I	\$394.30

¼ Turn Plug Type Wye Valves

Features:

- pin lug swivel
- for use up to **175 PSI** (*water only*) at ambient temperature (70°F)
- *not recommended for charged preconnected hose lines*



Female x Male (2)	Cast Brass Part #	Price/E
2½" female NST (NH) x 1½" male NST (NH)	S6175	\$748.75
2½" female NST (NH) x 1½" male NPSH	S6175S	813.00
replacement handle	S6175-H	62.70

¼ Turn Ball Type Wye Valves

Features:

- rocker lug swivel
- handles are not field replaceable
- operates easily under high pressure
- NSN# 4210-00-255-0234
- for use up to **175 PSI** (*water only*) at ambient temperature (70°F)



Female x Male (2)	Cast Brass Part #	Price/E
2½" female NST (NH) x 1½" male NPSH	S7337S	\$1084.00

Full Flow ¼ Turn Ball Type Hose Valves

Features:

- pin lug swivel
- recommended for charged preconnected hose lines
- for use up to **175 PSI** (*water only*) at ambient temperature (70°F)



Female x Male (2)	Cast Brass Part #	Price/E
1½" NST (NH) x 1½" NST (NH)	S7100-15	\$298.00
2½" NST (NH) x 1½" NST (NH)	S7100	294.00

Leader Line Wye ¼ Turn Ball Type Hose Valve

Features:

- body painted red with chrome trim
- rocker lug swivel
- for use up to **400 PSI** (*water only*) at ambient temperature (70°F)



Female x Male	Part #	Price/E
2½" NST (NH) x 1½" NST (NH)	LLBV2515F	\$742.45

Straight Ball Drip Valves



Application:

- Designed to drain the low point of a system, it should be placed between the fire department connection and the swing check valve.

Features:

- will seal automatically under pressure
- install in the vertical position only
- working pressure: **175 PSI** at ambient temperature (70°F)

Male NPT	Male NPT	Brass Part #	Wt. Lbs.	Price/E
1/2"	1/2"	SBDV50	.41	\$22.00
3/4"	3/4"	SBDV75	.47	28.15

Angled Ball Drip Valves



Features:

- will seal automatically under pressure
- installed horizontally, the ball seats at approximately 8-10 PSI
- working pressure: **175 PSI** at ambient temperature (70°F)

Male NPT	Male NPT	Brass Part #	Wt. Lbs.	Price/E
1/2"	1/2"	ASBDV50	1.0	\$161.00
3/4"	3/4"	ASBDV75	1.2	161.00

Chicago Pattern Valve



Features:

- round aluminum handwheel
- for use up to **175 PSI** at ambient temperature (70°F)

Male NPT Inlet	Male NST (NH) Outlet	Cast Brass Part #	Price/E
1 1/2"	1 1/2"	CPV150F	\$341.30

Male x Groove Adapter with Internal Lugs



Features:

- allows the conversion of a female NPT valve inlet to connect to grooved piping

Male NPT	Groove Size	Length	Brass Part #	Price/E
2 1/2"	2 1/2"	2-3/64"	VMIL250	\$42.00

Continuous Swivels



Features:

- allows a hose to swing when connected
- full waterway reduces friction loss
- short style radius, 2 1/2" measured from the center of the waterway to the end of the discharge thread

Female NPT	Male NH (NST)	Length	Cast Brass Part #	Wt. Lbs.	Price/E
1 1/2"	1 1/2" NH (NST)	2 1/2"	CSES150F	4.00	\$180.00
2"	1 1/2" NH (NST)	2 1/2"	CSES2015F	3.75	180.00
1 1/2"	1 1/2" NPT	5"	CSES150T	4.00	180.00

Plain Wye with Pin Lugs

Features:

- female swivel, two male outlets
- divides one stream into two

Female NST (NH)	(2) Male NST (NH)	Brass Part #	Price/E
1½"	1½"	PW15F15F	\$200.00
2½"	1½"	PW25F15F	225.00
2½"	2½"	PW25F25F	250.00



Plain Wye with Rocker Lug

Features:

- female swivel, two male outlets
- divides one stream into two

Female Thread Inlet	(2) Male NPSH Outlets	Aluminum Part #	Price/E
1" female NPSH	1"	ARPW10S10S	\$290.35
1½" female NST (NH)	1"	ARPW15F10S	440.00



Angle and Suction Elbows

Application:

- for use on pump discharge valves, or suction inlet to minimize hose kinking

Features:

- rocker lug swivel
- satin brass finish
- -C polished chrome plated

Elbow Degree	Male NH (NST)	Female NH (NST)	Brass Part #	Powhatan Part #	Wt. Lbs.	Price/E
45°	2½"	2½"	RSE45250F	29-222-00133	4.48	\$261.65
45°	2½"	2½"	RSE45250F-C¹	29-222-00010	4.48	289.30
90°	2½"	2½"	RSE90250F	29-232-00044	4.66	210.00
90°	2½"	2½"	RSE90250F-C¹	29-232-00019	4.66	235.00

¹ chromed brass



chromed brass

Angle and Suction Elbows - N54

Application:

- ideal for fire apparatus with front suction connections

Features:

- constructed of anodized, powder coated aluminum
- anodized female swivel connections

Elbow Degree	Male NST	Female NST Swivel	Aluminum Part #	Wt. Lbs.	Price/E
30°	2½"	2½"	N5430-250F	2.0	\$235.00
45°	2½"	2½"	N5445-250F	2.0	235.00
60°	2½"	2½"	N5460-250F	2.0	240.00
90°	2½"	2½"	N5490-250F	2.0	250.00



NEW
FOR 2013

UL Roof Connections

Application:

- Used to create roof connections, fire pump test connections, wall hydrants or sidewalk (free standing) hydrants.

Features:

- cast brass
- provides 250 GPM minimum per outlet
- Underwriters Listed
- for pressures up to **175 PSI** at ambient temperature (70°F)
- Roof manifolds are also available, consult the factory for pricing and availability.



straight



90°

Style	Female NPT Inlet	(2) Male Outlets	Cast Brass Part #	Price/E
straight	4"	2½" NPT	IRC4025	\$207.20
straight	4"	2½" NST	IRC4025F	207.20
straight	6"	2½" NPT	FRC6025	657.10
straight	6"	2½" NST	FRC6025F	657.10
90°	4"	2½" NPT	90IRC4025	230.00
90°	4"	2½" NST	90IRC4025F	230.00
90°	6"	2½" NPT	90FRC6025	607.70
90°	6"	2½" NST	90FRC6025F	607.70



Single Clapper Siamese Connections

Application:

- Provides the required 500 GPM minimum to supplement the fire protection as an auxiliary inlet connection to the water supply (250 GPM minimum per inlet).

Features:

- branding: Auto-Sprk only
- Underwriters Listed and Factory Mutual approved
- for use up to **250 PSI** at ambient temperature (70°F)
- single swing clapper with two pin lug swivel inlets
- design provides an unobstructed waterway
- Exposed Fire Department Connections (FDC) provide an economical method to satisfy local fire codes.



straight



90°

Back Outlet

Style	Outlet Female NPT	(2) Inlets Female NST (NH)	Cast Brass Part #	Price/E
straight	4"	2½"	SCS4025F	\$265.20
straight	4"	2½"	ISCS4025F	238.35

Bottom Outlet

Style	Outlet Female NPT	(2) Inlets Female NST (NH)	Cast Brass Part #	Price/E
90°	4"	2½"	90SCS4025F	\$360.95
90°	4"	2½"	90ISCS4025F	296.55

Double Clapper Siamese Connections

Application:

- Provides the required 500 GPM minimum to supplement the fire protection as an auxiliary inlet connection to the water supply (250 GPM minimum per inlet).

Features:

- branding: Auto-Sprk, other branding also available (consult factory for pricing & availability)
- 4" is Underwriters Listed and Factory Mutual approved**
- for use up to **175 PSI** at ambient temperature (70°F)
- Double drop clappers with two pin lug swivel inlets.
- Exposed Fire Department Connections (FDC) provide an economical method to satisfy local fire codes.



straight



90°

Style	Female NPT Outlet	(2) Inlets Female NST (NH)	Cast Brass Part #	Price/E
straight	4"	2½"	DCS4025F	\$855.70
90°	4"	2½"	90DCS4025F	847.10
straight	6"	2½"	DCS6025F¹	962.45
90°	6"	2½"	90DCS6025F¹	867.25

¹ 6" is *not* Underwriters Listed or Factory Mutual approved

Sleeve for Sidewalk Connections (free standing)

Feature:

- Used in conjunction with a sidewalk escutcheon and a 90° double clapper Siamese to create a sidewalk (free standing) fire department connection.
- finish: -P polished, -C polished chrome plated

Pipe Size	Length	Brass Part #	Price/E
4"	18"	SS418-P	\$432.00
	18"	SS418-C	489.00
	24"	SS424-P	541.00
	24"	SS424-C	633.00
6"	18"	SS618-P	519.00
	18"	SS618-C	818.00



Round Identification Plates

Features:

- Used to trim out and identify exposed fire department connections.
- for Siamese, made in 9¼" diameter for 4" pipe and 11¼" diameter for 6" pipe
- finish: -P polished, -C polished chrome plated

Pipe Size	OD	Hole Size	Branding	Cast Brass Part #	Price/E
2½"	7-5/8"	3-1/4"	Auto-Sprinkler	REP250AS	\$89.85
			Auto-Sprinkler	REP250AS-P	130.00
			Auto-Sprinkler	REP250AS-C	170.00
			Wall Hydrant	REP250HY	89.85
			Pump Test	REP250PT	89.85
			Standpipe	REP250SP	89.85
			Standpipe	REP250SP-P	130.00
			Standpipe	REP250SP-C	170.00
4"	9-1/4"	4-5/8"	Auto-Sprinkler	AREP400AS ¹ NEW	30.50
			Auto-Sprinkler	REP400AS	182.00
			Auto-Sprinkler	REP400AS-P	210.00
			Auto-Sprinkler	REP400AS-C	240.00
			Wall Hydrant	REP400HY	182.00
			Standpipe	REP400SP	182.00
			Standpipe	REP400SP-P	210.00
			Standpipe	REP400SP-C	240.00
			Auto-Sprinkler & Standpipe	REP400AS/SP	182.00
6"	11-1/4"	6-3/4"	Auto-Sprinkler	REP600AS	232.00
			Auto-Sprinkler	REP600AS-P	285.00
			Auto-Sprinkler	REP600AS-C	335.00
			Standpipe	REP600SP	232.00
			Standpipe	REP600SP-P	285.00
			Standpipe	REP600SP-C	335.00



¹ aluminum

NEW
FOR 2013

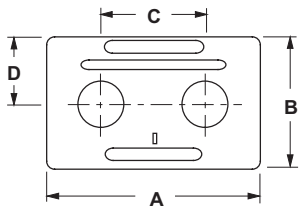
Wall Plate for Double Clapper Siamese Assemblies

Feature:

- finish: -P polished, -C polished chrome plated



Hole Size	Branding	Brass Part #	Wt. Lbs.	Price/E
3-3/8"	AutoSprinkler	WP2HAS-P	3	\$220.00
	AutoSprinkler	WP2HAS-C	3	242.00
	StandPipe	WP2HSP-P	3	220.00
	StandPipe	WP2HSP-C	3	242.00
	AutoSprinkler StandPipe Combo	WP2H-ASSP-P	3	220.00
	AutoSprinkler StandPipe Combo	WPSH-ASSP-C	3	279.00
	Hydrant	WP2H-HY-P	3	220.00
	Hydrant	WP2H-HY-C	3	242.00
	PumpTest	WP2H-PT-P	3	220.00
	PumpTest	WP2H-PT-C	3	242.00



Dimensions

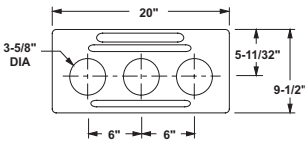
Hole Size	A	B	C	D
3-3/8"	14"	8"	7-5/8"	4-15/16"

NEW
FOR 2013

Wall Plate for Concealed Three Way Bodies

Features:

- three, 3-5/8" holes
- finish: -P polished, -C polished chrome plated



Hole Size	Position	Branding	Cast Brass Part #	Wt. Lbs.	Price/E
3-5/8"	Horizontal	AutoSprinkler	WP3HAS-P	3	\$255.00
	Horizontal	AutoSprinkler	WP3HAS-C	3	279.00
	Horizontal	StandPipe	WP3HSP-P	3	255.00
	Horizontal	StandPipe	WP3HSP-C	3	279.00
	Horizontal	AutoSprinkler StandPipe Combo	WP3HH-ASSP-C	3	279.00
	Horizontal	PumpTest	WP3HH-PT-P	3	255.00
	Horizontal	PumpTest	WP3HH-PT-C	3	279.00
	Vertical	AutoSprinkler StandPipe Combo	WP3HV-ASSP-P	3	255.00
	Vertical	PumpTest	WP3HV-PT-C	3	279.00
	Vertical	PumpTest	WP3HV-PT-P	3	255.00

Double Male Hex Nipples

Feature:

- other configurations are also available, consult the factory for pricing and availability

Male NPT Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1"	¾" GHT	DMH1076	\$13.15
1"	1"	DMH1010	12.50
1"	1½"	DMH1015	66.65
1½"	1"	DMH1510	75.25
1½"	1½"	DMH1515	20.70
1½"	2"	DMH1520	61.15
2"	1½"	DMH2015	46.00
2"	2"	DMH2020	43.35
2"	2½"	DMH2025	63.25
2½"	2"	DMH2520	113.00
2½"	2½"	DMH2525	54.15
2½"	3"	DMH2530	199.00
3"	2½"	DMH3025	99.00
3"	3"	DMH3030	137.15
4"	4"	DMH4040	220.35
6"	6"	DMH6060	444.00



reducer

NEW

Male NST (NH) Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1½"	DMH15F15F	\$23.15
1½"	2½"	DMH15F25F	63.00
2½"	2½"	DMH25F25F	50.85
2½"	3"	DMH25F30F	199.00



same size

Male NST (NH) Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1½"	1½"	DMH15F15S	\$23.15

Male NPT Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
¾"	1½"	DMH7515F	\$63.35
1"	1"	DMH1010F	12.50
1"	1½"	DMH1015F	66.60
1"	2½"	DMH1025F	135.95
1½"	1"	DMH1510F	75.25
1½"	1½"	DMH1515F	18.95
1½"	2½"	DMH1525F	139.00
2"	1½"	DMH2015F	39.30
2"	2"	DMH2020F	103.15
2"	2½"	DMH2025F	50.60
2½"	1½"	DMH2515F	85.25
2½"	2½"	DMH2525F	53.60
2½"	3"	DMH2530F	199.00
3"	2½"	DMH3025F	99.00
3"	3"	DMH3030F	137.15
4"	4"	DMH4040F	208.75
4"	4½"	DMH4045F	235.45
5"	5"	DMH5050F	562.00
6"	4½"	DMH6045F	425.50
6"	6"	DMH6060F	459.50



increaser

Male NPT Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	1½"	DMH15T15T	\$23.15
2½"	3"	DMH25T30T	199.00

Double Males - Pin Lug



Male NPSH Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1½"	1½"	DMP1515	\$83.85
2½"	2½"	DMP2525	152.00

Male NST (NH) Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1½"	DMP1515F	\$83.85
2½"	2½"	DMP2525F	152.00

Male NST (NH) Thread	Male NPSH Thread	Cast Brass Part #	Price/E
2½"	2½"	DMP25F25S	\$152.00

Male NST (NH) Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	1½"	DMP15F15T	\$83.85
2½"	2½"	DMP25F25T	152.00

Double Males - Rocker Lug



Male NST (NH) Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1½"	DMR1515F	\$62.25
2½"	2½"	DMR2525F	160.00

Male NST (NH) Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	1½"	DMR15F15T	\$62.25

Male NPSH Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1½"	1½"	DMR1515	\$62.25
2½"	2½"	DMR2525	160.00

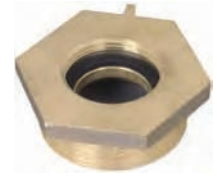
Female to Male Hex Nipples



reducer



same size



increaser

Female NPT Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1"	¾" GHT	FM1076	\$19.95
1"	1"	FM1010	35.50
1½"	1½"	FM1515	20.60
2"	2"	FM2020	90.00
2½"	2½"	FM2525	61.30

Female NPSH Thread	Male NPT Thread	Cast Brass Part #	Price/E
¾" GHT	1"	FM7610T	\$51.75
1"	¾" GHT	FM10S76	22.70
1½"	1½"	FM15S15T	22.15
1½"	2"	FM15S20T	36.40
2"	1½"	FM20S15T	62.50
2½"	2½"	FM25S25T	60.30

Female NPT Thread	Male NST (NH)Thread	Cast Brass Part #	Price/E
1"	1"	FM1010F	\$32.50
1"	1½"	FM1015F	40.50
1½"	1½"	FM1515F	20.00
1½"	2½"	FM1525F	65.75
2"	1½"	FM2015F	27.30
2"	2½"	FM2025F	79.00
2½"	1½"	FM2515F	125.00
2½"	2½"	FM2525F	51.10
3"	2½"	FM3025F	83.50
3"	3"	FM3030F	140.40
4"	2½"	FM4025F	376.00
4"	4"	FM4040F	355.70
4"	4½"	FM4045F	265.55
6"	6"	FM6060F	600.00

Female NPSH Thread	Male NST (NH)Thread	Cast Brass Part #	Price/E
1½"	1½"	FM15S15F	\$22.15
2"	1½"	FM20S15F	62.50
2"	2½"	FM20S25F	88.40
2½"	2½"	FM25S25F	60.30
3"	2½"	FM30S25F	195.30

Female NPSH Thread	Male NPSH Thread	Cast Brass Part #	Price/E
2"	1½"	FM20S15	\$62.50

Female NPT Thread	Male NPT Thread	Cast Brass Part #	Price/E
3"	2½"	FM3025T	\$95.95

Female NST (NH)Thread	Male NPT Thread	Cast Brass Part #	Price/E
1"	1"	FM10F10T	\$32.50
1½"	1½"	FM15F15T	17.85
1½"	2"	FM15F20T	36.40
1½"	2½"	FM15F25T	62.25
2½"	¾"	FM25F75T	140.30
2½"	1"	FM25F10T	134.00
2½"	1½"	FM25F15T	77.70
2½"	2"	FM25F20T	50.50
2½"	2½"	FM25F25T	52.20
2½"	3"	FM25F30T	87.15
3"	2½"	FM30F25T	95.95
3"	3"	FM30F30T	140.40
4"	4"	FM40F40T	279.00
4½"	4"	FM45F40T	441.00
6"	6"	FM60F60T	600.00

Female NST Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1½"	1½"	FM15F15S	\$25.25
2½"	2½"	FM25F25S	140.30

Female NST (NH)Thread	Male NST (NH)Thread	Cast Brass Part #	Price/E
1½"	1½"	FM15F15F	\$25.25
1½"	2½"	FM15F25F	62.25
1½"	3"	FM15F30F	119.00
2½"	1½"	FM25F15F	77.70
2½"	2½"	FM25F25F	60.30
2½"	3"	FM25F30F	87.15
3"	2½"	FM30F25F	95.95

Hydrant Adapters - Pin Lug



reducer



same size



increaser

Female NST (NH)Thread	Male GHT Thread	Cast Brass Part #	Price/E
1½"	¾"	HA1576	\$20.60
2½"	¾"	HA2576	29.35

Female NST (NH)Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1½"	1"	HA1510	\$43.25
1½"	1½"	HA1515	40.75
2½"	1"	HA2510	32.35
2½"	1½"	HA2515	30.60
2½"	2"	HA2520	46.15
2½"	2½"	HA2525	69.85
2½"	3"	HA2530	108.00

Female NST (NH)Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1"	HA1510F	\$40.75
1½"	1½"	HA1515F	40.75
1½"	2½"	HA1525F	126.00
2"	2½"	HA2025F	132.00
2½"	1"	HA2510F	32.35
2½"	1½"	HA2515F	29.70
2½"	2"	HA2520F	46.15
2½"	2½"	HA2525F	69.85
2½"	3"	HA2530F	108.00
3"	1½"	HA3015F	173.00
3"	2½"	HA3025F	76.40
4"	2½"	HA4025F	212.50
4½"	2½"	HA4525F	253.80

Female NST (NH)Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	¾"	HA1575T	\$33.50
1½"	1"	HA1510T	40.75
1½"	1½"	HA1515T	40.75
2½"	¾"	HA2575T	29.35
2½"	1"	HA2510T	29.70
2½"	1½"	HA2515T	30.60
2½"	2"	HA2520T	29.95
2½"	2½"	HA2525T	69.85
2½"	3"	HA2530T	108.00

Female NPSH Thread	Male NST (NH)Thread	Cast Brass Part #	Price/E
1½"	1½"	HA15S15F	\$32.50
2"	1½"	HA20S15F	72.90
2"	2½"	HA20S25F	80.10
2½"	1½"	HA25S15F	34.75
2½"	2½"	HA25S25F	72.85
3"	2½"	HA30S25F	76.40

Female NPSH Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	1"	HA15S10T	\$85.85
1½"	1½"	HA15S15T	40.75
2½"	1"	HA25S10T	32.35
3"	2½"	HA30S25T	187.30

Female NPSH Thread	Male GHT Thread	Cast Brass Part #	Price/E
1½"	¾"	HA15S76	\$23.70

Female NPT Thread	Male NST (NH)Thread	Cast Brass Part #	Price/E
1½"	1½"	HA15T15F	\$40.75
2"	2½"	HA20T25F	80.10

Features:

- other styles and sizes are also available
- not all configurations are stocked
- consult the factory for pricing and availability

Hydrant Adapters - Rocker Lug



reducer



same size



increaser

Female NST (NH) Thread	Male GHT Thread	Cast Brass Part #	Price/E
1½"	¾"	RHA1576	\$77.55
2½"	¾"	RHA2576	36.85

Female NPSH Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1½"	1"	RHA15S10	\$47.50
2½"	1½"	RHA25S15	40.25

Female NST (NH) Thread	Male NPSH Thread	Cast Brass Part #	Price/E
1½"	1"	RHA1510	\$46.60
1½"	1½"	RHA1515	55.80
1½"	2"	RHA1520	113.00
2½"	1"	RHA2510	49.15
2½"	1½"	RHA2515	35.50

Female NPSH Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1½"	RHA15S15F	\$55.00
2½"	1½"	RHA25S15F	40.25
2½"	2½"	RHA25S25F	130.00

Female NST (NH) Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1"	RHA1510F	\$46.60
1½"	1½"	RHA1515F	55.80
1½"	2½"	RHA1525F	74.55
2"	2½"	RHA2025F	126.00
2½"	1"	RHA2510F	49.15
2½"	1½"	RHA2515F	35.50
2½"	1½"	RHA2515F-C	46.15
2½"	2"	RHA2520F	138.00

Female NPSH Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	1"	RHA15S10T	\$47.50
1½"	1½"	RHA15S15T	113.00

Female NPT Thread	Male NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1½"	RHA15T15F	\$55.00
2½"	2½"	RHA25T25F	130.00

Female NST (NH) Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	1"	RHA1510T	46.60
1½"	1½"	RHA1515T	55.80
2½"	1"	RHA2510T	49.15
2½"	1½"	RHA2515T	75.85
2½"	2"	RHA2520T	51.25
2½"	2½"	RHA2525T	130.00
2½"	3"	RHA2530T	159.80

Features:

- -C chrome finish
- other styles and sizes are also available
- not all configurations are stocked
- consult the factory for pricing and availability

Hydrant Adapters - Rocker Lug

Features:

- use with water
- **100 PSI** maximum working pressure

Female Thread	Male Thread	Polycarbonate Part #	Weight	Price/E
1½" NPSH	1½" NST	POLYHA15S15F	.12	\$15.10
2½" NST	¾" GHT	POLYHA2576	.20	18.30
2½" NST	1½" NPSH	POLYHA2515	.22	22.00
2½" NST	1½" NST	POLYHA2515F	.22	22.00
2½" NST	2" NPT	POLYHA2520T	.24	18.30



(Open Snoot) Female **Swivel Adapters - Pin Lug**

Features:

- double female rigid hexagon to swivel connection
- rigid end thread is always NPT, hose thread is on swivel end



Female NST (NH) Thread	Female NPT Thread	Cast Brass Part #	Price/E
1½"	1½"	SF150F	\$89.00
2½"	1½"	SF25F15T	218.70
2½"	2"	SF25F20T	155.60
2½"	2½"	SF250F	104.45
2½"	3"	SF25F30T	162.75
3"	3"	SF300F	284.00
4"	4"	SF400F	624.45

Female NPSH Thread	Female NPT Thread	Cast Brass Part #	Price/E
1½"	1½"	SF150S	\$120.00
2½"	2½"	SF250S	176.00

(Open Snoot) Female **Swivel Adapters - Rocker Lug**



Female NST (NH) Thread	Female NPT Thread	Cast Brass Part #	Price/E
1½"	1½"	RSF150F	\$89.00
2½"	1½"	RSF25F15T	255.00
2½"	2"	RSF25F20T	155.60
2½"	2½"	RSF250F	144.90

(Open Snoot) Female **Swivel Suction Adapter with Screen - Rocker Lug**

Feature:

- suction intake with strainer screen



Female NST (NH) Thread	Female NPT Thread	Cast Brass Part #	Price/E
2½"	1½"	RSFSA25F15T	\$350.20
2½"	2"	RSFSA25F20T	350.20
2½"	2½"	RSFSA250F	335.40
2½"	3"	RSFSA25F30T	386.90

O

Male Swivel Adapters - Pin Lug

Female NST (NH) Thread	Male NPT Thread	Cast Brass Part #	Wt. Lbs.	Price/E
1½"	1½"	SM150F	1.0	\$72.10
2½"	1½"	SM25F15T	2.4	154.75
2½"	2"	SM25F20T	2.5	146.00
2½"	2½"	SM250F	2.8	91.40
2½"	3"	SM25F30T	3.0	174.30
4"	4"	SM400F	9.0	557.50

Female NH (NST) Thread	Male NH (NST) Thread	Cast Brass Part #	Wt. Lbs.	Price/E
2½"	3"	SM25F30F	3.0	\$271.10

Female NPSH Thread	Male NPT Thread	Cast Brass Part #	Wt. Lbs.	Price/E
1½"	1½"	SM150S	1.0	\$90.55
2½"	2½"	SM250S	3.0	105.00

Female NPSH Thread	Male NST (NH) Thread	Cast Brass Part #	Wt. Lbs.	Price/E
1½"	1½"	SM15S15F	1.0	\$161.25



Male Swivel Adapters - Rocker Lug

Female NST Thread	Male NPT Thread	Cast Brass Part #	Price/E
1½"	1½"	RSM150F	\$90.55
2½"	2"	RSM25F20T	146.00
2½"	2½"	RSM250F	105.00
2½"	3"	RSM25F30T	174.30



Male Swivel Suction Adapter with Screen - Rocker Lug

Feature:

- suction intake with strainer screen

Female NST (NH) Thread	Male NPT Thread	Cast Brass Part #	Price/E
2½"	1½"	RSMSA25F15T	\$322.20
2½"	2"	RSMSA25F20T	337.20
2½"	2½"	RSMSA250F	340.80
2½"	3"	RSMSA25F30T	382.60



Double Female Swivels - Pin Lug



Female NPSH Thread	Female NPSH Thread	Cast Brass Part #	Price/E
1½"	1½"	DFP1515	\$83.70
2½"	2½"	DFP2525	185.10

Female NST (NH) Thread	Female NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1½"	DFP1515F	\$78.50
2½"	2½"	DFP2525F	170.00

Female NST (NH) Thread	Female NPSH Thread	Cast Brass Part #	Price/E
1½"	1½"	DFP15F15S	\$83.70
2½"	2½"	DFP25F25S	185.10

Double Female Swivels - Rocker Lug



Female NPSH Thread	Female NPSH Thread	Cast Brass Part #	Price/E
1½"	1½"	DFR1515	\$83.70
2½"	2½"	DFR2525	177.70

Female NST (NH) Thread	Female NST (NH) Thread	Cast Brass Part #	Price/E
1½"	1½"	DFR1515F	\$83.70
2½"	2½"	DFR2525F	177.70

Double Female Hex Adapters



Female Thread	Female Thread	Cast Brass Part #	Price/E
1½" NPT	1½" NST (NH)	FFH1515F	\$26.20
2½" NPT	2½" NST (NH)	FFH2525F	55.70
1½" NST (NH)	1½" NST	FFH15F15F	27.50
2½" NST (NH)	2½" NST	FFH25F25F	58.00

Single Male Outlet with Hex

Features:

- connects fire hose to a standpipe or sprinkler system
- other sizes and threads are also available, consult the factory for pricing and availability
- finish: -**P** polished, -**C** polished chrome plated



Female NPT	Male NH (NST)	Cast Brass Part #	Price/E
2½"	2½"	MOC250F-P	\$149.85
2½"	2½"	MOC250F-C	161.90
3"	2½"	MOC3025F-P	204.55
3"	2½"	MOC3025F-C	219.70

British Instantaneous Fittings

Features:

- polished finish
- meets BS336 specifications

Adapters

British Instantaneous female x female threads

Size		Brass Part #	Weight	Price/E
Female	Female			
2½" BRIT	2½" NST	BID250F	3 lbs. 10 ozs.	\$135.00
2½" BRIT	2½" NPSH	BID250S		135.00
2½" BRIT	2½" NPT	BID250T		135.00
2½" BRIT	2½" BSP	BID250B		135.00



British Instantaneous female x male threads

Size		Brass Part #	Weight	Price/E
Female	Male			
2½" BRIT	2½" NST	BIB250F	3 lbs. 5 ozs	\$125.25
2½" BRIT	2½" NPSH	BIB250S		125.25
2½" BRIT	2½" NPT	BIB250T		125.25
2½" BRIT	2½" BSP	BIB250B		125.25



British Instantaneous male x female threads

Size		Brass Part #	Weight	Price/E
Male	Female			
2½" BRIT	2½" NST	BIA250F	2 lbs. 9 ozs.	\$99.10
2½" BRIT	2½" NPSH	BIA250S		99.10
2½" BRIT	2½" NPT	BIA250T		99.10
2½" BRIT	2½" BSP	BIA250B		99.10



British Instantaneous male x male threads

Size		Brass Part #	Weight	Price/E
Male	Male			
2½" BRIT	2½" NST	BIF250F	2 lbs. 5 ozs.	\$95.10
2½" BRIT	2½" NPSH	BIF250S		95.10
2½" BRIT	2½" NPT	BIF250T		95.10
2½" BRIT	2½" BSP	BIF250B		95.10



Plug

Size	Brass Part #	Weight	Price/E
2½"	BIDP250	1 lb. 13 ozs.	\$59.85



Cap

Size	Brass Part #	Weight	Price/E
2½"	BIDC250	3 lbs. 8 ozs.	\$122.25



Hose Shanks

Size	Brass Part #	Weight	Price/E
2½" male BRIT x 1½" hose shank	BIE150	2 lbs. 11 ozs.	\$114.50
2½" female BRIT x 1½" hose shank	BIC150	3 lbs. 12 ozs.	126.65



NEW
FOR 2013

Domestic Brass Hydrant Adapters - Pin Lug

**Feature:**

- Other configurations are also available. Consult the factory for pricing and availability.

Female Thread	Male Thread	Cast Brass Part #	Powhatan Part #	Price/E
1½" NST	¾" GHT	HA1576-D	09-130-00084	\$43.50
2½" NST	1" NPT	HA2510T-D	09-130-01057	101.00
2½" NST	1½" NST	HA2515F-D	09-130-00297	116.00
2½" NST	1½" NPT	HA2515T-D	09-130-00299	116.00
2½" NST	¾" GHT	HA2576-D	09-130-00263	65.00

NEW
FOR 2013

Domestic Brass Female to Male Hex Nipples



reducer



same size

Feature:

- Other configurations are also available. Consult the factory for pricing and availability.

Female Thread	Male Thread	Cast Brass Part #	Powhatan Part #	Price/E
1" NPT	1½" NST	FM1015F-D	15-216-00046	\$82.00
1½" NPT	1½" NST	FM1515F-D	14-155-00177	63.75
1½" NPT	2½" NST	FM1525F-D	15-216-00090	128.00
1½" NST	1½" NPSH	FM15F15S-D	14-155-00198	63.75
1½" NST	1½" NPT	FM15F15T-D	14-155-00199	63.75
1½" NST	2½" NST	FM15F25F-D	15-216-00097	125.00
1½" NPSH	1½" NST	FM15S15F-D	14-155-00180	63.75
1½" NPSH	1½" NPT	FM15S15T-D	14-155-00175	63.75
2" NPT	1½" NST	FM2015F-D	14-155-00265	63.75
2½" NPT	2½" NST	FM2525F-D	14-155-00359	118.00
2½" NST	1½" NST	FM25F15F-D	14-155-00329	125.00
2½" NST	1½" NPT	FM25F15T-D	14-155-00328	125.00
2½" NST	2½" NPT	FM25F25T-D	14-155-00392	118.00

NEW
FOR 2013Domestic Brass **Double Female Swivels** - Pin Lug

Female Thread	Female Thread	Brass Part #	Powhatan Part #	Price/E
1½" NST	1½" NST	DFP1515F-D	09-115-00020	\$215.00
2½" NST	2½" NST	DFP2525F-D	09-115-00093	265.00

All adapters are made to approved Dixon Powhatan specifications.

Domestic Brass Adapters - Hex Nipples

NEW
FOR 2013

Double Male Hex Nipples

Feature:

- Other configurations are also available. Consult the factory for pricing and availability.

Male Thread	Male Thread	Cast Brass Part #	Powhatan Part #	Price/E
1" NPT	1½" NST	DMH1010F-D	14-146-01084	\$57.60
1" NPT	1½" NST	DMH1015F-D	14-146-00090	66.60
1½" NPT	1½" NPSH	DMH1515-D	14-146-00110	39.95
1½" NPT	1½" NST	DMH1515F-D	14-146-00115	39.95
1½" NPT	2½" NST	DMH1525F-D	14-146-00187	139.00
1½" NST	1½" NST	DMH15F15F-D	14-146-00132	74.50
1½" NST	1½" NPSH	DMH15F15S-D	14-146-00118	74.50
1½" NST	2½" NST	DMH15F25F-D	14-146-00188	139.00
2" NPT	1½" NST	DMH2015F-D	14-146-00157	79.10
2" NPT	2" NSPH	DMH2020-D	14-146-00167	85.00
2" NPT	2½" NST	DMH2025F-D	14-146-00367	96.75
2½" NPT	1½" NST	DMH2515F-D	14-146-00192	145.00
2½" NPT	2½" NST	DMH2525F-D	14-146-00221	102.00
2½" NST	2½" NST	DMH25F25F-D	14-146-00259	102.00
3" NPT	2½" NST	DMH3025F-D	14-146-00294	186.00
3" NPT	3" NST	DMH3030F-D	14-146-00313	275.00
4" NPT	4½" NST	DMH4045F-D	14-146-00354	435.00
6" NPT	6" NST	DMH6060F-D	14-146-00431	897.00



reducer



same size



increaser

Domestic Brass Female Swivel Adapters - Pin Lug

Female NST Swivel	Female NPT	Cast Brass Part #	Powhatan Part #	Price/E
1½"	1½"	SF150F-D	23-270-00431	\$155.00
2½"	2½"	SF250F-D	23-270-00008	200.00
2½"	2"	SF25F20T-D	23-270-00437	265.00



Domestic Brass Male Swivel Adapters - Pin Lug

Female NST Swivel	Male NPT	Cast Brass Part #	Powhatan Part #	Price/E
1½"	1½"	SM150F-D	09-215-00277	\$120.00
2½"	2½"	SM250F-D	09-215-00279	180.00
2½"	2"	SM25F20T-D	09-215-00140	285.00
2½"	3"	SM25F30T-D	09-215-00110	340.00



All adapters are made to approved Dixon Powhatan specifications.

NEW
FOR 2013

Domestic Brass Caps and Plugs - Pin Lug

Caps



Feature:

- other sizes, threads, and finishes available, consult the factory for pricing and availability.

Size	Brass Part #	Powhatan Part #	Wt. Lbs.	Price/E
1½" NST	FC150F-D	17-126-00038	0.52	\$53.35
2½" NST	FC250F-D	17-126-00180	1.00	65.40

Plugs



Size	Brass Part #	Powhatan Part #	Wt. Lbs.	Price/E
1½" NST	FP150F-D	17-127-00008	0.58	\$43.55
2½" NST	FP250F-D	17-127-00147	1.80	95.20

NEW
FOR 2013

Screw Pitch Gauge



Features:

- used to determine threads per inch
- stainless steel construction with 30 leaves

Part #	Powhatan Part #	Wt. Lbs.	Price/E
TPG	29-425-00001	.35	\$163.90

Aluminum Threaded Adapters

Features:

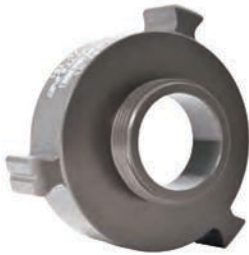
- material: extruded 6061-T6 lightweight aluminum alloy
- sizes from ¾" to 6"
- finished product is laser engraved for clear understanding of the thread type and size produced
- swivel sizes ranging from 1½" to 3 are attached using ball bearings
- swivel sizes ranging from 4" to 6" are attached using roller bearings



N35 - Double Swivel Female
Rocker Lug (ADFR series), page 514



N36 - Double Male Rocker Lug
(ADMR series), page 514



N37 - Rigid Female Rocker Lug to Male
(AHA series), page 515



N53 - Swivel Female Rocker Lug to Rigid Female Rocker Lug
(ASF series), page 516



N54 - Swivel Female Rocker Lug to Male
(ASM series), page 516



N56 - Rigid Female Long Handle to Male
(ALHA series), page 516



N57 - Double Female Swivel Long Handle
page 516

Aluminum Adapters

Double Female Swivels - Rocker Lug - N35

Features:

- other styles and sizes are available, not all configurations are stocked, consult the factory for pricing and availability
- material: seamless aluminum extrusion, hardcoat anodized



Female NPSH Thread	Female NPSH Thread	Aluminum Hardcoat		Price/E
		New Part #	Old Part #	
1"	1"	N35-10S10S	<i>ADFR1010S</i>	\$53.30
1½"	1½"	N35-15S15S	<i>ADFR1515</i>	60.65
2½"	2½"	N35-25S25S	<i>ADFR2525</i>	105.25

Female NST (NH) Thread	Female NST (NH) Thread	Aluminum Hardcoat		Price/E
		New Part #	Old Part #	
1½"	1½"	N35-15F15F	<i>ADFR1515F</i>	\$60.65
1½"	2½"	N35-15F25F	<i>ADFR1525F</i>	90.00
2½"	2½"	N35-25F25F	<i>ADFR2525F</i>	105.25

Female NST (NH) Thread	Female NPSH Thread	Aluminum Hardcoat		Price/E
		New Part #	Old Part #	
1½"	1½"	N35-15F15S	<i>ADFR15F15S</i>	\$60.65
2½"	2½"	N35-25F25S	<i>ADFR25F25S</i>	105.25

Double Males - Rocker Lug - N36

Features:

- other styles and sizes are available, not all configurations are stocked, consult the factory for pricing and availability
- material: seamless aluminum extrusion, hardcoat anodized



Male NST (NH) Thread	Male NST (NH) Thread	Aluminum Hardcoat		Price/E
		New Part #	Old Part #	
1½"	1½"	N36-15F15F	<i>ADMR15F15F</i>	\$34.25
2½"	2½"	N36-25F25F	<i>ADMR25F25F</i>	51.25

Male NPSH Thread	Male NPSH Thread	Aluminum Hardcoat		Price/E
		New Part #	Old Part #	
1"	1"	N36-10S10S	<i>ADMR10S10S</i>	\$33.25

Male NPT Thread	Male NST (NH) Thread	Aluminum Hardcoat		Price/E
		New Part #	Old Part #	
1½"	1½"	N36-15T15F	<i>ADMR1515F</i>	\$34.25
2½"	2½"	N36-25T25F	<i>ADMR2525F</i>	51.25
3"	2½"	N36-30T25F	<i>ADMR3025F</i>	101.25
6"	6"	N36-60T60F	<i>ADMR6060F</i>	378.25

Aluminum Adapters

Hydrant Adapters - Rocker Lug - N37

Features:

- other styles and sizes are available, not all configurations are stocked, consult the factory for pricing and availability
- material: seamless aluminum extrusion, hardcoat anodized

Female NST (NH)Thread	Male GHT Thread	Aluminum		Price/E
		New Part #	Old Part #	
1"	¾"	N37-10F07G	AHA1076	\$36.25
1½"	¾"	N37-15F07G	AHA1576	42.65
2½"	¾"	N37-25F07G	AHA2576	94.20

Female NST (NH)Thread	Male NPT Thread	Aluminum		Price/E
		New Part #	Old Part #	
1½"	1½"	N37-15F15T	AHA1515T	\$40.25
2½"	1½"	N37-25F15T	AHA2515T	57.70
2½"	2"	N37-25F20T	AHA2520T	77.70
2½"	2½"	N37-25F25T	AHA2525T	72.65
3"	3"	N37-30F30T	AHA3030T	156.65
4"	4"	N37-40F40T	AHA4040T	254.50
4½"	4"	N37-45F40T	AHA4540T	298.85
5"	5"	N37-50F50T	AHA5050T	452.50
6"	6"	N37-60F60T	AHA6060T	520.75

Female NST (NH)Thread	Male NPSH Thread	Aluminum		Price/E
		New Part #	Old Part #	
1"	1"	N37-10F10S	AHA1010S	\$39.25
1"	1½"	N37-10F15S NEW	AHA1015	53.75
1½"	1"	N37-15F10S	AHA1510	48.75
1½"	1½"	N37-15F15S	AHA1515	40.25
2½"	2½"	N37-25F25S	AHA2525	72.65

Female NST (NH)Thread	Male NST (NH) Thread	Aluminum		Price/E
		New Part #	Old Part #	
1"	1½"	N37-10F15F	AHA1015F	\$53.75
1½"	1"	N37-15F10F	AHA1510F	48.75
2½"	1½"	N37-25F15F	AHA2515F	57.70
2½"	2½"	N37-25F25F	AHA2525F	72.65
3"	2½"	N37-30F25F	AHA3025F	101.50

Female GHT Thread	Male NPSH Thread	Aluminum		Price/E
		New Part #	Old Part #	
¾"	1"	N37-07G10S	AHA7610S	\$53.75

Female GHT Thread	Male NST (NH)Thread	Aluminum		Price/E
		New Part #	Old Part #	
¾"	1"	N37-07G10F	AHA7610F	\$53.75

Female NPSH Thread	Male NPSH Thread	Aluminum		Price/E
		New Part #	Old Part #	
1"	¾" GHT	N37-10S07S	AHA10S76	\$36.25
1"	1½"	N37-10S15S	AHA10S15	54.60

Female NPSH Thread	Male NST (NH)Thread	Aluminum		Price/E
		New Part #	Old Part #	
1"	1"	N37-10S10F	AHA10S10F	\$40.55
1"	1½"	N37-10S15F	AHA10S15F	53.75
1½"	1½"	N37-15S15F	AHA15S15F	40.25
2"	1½"	N37-20S15F	AHA20S15F	57.40
2½"	2½"	N37-25S25F	AHA25S25F	72.65
3"	2½"	N37-30S25F	AHA30S25F	101.50



reducer



same size



increaser

Aluminum Adapters

Swivel Female to Rigid Female Adapter - Rocker Lug - N53**Feature:**

- material: seamless aluminum extrusion, hardcoat anodized



Female NST (NH) Thread	Female NPT Thread	Aluminum		Price/E
		New Part #	Old Part #	
1½"	1½"	N53-15F15T	ASF150F	\$61.70
2½"	2"	N53-25F20T	ASF25F20T	142.15
2½"	2½"	N53-25F25T	ASF250F	154.45
2½"	3"	N53-25F30T	ASF25F30T	164.95
2½"	4"	N53-25F40T	ASF25F40T	218.20
4"	4"	N53-40F40T	ASF40F40T	387.90
4½"	4"	N53-45F40T	ASF45F40T	412.15
6"	6"	N53-60F60T	ASF60F60T	725.35

Male Swivel Adapters - Rocker Lug - N54**Feature:**

- material: seamless aluminum extrusion, hardcoat anodized



Female NST (NH) Thread	Male NPT Thread	Aluminum		Price/E
		New Part #	Old Part #	
1½"	1½"	N54-15F15T	ASM150F	\$70.80
2½"	2"	N54-25F20T	ASM25F20T	127.90
2½"	2½"	N54-25F25T	ASM250F	148.40
2½"	3"	N54-25F30T	ASM25F30T	200.05
4"	4"	N54-40F40T	ASM40F40T	401.25
4½"	4"	N54-45F40T	ASM45F40T	445.00
6"	6"	N54-60F60T	ASM60F60T	575.00

NEW
FOR 2013**Long Handle Hydrant Adapters - N56****Feature:**

- material: seamless aluminum extrusion, hardcoat anodized



Female NST (NH)	Male NST (NH)	Aluminum		Price/E
		New Part #	Old Part #	
4"	2½"	N56-40F25F	ALHA4025F	\$267.00
4"	4½"	N56-40F45F	ALHA4045F	360.00
4½"	2½"	N56-45F25F	ALHA4525F	275.00
4½"	4"	N56-45F40F	ALHA4540F	360.00

NEW
FOR 2013**Long Handle Double Female Swivel Adapters - N57****Feature:**

- material: seamless aluminum extrusion, hardcoat anodized



Female NST (NH)	Female NST (NH)	Aluminum		Price/E
		New Part #	Old Part #	
4½"	4½"	N57-45F45F	ADFL45F45F	248.00
6"	2½"	N57-25F60F	ADFL60F25F	420.00
6"	4"	N57-40F60F	ADFL60F40F	420.00
6"	4½"	N57-45F60F	ADFL60F45F	435.00



Forged Aluminum Fittings

Hydrant Adapters - Rocker Lug

Feature:

- material: forged and hardcoat anodized

Female NST (NH) Thread	Male Thread	Aluminum Part #	Wt. Lbs.	Price/E
2½"	1½" NST	F-AHA2515F	0.6	\$40.00
2½"	1½" NPT	F-AHA2515T	0.6	40.00



Double Female Swivel - Rocker Lug

Feature:

- material: forged and hardcoat anodized

Female NST (NH) Thread	Female NST (NH) Thread	Aluminum Part #	Wt. Lbs.	Price/E
1½"	1½"	F-ADFR1515F	0.60	\$44.75
2½"	2½"	F-ADFR2525F	1.45	86.35

Female NPSH Thread	Female NPSH Thread	Aluminum Part #	Wt. Lbs.	Price/E
1½"	1½"	F-ADFR1515	0.60	\$44.75
2½"	2½"	F-ADFR2525	1.45	86.35



Long Handle Short Shank Females

Features:

- for suction and low pressure discharge only
- powder coated aluminum long handle swivel nut

Hose Shank	Female Swivel Nut NST (NH)	Aluminum Part #	Price/E
4"	4"	LHFS400F	\$140.00
4"	4½"	LHFS4045F	244.55



Cam and Groove Hydrant Adapters

Features:

- Pin lugs allow for easy connection using standard spanner and hydrant wrenches (pages 535 and 536).
- supplied with a Buna-N washer in the threaded end

Female NST Thread	Male Adapter	Brass		Aluminum	
		Part #	Price/E	Part #	Price/E
1½"	1½"	HA1515ADP	\$75.50	AHA1515ADP	\$40.25
2½"	2½"	HA2525ADP	83.30	AHA2525ADP	50.00



Replacement Washers

ID	OD	Thickness	Buna-N Part #	Price/E
1-9/16"	2-1/16"	1/8"	SW150	\$2.00
2-9/16"	3-3/16"	3/16"	SW250	3.15



Storz Fittings

Features:

- designed for applications where a non-valved, locking coupling is required
- machined from forged 6061 - T6 aluminum
- hardcoat anodized components per MIL-A-8625 Type III Class 1
- Buna-N gaskets
- working pressure: **150 PSI** at ambient temperature 70°F
- cast aluminum lock lever assembly on 4", 5" and 6"

Storz x Rigid Female

Feature:

- pressure seal is shipped standard



Storz x Rigid Female	New Part #	Aluminum Old Part #	Price/E
4" x 2½" NST	FSA4025F	SZF4025F	\$260.00
5" x 2½" NST	FSA5025F	SZF5025F	422.00
5" x 4½" NST	FSA5045F	SZF5045F	464.25
1½" x 1" NPT	FSA1510T	SZF1510T	105.00
2" x 1½" NPT	FSA2015T	SZF2015T	130.00
3" x 2" NPT	FSA3020T	SZF3020T	130.00
4" x 3" NPT	FSA4030T	SZF4030T	365.00
4" x 4" NPT	FSA4040T	SZF4040T	376.75
5" x 4" NPT	FSA5040T	SZF5040T	453.35
5" x 5" NPT	FSA5050T	SZF5050T	477.25
5" x 6" NPT	FSA5060T	SZF5060T	518.30
6" x 6" NPT	FSA6060T	SZF6060T	705.00

Storz x Female Swivel



Storz x Female Swivel	New Part #	Aluminum Old Part #	Price/E
4" x 2½" NST	SFSA4025F	SZSF4025F	\$370.20
4" x 4" NST	SFSA4040F	SZSF4040F	486.40
4" x 4½" NST	SFSA4045F	SZSF4045F	500.50
5" x 2½" NST	SFSA5025F	SZSF5025F	416.75
5" x 4" NST	SFSA5040F	SZSF5040F	506.80
5" x 4½" NST	SFSA5045F	SZSF5045F	482.90

Storz x Rigid Male NPT

Feature:

- pressure seal is shipped standard



Storz x Rigid Male	New Part #	Aluminum Old Part #	Price/E
2½" x 2½" NST	MSA2525F	SZM2525F	\$186.40
4" x 2½" NST	MSA4025F	SZM4025F	303.00
5" x 2½" NST	MSA5025F	SZM5025F	381.10
5" x 4½" NST	MSA5045F	SZM5045F	427.30
1½" x 1" NPT	MSA1510T	SZM1510T	135.00
2" x 1½" NPT	MSA2015T	SZM2015T	184.00
4" x 3" NPT	MSA4030T	SZM4030T	325.00
5" x 4" NPT	MSA5040T	SZM5040T	420.90
6" x 6" NPT	MSA6060T	SZM6060T	597.05

Storz Accessories

Storz Cap with Cable

Features:

- suction seal is shipped standard
- supplied with chain/cable
- ABS air bleeder included

Storz Cap	Aluminum New Part #	Old Part #	Price/E
1½"	SC150-NL	SZC150	\$106.40
2"	SC200-NL	SZC200	106.40
2½"	SC250-NL	SZC250	110.20 NEW
3"	SC300-NL	SZC300	151.15
4"	SC400-NL	SZC400	183.75
4" ABS	SC400ABS	SZC400ABS	210.00 NEW
5"	SC500-NL	SZC500	257.25
5" ABS	SC500ABS	SZC500ABS	285.00 NEW
6"	SC600-NL	SZC600	416.25



Storz Gaskets

Features:

- Buna-N
- Gasket faces should be kept free of sand, grit, etc. and lubricated with O-ring grease or silicone.
- pressure seals have a flat face
- suction seals have a beaded face



Storz Size	Pressure New Part #	Old Part #	Price/E	Suction New Part #	Old Part #	Price/E
1½"	SGP150-NL	SZG150P	\$11.85	SGS150-NL	SZG150S	\$14.35
2"	SGP200-NL	SZG200P	12.05	SGS200-NL	SZG200S	12.05
2½"	SGP250-NL	SZG250P	12.05	SGS250-NL	SZG250S	18.75
3"	SGP300-NL	SZG300P	14.50	SGS300-NL	SZG300S	19.50
4"	SGP400-NL	SZG400P	23.10	SGS400-NL	SZG400S	45.00
5"	SGP500-NL	SZG500P	28.75	SGS500-NL	SZG500S	50.85
6"	SGP600-NL	SZG600P	106.20	SGS600-NL	SZG600S	106.20 NEW



pressure seal (black)



suction seal (black)

Storz Locking Device




Description	Cast Aluminum Part #	Price/E
metal locking device for 4" and 5" storz heads with spring, screw and washer	LOCKINGDEVICE	\$30.00



Caps with Chain

Features:

- pin lug
- *NOT intended for pressure applications - for protection only* 
- finish: -C polished chrome plated




pin lug style

Size	Thread	Cast Brass Part #	Powhatan Part #	Price/E
1"	NST (NH)	RFC100F ¹	17-126-00026	\$45.10
1½"	NST (NH)	FC150F	17-126-00038	21.40
1½"	NST (NH)	FC150F-C	17-126-00037	28.75
1½"	NST (NH)	RFC150F ¹	17-126-00055	23.50
2½"	NST (NH)	FC250F	17-126-00303	32.00
2½"	NST (NH)	FC250F-C	17-126-00085	40.70
2½"	NST (NH)	RFC250F ¹	17-126-00303	33.40
3"	NST (NH)	FC300F	17-126-00315	149.00
4"	NST (NH)	FC400F	17-126-00339	195.45
4½"	NST (NH)	FC450F	17-126-00350	195.45
6"	NST (NH)	FC600F	17-126-00364	294.40
¾"	NPSH	RFC075 ¹	17-126-00015	37.70
1"	NPSH	RFC100 ¹	17-126-01303	45.10
1½"	NPSH	FC150	17-126-00034	24.45
2½"	NPSH	FC250	17-126-00183	38.00
3"	NPSH	FC300	17-126-00312	149.00
6"	NPSH	FC600	17-126-00365	294.40

¹ rocker lug

Plugs with Chain

Features:

- pin lug
- *NOT intended for pressure applications - for protection only* 
- finish: -C polished chrome plated



pin lug style

Size	Thread	Cast Brass Part #	Powhatan Part #	Price/E
1½"	NST (NH)	FP150F	17-127-00008	\$38.90
2½"	NST (NH)	FP250F	17-127-00147	55.40
2½"	NST (NH)	FP250F-C	17-127-00027	68.50
2½"	NST (NH)	RFP250F ¹	17-127-00218	110.40
3"	NST (NH)	FP300F	17-127-00225	91.40
1½"	NPSH	FP150	17-127-00005	38.90
2½"	NPSH	FP250	17-127-00149	61.30

¹ rocker lug

Caps with Cable

Rocker Lug

Features:

- material: seamless aluminum extrusion, hardcoat anodized
- supplied with aircraft cable (coated)
- Other configurations are available. Consult the factory for pricing and availability. Not all configurations are stocked.

Thread NST (NH)	Aluminum New Part #	Old Part #	Price/E
1"	CAP100F-C	AFC100F	\$29.85
1½"	CAP150F-C	AFC150F	34.25
2"	CAP200F-C	AFC200F	42.25
2½"	CAP250F-C	AFC250F	52.70
3"	CAP300F-C	AFC300F	80.45
4"	CAP400F-C	AFC400F	141.40
4½"	CAP450F-C	AFC450F	163.75
5"	CAP500F-C	AFC500F	240.00
6"	CAP600F-C	AFC600F	297.35



1" cap with rocker lug

Thread NPSH	Aluminum New Part #	Old Part #	Price/E
1"	CAP100S-C	AFC100	\$29.85
1½"	CAP150S-C	AFC150	34.25
2"	CAP200S-C	AFC200	42.25
2½"	CAP250S-C	AFC250	52.70



1½" - 6" cap with rocker lug

Feature:

- material: forged aluminum, hardcoat anodized

Size	Thread	Forged Aluminum Part #	Wt. Lbs.	Price/E
1½"	NPSH	F-AFC150	0.15	\$28.00
2½"	NPSH	F-AFC250	0.25	41.50
1½"	NST	F-AFC150F	0.50	28.00
2½"	NST	F-AFC250F	0.70	41.50



1½" and 2½" cap with chain

Long Handle

Feature:

- material: hardcoat anodized aluminum

Thread NST (NH)	Aluminum Part #	Wt. Lbs.	Price/E
4"	ALHC400F	2.72	\$250.00
4½"	ALHC450F	3.00	295.00
6"	ALHC600F	3.62	399.00



NEW
FOR 2013

Caps with Cable

Test Caps

Features:

- material: seamless aluminum extrusion, hardcoat anodized
- specify drill/tap requirements
- specify threads required



Size	Aluminum Part #	Price/E
1"	CAP100_ABS	POR
1½"	CAP150_ABS	POR
2"	CAP200_ABS	POR
2½"	CAP250_ABS	POR
3"	CAP300_ABS	POR
3½"	CAP350_ABS	POR
4"	CAP400_ABS	POR
4½"	CAP450_ABS	POR
5"	CAP500_ABS	POR
6"	CAP600_ABS	POR

NEW
FOR 2013

Plugs with Cable

Features:

- material: seamless aluminum extrusion, hardcoat anodized
- rocker lug



Thread NH (NST)	Aluminum New Part #	Old Part #	Price/E
1½"	PLUG150F-C	AFP150F	\$57.50
2½"	PLUG250F-C	AFP250F	79.00
3"	PLUG300F-C	AFP300F	83.15
4"	PLUG400F-C	AFP400F	154.45
4½"	PLUG450F-C	AFP450F	229.70
5"	PLUG500F-C	AFP500F	232.00
6"	PLUG600F-C	AFP600F	315.50

Thread NPSH	Aluminum New Part #	Old Part #	Price/E
1½"	PLUG150-C	AFP150	\$57.50
2½"	PLUG250-C	AFP250	79.00

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Polycarbonate Hydrant Caps

Features:

- 1-1/8" pentagonal nut with weep hole
- chain included
- yellow polycarbonate

Thread NST (NH)	Polycarbonate Part #	Price/E
4 1/2"	PFCW450F-Y	\$45.25



Feature:

- 1-1/8" pentagonal nut with weep hole

Thread NST (NH)	Polycarbonate Part #	Price/E
2 1/2"	PFCW250F-Y	\$11.40
4"	PFCW400F-Y	15.85



Polycarbonate FDC Plug

Features:

- fits standard 2 1/2" NST female swivel
- withstands wide range of temperatures from -4°F to 200°F
- 1-1/8" pentagonal nut with weep hole to allow for drainage
- removes from FDC with adjustable hydrant wrench
- red polycarbonate

Thread NST (NH)	Polycarbonate Part #	Price/E
2 1/2"	PP250F	\$12.00




Polycarbonate Caps with Chain

Application:

- Used on valves and hydrants to prevent entry of foreign material, also protects male outlet threads.

Features:

- red finish
- **NOT** intended to be pressurized 

Size	Thread	Polycarbonate Part #	Price/E
1 1/2"	NST (NH)	PFCW150F	\$15.10
2 1/2"	NST (NH)	PFCW250F	15.95
3"	NST (NH)	PFCW300F	29.70
1 1/2"	NPSH	PFCW150	15.10
2"	NPSH	PFCW200	22.15



Features:

- red finish
- can be pressurized to **300 PSI**

Size	Thread	Polycarbonate Part #	Price/E	Opt Qty
2 1/2"	NST (NH)	PFC250F	\$39.00	25



Polycarbonate Breakable Cap


Application:

- Used on pin lug fire department inlet connections to prevent entry of foreign material, also protects female threads.

Features:

- molded red thermoplastic
- used on pin lug females

Size	Polycarbonate Part #	Price/E
2½"	PBC250	\$8.00

Polycarbonate Adjust-A-Plug


Features:

- molded red polycarbonate protective plug for swivel connections up to 2½"
- Two adjustable metal plates installed in back of the plug can be mated with your local thread.
- The plug can be easily removed with a fire department spanner wrench.

Polycarbonate Part #	Price/E
PAP250	\$8.00

Universal Hose Cap


Features:

- protects threads by gripping the valve or outlet on the inside of the waterway
- **NOT** intended to be pressurized 
- red polycarbonate

Size	Polycarbonate Part #	Price/E
2½"	PFC250U	\$19.00

O

Aluminum Breakable Cap


Features:

- for use on fire department inlet connections
- prevents entry of foreign matter and protects female threads
- breakable ears feature permits fast hose connection
- two eyebolts with nuts for attachment to female pin lug swivel
- painted red finish

Size	Aluminum Part #	Price/E
2½"	ABC250	\$10.35

Industrial Fog Nozzles



Features:

- shut off - straight stream - fog
- delivers 30° - 60° - 90° fog pattern
- supplied with bumper
- Underwriters Listed and Factory Mutual approved for Class A and B fires (except noted sizes)
- for use up to **175 PSI (water only)** at ambient temperature (70°F)

Size	Thread	90° Spray GPM @ 100 PSI	Brass Part #	Price/E
3/4"	GHT	---	BFN75GHT ¹	\$186.30
3/4"	NPSH	---	BFN75	186.30
1"	NPSH	36	BFN100	221.80
1 1/2"	NPSH	85	BFN150	144.75
2"	NPSH	108	BFN200 ¹	334.35
1"	NST (NH)	36	BFN100NST	221.80
1 1/2"	NST (NH)	85	BFN150NST	144.75
2 1/2"	NST (NH)	205	BFN250NST ¹	309.00

¹ not Factory Mutual approved



Heavy Duty Industrial Fog Nozzles



Features:

- shut off - straight stream - fog
- delivers 30° - 60° - 90° fog pattern
- supplied with bumper
- Underwriters Listed and Factory Mutual approved
- for use up to **175 PSI (water only)** at ambient temperature (70°F)

Size	Thread	90° Spray GPM @ 100 PSI	Brass Part #	Price/E
1"	NPSH	---	HFN100	\$212.40
1 1/2"	NPSH	88 (+/-12)	HFN150	179.00
1"	NST (NH)	---	HFN100NST	212.40
1 1/2"	NST (NH)	88 (+/-12)	HFN150NST	179.00



Higher Pressure Industrial Fog Nozzles



Features:

- shut off - straight stream - fog
- large one-piece rubber bumper with molded teeth
- knurled base
- Factory Mutual approved
- operating pressure from **25 PSI to 300 PSI (water only)** at ambient temperature (70°F)

Size	Thread	90° Spray GPM @ 100 PSI	Brass Part #	Price/E
1 1/2"	NPSH	117	HPFN150	\$224.40
1 1/2"	NST (NH)	117	HPFN150NST	224.40



Industrial Washdown Nozzles

Features:

- shut off - straight stream - fog
- delivers 30° - 60° - 90° fog pattern
- supplied with bumper
- for use up to **100 PSI (water only)** at ambient temperature (70°F)

Size	Thread	90° Spray GPM @ 100 PSI	Brass Part #	Price/E
1 1/2"	NPSH	88 (+/-12)	WDN150	\$74.25
1 1/2"	NST (NH)	88 (+/-12)	WDN150NST	74.25





Electrical All-Fog Nozzle



Features:

- no straight stream
- from shut off to 30° fog, adjustable thru 90° fog
- supplied with bumper
- Underwriters Listed for Class C fires and Factory Mutual approved
- for use up to **175 PSI** (water only) at ambient temperature (70°F)
- Nozzle should be used in excess of 10 ft. from electrical apparatus and circuits not involving more than 250,000 volts.



Size	Thread	90° Spray GPM @ 100 PSI	Brass Part #	Price/E
1½"	NST (NH)	90	BFNE150NST	\$234.30



Domestic Rack Nozzle



Features:

- shut off - straight stream - fog
- delivers 30° - 60° - 90° fog pattern
- supplied without bumper
- Underwriters Listed for Class A and B fires
- Factory Mutual approved
- for use up to **100 PSI** (water only) at ambient temperature (70°F)

Size	Thread	90° Spray GPM @ 100 PSI	Brass Part #	Price/E
1½"	NST (NH)	80	BRN150NST	\$152.60



Global Rack Nozzle



Features:

- shutoff - straight stream - fog
- delivers 30° - 60° - 90° fog pattern
- supplied without bumper
- Underwriters Listed for Class A and B fires
- Factory Mutual approved
- for use up to **100 PSI** (water only) at ambient temperature (70°F)

Size	Thread	90° Spray GPM @ 100 PSI	Brass Part #	Price/E
1½"	NST (NH)	80	BRN150NST-I	\$86.40

Plain Hose Nozzles



Features:

- brass with satin finish
- operating pressure up to **100 PSI** (water only) at ambient temperature (70°F)

Size	Thread	Length	Orifice	Brass Part #	Price/E
¾"	GHT	6"	1/4"	BN6	\$41.75
¾"	NPSH	6"	1/4"	BN7	41.75
1"	NPSH	8"	5/16"	BN10	48.40
1¼"	NPSH	10"	3/8"	BN12	73.00
1½"	NPSH	10"	1/2"	BN15	59.40
2"	NPSH	12"	9/16"	BN20	106.40
2½"	NPSH	12"	1"	BN25	153.10
1"	NST (NH)	8"	5/16"	BN10F	48.40
1½"	NST (NH)	10"	1/2"	BN15F	59.40
2½"	NST (NH)	12"	1"	BN25F	153.10

U.S. Coast Guard Approved AFFF/Water Fog Nozzles

Application:

- Designed for maximum efficiency with AFFF (Aqueous Film Forming Foams) or water on shipboard, offshore rigs and industrial applications.

Features:

- corrosion resistant brass construction
- rubber-like bumper and handle for added protection
- Zytel® (nylon) horseshoe handle
- flush without shutting down
- combination fog and straight stream
- constant gallonage in all fog and straight stream pattern
- double row of molded teeth for excellent fog pattern
- operating pressure up to **100 PSI** (*water and AFFF only*) at ambient temperature (70°F)



CGSN150F

CGSN151F

Size	Thread	Length	Fog Flow @ 100 PSI	Orifice	Length	Weight	Approval #	Brass Part #	Price/E
1½"	NST(NH)	nozzle	95 GPM	5/8"	10¼"	9 lbs.	162.027/13/0	CGSN150F	\$1704.00
1½"	NST(NH)	nozzle w/pistol grip	95 GPM	15/16"	11½"	14.5 lbs.	162.027/11/0	CGSN151F	1869.00

U.S. Coast Guard Approved Fog Nozzles

Features:

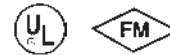
- designed to U.S. Coast Guard specification for fighting fires with drafted water
- required equipment for all commercial vessels under U.S. registry
- corrosion resistant brass construction
- combination fog and straight stream for shipboard fire fighting
- operating pressure up to **100 PSI** (*water only*) at ambient temperature (70°F)
- Applicators are available on special order. Consult the factory for pricing and availability.



Size	Thread	Fog Flow @100 PSI	Approval #	Brass Part #	Price/E
1½"	NST(NH)	55 GPM	162.027/9/0	CGN150NST	\$1766.00
2½"	NST(NH)	108 GPM	162.027/10/0	CGN250NST	2086.00

Size	Description	Brass Part #	Price/E
1½"	replacement tip	CGN150-TIP	\$358.00
2½"	replacement tip	CGN250-TIP	410.00

U/L Play Pipe with Tip



Features:

- often required in hydrant houses by Insurance Underwriters
- swivel handle, red marlin trim
- for use up to **100 PSI** (*water only*) at ambient temp. (70°F)
- Underwriters Listed and Factory Mutual approved
- ULT male thread specification: 2-3/16" ODM x 12 TPI



Size	Female Inlet	Male Outlet	Orifice	Brass Part #	Price/E
2½"	NST (NH)	ULT	1-1/8"	UPP250F	\$718.35

Tip for U/L Play Pipe

Features:

- satin finish
- for use up to **100 PSI** (*water only*) at ambient temp. (70°F)
- ULT male thread specification: 2-3/16" ODM x 12 TPI

Thread	Orifice	Cast Brass	
		Part #	Price/E
ULT	1-1/8"	UPPT	\$78.25
ULT	1-1/4"	UPPT125	120.00
ULT	1-1/2"	UPPT150	120.00
ULT	1-3/4"	UPPT175	135.00



NEW
FOR 2013

Primator 3000 Monitor



Features:

- 4 bolt hole pattern on flange
- 360° horizontal and 160° vertical travel
- other configurations available

Inlet Configuration	Outlet	Waterway	Flow	Weight	Aluminum Part #	Price/E
3" flange	2½" male NST	3"	800 GPM	28 lbs.	PKF16646-300FL	\$4545.00

Monitor Nozzle



Features:

- spinning teeth
- swivel nut
- operating pressure: **100 PSI** (water only) at ambient temperature (70°F)
- 200, 500, 800 GPM at 100 PSI

Size	Thread	Weight	Anodized Aluminum Part #	Price/E
2½"	NST	10 lbs.	PKF0186NST	\$2785.00

Steel FirePro™ Monitor



Features:

- stainless steel discharge tip and ball bearings
- red epoxy finish standard
- 150# ASA raised face 4" flange
- 360° horizontal and 140° vertical travel
- seamless 2½" monitor - rated at 750 GPM
- Factory Mutual approved

Size	Inlet Configuration	Outlet	Waterway	Flow	Weight	Carbon Steel Part #	Price/E
22" x 13"	4" flange	2½" male NST	2½"	750 GPM	50 lbs.	FP475S	\$3400.00

Master Stream Nozzles



Features:

- factory set at 500 GPM
- a straight stream to fog 'quick throw' pattern change
- constant gallonage
- Factory Mutual approved

Size	Thread	Material	Weight	Part #	Price/E
2½"	NST	brass	19 lbs.	FP500B	\$2470.00
2½"	NST	aluminum	---	FP500A	2055.00

Polycarbonate **Constant Flow** Fog Nozzles



Features:

- red polycarbonate body with rubber bumper, black plastic and steel stem
- shutoff - straight stream - fog
- provides consistent volume at any spray angle
- 1" and 1½" are Underwriters Listed Canada
- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)
- replacement gaskets available below

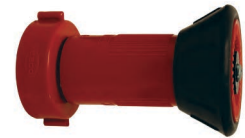
Size	Thread	90° Spray GPM @ 100 PSI	Part #	Price/E
¾"	GHT	8	CFB75GHT ⁴	\$32.65
1"	NPSH	22	CFB100S	32.70
1½"	NPSH	75	CFB150S ¹	28.05
1½"	NPSH	150	HGCFB150S ²	98.20
2"	NPSH	75	CFB2015S ^{1,4}	63.85
2"	NPSH	150	CFB200S ^{2,4}	89.60
1"	NST (NH)	22	CFB100NST	32.70
1½"	NST (NH)	75	CFB150NST ¹	28.05
1½"	NST (NH)	150	HGCFB150NST ²	98.20
2½"	NST (NH)	150	CFB250NST ^{3,4}	182.00
2½"	NST (NH)	215	HGCFB250NST ^{2,4}	225.25

¹ standard flow
² high flow

³ provided with handles
⁴ not U/L listed



2½" provided with handles
on CFB250NST



1" through 2"

Blue Polycarbonate Refinery Fog Nozzles

Features:

- blue nylon glass-filled body with rubber bumper and black plastic and steel stem
- resistant to petrochemicals
- shutoff - straight stream - fog
- provides consistent volume at any spray angle
- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)
- replacement gaskets available below

Size	Thread	90° Spray GPM @ 100 PSI	Part #	Price/E
1½"	NPSH	75	RNB150S	\$34.50
1½"	NST (NH)	75	RNB150NST	34.50



Gaskets

Features:

- for use in Constant Flow Fog Nozzles and Refinery Fog Nozzles above
- *all dimensions are nominal*

Size	Thread Type	Dimensions			Buna -N	
		ID	OD	Thickness	Part #	Price/E
1"	NPSH	.900"	1.270"	.125"	CFG100S	\$2.60
1½"	NPSH	1.510"	1.878"	.125"	CFG150S	2.65
2"	NPSH	1.680"	2.340"	.156"	CFG200S	2.80
1"	NST (NH)	.900"	1.270"	.125"	CFG100NST	2.60
1½"	NST (NH)	1.510"	1.906"	.125"	CFG150NST	2.65
2½"	NST (NH)	2.250"	3.000"	.187"	CFG250NST	2.95



Heavy Duty **Constant Flow** Fog Nozzles

NEW
FOR 2013

Size	Thread	GPM @ 100 PSI	Fiberglass Part #	Price/E
1½"	NPSH	95	CFFR150	\$117.00
1½"	NST	95	CFFR150NST	117.00



Polycarbonate Fog Nozzles

Features:

- red polycarbonate body with brass stem
- adjusts from shutoff-straight stream-fog
- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)



3/4"



1" - 1 1/2"

Size	Thread	90° spray GPM @ 100 PSI	Polycarbonate Part # with Bumper		Polycarbonate Part # without Bumper	
			Part #	Price/E	Part #	Price/E
3/4"	GHT	**	FNB75GHT	\$40.80	---	---
3/4"	NPS	30.9	FNB75S	40.80	---	---
1"	NPS	11.4	FNB100S	48.50	FN100S	\$48.35
1"	NPS	30.9	HGB100S	63.25	---	---
1 1/2"	NPS	83.6	FNB150S	45.35	FN150S	41.50
1"	NST (NH)	11.4	FNB100NST	48.50	FN100NST	48.35
1"	NST (NH)	30.9	HGB100NST	63.25	---	---
1 1/2"	NST (NH)	83.6	FNB150NST	45.35	FN150NST	41.50

** 3/4" GHT discharge @ 100 PSI:
solid stream 20 GPM
45° spray 25.1 GPM
120° spray 30.9 GPM

Polycarbonate Fog Nozzles

Features:

- brass stem and locking nut
- adjusts from shutoff-straight stream-fog
- wings on sleeve for ease of adjustment
- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)
- SL series nozzles are Factory Mutual approved



Global

Size	Thread	90° spray GPM @ 100 PSI	Polycarbonate Body Part # with Bumper		Polycarbonate Body Part # with Bumper	
			Part #	Price/E	Part #	Price/E
3/4"	NPSH	30.9 ¹	SL075	\$49.15	---	---
3/4"	GHT	30.9 ¹	SL075GHT	49.15	---	---
1"	NPSH	30.9 ¹	SL100	52.40	PFNB100S	\$20.05
1 1/2"	NPSH	75	SL150	70.45	PFNB150S	28.50
1 1/2"	NST (NH)	75	SL150NST	70.45	PFNB150NST	28.50

¹ 120° spray on 3/4" and 1"

Polycarbonate Fog Nozzles for Electrical Fires

Features:

- brass stem
- *no straight stream*
- opens and closes in a 30° fog pattern - up to 120°



Size	Thread	75° spray GPM @ 100 PSI	Polycarbonate Part # with Bumper	Price/E
1 1/2"	NPS	75	FNBE150S	\$46.10
1 1/2"	NST (NH)	75	FNBE150NST	46.10

Gaskets for Fog Nozzles

- *all dimensions are nominal*



Size	Thread	Dimensions			Buna-N	
		ID	OD	Thickness	Part #	Price/E
1"	NPS	.937"	1.234"	.125"	FNG100S	\$4.25
1"	NPS	1.000"	1.375"	.125"	HGG100S	4.50
1 1/2"	NPS	1.500"	1.828"	.125"	FNG150S	3.20
1"	NST (NH)	.937"	1.281"	.125"	FNG100NST	4.25
1"	NST (NH)	1.000"	1.375"	.125"	HGG100NST	4.50
1 1/2"	NST (NH)	1.500"	1.906"	.125"	FNG150NST	3.20

Ball Shut-Off Nozzles - Bolted Style

Features:

- lightweight cast aluminum body with pistol grip
- hardcoated female swivel inlet and male outlet
- maximum operating pressure to **200 PSI** (*water only*) at ambient temperature (70°F)

Size	Thread	Waterway	Aluminum Part #	Price/E
1½" female NST (NH)	1½" male NST (NH)	1-3/8"	ACPSO150F	\$355.00
1½" female NPSH	1½" male NPSH	1-3/8"	ACPSO150S	355.00 NEW



Tip for Ball Shut-Off Nozzles

Features:

- lightweight anodized aluminum construction
- for use up to **200 PSI** (*water only*) at ambient temperature (70°F)

Size	Thread	Orifice ¹	Length	Aluminum Part #	Price/E
1"	NST (NH)	½"	4"	ANT100F	\$235.00
1½"	NST (NH)	½"	4¾"	ANT150F	235.00



¹ other orifice sizes available

Ball Shut-Off Nozzle

Features:

- Full time swivel base ensures the durable rubber-like handle is positioned for easy operation.
- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)

Base Thread	Tip Thread	Waterway	Length	Cast Brass Part #	Price/E
1½" NST (NH)	1½" NST (NH)	1-3/8"	4¾"	BSO150NST	\$1025.30
	Zytel® replacement handle			BSO150-H	75.25



Nozzle Tips

Features:

- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)
- straight stream only
- satin finish

Size	Thread	GPM @ 100 PSI	Orifice	Length	Brass Dixon Part #	Price/E
1"	NST (NH)	74	½"	4-3/4"	BNT100F	\$154.15
1½"	NST (NH)	74	½"	4-3/8"	BNT150F	181.15



Street Cleaning Nozzles

Features:

- nozzle delivers a flat, centered spray pattern for flushing or street cleaning apparatus
- length: 6¾", width: 8½"
- for use up to **100 PSI** (*water only*)
- flows 300 GPM @ 100 PSI

Thread	Direction	Brass Part #	Wt. in Lbs.	Price/E
2½" NPSH	center	BFSCN250C	8.5	\$1266.55
2½" NPSH	left	BFSCN250L	8.5	1266.55
2½" NPSH	right	BFSCN250R	8.5	1266.55



NEW
FOR 2013

Turbokador Selectable Gallonage Nozzles

**Features:**

- NFPA 1964 compliant
- durable, lightweight nozzle with selectable gallonage
- double ball bearing swivel
- built-in stream shaper / strainer
- easily changed from straight stream to narrow fog to wide angle fog to flush without having to shut down
- **glycol-compatible seal for de-icing applications**
- comes standard with black bumper guard and black pistol grip (colors optional)

Size	Thread	GPM	Wt. in Lbs.	Part #	Price/E
1½"	NST (NH)	10-20-25-40	3.0	PKF18372NST-LT	\$1281.00
1½"	NPSH	10-20-25-40	3.0	PKF18372NPSH-LT	1281.00
1½"	NST (NH)	10-20-25-40	4.4	PKF2310NST	1397.00
1½"	NPSH	10-20-25-40	4.4	PKF2310NPSH	1397.00
1½"	NST (NH)	30-60-95-125	5.3	PKF8370NST	1708.00
1½"	NPSH	30-60-95-125	5.3	PKF8370NPSH	1708.00
1½"	NST	95-125-150-200	9.9	PKF10648NST	2430.00

NEW
FOR 2013

Tornadomatic Automatic Gallonage Nozzles

**Features:**

- NFPA 1964 compliant
- durable, lightweight nozzle with automatic gallonage
- built-in stream shaper / strainer
- easily changed from straight stream to narrow fog to wide angle fog to flush without having to shut down
- comes standard with orange bumper guard and black pistol grip (color grips optional)

Size	Thread	GPM	Wt. in Lbs.	Part #	Price/E
1½"	NST	10-40	3.0	PKF19647NST-LT	\$1150.00
1½"	NST	10-40	4.4	PKF2316NST	1159.00
1½"	NPSH	10-40	4.4	PKF2316NPSH	1159.00
1½"	NST	40-130	5.2	PKF7674NST	1281.00
1½"	NPSH	40-130	5.2	PKF7674NPSH	1281.00

NEW
FOR 2013

Turbokador Tip (for PKF8370 nozzles)

**Features:**

- 30-60-95-125 GPM @ 100 PSI
- can be used with shut-offs or directly onto hose

Size	Thread	GPM at 75 PSI	Wt. in Lbs.	Part #	Price/E
1½"	NST	125	3.3	PKF18617NST	1098.00
1½"	NPSH	125	3.3	PKF18617NPSH	1098.00

Pokador Constant Gallonage Nozzles

NEW
FOR 2013

Features:

- NFPA 1964 compliant
- durable, lightweight nozzle with constant gallonage
- built-in stream shaper / strainer
- easily changed from straight stream to narrow fog to wide angle fog to flush without having to shut down
- comes standard with blue bumper guard and black pistol grip (color grips optional)

Size	Thread	GPM at 100 PSI	Wt. in Lbs.	Part #	Price/E
1½"	NST	125	3.0	<i>PKF19652NST-LT</i>	\$1281.00
1½"	NST	125	5.2	<i>PKF3567NST</i>	1281.00
1½"	NPSH	125	5.2	<i>PKF3567NPSH</i>	1281.00
1½"	NST	150	5.2	<i>PKF3566NST</i>	1354.00
1½"	NPSH	150	5.2	<i>PKF3566NPSH</i>	1354.00



Pokador Constant Low Pressure Gallonage Nozzles

NEW
FOR 2013

Features:

- NFPA 1964 compliant
- durable, lightweight nozzle with low pressure constant gallonage
- built-in stream shaper / strainer
- easily changed from straight stream to narrow fog to wide angle fog to flush without having to shut down
- comes standard with blue bumper guard and black pistol grip (color grips are optional)

Size	Thread	GPM at 75 PSI	Wt. in Lbs.	Part #	Price/E
1½"	NST	125	5.2	<i>PKF8929NST</i>	\$1281.00
1½"	NPSH	125	5.2	<i>PKF8929NPSH</i>	1281.00


 shown with optional blue color grip
and handle covers

NEW
FOR 2013

Nozzle Accessories

Replacement Balls



Description	Part #	Price/E
replacement ball for 40 GPM and 125 GPM nozzles	PKF14892	\$96.10
replacement ball for 200 GPM and 250 GPM nozzles	PKF2410	45.00

Replacement Spinning Teeth



Description	Part #	Price/E
replacement spinning teeth for 40 GPM nozzle	PKF0149	\$12.50
replacement spinning teeth for 125 GPM nozzle	PKF2448	12.25

Replacement Gaskets



Description	Nitrile Part #	Price/E
replacement gasket for waterway ball, 40 GPM or 125 GPM	PKF2385	\$9.00
replacement gasket for waterway ball, 200 GPM	PKF17098	12.90

Replacement Operating Handles



Description	Aluminum Part #	Price/E
replacement operating handle for 40 GPM and 125 GPM nozzles	PKF25470	\$122.00

Replacement Pistol Grips



Description	Part #	Price/E
black replacement pistol grip	PKF24161	\$64.50
blue replacement pistol grip	PKF9633	64.50
orange replacement pistol grip	PKF9569	64.50
yellow replacement pistol grip	PKF9568	64.50
red replacement pistol grip	PKF9571	64.50

Replacement Handle Covers



Description	Part #	Price/E
black replacement horseshoe handle cover	PKF13689	\$64.50
blue replacement horseshoe handle cover	PKF13680	64.50
orange replacement horseshoe handle cover	PKF13684	64.50
yellow replacement horseshoe handle cover	PKF13683	64.50

Replacement Undercovers



Description	Part #	Price/E
replacement black under cover for Pok nozzles	PKF23303	\$37.50
replacement blue under cover for Pok nozzles	PKF23304	37.50
replacement orange under cover for Pok nozzles	PKF23299	37.50
replacement yellow under cover for Pok nozzles	PKF23298	37.50

Spanner and Hydrant Wrenches

Universal Spanner Wrench

Features:

- for 3/4" to 3" pin lug and rocker lug couplings
- includes gas cock shutoff, pry bar and belt hook eye
- overall length 11-7/8"

Aluminum Part #	Price/E	Pkg Qty	Wt. (lbs)
USW	\$24.20	25	.62



Universal Wrench

Features:

- for pin lug or rocker lug couplings 1" - 4½"
- a gas cock shutoff is provided in the handle
- red epoxy painted
- overall length 11¾"

Iron Part #	Price/E	Wt. (lbs)
233	\$43.20	1.16



Hole Type Spanner Wrench

Features:

- designed for use on ¾" and 1" booster hose couplings
- overall length is 7½"

AL-MAG 35 Part #	Price/E	Wt. (lbs)
HTSW	\$31.65	.20



Storz Hydrant Wrench

Features:

- ductile iron head
- knurled chrome plated handle
- manganese bronze adjustable jaw
- fits 4" and 5" Storz
- includes adjustable hydrant nut wrench

Part #	Price/E	Wt. (lbs)
SAHW	\$100.00	6



Folding Pocket Spanner Wrenches

Features:

- for pentagon nuts up to 1¾"
- built-in spanner for pin or rocker lug couplings
- overall length 16¼"

Material	Part #	Price / E	Wt. (lbs)
aluminum	PSW	\$40.90	.30
brass	PSW-B	149.35	.72
die cast zinc	PSW-Z	41.35	.56
yellow plastic	PSW-Y	80.50	.27



Adjustable Hydrant Wrench

Features:

- a compact wrench easily carried in your jacket pocket
- designed to fit ¾" to 3" rocker lug and pin lug couplings

Part #	Price/E	Pkg Qty	Wt. (lbs)
AHW	\$38.50	20	2.7



Spanner and Hydrant Wrenches

Pigtail Adjustable Hydrant Wrench

Features:

- double spanner head fits pin lug or rocker (sensible) lug couplings, pentagon nuts up to 1½" from point to flat, 1½" - 6" rocker lug caps, 2" - 4½" pin lug caps, and square nuts up to 1-1/8"



Part #	Price/E	Wt. (lbs)
AHWPT	\$69.25	4.5

Heavy Duty Adjustable Hydrant Wrench

Features:

- plated iron head, 7/8" plated steel handle
- for pentagon hydrant nuts up to 1¾" from point to flat
- notched to fit 1¼" square hydrant nut
- spanner for pin lug and sensible (rocker) lug couplings, 1½" thru 6"
- overall length 18"



Part #	Price/E	Pkg Qty	Wt. (lbs)
189	\$38.70	15	4.7

Double Head Adjustable Hydrant Wrench

Features:

- for pentagon hydrant nuts up to 1-7/8" and square heads up to 1½"
- fits ¾" - 6" rocker lug or pin lug couplings, can also be used for long handle couplings
- ductile iron head with a deeply knurled chrome plated steel handle
- replaceable adjustable jaw is made of manganese bronze
- overall length 19½"



Part #	Price/E	Wt. (lbs)
189DH	\$86.25	5

5 Hole Hydrant Wrench

Features:

- 5 pentagon holes designed to fit common hydrant nut sizes
- built-in spanner for pin or rocker lug couplings
- overall length: 14¼"



Plated Iron Part #	Price/E	Pkg Qty	Wt. (lbs)
PHW	\$24.00	25	1.94

Grip-All Spanner Wrench

Features:

- fits ¾" - 6" split lug, rocker lug and pin lug couplings
- can be operated in tight quarters
- A gas cock shutoff is provided in the handle. Handle is shaped to fit your hand allowing a positive grip on the coupling.



Aluminum Part #	Price/E	Wt. (lbs)
GAW	\$66.30	.52

Long Handle Suction Spanner Wrench

Features:

- use on long handle, rocker lug, or pin lug couplings from 2½" - 6"
- open end slips over long handles for additional leverage, the claw fits rocker lugs or pin lugs, the other end can be used as a pry or crowbar
- inverted "T" body construction for lighter weight and improved strength
- can be used on Dixon's cam and groove pin lug or trapezoidal lug tank car adapters or 8" pin lug couplings
- overall length 18¾"



Plated Iron Part #	Price/E	Wt. (lbs)
LHW	\$372.00	3.25

Additional spanner wrenches on page 275

Storz Wrenches

NEW
FOR 2013

Pin Lug Spanner Wrenches - Single End

Size	Plated Iron Part #	Price/E
1½"	SW15	\$9.80
2"	SW20	10.15
2½"	SW25	11.55
3"	SW30	13.25
4"	SW40	13.65
6"	SW60	84.85



Storz Spanner Wrench - Single End

Features:

- SW1530 fits 1½" - 3" Storz
- SZW2 for use on 4" and 5" Storz

New Part #	Old Part #	Material	Wt. Lbs.	Price/E
SW1530	SZW1	AL-MAG 35	1	\$46.50
SZW2	---	AL-MAG 35	1	58.15



Storz Spanner Wrenches - Double End

Size	Material	New Part #	Old Part #	Price/E
2" - 5"	aluminum	SZW2-NL	DSZW2	\$58.00
2" - 5"	steel	SW-S400	DSZW2-S	91.50



SZW2-NL



SW-S400

Wrench Holder for Storz Spanner Wrenches

Feature:

- designed to hold two SZW2 wrenches

Holder Only

Aluminum Dixon Part #	Northline Part #	Price/E
AWH2SZ	SWB	\$60.00



O

Holder with (2) Wrenches - Double Ended

Part #	Description	Price/E
SWB-2	2 Storz aluminum wrenches (2½" - 5") with bracket	\$145.00
SWB-S-2	2 Storz steel wrenches (2½" - 5") with bracket	165.00
SWB-S-4	4 Storz steel wrenches (2½" - 5") with bracket	275.00

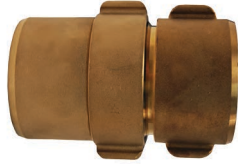


Expansion Ring Fire Hose Couplings

Features:

- special tooling is required to attach these couplings to hose (see page 538 for machine)
- All couplings come complete with expansion rings, swivel and tail washers.
- For females only, use 2/3 set price. For males only, use 1/2 set price. Both shipped from the factory only.
- aluminum expansion ring couplings have 3 rocker lugs on the male and female

Brass Rocker Lug



Complete Set

Rack Hose (no lugs on male)

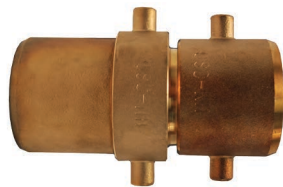
Size	Thread	Bowl	Brass Part #	Price/E
1½"	NPSH	1-11/16"	RRH15168	\$94.95
1½"	NST (NH)	1-11/16"	RRH15168F	94.95

Single Jacket

Size	Thread	Bowl	Brass Part #	Price/E
1½"	NPSH	1-3/4"	RS15175	\$135.00
1½"	NPSH	1-13/16"	RS15181	135.00
2½"	NPSH	2-13/16"	RS25281	237.00
1½"	NST (NH)	1-3/4"	RS15175F	135.00
1½"	NST (NH)	1-13/16"	RS15181F	135.00
2½"	NST (NH)	2-13/16"	RS25281F	237.00

Double Jacket

Size	Thread	Bowl	Brass Part #	Price/E
1½"	NPSH	1-15/16"	RD15193	\$123.60
1½"	NPSH	2-1/16"	RD15206	123.60
2½"	NPSH	3"	RD253	232.75
1½"	NST (NH)	1-15/16"	RD15193F	123.60
2½"	NST (NH)	3"	RD253F	232.75



Pin Lug

Single Jacket

Size	Thread	Bowl	Brass Part #	Price/E
1½"	NPSH	1-3/4"	S15175	\$159.00
1½"	NPSH	1-13/16"	S15181	123.60
2½"	NPSH	2-13/16"	S25281	254.55
1½"	NST (NH)	1-3/4"	S15175F	159.00
1½"	NST (NH)	1-13/16"	S15181F	123.60
2½"	NST (NH)	2-13/16"	S25281F	254.55

Double Jacket

Size	Thread	Bowl	Brass Part #	Price/E
1½"	NPSH	1-15/16"	D15193	\$123.60
2½"	NPSH	3"	D253	232.75
1½"	NST (NH)	1-15/16"	D15193F	123.60
1½"	NST (NH)	2-1/16"	D15206F	123.60
2½"	NST (NH)	3"	D253F	232.75

Aluminum Rocker Lug



Complete Set

Single Jacket

Size	Thread	Bowl	Aluminum Part #	Price/E
1"	NPSH	1-1/4"	S10125	\$47.25
1½"	NPSH	1-3/4"	S16175	51.50
1½"	NPSH	1-11/16"	S16168	51.50
1½"	NPSH	1-13/16"	S16181	51.50
2"	NPSH	2-1/4"	S20225	90.35
2"	NPSH	2-3/8"	S20375	90.35
2½"	NPSH	2-13/16"	S26281	99.50
1½"	NST (NH)	1-11/16"	S16168F	51.50
1½"	NST (NH)	1-3/4"	S16175F	51.50
1½"	NST (NH)	1-13/16"	S16181F	51.50
2½"	NST (NH)	2-11/16"	S26268F	99.50
2½"	NST (NH)	2-13/16"	S26281F	99.50
1½"	MNPT	1-11/16"	MS16168T¹	43.75
1½"	MNPT	1-3/4"	MS16175T¹	40.25
2"	MNPT	2-1/4"	MS20225T¹	52.15
2½"	MNPT	2-11/16"	MS26268T¹	64.00

¹ male fitting only

Double Jacket

Size	Thread	Bowl	Aluminum Part #	Price/E
1½"	NPSH	1-13/16"	D16181	\$51.50
1½"	NPSH	1-15/16"	D16193	51.50
1½"	NPSH	2-1/16"	D16206	60.50
2"	NPSH	2-5/16"	D20231	89.50
2½"	NPSH	3"	D263	100.00
1½"	NST (NH)	1-13/16"	D16181F	51.50
1½"	NST (NH)	1-15/16"	D16193F	51.50
1½"	NST (NH)	2-1/16"	D16206F	60.50
2½"	NST (NH)	2-7/8"	D26287F	100.00
2½"	NST (NH)	3"	D263F	100.00
1½"	MNPT	1-13/16"	MD16181T¹	40.25
2"	MNPT	2-5/16"	MD20231T¹	52.15
2½"	MNPT	2-7/8"	MD26287T¹	64.00

¹ male fitting only

Fire Hose Coupling Washers

Swivel Washers

ID	OD	Thickness	Buna-N Part #	Price/E
1-1/16"	1-7/16"	1/8"	SW100F	\$2.00
1-9/16"	2-1/16"	1/8"	SW150	2.00
2-9/16"	3-3/16"	3/16"	SW250	3.15
3-1/16"	3-3/4"	1/4"	SW300F	4.80
4-1/6"	5-1/8"	1/4"	SW400F	9.15
4-9/16"	5-7/8"	1/4"	SW450F	10.20
5-3/32"	6-13/32"	1/4"	SW500F	15.15
6-1/16"	7-1/8"	1/4"	SW600F	17.95



Tail Washers

ID	OD	Thickness	Buna-N Part #	Price/E
1-9/16"	1-3/4"	3/16"	RTW150	\$1.90
1-9/16"	1-15/16"	3/16"	STW150	1.80
1-5/8"	2-1/8"	3/16"	DTW150	1.90
2-9/16"	3"	1/4"	STW250	3.20
2-5/8"	3-1/4"	1/4"	DTW250	3.25



Expansion Rings

ID	OD	85/15 red brass Part #	Price/E
1"	1-1/4"	ER10125	\$8.25
1-1/2"	3/4"	ER1575	8.15
1-1/2"	7/8"	ER1587	9.25
1-1/2"	1"	ER1510	9.50
1-1/2"	1-1/4"	ER15125	9.55
1-3/4"	1-1/4"	ER17125	13.05
2-7/16"	1-1/4"	ER27125	17.25
2-7/16"	1-1/2"	ER27150	17.25
3"	2"	ER3020	29.00



Style Brute X-Pander Bench Model

NEW
FOR 2013

Features:

- designed for use by hose manufacturers
- may be used to attach 1" thru 6" couplings
- 3,000 lb pump, 2,500 lb. workable
- 3,450 RPM, 1½ horsepower, single phase, 220 volt motor
- cylinder has 6" stroke, 4" bore, and 38,000 lbs of total thrust
- oil capacity: 9 gallons
- manually set external pressure relief valve
- size: 22" wide x 22" deep x 16" high



Part #	Price/E
Brute2	\$21810.00

Expansion Unit Assemblies

- For a complete list of all available expansion units and sizes contact the factory.

Description	Steel Part #	Price/E
1½"	16154	\$1169.00
2½" (Storz also)	16171	1169.00




Flat Seal Coupling Assemblies

Application:

- Designed for use on lay flat hose and single jacket fire hose with a wall thickness between 5/64" and 3/16".

Features:

- Flat seal couplings are for use with flat seal clamps only.
- brass swivel nut on complete assembly and female assemblies
- maximum recommended torque 40 ft/lbs
- Torque values for clamps are based on dry bolts. The use of lubricants on bolts will adversely effect clamp performance. 



complete assembly



female Flat Seal
NPSM



male Flat Seal
NPSM



male Flat Seal
NPT

Complete Flat Seal Assembly - NPSM

Size	Aluminum Part #	Price/E ¹
1½"	FS150	\$209.00
2½"	FS250	312.00

Female Flat Seal Assembly - NPSM

Size	Aluminum Part #	Price/E ¹
1½"	FSF150	\$168.00
2½"	FSF250	253.00

Male Flat Seal Assembly - NPSM

Size	Aluminum Part #	Price/E ¹
1½"	FSM150	\$131.00
2½"	FSM250	206.00

Complete Flat Seal Assembly - NST (NH)

Size	Aluminum Part #	Price/E ¹
1½"	FS150F	\$209.00
2½"	FS250F	312.00

Female Flat Seal Assembly - NST (NH)

Size	Aluminum Part #	Price/E ¹
1½"	FSF150F	\$168.00
2½"	FSF250F	253.00

Male Flat Seal Assembly - NST (NH)

Size	Aluminum Part #	Price/E ¹
1½"	FSM150F	\$131.00
2½"	FSM250F	206.00

Male Flat Seal Assembly - NPT

Size	Aluminum Part #	Price/E ¹
1½"	FSM150T	\$131.00
2"	FSM200T	158.00
2½"	FSM250T	206.00

¹ price includes clamps

Flat Seal Gaskets



Size	Buna Part #	Price/E
1½"	FSG150	\$1.35
2"	FSG200	1.45
2½"	FSG250	1.45
3"	FSG300	2.00
4"	FSG400	2.25

Synthetic Single Jacket Mill Hose

Application:

- Used in open end water discharge applications only. **Not intended for fire fighting service.**



Features:

- outer construction: single jacket, all polyester
- tube construction: black, natural rubber liner
- rated pressure: **250 PSI** at ambient temperature (70°F)
- working pressure: **112 PSI** at ambient temperature (70°F)
- Consult the factory for pricing and availability on 75' lengths and other threads and configurations.

Uncoupled

Size	Bowl	Length	Part #	Price/E
1"	1-1/4"	50'	M10-50UC	\$91.55
1"	1-1/4"	100'	M10-100UC	183.00
1½"	1-11/16"	25'	M15-25UC	50.45
1½"	1-11/16"	50'	M15-50UC	101.00
1½"	1-11/16"	100'	M15-100UC	202.00
2"	2-1/4"	25'	M20-25UC	58.30
2"	2-1/4"	50'	M20-50UC	117.00
2"	2-1/4"	100'	M20-100UC	234.00
2½"	2-11/16"	25'	M25-25UC	80.75
2½"	2-11/16"	50'	M25-50UC	161.00
2½"	2-11/16"	100'	M25-100UC	323.00
3"	3-3/8"	25'	M30-25UC	96.60
3"	3-3/8"	50'	M30-50UC	193.00
3"	3-3/8"	100'	M30-100UC	387.00
4"	4-3/8"	25'	M40-25UC	147.00
4"	4-3/8"	50'	M40-50UC	294.00
4"	4-3/8"	100'	M40-100UC	588.00
6"	6-3/8"	25'	M60-25UC	259.00
6"	6-3/8"	50'	M60-50UC	518.00



Coupled with female and male expansion ring couplings

Size	Length	Aluminum Rocker Lug NPSH RAS		Aluminum Rocker Lug NST (NH) RAF		Aluminum Rocker Lug MNPT x MNPT ^{NEW}	
		Part #	Price	Part #	Price	Part #	Price
1½"	50'	M15-50RAS	\$195.00	M15-50RAF	\$195.00	M15-50RAT	\$195.00
1½"	100'	M15100RAS	284.00	M15100RAF	284.00	M15100RAT	284.00
2"	50'	M20-50RAS	285.00	---	---	M20-50RAT	285.00
2"	100'	M20100RAS	384.00	---	---	M20100RAT	384.00
2½"	25'	M25-25RAS	217.00	M25-25RAF	217.00	---	---
2½"	50'	M25-50RAS	315.00	M25-50RAF	315.00	M25-50RAT	328.00
2½"	100'	M25100RAS	474.00	M25100RAF	474.00	M25100RAT	490.00



Synthetic Single Jacket Mill Hose

Application:

- Used in open end water discharge applications only. **Not intended for fire fighting service.**



Features:

- outer construction: single jacket, all polyester
- tube construction: black, natural rubber liner
- Consult the factory for pricing and availability of additional lengths and other configurations.

Coupled with NPSH female and male King short shank couplings, preformed clamps Aluminum shank with brass pin lug swivel nut



Size	Clamps per End	Length	Working Pressure PSI at 70°F	Part #	Price/E
1½"	2	25'	75	M15-25KAS	\$89.80
1½"	2	50'	75	M15-50KAS	150.00
2"	2	25'	75	M20-25KAS	115.00
2"	2	50'	75	M20-50KAS	179.00
2½"	2	25'	50	M25-25KAS	148.00
2½"	2	50'	50	M25-50KAS	230.00
3"	3	25'	50	M30-25KAS	186.00
3"	3	50'	50	M30-50KAS	280.00

Coupled with NST (NH) female and male King short shank couplings, preformed clamps Aluminum shank with brass pin lug swivel nut



Size	Clamps per End	Length	Working Pressure PSI at 70°F	Part #	Price/E
1½"	2	25'	75	M15-25KAF	\$107.00
1½"	2	50'	75	M15-50KAF	166.00
2½"	2	25'	50	M25-25KAF	168.00
2½"	2	50'	50	M25-50KAF	250.00

Coupled with female and male (C & E) global aluminum cam and groove, preformed clamps



Size	Clamps per End	Length	Working Pressure PSI at 70°F	Part #	Price/E
1½"	2	25'	112	M15-25GAX	\$104.00
1½"	2	50'	112	M15-50GAX	162.00
2"	2	25'	112	M20-25GAX	136.00
2"	2	50'	112	M20-50GAX	200.00
2½"	2	25'	112	M25-25GAX	164.00
2½"	2	50'	112	M25-50GAX	246.00
3"	2	25'	112	M30-25GAX	188.00
3"	2	50'	112	M30-50GAX	284.00
4"	2	25'	112	M40-25GAX	275.00
4"	2	50'	112	M40-50GAX	434.00

Synthetic Double Jacket Mill Hose

Application:

- Ideal for open end discharge applications. **Not intended for fire fighting service.**



Features:

- outer construction: double jacket, all polyester
- tube construction: black, natural rubber liner
- rated pressure: **250 PSI** at 70°F
- working pressure: **200 PSI** at 70°F

Uncoupled

Size	Bowl	Length	Part #	Price/E
1½"	1-13/16"	50'	DM15-50UC	\$181.00
1½"	1-13/16"	100'	DM15-100UC	363.00
2"	2-5/16"	50'	DM20-50UC	223.00
2"	2-5/16"	100'	DM20-100UC	445.00
2½"	2-7/8"	50'	DM25-50UC	268.00
2½"	2-7/8"	100'	DM25-100UC	537.00



Coupled with female and male NST (NH) thread, rocker lug, aluminum expansion ring couplings

Size	Bowl	Length	Part #	Price/E
1½"	1-13/16"	50'	DM15-50RAF	\$236.00
1½"	1-13/16"	100'	DM15100RAF	436.00
2½"	2-7/8"	50'	DM25-50RAF	367.00
2½"	2-7/8"	100'	DM25100RAF	647.00



Coupled with female and male NPSH thread, rocker lug, aluminum expansion ring couplings

Size	Bowl	Length	Part #	Price/E
1½"	1-13/16"	50'	DM15-50RAS	\$236.00
1½"	1-13/16"	100'	DM15100RAS	436.00
2½"	2-7/8"	50'	DM25-50RAS	367.00
2½"	2-7/8"	100'	DM25100RAS	647.00

Coupled with male (NPT) x male (NPT) thread, rocker lug, aluminum expansion ring couplings

Size	Bowl	Length	Part #	Price/E
1½"	1-13/16"	50'	DM15-50RAT	\$297.00
1½"	1-13/16"	100'	DM15100RAT	436.00
2"	2-5/16"	50'	DM20-50RAT	373.00
2"	2-5/16"	100'	DM20100RAT	573.00
2½"	2-7/8"	50'	DM25-50RAT	435.00
2½"	2-7/8"	100'	DM25100RAT	663.00



300# Single Jacket All Polyester Fire Hose

Features:

- outer construction: single jacket, all polyester
- tube construction: EPDM rubber lining
- proof pressure: **300 PSI**
- service test pressure: **150 PSI** at ambient temperature (70°F)
- working pressure: **135 PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability on 25' and 75' lengths, U/L labeled hoses and other threads and configurations

Uncoupled



Size	Bowl	Length	Part #	Price/E
1½"	1-3/4"	50'	A315-50UC	\$169.70
1½"	1-3/4"	100'	A315-100UC	339.40
2"	2-1/4"	50'	A320-50UC	276.70
2"	2-1/4"	100'	A320-100UC	553.40
2½"	2-13/16"	50'	A325-50UC	297.85
2½"	2-13/16"	100'	A325-100UC	595.70
3"	3-3/8"	50'	A330-50UC	465.00
3"	3-3/8"	100'	A330-100UC	930.00

Coupled with female and male expansion ring couplings



Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1½"	50'	A315-50	\$265.00	\$289.45	\$331.00	\$265.00
1½"	100'	A315100	439.00	489.55	525.00	439.00
2"	50'	A320-50	---	---	---	550.10
2"	100'	A320100	---	---	---	840.60
2½"	50'	A325-50	430.10	562.30	650.00	430.10
2½"	100'	A325100	793.50	902.70	959.80	793.50
3"	50'	A330-50	---	---	---	785.00
3"	100'	A330100	---	---	---	1273.25

500# Single Jacket All Polyester Fire Hose

Features:

- outer construction: single jacket, all polyester
- tube construction: EPDM rubber lining
- proof pressure: **500 PSI**
- service test pressure: **250 PSI** at ambient temperature (70°F)
- working pressure: **225 PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability of 75' lengths, U/L labeled hoses and other threads and configurations

Uncoupled

Size	Bowl	Length	Part #	Price/E
1"	1-1/4"	50'	A510-50UC	\$154.20
1"	1-1/4"	100'	A510-100UC	308.40
1½"	1-3/4"	50'	A515-50UC	185.45
1½"	1-3/4"	100'	A515-100UC	370.90
2½"	2-13/16"	50'	A525-50UC	313.00
2½"	2-13/16"	100'	A525-100UC	626.00



Coupled with female and male expansion ring couplings

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1"	50'	A510-50	---	---	---	\$267.90
1"	100'	A510100	---	---	---	451.20
1½"	25'	A515-25	\$199.30	---	---	199.30
1½"	50'	A515-50	273.20	\$314.75	\$365.60	273.20
1½"	100'	A515100	448.65	489.50	521.30	448.65
2½"	25'	A525-25	329.15	---	---	329.15
2½"	50'	A525-50	458.40	594.40	626.20	458.40
2½"	100'	A525100	751.70	878.35	909.25	751.70



500# Single Jacket All-Polyester Fire Hose - UL labeled



Features:

- outer construction: single jacket, all polyester
- tube construction: EPDM rubber lining
- proof pressure: **500 PSI**
- service test pressure: **250 PSI** at ambient temperature (70°F)
- working pressure: **225 PSI** at ambient temperature (70°F)
- Underwriters Listed
- consult the factory for pricing and availability of impregnated hose and other lengths threads and configurations

Coupled with female and male NST expansion ring couplings

Size	Bowl	Length	Part #	Price/E
1½"	combo lug, brass	50'	A515U50CBF	\$360.50
1½"	combo lug, brass	75'	A515U75CBF	490.90
1½"	combo lug, brass	100'	A515U100CBF	657.70
2½"	combo lug, brass	50'	A525U50CBF	625.00



500# Single Jacket All-Polyester Fire Hose - Color Impregnated

Features:

- outer construction: single jacket, all polyester
- tube construction: EPDM rubber lining
- proof pressure: **500 PSI**
- service test pressure: **250 PSI**
- working pressure: **225 PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability of other colors, lengths, threads and configurations

Coupled with female and male expansion ring couplings

Size	Coupling Type	Length	Color	Part #	Price/E
1½"	rocker lug, aluminum, NST	50'	yellow	A515Y50RAF	\$318.50
1½"	rocker lug, aluminum, NST	50'	red	A515R50RAF	318.50
1½"	rocker lug, aluminum, NST	50'	orange	A515OR50RAF	318.50
1½"	rocker lug, aluminum, NPSH	50'	orange	A515OR50RAS	318.50



800# Double Jacket All Polyester Fire Hose

Features:

- outer construction: double jacket, all polyester
- tube construction: EPDM rubber lining
- proof pressure: **800 PSI**
- service test pressure: **400 PSI**
- working pressure: **360 PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability of 75' lengths and other threads and configurations



Coupled with female and male expansion ring couplings

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1½"	25'	D815-25	\$220.00	---	---	---
1½"	50'	D815-50	339.70	\$361.95	\$412.35	\$339.70
1½"	100'	D815100	579.10	601.40	647.20	579.10
2½"	25'	D825-25	370.30	---	---	---
2½"	50'	D825-50	560.80	698.75	741.70	560.80
2½"	100'	D825100	1013.40	1087.15	1168.40	1013.40

800# Double Jacket All Polyester Fire Hose - Yellow Impregnated

Features:

- Outer construction: double jacket, all polyester
- Tube construction: black, extruded synthetic rubber
- proof pressure: **800 PSI**
- service test pressure: **400 PSI** at ambient temperature (70°F)
- working pressure: **360 PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability of other lengths, threads, colors and configurations



Coupled with female and male NST (NH) thread, rocker lug, aluminum expansion ring couplings

Size	Length	Part #	Price/E
1½"	50'	D815Y50RAF	\$400.95
1½"	100'	D815Y100RAF	701.60
2½"	50'	D825Y50RAF	631.10
2½"	100'	D825Y100RAF	1113.65

O

UL 500# All Polyester Rack Hose - Aluminum Couplings UL Labeled

Application:

- **Not** to be used for washdown. For pin rack service / emergency fire fighting only.



Features:

- outer construction: single jacket, all polyester
- tube construction: clear thermoplastic
- proof pressure: **300 PSI** at ambient temperature (70°F)
- service test pressure: **150 PSI** at ambient temperature (70°F)
- working pressure: **135 PSI** at ambient temperature (70°F)
- Underwriters Listed



Coupled with female and male aluminum rocker lug expansion ring couplings

Size	Length	Thread	Folded Part #	Price	Coiled Part #	Price
1½"	50'	NST	R515U50RAF/F	\$239.45	R515U50RAF	\$239.45
1½"	50'	NPSH	R515U50RAS/F	239.45	R515U50RAS	239.45
1½"	100'	NST	R515U100RAF/F	442.00	R515U100RAF	442.00
1½"	100'	NPSH	R515U100RAS/F	442.00	R515U100RAS	442.00

500# All Polyester Rack Hose - Aluminum Couplings non-UL Labeled

Application:

- For pin rack service / emergency fire fighting only. **Not** to be used for washdown



Features:

- outer construction: single jacket, all polyester
- tube construction: clear thermoplastic
- proof pressure: **500 PSI**
- service test pressure: **250 PSI** at ambient temperature (70°F)
- working pressure: **225 PSI** at ambient temperature (70°F)



folded



coiled

Coupled with female and male aluminum rocker lug expansion ring couplings

Size	Length	Thread	Folded Part #	Price	Coiled Part #	Price
1½"	50'	NST	R515-50RAF/F	\$211.00	R515-50RAF	\$211.00
1½"	50'	NPSH	R515-50RAS/F	211.00	R515-50RAS	211.00
1½"	100'	NST	R515100RAF/F	332.80	R515100RAF	332.80
1½"	100'	NPSH	R515100RAS/F	332.80	R515100RAS	332.80

500# All Polyester Rack Hose - Brass Couplings non-UL Labeled

Application:

- For pin rack service / emergency fire fighting only. **Not** to be used for washdown



Features:

- outer construction: single jacket, all polyester
- tube construction: clear thermoplastic
- proof pressure: **500 PSI** at ambient temperature (70°F)
- service test pressure: **250 PSI** at ambient temperature (70°F)
- working pressure: **225 PSI** at ambient temperature (70°F)



folded



coiled

Coupled with female and male brass combo lug expansion ring couplings

Size	Length	Thread	Folded Part #	Price	Coiled Part #	Price
1½"	50'	NST	R515-50CBF/F	\$233.70	R515-50CBF	\$233.70
1½"	100'	NST	R515100CBF/F	375.00	R515100CBF	375.00

500# All Polyester Rack Hose - Brass Couplings UL Labeled

Application:

- For pin rack service / emergency fire fighting only. **Not** to be used for washdown



Features:

- outer construction: single jacket, all polyester
- tube construction: clear thermoplastic
- proof pressure: **300 PSI** at ambient temperature (70°F)
- service test pressure: **150 PSI** at ambient temperature (70°F)
- working pressure: **135 PSI** at ambient temperature (70°F)
- Underwriters Listed



folded



coiled

Coupled with female and male brass combo lug expansion ring couplings

Size	Length	Thread	Folded Part #	Price	Coiled Part #	Price
1½"	50'	NST	R515U50CBF/F	\$261.85	R515U50CBF	\$261.85
1½"	100'	NST	R515U100CBF/F	454.10	R515U100CBF	454.10

MSHA Approved Mine Fire Hose

Approved by MSHA - (Mine Safety and Health Administration), for all mine fire protection applications.

Single Jacket



Features:

- outer construction: single jacket, flame resistant synthetic
- tube construction: flame resistant lining
- proof pressure: **500 PSI** at ambient temperature (70°F)
- service test pressure: **250 PSI** at ambient temperature (70°F)
- working pressure: **225 PSI** at ambient temperature (70°F)

Coupled with female and male aluminum rocker lug expansion ring couplings

Size	Length	Thread	Part #	Price
1½"	50'	NST	SM515W50RAF	\$415.00
1½"	50'	NPSH	SM515W50RAS	\$415.00

Double Jacket



Features:

- outer construction: double jacket, flame resistant synthetic
- tube construction: flame resistant lining
- proof pressure: **800 PSI** at ambient temperature (70°F)
- service test pressure: **400 PSI** at ambient temperature (70°F)
- working pressure: **360 PSI** at ambient temperature (70°F)

Coupled with female and male aluminum rocker lug expansion ring couplings

Size	Length	Thread	Part #	Price
1½"	50'	NST	DM815W50RAF	\$660.00
1½"	50'	NPSH	DM815W50RAS	\$660.00

O

Blue Double Jacket Potable Water Hose



Features:

- NSF 61 approved lining for potable water
- outer construction: double jacket, all polyester
- tube construction: thermoplastic
- impregnation: blue (color coded for water)
- proof pressure: **600 PSI** at ambient temperature (70°F)
- service test pressure: **300 PSI** at ambient temperature (70°F)
- working pressure: **270 PSI** at ambient temperature (70°F)

Coupled with female and male thread, rocker lug, brass expansion ring couplings

Size	Length	Thread	Part #	Price/E
1½"	50'	NPSH	PW615B50RBS	\$499.70
1½"	100'	NPSH	PW615B100RBS	840.00
2½"	50'	NPSH	PW625B50RBS	899.00
2½"	100'	NPSH	PW625B100RBS	1450.00
2½"	50'	NST	PW625B50RBF	899.00

400# Nitrile Covered Fire Hose - Light Duty - Red

Application:

- ideal for industrial and construction washdown and discharge applications

Features:

- Synthetic rubber compound specially formulated for flexibility, as well as abrasion and chemical resistance. Ribbed for hose protection and easy handling.
- outer construction: thin ribbed nitrile
- tube construction: nitrile
- proof pressure: **400 PSI** at ambient temperature (70°F)
- service test pressure: **200 PSI** at ambient temperature (70°F)
- working pressure: **180 PSI** at ambient temperature (70°F)

Uncoupled

Size	Bowl	Length	Part #	Price/E
2"	2-1/4"	50'	H420R50UC	\$529.40



Coupled with Female and Male NPSH thread, brass expansion ring couplings with rocker lugs

Size	Length	Part #	Price/E
2"	50'	H420R50RBS	\$731.85



500# Nitrile Covered Fire Hose - Light Duty - Red

Application:

- ideal for industrial and construction washdown and discharge applications

Features:

- outer construction: thin ribbed nitrile
- tube construction: nitrile
- proof pressure: **500 PSI** at ambient temperature (70°F)
- service test pressure: **250 PSI** at ambient temperature (70°F)
- working pressure: **225 PSI** at ambient temperature (70°F)
- Consult the factory for pricing and availability of 25' lengths, other colors, threads and configurations

Uncoupled

Size	Bowl	Length	Part #	Price/E
1½"	1-13/16"	50'	H515R50UC	\$379.20
2½"	2-13/16"	50'	H525R50UC	556.85
1½"	1-13/16"	100'	H515R100UC NEW	758.00
2½"	2-13/16"	100'	H525R100UC NEW	1114.00



Coupled with female and male expansion ring couplings

Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1½"	50'	H515R50	\$474.65	\$495.85	\$549.00	\$474.65
2½"	50'	H525R50	705.30	819.35	851.15	705.30
1½"	100'	H515R100 NEW	896.00	---	---	896.00
2½"	100'	H525R100 NEW	1034.00	---	---	1034.00



Nitrile Covered Fire Hose - Heavy Duty - Yellow

Application:

- ideal for heavy-duty washdown, refineries and power plants

Features:

- Extruded interlocking matrix fire hose with 100% synthetic circular woven polyester reinforcement.
- heavy ribbed for severe service
- outer construction: thick ribbed nitrile
- tube construction: nitrile
- proof pressure at ambient temperature (70°F):
 - 1½" - 3": **600 PSI**
 - 4": **450 PSI**
 - 5": **400 PSI**
 - 6": **300 PSI**
- service test pressure at ambient temperature (70°F):
 - 1½" - 3": **300 PSI**
 - 4": **225 PSI**
 - 5": **200 PSI**
 - 6": **150 PSI**
- working pressure at ambient temperature (70°F):
 - 1½" - 3": **270 PSI**
 - 4": **200 PSI**
 - 5": **180 PSI**
 - 6": **135 PSI**
- Consult the factory for pricing and availability of 25' lengths and other colors, threads and configurations



Uncoupled

Size	Bowl	Length	Part #	Price/E
1½"	1-13/16"	50'	H615Y50UC	\$440.15
2"	2-1/4"	50'	H620Y50UC	588.35
2½"	2-13/16"	50'	H625Y50UC	681.30
3"	3-3/8"	50'	H630Y50UC	780.35
4"	4-3/8"	50'	H440Y50UC	1029.00
5"	5-3/8"	50'	NEW H450Y50UC	1076.55
6"	6-3/8"	50'	H360Y50UC	1734.00

Coupled with female and male expansion ring couplings

O



Size	Length	Part #	Rocker Lug Aluminum NST (NH) RAF	Rocker Lug Brass NST (NH) RBF	Pin Lug Brass NST (NH) PBF	Rocker Lug Aluminum NPSH RAS
1½"	50'	H615Y50	\$535.60	\$556.85	\$583.35	\$535.60
2½"	50'	H625Y50	811.40	928.00	953.00	811.40
NEW 1½"	100'	H615Y100	757.00	---	---	757.00
NEW 2½"	100'	H625Y100	1421.00	---	---	1421.00

Coupled with female and male segmented collar style couplings



Size	Length	STORZ size	Part #	Price/E
4"	50'	4"	H440Y50SZ	\$1337.25
5"	50'	5"	H450Y50SZ	1650.75
6"	50'	6"	H360Y50SZ	2945.00
NEW 4"	100'	4"	H440Y100SZ	2277.00
NEW 5"	100'	5"	H450Y100SZ	2920.00

Hole Type Booster Hose Couplings

Features:

- hardcoat finish
- complete set
- working pressure: **800 PSI** at ambient temperature (70°F)
- $\frac{3}{4}$ " and 1" NST threads are the same size; also known as **Chemical Hose Thread (CHT)** or **Booster Hose Thread**

Size	Thread Type	Bowl Size	Aluminum Hardcoat Part #	Price/E
$\frac{3}{4}$ "	1" NPSH	1-3/16"	ABH08118	\$210.00
$\frac{3}{4}$ "	1" NPSH	1-1/4"	ABH08125	210.00
1"	1" NST (NH)	1-7/16"	ABH10143F	210.00
1"	1" NST (NH)	1-1/2"	ABH10150F	210.00
1"	1" NST (NH)	1-9/16"	ABH10156F	210.00



Features:

- polished chrome plated
- complete set
- working pressure: **800 PSI** at ambient temperature (70°F)
- $\frac{3}{4}$ " and 1" NST threads are the same size; also known as **Chemical Hose Thread (CHT)** or **Booster Hose Thread**

Size	Thread Type	Bowl Size	Brass Part #	Price/E
$\frac{3}{4}$ "	$\frac{3}{4}$ " NST (NH)	1-3/16"	BW07118F-PC	\$393.05
$\frac{3}{4}$ "	$\frac{3}{4}$ " NST (NH)	1-1/4"	BW07125F-PC	393.05
1"	1" NST (NH)	1-7/16"	BW10143F-PC	393.05
1"	1" NST (NH)	1-1/2"	BW10150F-PC	393.05
1"	1" NST (NH)	1-9/16"	BW10156F-PC	393.05



NEW
FOR 2013



Pin Rack Hose Assembly



Features:

- Components include: rack nipple, U/L **300 PSI** angle valve, semi-automatic fire hose pin rack, brass rack nozzle, and a length of 1½" pin rack hose
- U/L listed and Factory Mutual approved

NST (NH) Thread	Hose	Part #	Wt. Lbs.	Price/E
1½"	50'	FHPR150-50CBF	20	\$850.00
1½"	75'	FHPR150-75CBF	25	935.00
1½"	100'	FHPR150-100CBF	30	950.00

Semi Automatic Fire Hose Pin Racks

Features:

- red steel enameled
- holds up to 100' of either 1½" or 2½" rack hose
- 1½" is U/L listed and Factory Mutual approved



Hose Size	Size	For use with: Valve	Nipple	Steel Part #	Wt. Lbs.	Price/E
1½"	1½"	AVF150	PRN150F	FHPR150	4.4	\$149.00
1½"	2½"	AVF250	PRN250F	FHPR2515	4.5	170.00

Pin Rack Covers



Features:

- 10 oz. red vinyl with Velcro™ closures
- used on FHPR150, FHPR150-50CBF, FHPR150-75CBF, FHPR150-100CBF

Size	Vinyl Part #	Wt. Lbs.	Price/E
25" x 30" x 6"	PRC	1.2	\$60.00
25" x 30" x 6"	PRC-SPANISH	1.2	60.00

Pin Rack Nipples

Feature:

- finish: -C polished chrome plated



Male NPT	Male	Brass Dixon Part #	Powhatan Part #	Wt. Lbs.	Price/E
1½"	1½" NH (NST)	PRN150F	14-136-00287	0.8	\$36.60
NEW 1½"	1½" NH (NST)	PRN150F-C	14-136-00305	0.8	51.25
2½"	2½" NH (NST)	PRN250F	14-136-00288	2.2	120.55
NEW 2½"	2½" NH (NST)	PRN250F-C	14-136-00462	2.2	202.00

Pin Rack Wall Bracket

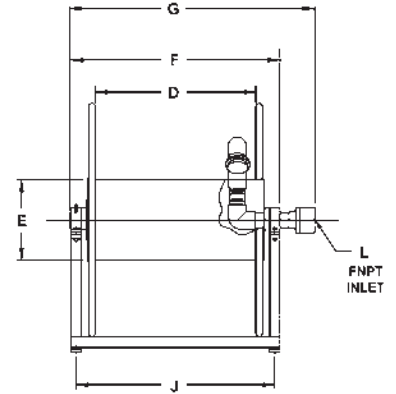
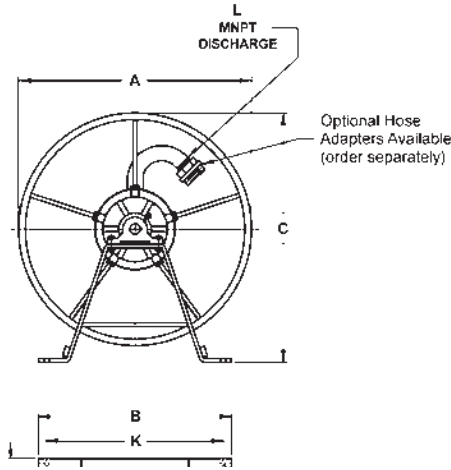


Application:

- used to support hose rack independent of stand pipe valve

Aluminum Dixon Part #	Powhatan Part #	Wt. Lbs.	Price/E
PRWB	46-019-01561	0.7	\$94.50

Global Continuous Flow Reel (original Wirt & Knox design)



Features:

- Optional adapters (order separately):
 FM15S15F = 1½" FNPSH x 1½" MNST brass
 FM1515F = 1½" FNPT x 1½" MNST brass

dimensions (in inches)

Part #	A	B	C	D	E	F	G	J	K	L	Wt. (lbs)	Price/E
FD47I-150-100	24"	19"	26"	20"	10"	26	31"	24¾"	17"	1½"	92	\$805.00

Global Continuous Flow Hose Reel Cover

Cover for	Dimensions	Vinyl Part #	Price/E
<i>FD47I-150-100</i>	22" x 24" x 24"	FD47-C2	\$195.00



Replacement Inlet Swivel Joints for Wirt & Knox Continuous Flow Reels

Size	Steel Part #	Weight (lbs)	List Price
1"	1212-0534-4	3.3	\$275.00
1½"	1212-0540-4	5	362.00



Non-collapsible Fire and Utility Hose - Red

Features:

- outer construction is designed to withstand abrasion
- working pressure: **200 PSI** at ambient temperature (70°F)
- burst pressure: **600PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability of other lengths, threads and configurations



Coupled with female and male NST (NH) thread, rocker lug, brass expansion ring couplings

Size	Length	Part #	List Price
1½"	50'	15B15-50RBF	\$964.70
1½"	75'	NEW 15B15-75RBF	1537.00
1½"	100'	15B15-100RBF	1825.15



Coupled with female and male NPSH thread, rocker lug, brass expansion ring couplings

Size	Length	Part #	List Price
1½"	50'	NEW 15B15-50RBS	\$964.70
1½"	100'	15B15-100RBS	1825.15

Non-collapsible Chemical Booster Fire Hose - Red

Features:

- The vertical braid construction and red ozone resistant outer cover is designed to withstand the weathering and abrasion associated with severe service. See page 535 for hole type spanner wrench.
- working pressure: **800 PSI** at ambient temperature (70°F)
- ¾" and 1" NST (NH) threads are the same size; also known as Chemical Hose Thread (CHT) or Booster Hose Thread
- consult the factory for pricing and availability of other lengths, threads and couplings



Coupled with female and male NST (NH) thread, chromed brass hole type couplings

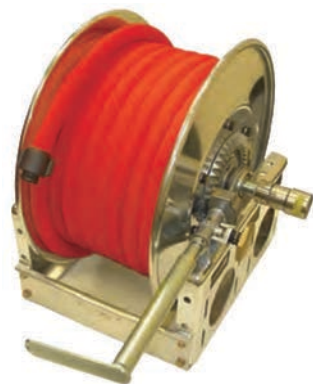
Size	Length	Part #	Price/E
¾"	50'	80B07-50HCF	\$1010.20
¾"	100'	80B07-100HCF	1679.05
1"	50'	80B10-50HCF	1295.00
1"	100'	80B10-100HCF	2016.25

NEW
FOR 2013

Boostlite Lightweight Non-collapsible Reel Hose - Red

Features:

- minimum bend radius of 9" makes hose kink resistant
- superior lining adhesion provides a smoother waterway resulting in lower friction loss
- construction: helically reinforced all synthetic single jacket
- tube: clear polyurethane
- impregnation: red
- ¾" and 1" NST (NH) threads are the same size; also known as Chemical Hose Thread or Booster Hose Thread
- other colors are available
- working pressure: **360 PSI** at ambient temperature (70°F)
- service pressure: **400 PSI** at ambient temperature (70°F)
- proof pressure: **800 PSI** at ambient temperature (70°F)



(hose sold separately from reel)

Size	Thread	Coupling Type	Length	Part #	Price/E
1"	NPSH	Rocker lug, aluminum	100'	BL810R100RAS	\$761.00
1"	NH (NST)	Rocker lug, aluminum	100'	BL810R100RAF	761.00

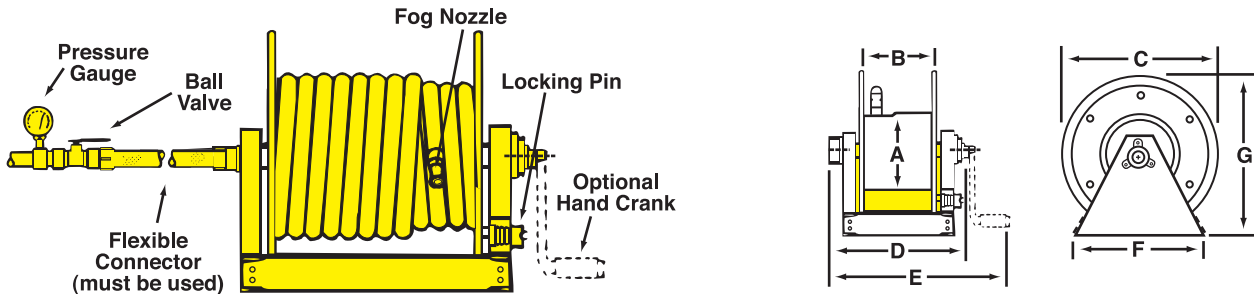
Continuous Flow Reels

Application:

- Used to allow immediate and continuous flow of water at all times during deployment of hose.

Features:

- powder coated with an electrostatically-applied, thermally-fused, red polyester finish steel drum
- rims and universal mounting stand
- female NPT inlet with male NST outlet
- can be easily operated by one person
- use with non-collapsible hose (hose not included) shown on page 554
- A flexible connector assembly must be installed directly between the hose reel inlet hub and the water supply. Failure to use the flexible connector assembly will void the warranty.



dimensions (in inches)

Part #	Hose Size and Capacity			A	B	C	D	E	F	G	Inlet Size (inches)	Outlet Size (inches)	Wt. (lbs)	Price/E
	3/4"	1"	1 1/2"											
CFR47-1-100	150	125	---	10 1/2	11 1/2	24	19 1/4	24	21 3/4	26	1	1	53	\$1972.75
CFR47-150-100	250	150	100	10 1/2	20 1/2	24	28 3/4	33	21 3/4	26	1 1/2	1 1/2	60	1972.75
CFR47-1-200	400	300	150	10 1/2	28	24	35 3/4	40 1/2	21 3/4	26	1 1/2	1 1/2	64	2041.65
CFR47-150-200	---	---	200	10 1/2	34	24	41 3/4	46 1/2	21 3/4	26	1 1/2	1 1/2	72	2103.00

Optional Accessories

Description	Part #	Price/E
1" x 18" flexible connector (male NPT x male NPT)	DX2836	\$175.00
1 1/2" x 18" flexible connector (male NPT x male NPT)	DX2839	175.00
hand crank	CFR-HC	150.00
repair kit: contains O-ring, PTFE retaining ring for the inlet casting, spacer washer, and 2 steel retaining rings for the manifold	CFR-RK	128.00

Cover for Continuous Flow Hose Reels

Cover for	Dimensions	Vinyl Part #	Price/E
CFR47-1-100	26" x 20"	CFR47-C1	\$131.00
CFR47-1-200	26" x 36"	CFR47-C2	178.00
CFR47-150-100	26" x 29"	CFR47-C3	182.00
CFR47-150-200	26" x 42"	CFR47-C4	200.00



NEW
FOR 2013

Continuous Flow Hose Reel with Hand Crank

Application:

- Designed for heavy duty applications requiring long lengths of hose, adaptable to both plant and field use.

Features:

- all bolted construction - no welds
- adjustable spool rotation drag eliminates hose backlash with de-reeling
- zinc plated swivel with Viton® O-ring seals
- full flow shaft and ball bearing swivel
- permanently lubricated dual main bearings
- lock pin to prevent spool rotation when the reel is not in use
- NPTF (F) inlet matches swivel size outlet male NPT
- 31" wide (including crank) x 21¼" tall x 17¾" deep with a 6" OD drum
- trouble-free design ensures dependable performance and long product life
- reel frame, spool and drum are fabricated from heavy gauge steel with a durable red powder-coat finish
- easily converted to power-driven types



Size	Non-collapsible Hose Capacity	Working Pressure PSI	Part #	Wt. Lbs.	Price/E
1"	100' of 1" hose	300	CA37118L	58	\$1200.00

Swing Type Hose Storage Reels

Features:

- one piece wall bracket (14 gauge), for easier mounting
- 180° swing will also take pipe clamps to 3"
- compact size - smaller reel hub to allow more hose storage
- baked red enamel finish
- solid steel (14 gauge) support arms
- welded construction - rim (18 gauge) hub cap, welded spokes form solid wheels, separated by a molded poly hub and bolted together to form a sturdy unit
- hose is double rolled from the center of length coupled to valve and nozzle
- hose is ready for action when completely removed and valve is open



Hose Size	Part #	Hose Capacity		Price/E
		Lightweight	Rubber Lined	
1½"	HSR18	150'	50' - 75'	\$263.75
1½"	HSR24	250'	100'	316.65
2½"	HSR25-24	100'	100'	478.90

Swing Type Hose Storage Reel Covers

Features:

- to be used with hose storage reels, bright red fabric reinforced PVC with Velcro™ closures for quick release
- "Fire Hose / Keep Clear" printed on one side

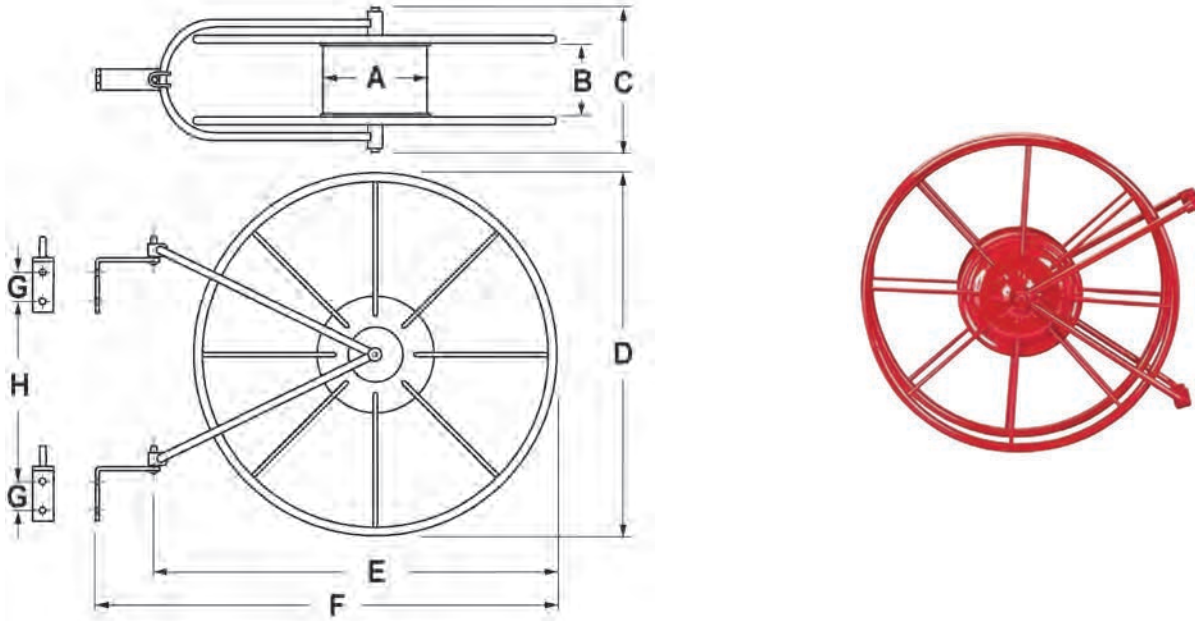


Cover for	Fits Hose Reel Dimensions	Vinyl Part #	Price/E
<i>HSR18</i>	16" - 18"	HSRC18	\$49.35
<i>HSR24</i>	24"	HSRC24	59.75
<i>HSR25-24</i>	24" - 25"	HSRC25-24	57.55

Style V **Swing** Wall Reels

Features:

- Pivot mounting allows the reel to swing to the proper angle, preventing twists and kinks.
- red enameled all-steel construction for long, dependable service life
- double row design of V5 holds two rows of hose for maximum capacity in minimum space
- open sides allow hose to dry faster, preventing mold and mildew



Swing Wall Reels

Size	Steel Part #	Hose Capacity			A	B	C	D	E	F	G	H	Price/E
		Rack	Single	Double									
1½" - 1¾"	FHR-V1	100'	75'	50'	8"	3"	7½"	21"	23"	27"	2"	11-3/8"	\$250.00
1½" - 1¾"	FHR-V2	150'	100'	75'	8"	3"	7½"	26"	29"	33"	2"	15"	250.00
1½"	FHR-V5	300'	200'	150'	8"	5½"	9½"	26"	30"	34"	2"	13"	282.00
2" - 2½"	FHR-V5	150'	100'	75'	8"	5½"	9½"	26"	30"	34"	2"	13"	282.00

Cover for Swing Wall Reels

Features:

- fluorescent red vinyl coated nylon with Velcro™ closures
- printed on both sides

Cover for	Fits Hose Reel Dimensions	Vinyl Part #	Price/E
<i>FHR-V2</i>	26"	FHR-C	\$64.45
<i>FHR-V1</i>	21"	FHR-C1	62.50
<i>FHR-V5</i>	26"	HSRC26	66.30

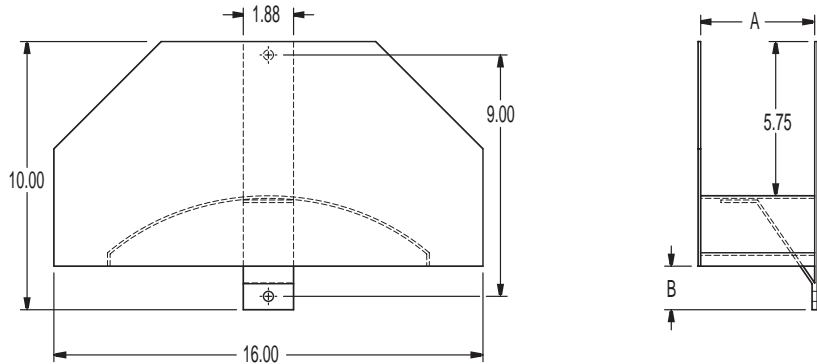


Saddle Hose Racks

Features:

- provide compact and economical hose storage, for all types of hose.
- can be used for fire or water hose
- overall width 16", height 10"
- fabricated of heavy 12 gauge sheet steel for rugged industrial and shipboard use
- curved saddle design avoids sharp bends in the hose to prolong hose life
- red enamel finish

Hose Size	Rack Capacity		Wt. Lbs.	Steel Part #	Price/E
	Rack	Single Jacket			
1½" - 1¾"	50'	75'	50'	HR1610-3	\$110.65
1½" - 1¾"	100'	75'	50'	HR1610-6	130.15
1½" - 2½"	200'	150'	100'	HR1610	162.80
2" - 2½"	50'	150'	100'	HR1610-4	119.45



Model	Dimensions	
	A	B
HR1610-3	3-1/8"	3/4"
HR1610-6	6-1/4"	1-5/8"
HR1610	9"	3"
HR1610-4	4-1/4"	1-5/8"

Hump Racks

Features:

- compact, neat and economical method of storing collapsible hose
- pivot mounting permits rack to swing, preventing kinks and twists
- rugged steel construction provides long, dependable service
- red enamel finish for protection and appearance
- open sides allow faster drying to prevent mold and mildew
- wall mounting brackets are standard



Hose Size	Hose Capacity		Steel Part #	Price/E
	Synthetic	Single Jacket		
1½" - 1¾"	100'	50'	---	FHHR-1 \$220.00
1½" - 1¾"	150'	100'	50'	FHHR-3 321.25
2" - 2½"	100'	50'	---	FHHR-2 220.00
2" - 2½"	150'	100'	50'	FHHR-4 327.30
1½" - 1¾"	200'	150'	100'	FHHR-5 340.65

Cover for Hump Racks



Cover for	Fits Hose Reel Dimensions	Vinyl Part #	Price/E
FHHR-1 or FHHR-2	16" x 25½" x 6"	FHHR-C	\$118.90
FHHR-3 or FHHR-4	24" x 29½" x 6"	FHHR-C4	132.65
FHHR-5	33½" x 35½" x 6"	FHHR-C5	148.15

Fog Nozzles

Features:

- without bumper
- adjustable fog or straight stream
- color: black
- Federal Supply Schedule certified 5100-2396

Size	Thread	60° Spray GPM @ 100 PSI at 70°F	Wt.	Anodized Aluminum Part #	Price/E
1½"	NPSH	52	12 oz.	AFN150	\$299.40
1½"	NST (NH)	52	12 oz.	AFN150NST	299.40



Global Fog Nozzles

NEW
FOR 2013

Size	Thread	GPM @ 100 PSI Straight Stream		Wt.	Aluminum Part #	Price/E
		1st	2nd			
1½"	NPSH	23.8	73.9	12 oz.	GFN150	\$103.00
1½"	NST (NH)	37.6	95.0	12 oz.	GFN150NST	103.00



Forestry Fog Nozzles

Features:

- maroon hard-coated barrel allows for easy identification
- 6061-T6 aluminum, corrosion resistant plated
- dual flow rate nozzles offer two straight stream and two fog patterns
- combination fog and straight stream
- for use up to **600 PSI** (water only)



FFN75GHT



FFN100



FFN150NST

Size	Thread	GPM @ 100 PSI Straight Stream		NSN	Forestry Service Specification	Part #	Price/E
		1st	2nd				
¾"	GHT	1-2 ¹	3-4 ¹	---	---	FFN75GHT	\$200.00
1"	NPSH	12	25	4210-01-165-6603	5100-239A	FFN100 ²	207.50
1½"	NPSH	25	70	---	5100-107A	FFN150	294.60
1"	NST (NH)	12	25	---	5100-239A	FFN100NST	207.50
1½"	NST (NH)	25	70	4210-01-167-1123	5100-107A	FFN150NST ³	294.60

¹ GPM rating @ 40 PSI at 70°F

² FFN100 meets USFS 5100-239A and NSN 4210-01-165-6603

³ FFN150NST meets USFS 5100-107A and NSN 4210-01-167-1123

Forestry Grade Ball Shut-Off Nozzles



Features:

- NFPA1964 compliant
- hardcoated threads, and acetal ball, rigid inlet
- working pressure up to **600 PSI** at ambient temperature (70°F)
- FSS specification 5100-238

Size	Thread	Waterway	Anodized Aluminum Part #	Price/E
1"	NPSH	¾"	FBSO100S	\$340.00
1½"	NPSH	1"	FBSO150S	350.00
1"	NST (NH)	¾"	FBSO100F	335.00
1½"	NST (NH)	1"	FBSO150F	350.00

Forestry Grade Ball Shut-Off Nozzle with Pistol Grip



Features:

- NFPA1964 compliant
- hardcoated threads, and acetal ball, full time live swivel inlet
- working pressure up to **600 PSI** at ambient temperature (70°F)
- FSS specification 5100-238

Size	Thread	Waterway	Anodized Aluminum Part #	Price/E
1"	NPSH	¾"	FBSO100S-PG	\$485.00
1½"	NPSH	1"	FBSO150S-PG	515.00
1"	NST (NH)	¾"	FBSO100F-PG	485.00
1½"	NST (NH)	1"	FBSO150F-PG	515.00

Tip for Ball Shut-Off Nozzles



NPSH



NST

Features:

- lightweight
- for use up to **200 PSI (water only)** at ambient temperature (70°F)

Size	Thread	Orifice ¹	Length	Anodized Aluminum Part #	Price/E
1"	NPSH	½"	4"	ANT100	\$235.00
1½"	NPSH	½"	4¾"	ANT150	235.00
1"	NST (NH)	½"	4"	ANT100F	235.00
1½"	NST (NH)	½"	4¾"	ANT150F	235.00

¹ other orifice sizes available

NEW
FOR 2013

Break Apart Attack Nozzles



Application:

- Designed as a low-cost, versatile, and easy-to-use nozzle for first responders in rural and suburban fire departments. Minimal training is required to connect and operate the nozzle.

Features:

- nozzle uses a 1½" coupler, provides 20-90 GPM fog or straight stream flows at **100 PSI**
- nozzle can be separated from the shut off valve for extended hose lays and other users
- this product meets or exceeds USDA Forestry Service standards

Size	Thread	Aluminum Part #	Price/E
1"	NPSH	ABN100S	\$640.00
1"	NST (NH)	ABN100F	640.00
1½"	NPSH	ABN150S	770.00
1½"	NST (NH)	ABN150F	770.00

Ball Shut-Off Nozzles

Features:

- lightweight
- glass reinforced plastic
- black pistol grip handle
- for use up to **150 PSI** (*water or AFFF only*) at ambient temperature (70°F)

Size	Thread	Part #	Price/E
1½"	NPSH	PPSO150S	\$381.85
1½"	NST (NH)	PPSO150F	381.85



Ball Shut-Off Nozzles

Features:

- lightweight
- glass reinforced plastic
- black pistol grip handle
- yellow nozzle tip can be detached to allow for installation of foam inductor
- for use up to **150 PSI** (*water or AFFF only*) at ambient temperature (70°F)

Size	Thread	GPM	Part #	Price/E
1½"	NPSH	30	FNPSO150S-30	\$403.10
1½"	NST (NH)	30	FNPSO150F-30	403.10
1½"	NPSH	70	FNPSO150S-70	403.10
1½"	NST (NH)	70	FNPSO150F-70	403.10



Plain Hose Nozzles

Features:

- red finish
- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)

Size	Thread	Length	Orifice	Polycarbonate Part #	Price/E
1½"	NPS	10"	½"	PN15	\$18.00
1½"	NST (NH)	10"	½"	PN15F	18.00



Penetrator Nozzle

Features:

- designed with standard 1½" NPSH male hose threads that are converted to female thread for connection to the hose using a double female rigid connector
- ¼" discharge orifice generates a high velocity water jet that is effective against deep seated wildland fires
- for use up to **200 PSI** (*water only*) at ambient temperature (70°F)

Size	Thread	Length	Orifice	Polycarbonate Part #	Price/E
1½"	NST (NH)	5½"	¼"	PFN4005F	\$49.50



Twin Tip Straight Stream Forestry Nozzles

Features:

- molded high strength red polycarbonate
- solid, one-piece reversible twin tip has 1/4" and 3/8" orifices
- for use up to **100 PSI** (*water only*) at ambient temperature (70°F)

Size	Thread	Length with tip	Length without tip	Orifice of base nozzle	Polycarbonate Part #	Price/E
1½"	NPSH	9"	7½"	½"	PTTF150S	\$29.70
1½"	NST (NH)	9"	7½"	½"	PTTF150F	29.70



Forestry Grade ¼ Turn Ball Type Wye Valves

Features:

- cast aluminum swivel inlet, anodized body, hard-coated threads
- built to US Forest Service specifications
- 1" and 1½" for use up to **600 PSI** (water/AFFF only)
- 2½" for use up to **400 PSI** (water/AFFF only)



Female Thread	(2) Male Threads	Cast Aluminum Part #	Wt. Lbs.	Price/E
1" NPSH	1" NPSH	<i>FWV10S10S</i>	1.79	\$565.60
1½" NPSH	1" NPSH	NEW <i>FWV15S10S</i>	3.50	686.00
1½" NPSH	1½" NPSH	NEW <i>FWV15S15S</i>	3.50	652.00
1½" NH (NST)	1" NPSH	<i>FWV15F10S</i>	3.50	686.80
1½" NH (NST)	1½" NH (NST)	<i>FWV15F15F</i>	3.66	652.00
2½" NH (NST)	1½" NH (NST)	<i>FWV25F15F</i>	4.07	750.00
2½" NH (NST)	2½" NH (NST)	<i>FWV25F25F</i>	10.40	1620.00

NEW
FOR 2013

Pick Head Fire Axe

Features:

- red trim
- 36" hickory handle
- listed in the minimum requirements approval guides for outfitting hose houses and hose cabinets by insurance underwriters



Size	Part #	Wt. Lbs.	Price/E
6 lb. axe	<i>PHFA6</i>	8.15	\$180.00
axe brackets	<i>PHFA-B-A</i>	0.5	54.95

Forestry Pocket Spanner Wrenches



FSW1



FSW2

Features:

- FSW1: for use on 1" hoses only
- FSW2: for 1" and 1½" hose couplings
- meets USFDA specification 5100-101C
- overall length 5"

Aluminum Part #	Wt. Lbs.	Price/E
<i>FSW1</i>	.60	\$39.55
<i>FSW2</i>	.12	39.55

Forestry Non Weeping Fire Hose

Features:

- outer construction: single jacket, all polyester
- tube construction: thermoplastic
- Impregnation: yellow
- proof pressure: **600 PSI** at ambient temperature (70°F)
- service test pressure: **300 PSI** at ambient temperature (70°F)
- working pressure: **270 PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability of 25' lengths, other threads and configurations

Coupled with female and male expansion ring couplings

Size	Length	Part #	Rocker Lug Aluminum NST (NH)	Rocker Lug Aluminum NPSH
			RAF	RAS
1"	50'	NF610Y50	---	\$290.00
1"	100'	NF610Y100	---	430.00
1½"	50'	NF615Y50	\$325.00	325.00
1½"	100'	NF615Y100	625.00	625.00



Forestry Mop Up Hose

Application:

- applications include mop-up, low volume hand lines, filling pump cans, supplying sprinklers and remote fire line protection

Features:

- 50' coil diameter is 9"
- outer construction: single jacket, synthetic
- tube construction: thermoplastic
- impregnation: yellow
- proof pressure: **300 PSI** at ambient temperature (70°F)
- service test pressure: **150 PSI** at ambient temperature (70°F)
- working pressure: **135 PSI** at ambient temperature (70°F)
- consult the factory for pricing and availability of other threads and configurations

Coupled with female and male brass ferrule type garden hose couplings

Size	Length	Part #	Price/E
¾"	50'	NF307Y50GHT	\$175.00
1½"	50'	NF615-50RAQT¹	325.00
1½"	100'	NF615100RAQT¹ NEW	625.00

¹ coupled with quarter turn forestry couplings



Forestry Mop Up Hose Kit

Description	Part #	Price/E
kit contains: hose, pouch and nozzle	NF307Y50GHT-KIT	\$230.00



¼ Turn Forestry Adapters


Features:


- maximum working pressure **300 PSI** at ambient temperature (70°F)
- adapters have a common quarter turn sexless head (a 1½" QT fitting will mate with a ¾" QT or 1" QT)
- replacement gaskets: **QTG-F \$7.00**

Thread	Forged Aluminum Male Part #	Price/E	Forged Aluminum Female Part #	Price/E
¾" GHT	QTM75GHT-F	\$74.25	QTF75GHT-F	\$79.80
1" NPS	QTM100S-F	71.05	QTF100S-F	89.10
1" NPT	QTM100T-F	71.05	QTF100T-F	89.10
1½" NST (NH)	QTM150F-F	68.40	QTF150F-F	81.90
1½" NPT	QTM150T-F	68.40	QTF150T-F	81.90
NEW 1½" NPSH	QTM150S-F	68.40	QTF150S-F	81.90

NEW
FOR 2013

Forestry Hose Expansion Ring Rocker Lug Couplings


Features:

- lugs on female only
- working pressure **270 PSI**
- Special tooling is required to attach these couplings to hose. All couplings come with expansion rings, a swivel washer and tail washers. For expansion ring coupling machines see page 539
- *Under no circumstances should the fittings be used beyond the working pressure of the hose.* 
- Assembled hose should be hydrostatically proof tested before use, and thereafter in accordance with NFPA 1962.
- consult the factory for pricing and availability for females or males only

Hose Size	Bowl Size	Thread Type	Forged Aluminum Part #	Price/E
1"	1-3/16"	NPSH	EF11118	\$64.10
1"	1¼"	NPSH	EF11125	64.10
1½"	1-13/16"	NST (NH)	EF16168F	78.85
1½"	2-11/16"	NST (NH)	EF16175F	78.95

NEW
FOR 2013

Quick-Connect Forestry Expansion Ring Couplings



Hose Size	Bowl Size	Thread Type	Forged Aluminum Part #	Price/E
1½"	1-11/16"	NPSH	QTX150-F	\$95.30

Dry Fire Hydrant Assemblies Male Adapters with Snap-On Cap

NEW
FOR 2013

Features:

- comes with high visibility yellow plastic snap-on cap (not shown)
- PVC body
- aluminum connection

Male NST (NH)	Schedule 40 Elbow	New Part #	Old Part #	Price/E
4½"	45°	DFH-9140-430	ADH45M45F	\$437.40
5"	45°	DFH-9140-410	ADH45M50F	452.00
6"	45°	DFH-9140-400	ADH45M60F	460.55
4½"	90°	DFH-9140-330	ADH90M45F	437.40
5"	90°	DFH-9140-310	ADH90M50F	448.00
6"	90°	DFH-9140-300	ADH90M60F	460.55
4½"	180°	DFH-9140-530	ADHM45F	315.00
5"	180°	DFH-9140-510	ADHM50F	319.00
6"	180°	DFH-9140-500	ADHM60F	323.00



Dry Hydrant Snap-On Cap

Size	Yellow Plastic Part #	Price/E
4½"	DFH-9138-003	\$24.50
5"	DFH-9138-002	28.50
6"	DFH-9138-001	31.25



Dry Hydrant Threaded Cap with Ball Chain

Size	Yellow Plastic Part #	Price/E
4½"	DFH-9138-601	\$52.65
5"	DFH-9138-602	59.05
6"	DFH-9138-603	59.05



Dry Hydrant Cap with Cable

Size	Hard Coat Aluminum New Part #	Old Part #	Price/E
4½"	CAP450F-C	ADHC450F	\$163.75
5"	CAP500F-C	ADHC500F	240.00
6"	CAP600F-C	ADHC600F	297.35



NEW
FOR 2013

Dry Fire Hydrant Assemblies Female Adapters with Plug

Features:

- PVC body
- aluminum connection
- plastic plug



Female NST (NH)	Schedule 40 Elbow	New Part #	Old Part #	Price/E
4½"	45°	ADH45F45F	<i>DFH-9140-720</i>	\$575.35
5"	45°	ADH45F50F	<i>DFH-9140-710</i>	585.00
6"	45°	ADH45F60F	<i>DFH-9140-700</i>	601.25
4½"	90°	ADH90F45F	<i>DFH-9140-630</i>	568.90
5"	90°	ADH90F50F	<i>DFH-9140-610</i>	578.00
6"	90°	ADH90F60F	<i>DFH-9140-600</i>	589.60
4½"	180°	ADHF45F	<i>DFH-9140-820</i>	427.00
5"	180°	ADHF50F	<i>DFH-9140-810</i>	557.00
6"	180°	ADHF60F	<i>DFH-9140-800</i>	542.00

Dry Hydrant Plugs



Size	Yellow Plastic Northline Part #	Price/E
4½"	DFH-9138-501	49.25
5"	DFH-9138-502	68.00
6"	DFH-9138-503	75.00

Dry Hydrant Plug with Cable



Size	Aluminum Hardcoat New Part #	Old Part #	Wt. Lbs.	Price/E
4½"	PLUG450F-C	<i>ADHP450F</i>	2.56	\$229.70
5"	PLUG500F-C	<i>ADHP500F</i>	3.13	232.00
6"	PLUG600F-C	<i>ADHP600F</i>	3.15	315.50

Storz Adapter with Storz Cap

Features:

- PVC body
- aluminum connection
- aluminum cap



Storz	Schedule 40 Elbow	Part #	Price/E
4"	45°	DFH-9140-210	\$815.00
5"	45°	DFH-9140-320	825.00
6"	45°	DFH-9140-110	940.00
4"	90°	DFH-9140-200	845.00
5"	90°	DFH-9140-325	855.00
6"	90°	DFH-9140-100	950.00

Strainer Assemblies & Accessories



Horizontal Strainer Assemblies

Feature:

- 4:1 intake ratio

Pipe Size	Schedule 40 Pipe Length	End Cap Type	Schedule 40 PVC New Part #	Old Part #	Price/E
6"	40"	Fixed	DFH-9143-000	---	\$425.00
6"	40"	Back Flush	DFH-9143-200	<i>DHS6BF</i>	451.30
8"	33"	Fixed	DFH-9194-010	---	850.00
8"	33"	Back Flush	DFH-9194-210	<i>DHS8BF</i>	900.00
10"	33"	Fixed	DFH-9194-110	---	1200.00



Barrel Strainer Assemblies

Application:

- used for vertical applications

Features:

- fixed end cap
- 4:1 intake ratio

Pipe Size	Schedule 40 Pipe Length	Schedule 40 PVC Part #	Price/E
6"	15"	DFH-9143-100	\$425.00
8"	20"	DFH-9194-000	450.00
10"	24"	DFH-9194-100	500.00
12"	22"	DFH-9194-200	550.00



Check Valve Strainer Assemblies

Application:

- designed for installations where water level can drop below horizontal section of pipe and where pipe must be installed above water level

Features:

- built-in temporary check valve allows water from truck to prime system
- 8" strainer with 6" or 8" female PVC connection

Pipe Size	Length	Part #	Price/E
6" x 8"	36"	DFH-9197-000	\$645.00
8" x 8"	36"	DFH-9197-100	715.00



Underwater Strainer Support

Size	Length	Steel Part #	Wt. Lbs	Price/E
6"	15"	DHSSC6	1.35	\$81.25



NEW
FOR 2013

Aluminum Barrel Strainers

Features:

- lightweight
- hardcoat anodized finish
- full flow design
- rocker lugs
- tie off hook for drafting placement
- consult the factory for price and availability

Female Barrel Strainers



Female Thread	Aluminum New Part #	Old Part #	Wt. Lbs	Price/E
2½" NST	FST250	<i>BBS250F</i>	1	\$140.00
3" NST	FST300	<i>BBS300F</i>	1	310.00
4" NST	FST400	<i>BBS400F</i>	2	260.00
4½" NST	FST450	<i>BBS450F</i>	2	200.00
5" NST	FST500	<i>BBS500F</i>	2	355.00
6" NST	FST600	<i>BBS600F</i>	3	210.00

Storz Barrel Strainers



Storz	Aluminum New Part #	Old Part #	Wt. Lbs	Price/E
2½"	ST250	<i>BBS250SZ</i>	1	\$248.00
3"	ST300	<i>BBS300SZ</i>	1	288.00
4"	ST400	<i>BBS400SZ</i>	1	320.00
5"	ST500	<i>BBS500SZ</i>	2	500.00
6"	ST600	<i>BBS600SZ</i>	3	520.00

Basket Strainer - Female Threaded



Female Thread	Aluminum Part #	Wt. Lbs	Price/E
3" NST	BSKTST300F	1	\$78.00
4" NST	BSKTST400F	3	120.00
4½" NST	BSKTST450F	3	160.00
5" NST	BSKTST500F	3	190.00
6" NST	BSKTST600F	4	310.00

Floating Strainers

NEW
FOR 2013

Feature:

- steel screen

Floating Strainers - Female Swivel

Female Thread Inlet	Aluminum New Part #	Old Part #	Wt. Lbs	Price/E
2½" NST	NCS-FDFS-25F	AFS250F	8	\$675.00
3" NST	NCS-FDFS-30F	AFS300F	10	695.00
4" NST	NCS-FDFS-40F	AFS400F	12	785.00
4½" NST	NCS-FDFS-45F	AFS450F	12	1242.00
5" NST	NCS-FDFS-50F	AFS500F	16	1385.00
6" NST	NCS-FDFS-60F	AFS600F	18	1470.00



Floating Strainers - Storz

Storz Inlet	Aluminum New Part #	Old Part #	Wt. Lbs	Price/E
2½"	NCS-FDSTZ-25	AFS250SZ	13	\$685.00
3"	NCS-FDSTZ-30	AFS300SZ	13	695.00
4"	NCS-FDSTZ-40	AFS400SZ	17	785.00
5"	NCS-FDSTZ-50	AFS500SZ	18	1385.00
6"	NCS-FDSTZ-60	AFS600SZ	19	1470.00



Large Diameter Hose Roller

NEW
FOR 2013

Feature:

- two man operation

Part #	Wt. Lbs	Price/E
FHR	7	\$578.00



Hand Hydrotest Pump


Application:

- designed for use in testing pipe lines, pressure tanks and pressure vessels

Features:

- stainless steel piston with aluminum body
- uses check valves which are more efficient and longer lasting than old poppet system
- cylinder displacement: 1.37 cu. in.
- 0 -1000 PSI pressure gauge, 10' high pressure hose and quick disconnect coupler included
- piston: 7/8" with 2" stroke
- working pressure: **1000 PSI**

NPT Inlet	NPT Outlet	Part #	Wt. Lbs.	Price/E
1/2"	1/2"	HHTP	7	\$1946.00



Steel Hose Cabinet

Application:

- Used for storage of industrial fire protection equipment. The cabinet is designed for use on walls with or without legs, or free standing.

Features:

- red polyester coated finish on heavy 18-gauge steel
- FM approved
- does not come with hose or accessories
- accessory hardware is required but is not included
- furnished without legs - if legs are required, call for pricing
- concrete base is to be supplied by a contractor
- supplied with holes in the back for wall mounting and 1" pipe couplings on the bottom for adding 1" x 18" pipe legs (part #HC30143-PL)



Steel Part #	Powhatan Part #	Price/E
HC30143	30-143-00001	\$2025.00

Dimensions

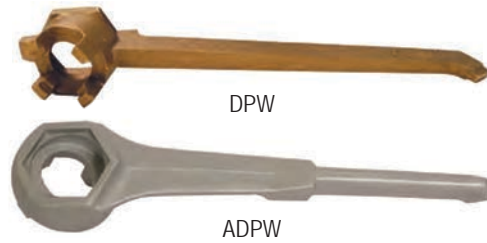
width	depth	height
60"	15"	48"

Drum Plug Wrenches

Features:

- sparkproof, natural finish is safe around flammables
- offset handle design reduces user stress and minimizes knuckle injury

Bronze		Aluminum	
Part #	Price/E	Part #	Price/E
DPW	\$103.30	ADPW	\$41.75



Drum Faucets Polyethylene Drum Faucets

Features:

- Faucets are *not* to be used in applications where temperatures exceed **140°F (60°C)**.
- no wrench needed for screwing into drum opening
- 2" faucet is shipped with a gasket; the 3/4" does not require a gasket

NPT Size	Gold Polyethylene	
	Part #	Price/E
3/4"	PEDF75	\$10.50
2"	PEDF200	56.75



Stainless Heavy Duty Adjustable Drum Faucet

Features:

- 3/4" NPT connection
- adjustable shank is designed to easily adjust to proper drain position after installing in drum
- PTFE gasket

Stainless Steel	
Part #	Price/E
HDSSF75	\$554.00



Brass Heavy Duty Adjustable Drum Faucet

Features:

- 3/4" NPT connection
- easy to use, self-closing design

Brass	
Part #	Price/E
AHDBF75	\$225.40



Brass Heavy Duty Drum Faucet with Rigid Shank

Features:

- 3/4" NPT connection
- easy to use, self-closing design
- PTFE gasket

Brass	
Part #	Price/E
HDBF75	\$179.95



Compression Bibb Faucets

Features:

- rough brass finish
- nozzle end is GHT
- *for water use only*

Male NPT Inlet Size	Brass	
	Part #	Price/E
1/2"	35-201-10	\$28.70
3/4"	35-202-10	28.70



Drum Thread Adapter


Features:

- for use in gravity discharge from drums
- The male NPSH thread with gasket on the drum side allows for a connection to drums with female NPSH thread.
- The male NPT end allows for a connection with the female NPT found on most ball valves.

Size	Cast Brass	
	Part #	Price/E
2" x 2"	DMH20DR20	\$68.00

Drum Gate Valves


Features:

- iron body
- male NPT
- manually operated
- ideal for drawing non-flammable liquids from drums and tanks
- Machined and lapped brass faceplate designed for oval discharge to ensure no splashing and smooth operation.
- black Japanned finish
- can be padlocked

NPT Size	Iron	
	Part #	Price/E
3/4"	D71	\$87.00
2"	D75	117.00


Features:

- male NPT
- Lightweight, durable aluminum body provides improved corrosion resistance for certain fluids.
- Sturdy 2" handle is stamped metal with black enamel finish.
- can be padlocked

NPT Size	Aluminum	
	Part #	Price/E
2"	D75AL	\$169.00

Self-Closing Gate Valves

Features:

- male NPT
- Features a gray iron body, brass sliding gate and machine lapped sealing surface.
- Gate closes automatically when handle is released, cleaning discharge surface.
- Ideal for dispensing viscous liquids such as oil, grease paint, varnish and syrups from drums and tanks.
- can be padlocked



NPT Size	Iron	
	Part #	Price/E
3/4"	D71SC	\$137.00
2"	D75SC	339.00

Gate Valves

Features:

- rated **200 PSI** non-shock cold water, oil or gas
- female NPT threaded ends
- threaded bonnet
- integral seat
- adjustable packing nut
- non-rising stem
- solid wedge disc
- iron handwheel
- 100% factory tested

NPT Size	Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1/4"	BGV25	\$19.60	---	---
3/8"	BGV38	19.60	---	--
1/2"	BGV50	19.60	SSGV50	\$136.75
3/4"	BGV75	26.60	SSGV75	162.75
1"	BGV100	39.75	SSGV100	204.00
1-1/4"	BGV125	56.00	SSGV125	279.10
1-1/2"	BGV150	71.20	SSGV150	371.50
2"	BGV200	106.00	SSGV200	458.30
2-1/2"	BGV250	202.00	---	---
3"	BGV300	270.00	---	---
4"	BGV400	430.00	---	---



Features:

- Class 800
- ASTM A105, ANSI B120.1
- bolted bonnet
- female threaded ends
- rated to **1975 PSI**
- temperature: **800°F**
- can be used for steam service

NPT Size	Forged Steel	
	Part #	Price/E
1/2"	FSGV50	\$114.35
3/4"	FSGV75	120.35
1"	FSGV100	166.55
1-1/4"	FSGV125	300.90
1-1/2"	FSGV150	311.50
2"	FSGV200	395.20



Globe Valves

Features:

- Class 800
- ASTM A105, ANSI B120.1
- bolted bonnet
- female threaded ends
- rated to **1975 PSI**
- temperature: **800°F**
- can be used for steam service

NPT Size	Forged Steel	
	Part #	Price/E
1/2"	FSGLBV50	\$158.50
3/4"	FSGLBV75	172.55
1"	FSGLBV100	228.70
1-1/4"	FSGLBV125	413.25
1-1/2"	FSGLBV150	423.25
2"	FSGLBV200	523.55



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Check Valves

Features:

- Class 800
- ASTM A105, ANSI B120.1
- bolted bonnet
- female threaded ends
- rated to **1975 PSI**
- temperature: **800°F**
- can be used for steam service

NPT Size	Forged Steel	
	Part #	Price/E
1/2"	FSCV50	\$128.40
3/4"	FSCV75	144.45
1"	FSCV100	202.60
1-1/4"	FSCV125	353.05
1-1/2"	FSCV150	375.10
2"	FSCV200	451.35



Domestic Gate Valves



Features:

- Class 150
- rated **300** PSI cold working pressure, **150** PSI steam working pressure
- female threaded ends
- union bonnet
- ASME B1.20.1
- Grafoil® packing
- rising stem
- solid disc
- malleable iron handwheel
- 100% factory tested
- temperature range: -20°F to 406°F

NPT Size	Brass	
	Part #	Price/E
1/2"	DBGV50	\$117.50
3/4"	DBGV75	139.40
1"	DBGV100	176.10
1 1/4"	DBGV125	271.50
1 1/2"	DBGV150	334.60
2"	DBGV200	406.00

Domestic Globe Valves



Features:

- Class 150
- rated **300** PSI cold working pressure, **150** PSI steam working pressure
- female threaded ends
- union bonnet
- ASME B1.20.1
- Grafoil® packing
- PTFE disc
- malleable iron handwheel
- 100% factory tested

NPT Size	Brass	
	Part #	Price/E
1/2"	DGLBV50	\$160.00
3/4"	DGLBV75	214.25
1"	DGLBV100	336.00
1 1/4"	DGLBV125	535.50
1 1/2"	DGLBV150	650.00
2"	DGLBV200	975.75

Domestic Swing Check Valves



Features:

- Class 150
- rated **300** PSI cold working pressure, **150** PSI steam working pressure
- female threaded ends
- ASME B1.20.1
- metal seat
- 100% factory tested
- temperature range: -20°F to 406°F

NPT Size	Brass	
	Part #	Price/E
1/2"	DSCV50	\$143.75
3/4"	DSCV75	174.50
1"	DSCV100	234.80
1 1/4"	DSCV125	311.00
1 1/2"	DSCV150	403.50
2"	DSCV200	604.00

Full Flow Ball Valves

Features:

- high flow rate; low pressure drop
- wetted parts are aluminum and stainless steel
- seals are FPM (Viton® and PTFE)
- spindle can be disassembled even when ball valve is installed
- working pressure: **150 PSI** at ambient temperature (70°F)
- available in 2", 3" and 4" in standard flow and two-way flow
- standard valve ports - female NPT, socket weld for Schedule 40 pipe and grooved
- optional ports include DN flange, butt weld and 150# flange
- two ports - one inlet and one outlet

One-Way Full Flow Ball Valves / Female NPT ends

Size	Aluminum	
	Part #	Price/E
2"	1WAYBV200	\$765.00
3"	1WAYBV300	1005.00
4"	1WAYBV400	1484.00



One-Way Full Flow Ball Valves / Socket Weld Ends to Schedule 40 Pipe

Size	Bore	Aluminum	
		Part #	Price/E
2"	2.390"	1WAYBV200SW	\$816.50
3"	3.530"	1WAYBV300SW	1085.75



One-Way Full Flow Ball Valves / Grooved Ends

Size	Aluminum	
	Part #	Price/E
2"	1WAYBV200VIC	\$1050.00
3"	1WAYBV300VIC	1557.75



Full Flow Ball Valves

Features:

- high flow rate; low pressure drop
- wetted parts are aluminum and stainless steel
- seals are FPM (Viton® and PTFE)
- spindle can be disassembled even when ball valve is installed
- working pressure: **150 PSI** at ambient temperature (70°F)
- available in 2", 3" and 4" in standard flow and two-way flow
- standard valve ports - female NPT, socket weld for Schedule 40 pipe and grooved
- optional ports include DN flange, butt weld and 150# flange
- three ports - one inlet and two outlets, valve directs the flow from the inlet to either of the two outlets
- commonly used for switching compartments or tanks

Two-Way Full Flow Ball Valves / Female NPT ends



Size	Aluminum	
	Part #	Price/E
2"	2WAYBV200	\$1070.00
3"	2WAYBV300	1357.00
4"	2WAYBV400	2985.00

Two-Way Full Flow Ball Valves / Socket Weld Ends to Schedule 40 Pipe



Size	Bore	Aluminum	
		Part #	Price/E
2"	2.390"	2WAYBV200SW	\$1140.00
3"	3.530"	2WAYBV300SW	1464.25

Two-Way Full Flow Ball Valves / Grooved Ends



Size	Aluminum	
	Part #	Price/E
2"	2WAYBV200VIC3	\$1490.00
3"	2WAYBV300VIC3	2272.00

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Solder End Brass Ball Valves

Features:

- Designed for the best protection against potential gas leakage under extreme duty or low pressure applications.
- rated to **600 PSI** WOG; **150 PSI** working steam pressure
- maximum temperature **366°F**
- Underwriters Listed
- full port
- brass body
- blow-out proof stem
- chrome-plated brass ball
- adjustable stem packing nut
- PTFE seats, seals, and thrust washer



Size	Port Type	Brass	
		Part #	Price/E
1/2"	full	FBV50SE	\$23.95
3/4"	full	FBV75SE	32.65
1"	full	FBV100SE	48.15
1 1/4"	full	FBV125SE	86.80
1 1/2"	full	FBV150SE	125.55
2"	full	FBV200SE	178.15

Domestic Brass Ball Valves

Features:

- for control of air, water, oil and gas in hose or pipe lines for other services, please contact the factory
- rated to **600 PSI** WOG; **150 PSI** saturated steam
- brass valve bodies, balls and stems
- blow-out proof stems
- glass-filled reinforced PTFE seats and stuffing box ring; stem seals and washers

female NPT x female NPT

Size	Port Type	Brass	
		Part #	Price/E
1/4"	full	BBV25	\$34.00
3/8"	full	BBV38	34.00
1/2"	full	BBV50	34.00
3/4"	standard	BBV75	56.00
1"	standard	BBV100	70.50
1-1/4"	standard	BBV125	118.50
1-1/2"	standard	BBV150	146.75
2"	standard	BBV200	189.50
2 1/2"	standard	BBV250	902.50
3"	standard	BBV300	1093.50

- plated steel handles and nuts with vinyl sleeves, full port and standard port valves are both repairable
- 1/4" - 1/2" full port; 3/4" - 3" standard port
- meets WW-V 35C, Type II Composition
- ball valve handle replacements available, consult Dixon for pricing



Locking Handle Brass Ball Valves

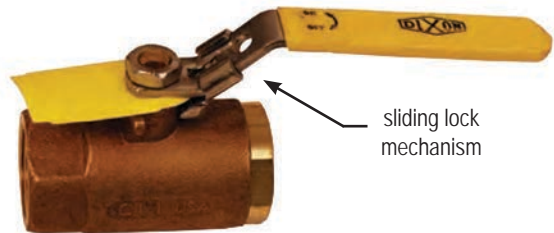
Features:

- for control of air, water, oil and gas in hose or pipe lines for other services, please contact the factory
- rated to **600 PSI** WOG; **150 PSI** saturated steam
- blow-out proof RPTFE stem
- chrome-plated brass ball

female NPT x female NPT

Size	Port Type	Brass	
		Part #	Price/E
1/4"	full	BBLV25	\$44.50
3/8"	full	BBLV38	44.50
1/2"	full	BBLV50	44.50
3/4"	standard	BBLV75	66.50
1"	standard	BBLV100	81.00
1-1/4"	standard	BBLV125	128.80
1-1/2"	standard	BBLV150	161.70
2"	standard	BBLV200	200.00

- Stainless steel sliding lock mechanism secures handle in open or closed position; can be padlocked open or closed.
- plated steel handles and nuts with vinyl sleeves, full port and standard port valves are both repairable
- 1/4" - 1/2" full port; 3/4" - 2" standard port



Domestic Full Port Ball Valves

Features:

- machined solid chrome-plated ball
- multi-fill PTFE seats and seals
- adjustable packing
- blow-out proof stem design
- bronze castings
- full port
- vacuum service to 29 inches Hg
- rated to **600 PSI** WOG; **150 PSI** saturated steam

female NPT x female NPT

Size	Port Type	Bronze	
		Part #	Price/E
3/4"	full	BBV75FP	\$53.10
1"	full	BBV100FP	67.00
1-1/4"	full	BBV125FP	156.75
1-1/2"	full	BBV150FP	207.75
2"	full	BBV200FP	358.00



Imported Brass Ball Valves

Features:

- for control of air, water, oil and gas in hose or pipe lines for other services, please contact Dixon



female NPT x female NPT



Size	Port Type	Brass	
		Part #	Price/E
1/4"	full	FBV25	\$18.15
3/8"	full	FBV38	18.15
1/2"	full	FBV50	22.25
3/4"	full	FBV75	31.70
1"	full	FBV100	47.15
1 1/4"	full	FBV125	82.10
1 1/2"	full	FBV150	121.45
2"	full	FBV200	172.20

- rated to **600 PSI WOG**; **150 PSI Working Steam Pressure**
- forged brass bodies
- blow-out proof stems
- PTFE seats, seals and thrust washers
- chrome-plated brass balls and plated steel handles
- full port
- maximum temperature **366°F**
- Underwriters Listed for 1/4" through 4" full port valves
- NSF61 approved

female NPT x female NPT



Size	Port Type	Brass	
		Part #	Price/E
2 1/2"	full	FBV250	\$379.55
3"	full	FBV300	543.20
4"	full	FBV400	897.60

female NPT x female NPT with locking handle



Size	Port Type	Brass	
		Part #	Price/E
1/2"	full	FBVL50	\$34.30
3/4"	full	FBVL75	45.00
1"	full	FBVL100	61.15
1 1/4"	full	FBVL125	101.65
1 1/2"	full	FBVL150	143.25
2"	full	FBVL200	205.90

Size	Port Type	Brass	
		Part #	Price/E
2 1/2"	full	FBVL250	\$441.90
3"	full	FBVL300	623.15
4"	full	FBVL400	1033.30

female NPT x female NPT



Size	Port Type	Brass	
		Part #	Price/E
1/2"	standard	BV50	\$17.20
3/4"	standard	BV75	20.85
1"	standard	BV100	28.90
1 1/4"	standard	BV125	44.80
1 1/2"	standard	BV150	59.95
2"	standard	BV200	88.75

Features:

- for control of air, water, oil and gas in hose or pipe lines for other services, please contact Dixon
- rated to **600 PSI WOG**; **150 PSI Working Steam Pressure**
- forged brass bodies
- blow-out proof stems
- PTFE seats, seals and thrust washers
- chrome-plated brass balls and plated steel handles
- standard port
- maximum temperature **366°F**

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Global Brass Ball Valves

Features:

- for water and air only
- 1/4" - 3/8" rated to **365 PSI**; 1/2" - 2" rated to **600 PSI**



- body: forged brass
- maximum temperature **248°F (120°C)**

female NPT x female NPT

Size	Port Type	Brass	
		Part #	Price/E
1/4"	full	FBVG25	\$7.50
3/8"	full	FBVG38	7.50
1/2"	full	FBVG50	11.80
3/4"	full	FBVG75	16.60
1"	full	FBVG100	27.25
1 1/4"	full	FBVG125	42.00
1 1/2"	full	FBVG150	59.00
2"	full	FBVG200	90.00

250 Lb. Steam Ball Valves

Features:

- recommended for use with fluids with widely varying temperatures and/or thermal expansion rates
- rated to **600 PSI**; **250 PSI** saturated steam
- vacuum service to 29 inches Hg
- threaded bronze valve
- 316 stainless steel ball and stem
- blow-out proof stem design
- multi-fill RPTFE seats
- multi-fill stuffing box ring
- high temperature MTFE stem packing
- adjustable packing gland
- ½" full port; ¾" - 2" standard port
- maximum temperature rating **406°F**

female NPT x female NPT

Size	Port Type	Bronze	
		Part #	Price/E
½"	full	BBV50ST	\$74.40
¾"	standard	BBV75ST	120.00
1"	standard	BBV100ST	141.00
2"	standard	BBV200ST	391.00



"Deadman" Spring Return Handle Ball Valves

Bronze

Features:

- rated to **600 PSI** WOG; **150 PSI** saturated steam
- vacuum service to 29 inches Hg
- stainless steel lever
- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland
- ½" full port; ¾" - 2" standard port
- spring return closes valve when not held open
- operating torque approximately three times standard valve torque

female NPT x female NPT

Size	Port Type	Bronze	
		Part #	Price/E
½"	full	BBV50SR	\$249.50
¾"	standard	BBV75SR	279.50
1"	standard	BBV100SR	298.00
1½"	standard	BBV150SR	459.00
2"	standard	BBV200SR	540.00



316 Stainless Steel

Features:

- rated to **2000 PSI** WOG ½" to 1"; **1500 PSI** WOG 1¼" to 2"
- **150 PSI** saturated steam, all sizes
- vacuum service to 29 inches Hg, all sizes
- PTFE seals
- blow-out proof stem design
- adjustable packing gland
- ½" full port; ¾" - 2" standard port
- spring return closes valve when not held open
- operating torque approximately three times standard valve torque

female NPT x female NPT

Size	Port Type	316 Stainless Steel	
		Part #	Price/E
½"	full	SSBV50SR	\$280.20
¾"	standard	SSBV75SR	362.75
1"	standard	SSBV100SR	407.70
1¼"	standard	SSBV125SR	663.75
1½"	standard	SSBV150SR	715.00
2"	standard	SSBV200SR	888.75



3-Way Diverting Ball Valves

T Flow Pattern

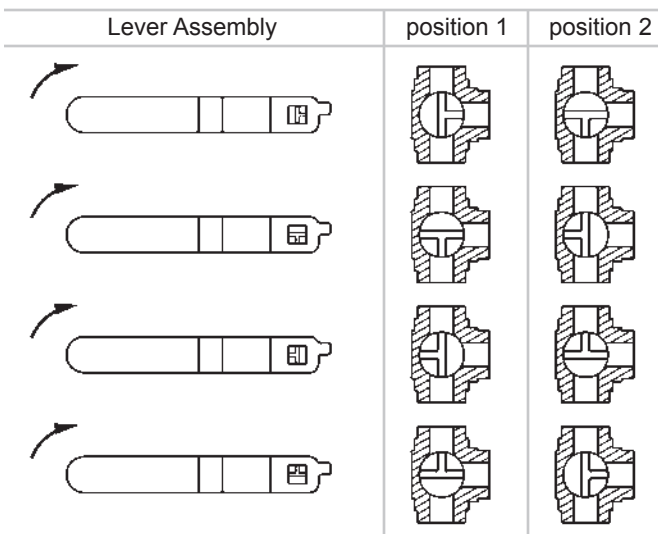


Features:

- rated to **400 PSI WOG**; **100 PSI** saturated steam
- brass body
- blow-out proof stem
- chrome plated brass ball
- PTFE seats, seals, and thrust washer
- adjustable stem packing
- standard port
- maximum temperature: **344°F**

female NPT x female NPT x female NPT

Size	Port Type	Brass	
		Part #	Price/E
1/2"	standard	BBV50DTW	\$108.50
3/4"	standard	BBV75DTW	119.80
1"	standard	BBV100DTW	183.65
1 1/4"	standard	BBV125DTW	269.10
1 1/2"	standard	BBV150DTW	409.35
2"	standard	BBV200DTW	668.55



Note: 1/4 turn handle can be adjusted to any orientation. Notches on the valve stem reflect the three openings on the ball.

3-Way Diversion Ball Valves

L Flow Pattern



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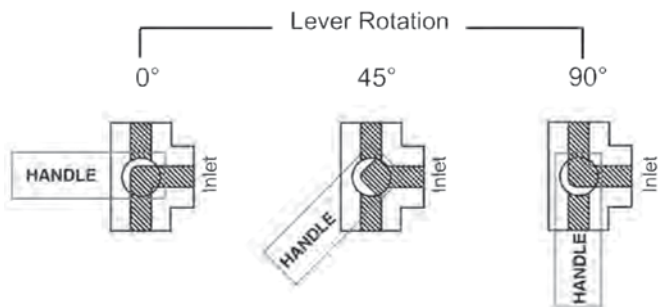
Features:

- can be used with gasoline and diesel fuel
- rated to **400 PSI WOG**
- bronze body
- blow-out proof stem
- chromium-plated ball
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- 1/2" full port; 3/4" and 1" standard port

female NPT x female NPT x female NPT

Size	Port Type	Bronze	
		Part #	Price/E
1/2"	full	BBV50TW ¹	\$68.75
3/4"	standard	BBV75TW	95.00
1"	standard	BBV100TW	126.00

¹ carbon steel handle and nut with vinyl sleeve



Features:

- rated to **800 PSI WOG**
- stainless steel body and ball
- blow-out proof stem
- RPTFE seats and stuffing box ring
- stainless steel handle and nut with vinyl sleeve
- adjustable packing gland
- 1/2" full port; 3/4" and 1" standard port
- meets NACE MR-01-75

female NPT x female NPT x female NPT

Size	Port Type	Stainless Steel	
		Part #	Price/E
1/2"	full	SSBV50TW	\$301.90
3/4"	standard	SSBV75TW	390.00
1"	standard	SSBV100TW	503.00

Brass Ball Valves

Features:

- for air service only
- rated to **600 PSI**
- ½" full port; ¾" - 1" standard port
- brass valve

- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland

female NPT x male NPT

Size	Port Type	Brass	
		Part #	Price/E
1/2"	full	BMV50	\$41.00
3/4"	standard	BMV75	65.25
1"	standard	BMV100	93.00



Safety Vented Ball Valves

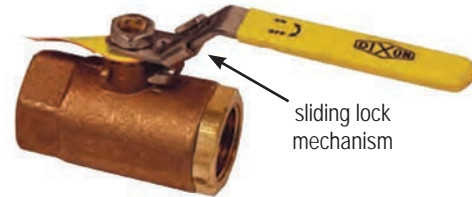
Features:

- for air service only
- rated to **600 PSI**
- Lockable ball valves vent downstream air in accordance with OSHA regulation 1910.147 for pneumatic systems.
- ¼" - ½" full port; ¾" - 2" standard port

- brass valve
- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland

female NPT x female NPT

Size	Port Type	Brass	
		Part #	Price/E
1/4"	full	BBV25LV	\$49.90
3/8"	full	BBV38LV	49.90
1/2"	full	BBV50LV	49.90
3/4"	standard	BBV75LV	72.00
1"	standard	BBV100LV	92.00
1-1/4"	standard	BBV125LV	145.50
1-1/2"	standard	BBV150LV	178.25
2"	standard	BBV200LV	216.25



Bronze Ball Valve with NPT Tap for Drain

Features:

- recommended for water and air service
- rated to **125 PSI WOG**
- brass ball valves vent downstream air in accordance with OSHA regulations for pneumatic systems
- chromium plated ball
- RTFE seats and stuffing box ring
- blow-out proof stem design
- adjustable packing gland
- full port
- auto-drain / auto-vent
- A ¼" NPT tapped port provides additional options such as an air venting elbow or noise muffler.

female NPT x female NPT

Size	Port Type	Bronze	
		Part #	Price/E
1/4"	full	BBV25VT	\$53.00
3/8"	full	BBV38VT	53.00
1/2"	full	BBV50VT	53.00
3/4"	full	BBV75VT	107.25
1"	full	BBV100VT	150.00



Dual Y Valves



Non-Vented

Female NPT Inlet (1)	Female NPT Outlet (2)	Brass Part #	Price/E
1"	3/4"	BBV100DW	\$156.10
1 1/4"	3/4"	BBV125DW	156.10

Vented

Female NPT Inlet (1)	Female NPT Outlet (2)	Brass Part #	Price/E
1"	3/4"	BBV100DWV	\$156.10
1 1/4"	3/4"	BBV125DWV	156.10

Features:

- dual action valve, ideal for compressor applications
- female NPT threads
- non-vented rated to **600 PSI WOG**
- vented rated to **125 PSI** Cold Working Pressure



Mini Ball Valves

Features:

- rated to **450 PSI**
- nickel plated brass body
- PTFE seats and Buna-N stem seal
- blow-out proof stem



- 1/4" and 3/8" full port; 1/8" and 1/2" standard port
- maximum temperature **330°F**
- American Gas Association and Canadian Gas Association approved

female NPT x female NPT

Size	Port Type	Brass Part #	Price/E
1/8"	standard	MBV12	\$13.40
1/4"	full	MBV25	13.40
3/8"	full	MBV38	12.45
1/2"	standard	MBV50	18.30

Carbon Steel Ball Valves

Features:

- for control of air, water, oil and gas in hose or pipe lines, for other services, please contact the factory
- rated to **150 PSI** saturated steam
- 1/4" - 1" rated to **2000 PSI**; 1 1/4" - 2" rated to **1500 PSI**
- carbon steel body

- chromium plated ball
- RPTFE seats and seals
- blow-out proof stem
- adjustable packing gland
- 1/4" and 3/8" full port; 1/2" - 2" standard port

female NPT x female NPT

Size	Port Type	Carbon Steel Part #	Price/E
1/4"	full	IBV25	\$61.80
3/8"	full	IBV38	61.80
1/2"	standard	IBV50	61.80
3/4"	standard	IBV75	71.25
1"	standard	IBV100	95.40
1-1/4"	standard	IBV125	145.50
1-1/2"	standard	IBV150	202.00
2"	standard	IBV200	261.50

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High Pressure Full-Bore Ball Valves

Features:

- blow out proof stem
- rugged construction

- Viton® seals
- female thread
- stainless steel valves have Delrin® seats

female NPT x female NPT

Size	PSI	Carbon Steel				PSI	316 Stainless Steel	
		NPTF Part #	Price/E	SAE Part #	Price/E		NPTF Part #	Price/E
1/4"	7350	HPBV25	\$63.90	HPBV25SAE	\$71.65	5880	HPBV25SS	\$427.50
3/8"	7350	HPBV38	67.80	HPBV38SAE	80.70	5880	HPBV38SS	497.50
1/2"	7350	HPBV12	73.70	HPBV12SAE	87.10	5880	HPBV12SS	595.00
3/4"	5880	HPBV34	145.05	HPBV34SAE	162.20	5145	HPBV34SS	1027.90
1"	5145	HPBV10	173.10	HPBV10SAE	190.00	5145	HPBV10SS	1212.80
1 1/4"	5880	HPBV125	452.90	HPBV125SAE	490.20	---	---	---
1 1/2"	5880	HPBV150	548.90	HPBV150SAE	583.00	---	---	---
2"	5880	HPBV200	831.00	HPBV200SAE	870.00	---	---	---



Stainless Steel Ball Valves

Full Port

Features:

- for use in water, oil and gas
- 1/4" - 2" rated to **1000 PSI** WOG (CWP); 2½" - 3" rated to **800 PSI** WOG (CWP); **100 PSI** saturated steam
- 316 stainless steel body, ball and stem

- PTFE seat, joint gasket and thrust washer
- plastic cover on handle
- blow-out proof stem design
- full port
- temperature range **-20°F to 450°F**

female NPT x female NPT

Size	Port Type	316 Stainless Steel	
		Part #	Price/E
1/4"	full	SSBV25	\$39.50
3/8"	full	SSBV38	42.00
1/2"	full	SSBV50	44.00
3/4"	full	SSBV75	63.00
1"	full	SSBV100	84.00
1-1/4"	full	SSBV125	121.00
1-1/2"	full	SSBV150	161.00
2"	full	SSBV200	226.00
2-1/2"	full	SSBV250	495.00
3"	full	SSBV300	690.00



Full Port, Locking Handle

Features:

- for use in water, oil and gas
- 1/4" - 2" rated to **1000 PSI** WOG (CWP); 2½" - 3" rated to **800 PSI** WOG (CWP); **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- PTFE seat, joint gasket and thrust washer

- plastic cover on handle
- blow-out proof stem design
- full port
- temperature range **-20°F to 450°F**
- lockable

female NPT x female NPT

Size	Port Type	316 Stainless Steel	
		Part #	Price/E
1/4"	full	SSLBV25	\$43.00
3/8"	full	SSLBV38	44.00
1/2"	full	SSLBV50	48.00
3/4"	full	SSLBV75	70.00
1"	full	SSLBV100	90.00
1-1/4"	full	SSLBV125	129.00
1-1/2"	full	SSLBV150	171.00
2"	full	SSLBV200	236.00
2½"	full	SSLBV250	510.00
3"	full	SSLBV300	750.00



Reduced Port, Locking Handle

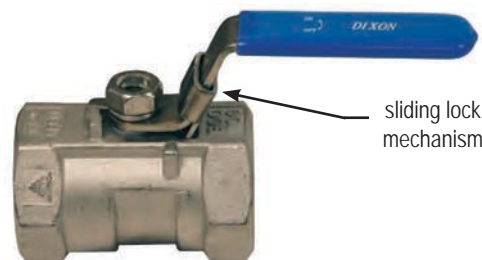
Features:

- for use in water, oil and gas
- rated to **800 PSI** WOG; **100 PSI** saturated steam
- 316 stainless steel body, ball and stem
- PTFE seat, joint gasket and thrust washer
- plastic cover on handle

- blow-out proof stem design
- reduced port
- temperature range **-20°F to 450°F**
- lockable

female NPT x female NPT

Size	Port Type	316 Stainless Steel	
		Part #	Price/E
1/4"	reduced	SSLBV25SP	\$28.50
3/8"	reduced	SSLBV38SP	30.50
1/2"	reduced	SSLBV50SP	32.50
3/4"	reduced	SSLBV75SP	44.00
1"	reduced	SSLBV100SP	63.00
1-1/4"	reduced	SSLBV125SP	84.00
1-1/2"	reduced	SSLBV150SP	115.00
2"	reduced	SSLBV200SP	162.00



NEW
FOR 2013

316 Stainless Steel 3-Piece Ball Valves

Full Port

**Features:**

- FNPT ends or socket weld
- blow out proof stem
- live-loaded stem packing
- swing out design for easy maintenance
- ISO 5211 mounting pad
- RTFE seat and seals
- maximum temperature: **400°F**

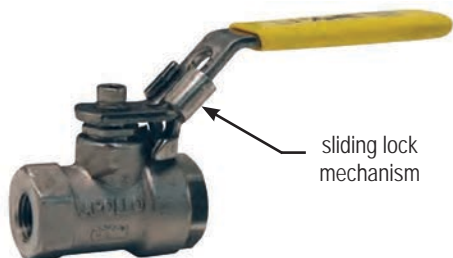
Size	Port Type	PSI @ 65°F	Body Length	Female NPT 316 Stainless Steel		Socket Weld 316 Stainless Steel	
				Part #	Price/E	Part #	Price/E
½"	full	1000	2.5"	BV2IG-05011-A	\$105.00	BV2IG-05033-A	\$105.00
¾"	full	1000	3.1"	BV2IG-07511-A	131.45	BV2IG-07533-A	131.45
1"	full	1000	3.3"	BV2IG-10011-A	171.45	BV2IG-10033-A	171.45
1¼"	full	1000	4.1"	BV2IG-12511-A	227.70	BV2IG-12533-A	227.70
1½"	full	1000	4.4"	BV2IG-15011-A	311.60	BV2IG-15033-A	311.60
2"	full	1000	5.1"	BV2IG-20011-A	443.95	BV2IG-20033-A	443.95
2½"	full	800	6.6"	BV2IG-25011-A	887.55	BV2IG-25033-A	887.55
3"	full	800	7.3"	BV2IG-30011-A	1260.00	BV2IG-30033-A	1260.00
4"	full	600	8.9"	BV2IG-40011-A	2178.85	BV2IG-40033-A	2178.85

316 Stainless Steel 2-Piece Domestic Ball Valves

Full Port

Features:

- rated to **1,000 PSI** Cold Working Pressure
- rated to **150 PSI** saturated steam
- vacuum service to 29 inches Hg
- 316 stainless body, ball and stem
- PTFE seals
- blow-out proof stem
- vinyl handle cover
- full port
- temperature range: **-40°F to 400°F**

Psliding lock
mechanism**female NPT x female NPT**

Size	Port Type	316 Stainless Steel	
		Part #	Price/E
1/4"	full	DSBV25	\$95.50
3/8"	full	DSBV38	95.50
1/2"	full	DSBV50	100.25
3/4"	full	DSBV75	131.50
1"	full	DSBV100	185.25
1¼"	full	DSBV125	234.50
1½"	full	DSBV150	367.50
2"	full	DSBV200	457.00

Electrically Actuated 2-Piece Stainless Ball Valves

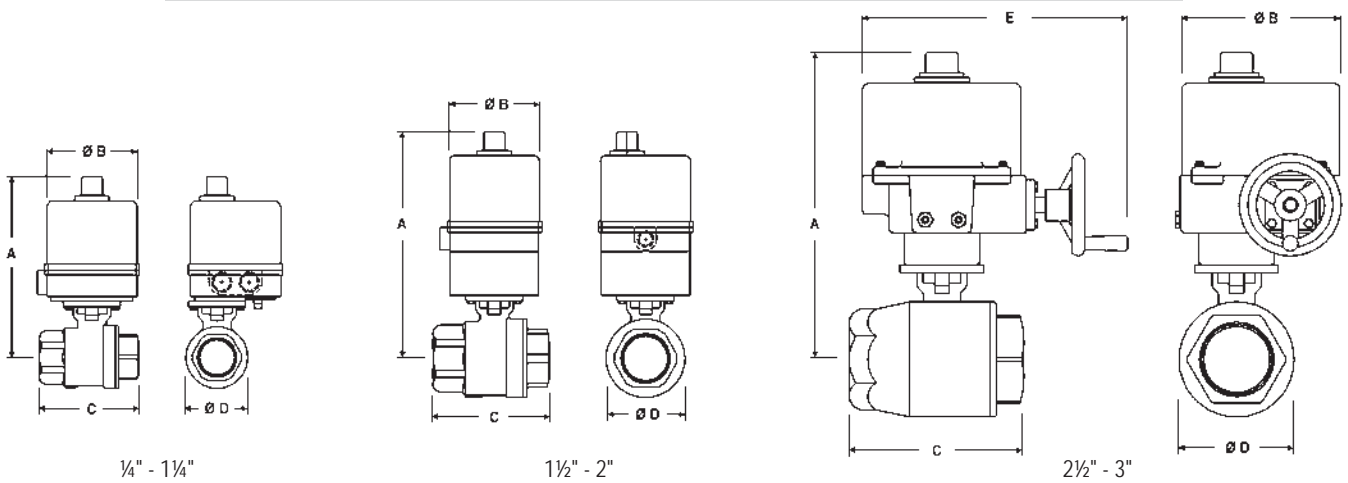
Features:

2-Piece Stainless Ball Valve

- RTFE seats and seals
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- pressure rating: ¼" - 2" **1000 PSI WOG**, 2½" - 3" **800 PSI WOG**
- temperature range: **-40°F to 450°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F to 140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



¼" - 1¼"

1½" - 2"

2½" - 3"

Dimensions are approximate.

Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	E	Override	316 Stainless Steel Part #	110VAC Voltage -EA	24VDC Voltage -EG	12VDC Voltage -ET	220VAC Voltage -EK	24VAC Voltage -ES
¼"	7.79	4.50	2.56	1.40	NA	standard	BV2HG-02511	\$879.70	\$879.70	\$879.70	\$879.70	\$879.70
3/8"	7.79	4.50	2.56	1.40	NA	standard	BV2HG-03811	897.70	897.70	897.70	897.70	897.70
1/2"	7.74	4.50	2.95	1.40	NA	standard	BV2HG-05011	903.60	903.60	903.60	903.60	903.60
3/4"	7.84	4.50	3.15	1.75	NA	standard	BV2HG-07511	904.15	904.15	904.15	904.15	904.15
1"	8.09	4.50	3.54	1.75	NA	standard	BV2HG-10011	954.20	954.20	954.20	954.20	954.20
1¼"	8.29	4.50	4.33	2.58	NA	standard	BV2HG-12511	998.85	998.85	998.85	998.85	998.85
1½"	8.69	4.50	4.72	2.97	NA	N/A	BV2HG-15011	1083.35	1083.35	1083.35	1083.35	1083.35
2"	11.13	4.50	5.51	2.73	NA	N/A	BV2HG-20011	1548.35	1548.35	1548.35	1548.35	1548.35
2½"	13.72	7.08	7.28	4.68	12.83	handwheel	BV2HG-25011-EP *	2675.35	--	--	--	--
2½"	10.69	6.06	7.28	4.68	NA	N/A	BV2HG-25011	2675.35	2675.35	2675.35	2675.35	2675.35
3"	13.72	7.08	8.07	5.44	12.83	handwheel	BV2HG-30011	4384.25	4384.25	4384.25	4384.25	4384.25

* for 110VAC 2½" with manual override use EP

A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc.
 Contact Dixon Sanitary at 800.789.1718 or visit bradfordittings.com for details.

Caution !

Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult the factory when dealing with these types of applications.

Pneumatically Actuated 2-Piece Stainless Ball Valves



Features:

2-Piece Stainless Ball Valve

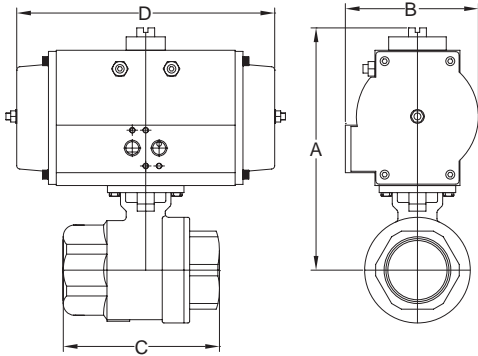
- RTFE seats and seals
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- pressure rating: ¼" - 2" **1000 PSI WOG**, 2½" - 3" **800 PSI WOG**
- temperature range: **-40°F to 450°F**

Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for $\pm 5^\circ$ travel adjustment
- 80 PSI plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40°F to 200°F**
- tested to one million cycles

Spring Return (normally closed)

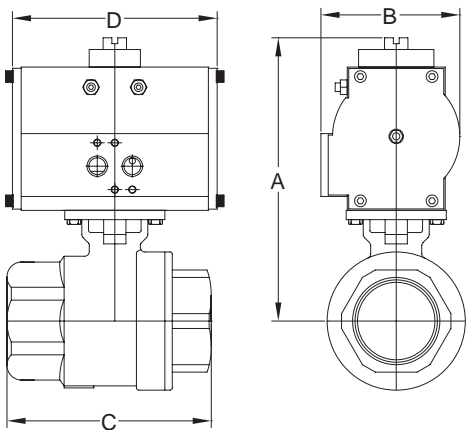
Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.



Size	A	B	C	D	316 Stainless Steel	
					Part #	Price/E
1/4"	5.21	2.80	2.56	5.49	BV2HG-02511-BBC	\$519.80
3/8"	5.21	2.80	2.56	5.49	BV2HG-03811-BBC	524.90
1/2"	5.16	2.80	2.95	5.49	BV2HG-05011-BBC	550.40
3/4"	5.26	2.80	3.15	5.49	BV2HG-07511-BBC	555.25
1"	6.64	3.74	3.54	8.09	BV2HG-10011-BBC	602.20
1¼"	6.84	3.74	4.33	8.09	BV2HG-12511-BBC	646.90
1½"	8.14	4.69	4.72	9.84	BV2HG-15011-BBC	834.10
2"	8.69	4.69	5.51	9.84	BV2HG-20011-BBC	1112.85
2½"	9.54	5.53	7.28	13.98	BV2HG-25011-BBC	1519.95
3"	11.39	7.29	8.07	16.61	BV2HG-30011-BBC	3382.75

Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.



Size	A	B	C	D	316 Stainless Steel	
					Part #	Price/E
1/4"	4.25	1.77	2.56	4.33	BV2HG-02511-BCC	\$372.45
3/8"	4.25	1.77	2.56	4.33	BV2HG-03811-BCC	355.70
1/2"	4.20	1.77	2.95	4.33	BV2HG-05011-BCC	361.25
3/4"	4.30	1.77	3.15	4.33	BV2HG-07511-BCC	398.95
1"	5.89	3.20	3.54	5.68	BV2HG-10011-BCC	503.90
1¼"	6.09	3.20	4.33	5.68	BV2HG-12511-BCC	548.55
1½"	7.24	3.74	4.72	5.87	BV2HG-15011-BCC	689.20
2"	7.79	3.74	5.51	5.87	BV2HG-20011-BCC	1110.55
2½"	8.75	4.69	7.28	7.20	BV2HG-25011-BCC	1387.70
3"	10.01	5.53	8.07	10.22	BV2HG-30011-BCC	2900.30

A wide variety of switches, solenoids, positioners, etc., are available.
Contact Dixon Sanitary at 800.789.1718 or visit bradfordfittings.com for details.



Caution !

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For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult the factory when dealing with these types of applications.



Electrically Actuated 3-Piece Stainless Ball Valves

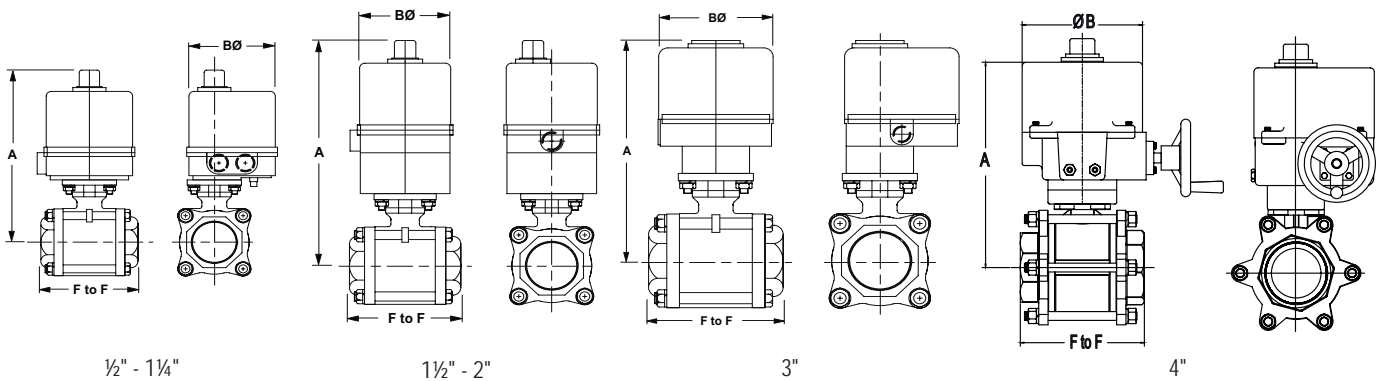
Features:

3-Piece Stainless Ball Valve

- 15% glass reinforced RTFE seats
- blow-out proof stainless steel stem
- live-loaded stem packing
- ISO 5211 mounting pad
- swing out in-line easy maintenance
- ½" - 2" rated to **1000 PSI WOG**; 3" rated to **800 PSI WOG**
- temperature range: **-40°F to 400°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F to 140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



½" - 1¼"

1½" - 2"

3"

4"

Dimensions are approximate.

Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	F to F	A	B	Override	316 Stainless Steel Part #	110VAC Voltage -EA	24VDC Voltage -EG	12VDC Voltage -ET	220VAC Voltage -EK	24VAC Voltage -ES
½"	2.6	7.8	4.5	standard	BV2IG-05011	\$1063.05	\$919.45	\$919.45	\$919.45	\$1026.65
¾"	3.0	8.0	4.5	standard	BV2IG-07511	946.60	946.60	946.60	946.60	1224.65
1"	3.4	8.3	4.5	standard	BV2IG-10011	1174.50	987.65	987.65	987.65	1094.85
1¼"	4.0	8.5	4.5	standard	BV2IG-12511	1282.80	1045.45	1045.45	1045.45	1152.65
1½"	4.7	9.2	4.5	N/A	BV2IG-15011	1413.95	1124.30	1124.30	1124.30	1231.50
2"	5.2	11.4	4.5	N/A	BV2IG-20011	1544.55	1594.75	2043.65	1488.00	1488.00
3"	7.2	12.2	6.1	N/A	BV2IG-30011	2922.80	3851.50	3398.35	2880.30	3501.90
4"	8.9	16.1	7.1	N/A	BV2IG-40011 NEW	5160.00	5067.45	5144.80	5067.45	5067.45

A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc.
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Caution !

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Pneumatically Actuated 3-Piece Stainless Ball Valves



Features:

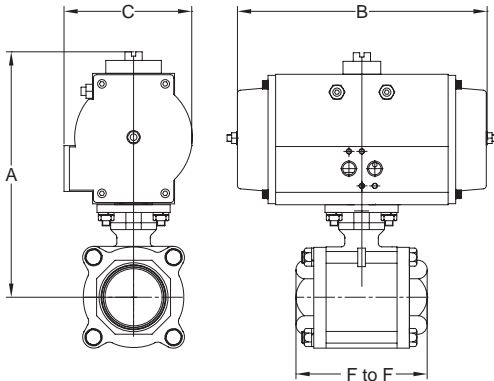
3-Piece Stainless Ball Valve

- 15% glass reinforced RTFE seats
- blow-out proof stainless steel stem
- live-loaded stem packing
- ISO 5211 mounting pad
- swing out in-line easy maintenance
- ½" - 2" rated to **1000 PSI WOG**; 3" rated to **800 PSI WOG**
- temperature range: **-40°F to 400°F**

Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for $\pm 5^\circ$ travel adjustment
- 80 PSI plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40°F to 200°F**
- tested to one million cycles

Spring Return (normally closed)



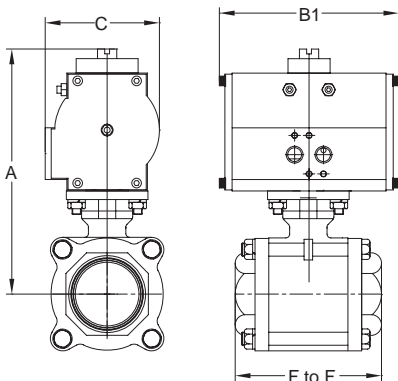
Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	F to F	A	B	C	316 Stainless Steel	
					Part #	Price/E
½"	2.6	7.0	7.7	3.2	BV2IG-05011-BBC ¹	\$587.30
¾"	3.0	7.2	7.7	3.2	BV2IG-07511-BBC ¹	592.60
1"	3.4	6.1	7.7	3.2	BV2IG-10011-BBC	628.50
1¼"	4.0	6.3	7.7	3.2	BV2IG-12511-BBC	686.35
1½"	4.7	7.7	8.1	3.7	BV2IG-15011-BBC	850.70
2"	5.2	8.8	8.1	3.7	BV2IG-20011-BBC	1156.75
3"	7.2	10.2	9.8	4.7	BV2IG-30011-BBC	2269.60
4"	8.9	12.4	10.9	5.5	BV2IG-40011-BBC	4259.25

NEW

¹ bracket and coupler required for ½" and ¾" spring return actuator

Double Acting



Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	F to F	A	B1	C	316 Stainless Steel	
					Part #	Price/E
½"	2.6	5.0	4.7	2.4	BV2IG-05011-BCC	\$373.85
¾"	3.0	5.2	4.7	2.4	BV2IG-07511-BCC	401.00
1"	3.4	6.1	5.7	3.2	BV2IG-10011-BCC	529.65
1¼"	4.0	6.3	5.7	3.2	BV2IG-12511-BCC	587.45
1½"	4.7	7.7	5.9	3.7	BV2IG-15011-BCC	727.85
2"	5.2	8.0	5.9	3.7	BV2IG-20011-BCC	863.75
3"	7.2	10.2	7.2	4.7	BV2IG-30011-BCC	1838.85
4"	8.9	13.8	16.3	7.2	BV2IG-40011-BCC	3069.80

NEW

A wide variety of switches, solenoids, positioners, etc., are available.
Contact Dixon Sanitary at 800.789.1718 or visit bradfordittings.com for details.



Caution !

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For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult the factory when dealing with these types of applications.



Electrically Actuated Brass Ball Valves

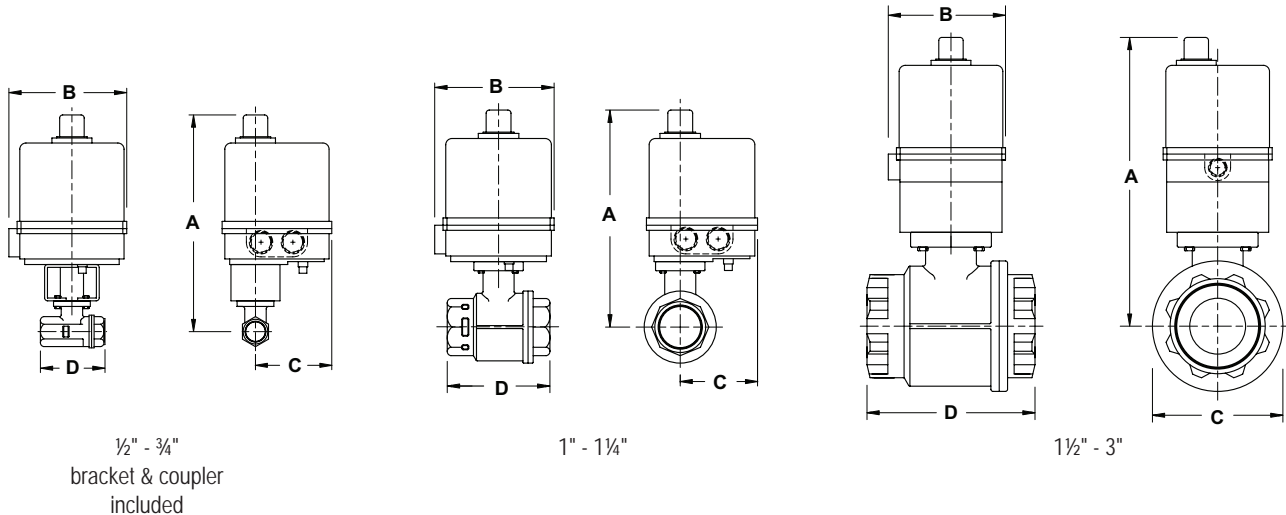
Features:

2-Piece Brass Ball Valve

- brass ball
- FKM elastomers
- blow-out proof brass stem
- PTFE seats with double O-ring stem packing
- ISO 5211 mounting pad
- pressure rating: **600 PSI WOG - 150 PSI WSP**
- maximum temperature: **366°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F to 140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant



Dimensions are approximate.

Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	Override	Brass Part #	110VAC Voltage -EA	24VDC Voltage -EG	12VDC Voltage -ET	220VAC Voltage -EK	24VAC Voltage -ES
½"	8.8	4.5	3.1	2.6	standard	BV2BV-05011	\$865.80	\$865.80	\$865.80	\$865.80	\$973.05
¾"	9.2	4.5	3.1	3.0	standard	BV2BV-07511	877.40	877.35	877.35	877.35	984.60
1"	9.4	4.5	3.1	3.4	standard	BV2BV-10011	902.10	925.00	925.00	902.10	1206.85
1¼"	9.5	4.5	3.1	3.7	standard	BV2BV-12511	976.15	976.20	976.20	976.20	1083.40
1½"	8.7	4.5	3.1	4.1	N/A	BV2BV-15011	1322.85	1347.15	1022.40	1758.30	1452.40
2"	9.0	4.5	3.1	4.8	N/A	BV2BV-20011	1379.10	1452.70	1452.70	1860.10	1531.25
3"	11.8	6.1	5.4	6.9	N/A	BV2BV-30011	2508.35	3255.80	3556.70	2463.80	2771.75

A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc.
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Caution !



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Pneumatically Actuated Brass Ball Valves



Features:

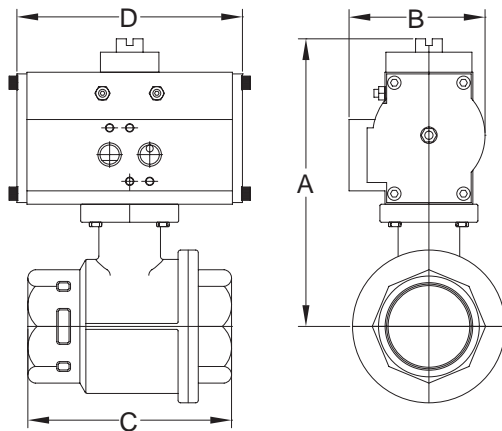
2-Piece Brass Ball Valve

- brass ball
- FKM elastomers
- blow-out proof brass stem
- PTFE seats with double O-ring stem packing
- ISO 5211 mounting pad
- pressure rating: **600 PSI WOG - 150 PSI WSP**
- maximum temperature: **366°F**

Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for $\pm 5^\circ$ travel adjustment
- 80 PSI plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40°F to 200°F**
- tested to one million cycles

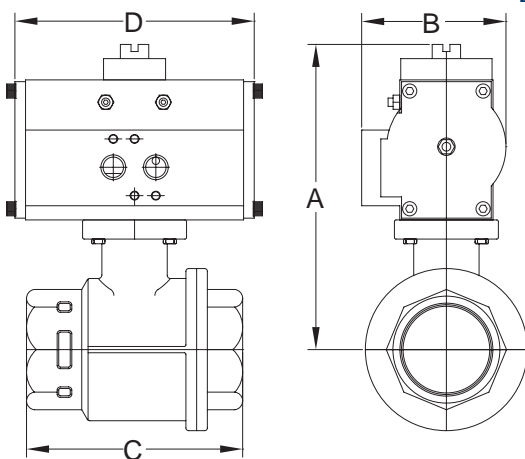
Spring Return (normally closed)



All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	Brass	
					Part #	Price/E
1/4"	4.80	2.80	2.64	5.49	BV2BV-02511-BBC	\$524.15
3/8"	4.80	2.80	2.64	5.49	BV2BV-03811-BBC	510.70
1/2"	4.80	2.80	2.64	5.49	BV2BV-05011-BBC	533.65
3/4"	4.88	2.80	3.00	5.49	BV2BV-07511-BBC	518.25
1"	5.31	2.80	3.35	5.49	BV2BV-10011-BBC	543.00
1 1/4"	5.45	2.80	3.66	5.49	BV2BV-12511-BBC	695.30
1 1/2"	6.04	2.80	4.13	5.49	BV2BV-15011-BBC	741.50
2"	6.40	2.80	4.80	5.49	BV2BV-20011-BBC	991.30
2 1/2"	8.13	3.74	6.10	8.09	BV2BV-25011-BBC	1293.00
3"	8.50	3.74	6.89	8.09	BV2BV-30011-BBC	1855.20
4"	10.14	4.69	8.03	9.84	BV2BV-40011-BBC	2250.30

Double Acting



Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Size	A	B	C	D	Brass	
					Part #	Price/E
1/4"	3.84	1.77	2.64	4.33	BV2BV-02511-BCC	\$375.80
3/8"	3.84	1.77	2.64	4.33	BV2BV-03811-BCC	362.35
1/2"	3.84	1.77	2.64	4.33	BV2BV-05011-BCC	320.20
3/4"	3.92	1.77	3.00	4.33	BV2BV-07511-BCC	419.35
1"	4.35	1.77	3.35	4.33	BV2BV-10011-BCC	444.10
1 1/4"	4.49	1.77	3.66	4.33	BV2BV-12511-BCC	572.50
1 1/2"	6.42	3.20	4.13	5.68	BV2BV-15011-BCC	618.70
2"	6.78	3.20	4.80	5.68	BV2BV-20011-BCC	698.30
2 1/2"	8.13	3.74	6.10	5.87	BV2BV-25011-BCC	1150.10
3"	8.50	3.74	6.89	5.87	BV2BV-30011-BCC	1424.45
4"	10.14	4.69	8.03	7.20	BV2BV-40011-BCC	1819.55

A wide variety of switches, solenoids, positioners, etc., are available.
Contact Dixon Sanitary at 800.789.1718 or visit bradfordittings.com for details.

Caution !



Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult the factory when dealing with these types of applications.



Electrically Actuated 3-Way Stainless Ball Valves - 'T / L' Port

Features:

3-Way Stainless Ball Valve

- full port
- female NPT ends
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- 100% air tested under water at **80 PSI**
- working pressure: ¼" to 1": **1000 PSI**;
1 ¼" to 2": **800 PSI**
- temperature range: **-20°F to 450°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: ½" - 1½"
- working temperature: **-41°F to 140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant

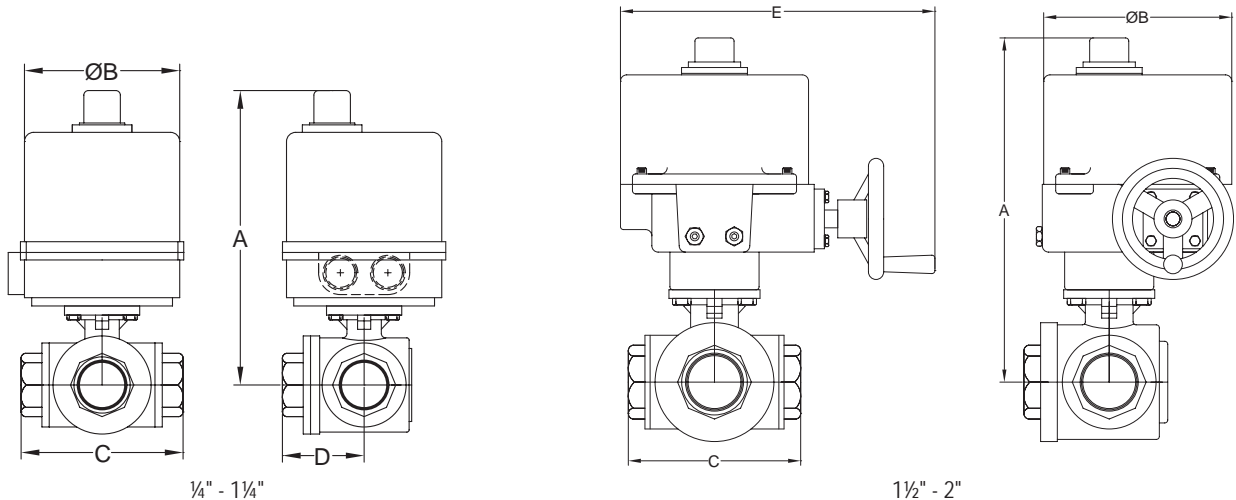


See page 595 for flow path options.

A flow path needs to be selected at time of order. If no flow path is selected, the option number labeled as default will be shipped.

Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.

For spring return actuators: must not fail position.



Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

* T = t style
* L = l style

Size	A	B	C	D	E	Override	316 Stainless Steel Part #	110VAC Voltage -EA	24VDC Voltage -EG	12VDC Voltage -ET	220VAC Voltage -EK	24VAC Voltage -ES
1/4"	9.01	6.06	2.83	1.41	N/A	standard	BV3IG*F-0251	\$1184.10	\$1184.10	\$1184.10	\$1184.10	\$1291.30
3/8"	9.01	6.06	2.83	1.41	N/A	standard	BV3IG*F-0381	1184.10	1184.10	1184.10	1184.10	1291.30
1/2"	9.21	6.06	3.26	1.63	N/A	standard	BV3IG*F-0501	1184.10	1184.10	1184.10	1184.10	1291.30
3/4"	9.21	6.06	3.89	1.94	N/A	standard	BV3IG*F-0751	1313.05	1313.05	1313.05	1313.05	1420.25
1"	9.74	6.06	4.40	2.20	N/A	standard	BV3IG*F-1001	1456.30	1456.30	1456.30	1456.30	1563.50
1 ¼"	10.04	6.06	4.92	2.46	N/A	standard	BV3IG*F-1251	1715.40	1715.40	1715.40	1715.40	1822.60
1 ½"	12.92	7.87	5.86	2.93	12.99	handwheel	BV3IG*F-1501	2817.10	2817.10	2817.10	2817.10	3080.60
2"	13.67	7.87	6.85	3.42	12.99	handwheel	BV3IG*F-2001	3664.70	3664.70	3664.70	3664.70	4392.20

A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc. Contact Dixon Sanitary at 800.789.1718 or visit bradfordfittings.com for details.

Caution !

Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult the factory when dealing with these types of applications.

Pneumatically Actuated 3-Way Stainless Ball Valves - 'T / L' Port

See page 595 for flow path options.

A flow path needs to be selected at time of order. If no flow path is selected, the option number labeled as default will be shipped.

Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.

For spring return actuators: must not fail position.



Features:

3-Way Stainless Ball Valve

- full port
- female NPT ends
- blow-out proof stem
- live-loaded stem packing
- ISO 5211 mounting pad
- 100% air tested under water at **80 PSI**
- working pressure: ¼" to 1": **1000 PSI**;
1¼" to 2": **800 PSI**
- temperature range: **-20°F to 450°F**

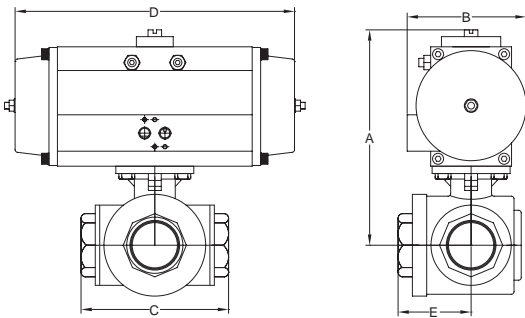
Rack and Pinion Actuator

- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for ±5° travel adjustment
- 80 PSI plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40°F to 200°F**
- tested to one million cycles

Spring Return (normally closed)

All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

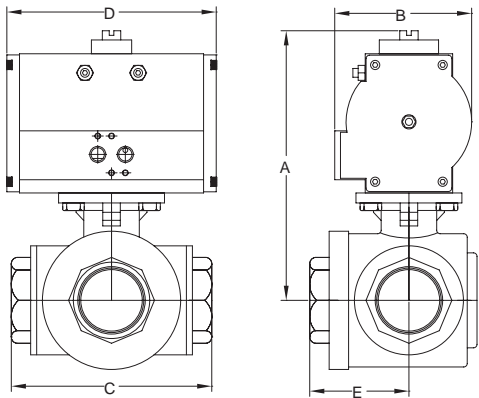
* T = t-style
* L = l-style



Size	A	B	C	D	E	316 Stainless Steel	
						Part #	Price/E
1/4"	5.35	3.20	2.83	7.10	1.41	BV3IG*F-0251BBC	\$852.00
3/8"	5.35	3.20	2.83	7.10	1.41	BV3IG*F-0381BBC	852.00
1/2"	5.55	3.20	3.26	7.10	1.63	BV3IG*F-0501BBC	852.00
3/4"	6.30	3.74	3.89	7.45	1.94	BV3IG*F-0751BBC	1039.40
1"	6.83	3.74	4.40	7.45	2.20	BV3IG*F-1001BBC	1182.65
1¼"	7.13	3.74	4.92	7.45	2.46	BV3IG*F-1251BBC	1612.00
1½"	8.43	4.69	5.86	9.10	2.93	BV3IG*F-1501BBC	1918.55
2"	9.97	5.53	6.85	12.99	3.42	BV3IG*F-2001BBC	3011.55

Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.



Size	A	B	C	D	E	316 Stainless Steel	
						Part #	Price/E
1/4"	5.35	3.20	2.83	7.10	1.41	BV3IG*F-0251BCC	\$753.10
3/8"	5.35	3.20	2.83	7.10	1.41	BV3IG*F-0381BCC	753.10
1/2"	5.55	3.20	3.26	7.10	1.63	BV3IG*F-0501BCC	753.10
3/4"	6.30	3.74	3.89	7.45	1.94	BV3IG*F-0751BCC	855.00
1"	6.83	3.74	4.40	7.45	2.20	BV3IG*F-1001BCC	1059.85
1¼"	7.13	3.74	4.92	7.45	2.46	BV3IG*F-1251BCC	1479.00
1½"	8.43	4.69	5.86	9.10	2.93	BV3IG*F-1501BCC	1785.60
2"	9.97	5.53	6.85	12.99	3.42	BV3IG*F-2001BCC	2580.75

A wide variety of switches, solenoids, positioners, etc., are available. Contact Dixon Sanitary at 800.789.1718 or visit bradfordfittings.com for details.

Caution !



Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.
For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult the factory when dealing with these types of applications.



Electrically Actuated 3-Way Brass Ball Valves - 'T / L' Port

Features:

3-Way Brass Ball Valve

- reduced port
- blow-out proof stem
- chrome-plated brass ball
- PTFE seats with O-ring backing for low operating torque
- PTFE seats and double O-ring stem packing
- ISO 5211 mounting pad
- 100% tested
- pressure rating: **400 PSI WOG 100 PSI WSP**
- maximum temperature: **344°F**

Electric Actuator

- lightweight powder coated aluminum alloy housing
- NEMA 4/4X waterproof and dustproof
- extended duty cycle induction motor
- high alloy steel gear train
- H-insulation class
- visual position indication
- space heater is standard
- manual override standard: 1/2" - 1 1/2"
- working temperature: **-41°F to 140°F**
- ISO 9001, CS, CE and CSA-C US Certified
- RoHS compliant

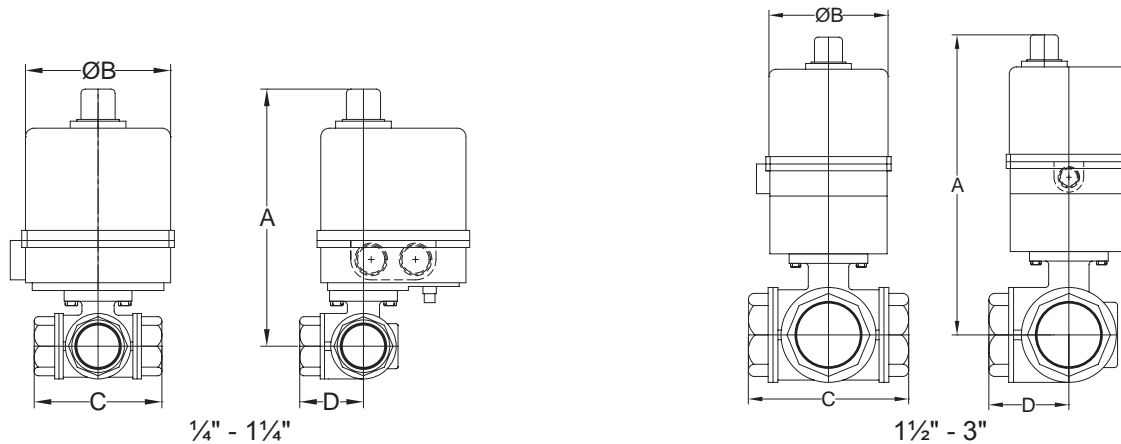


See page 595 for flow path options.

A flow path needs to be selected at time of order. If no flow path is selected, the option number labeled as default will be shipped.

Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.

For spring return actuators: must not fail position.



Dimensions are approximate. Engineering dimensions are available upon request.
Specifications are subject to change without notice.

* T = t-style
* L = l-style

Size	A	B	C	D	Override	Brass Part #	110VAC Voltage -EA	24VDC Voltage -EG	12VDC Voltage -ET	220VAC Voltage -EK	24VAC Voltage -ES
1/4"	8.76	6.06	2.64	1.32	standard	BV3BV*R-0251	\$955.60	\$955.60	\$955.60	\$955.60	\$955.60
3/8"	8.76	6.06	2.64	1.32	standard	BV3BV*R-0381	955.60	955.60	955.60	955.60	955.60
1/2"	8.76	6.06	2.87	1.44	standard	BV3BV*R-0501	955.60	955.60	955.60	955.60	955.60
3/4"	8.85	6.06	3.19	1.60	standard	BV3BV*R-0751	979.15	979.15	979.15	979.15	979.15
1"	9.19	6.06	3.74	1.87	standard	BV3BV*R-1001	1012.70	1012.70	1012.70	1012.70	1012.70
1 1/4"	9.41	6.06	4.39	2.20	standard	BV3BV*R-1251	1117.25	1117.25	1117.25	1117.25	1117.25
1 1/2"	9.90	6.06	4.86	2.43	N/A	BV3BV*R-1501	1381.05	1381.05	1381.05	1381.05	1381.05
2"	10.89	4.25	5.73	2.87	N/A	BV3BV*R-2001	1988.95	1988.95	1988.95	1988.95	1988.95
2 1/2"	11.34	4.25	6.93	3.47	N/A	BV3BV*R-2501	2911.35	2911.35	2911.35	2911.35	2911.35
3"	11.34	4.25	7.08	3.54	N/A	BV3BV*R-3001	2780.25	2780.25	2780.25	2780.25	2780.25

A wide variety of options are available: modulating, extra switches, transmitters, potentiometer, etc.
Contact Dixon Sanitary at 800.789.1718 or visit bradfordittings.com for details.

Caution !

Even though there are torque safety factors built into our automated ball valve packages, actual service conditions must also be considered when selecting the proper product for the appropriate application.

For example: Severe service conditions such as dirty water, dirty air, all slurries, raw sewage water, oils, and other viscous fluids can have a dramatic affect in raising the torque requirements of ball valves as much as 75% and therefore larger actuators may be required. Please consult the factory when dealing with these types of applications.

Pneumatically Actuated 3-Way Brass Ball Valves - 'T / L' Port

See page 595 for flow path options.

A flow path needs to be selected at time of order. If no flow path is selected, the option number labeled as default will be shipped.

Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.

For spring return actuators: must not fail position.



Features:

3-Way Brass Ball Valve

- reduced port
- blow-out proof stem
- chrome-plated brass ball
- PTFE seats with O-ring backing for low operating torque
- PTFE seats and double O-ring stem packing
- ISO 5211 mounting pad
- 100% tested
- pressure rating: **400 PSI WOG 100 PSI WSP**
- maximum temperature: **344°F**

Rack and Pinion Actuator

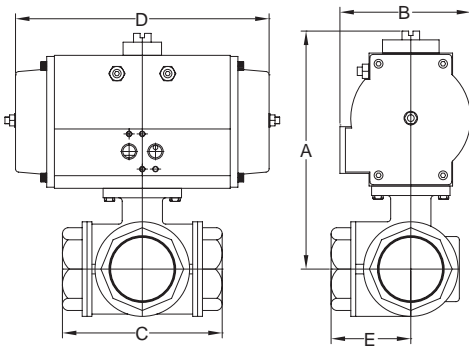
- hard anodized aluminum body
- nickel plated anti-blowout pinion
- Buna-N O-rings
- NAMUR mounting
- bi-directional stops for $\pm 5^\circ$ travel adjustment
- 80 PSI plant air required
- visual position indication
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40°F to 200°F**
- tested to one million cycles

Spring Return (normally closed)

All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

* T = t-style

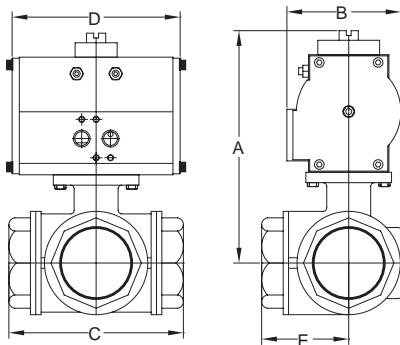
* L = l-style



Size	A	B	C	D	E	Brass	
						Part #	Price/E
1/4"	4.72	2.80	2.64	5.49	1.32	BV3BV*R-0251BBC	\$626.30
3/8"	4.72	2.80	2.64	5.49	1.32	BV3BV*R-0381BBC	626.30
1/2"	4.72	2.80	2.87	5.49	1.44	BV3BV*R-0501BBC	626.30
3/4"	4.81	2.80	3.19	5.49	1.60	BV3BV*R-0751BBC	663.15
1"	6.28	3.74	3.74	7.45	1.87	BV3BV*R-1001BBC	774.35
1 1/4"	6.50	3.74	4.39	7.45	2.20	BV3BV*R-1251BBC	900.85
1 1/2"	6.99	3.74	4.86	7.45	2.43	BV3BV*R-1501BBC	1189.35
2"	8.45	4.69	5.73	9.10	2.87	BV3BV*R-2001BBC	1669.00
2 1/2"	8.90	4.69	6.93	9.10	3.47	BV3BV*R-2501BBC	2574.20
3"	8.90	4.69	7.08	9.10	3.54	BV3BV*R-3001BBC	2511.55

Double Acting

Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.



Size	A	B	C	D	E	Brass	
						Part #	Price/E
1/4"	3.76	1.77	2.64	4.33	1.32	BV3BV*R-0251BCC	\$479.20
3/8"	3.76	1.77	2.64	4.33	1.32	BV3BV*R-0381BCC	479.20
1/2"	3.76	1.77	2.87	4.33	1.44	BV3BV*R-0501BCC	489.00
3/4"	3.85	1.77	3.19	4.33	1.60	BV3BV*R-0751BCC	528.50
1"	5.53	3.20	3.74	5.32	1.87	BV3BV*R-1001BCC	637.05
1 1/4"	5.75	3.20	4.39	5.32	2.20	BV3BV*R-1251BCC	768.85
1 1/2"	6.24	3.20	4.86	5.32	2.43	BV3BV*R-1501BCC	1016.15
2"	7.55	3.74	5.73	5.51	2.87	BV3BV*R-2001BCC	1434.15
2 1/2"	8.00	3.74	6.93	5.51	3.47	BV3BV*R-2501BCC	2295.90
3"	8.00	3.74	7.08	5.51	3.54	BV3BV*R-3001BCC	2241.95

A wide variety of switches, solenoids, positioners, etc., are available.
Contact Dixon Sanitary at 800.789.1718 or visit bradfordittings.com for details.



Caution !

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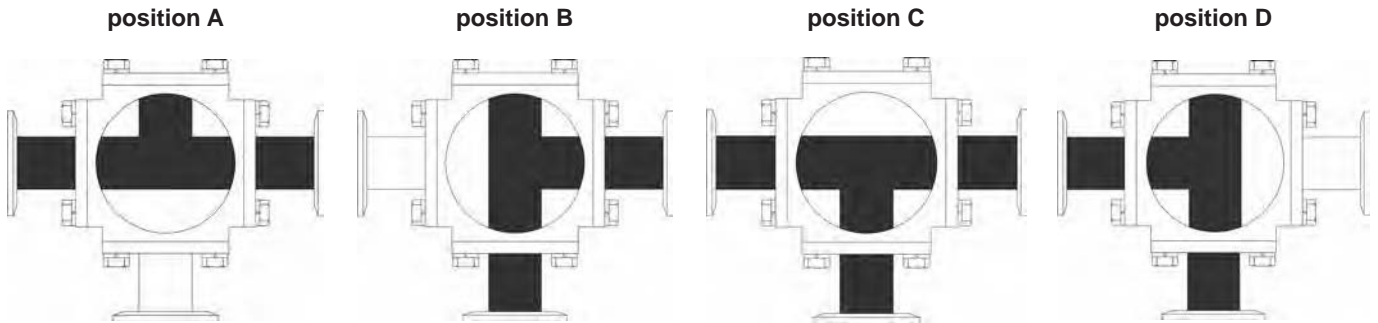
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3-Way Ball Valve Flow Options

'T' Pattern, Side Entry

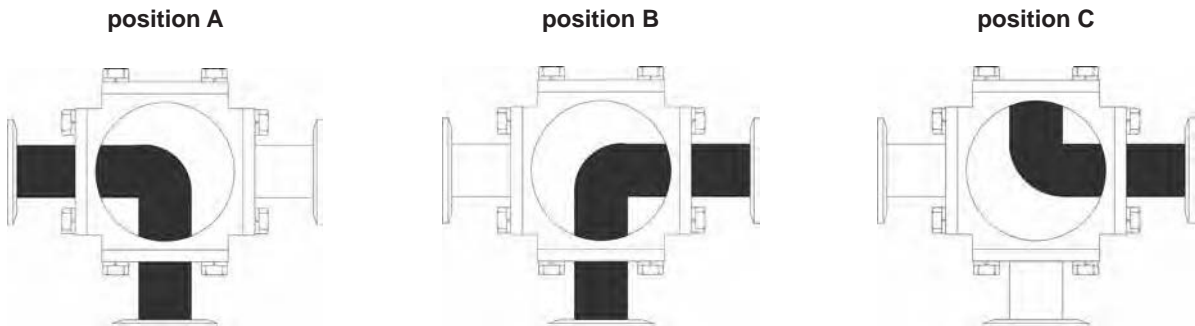
Top view



Number	Rotation	Flow Plan Options
1	90°	A, B
2	90°	B, C
3	90°	C, D
4 (Default)	90°	A, D

'L' Pattern, Side Entry

Top view



Number	Rotation	Flow Plan Options
1 (Default)	90°	A, B
2	180°	A, B, C

- A flow path needs to be selected at time of order. If no flow path is selected, the option number labeled as default will be shipped.
- Customer verification is critical. If flow path needs to be changed after being shipped, labor and shipping charges will apply.
- For spring return actuators: must not fail position.
- Please call Dixon Sanitary at 800.789.1718 for further information.

Actuation

All Bradford™ actuators, accessories and mounting hardware can be sold separately, call Dixon Sanitary at 800.789.1718 for details.

- Dixon Sanitary can actuate all of our butterfly and ball valves with Bradford™ actuators.
- Dixon Sanitary ships all actuated valves from the Valve Automation Department in Wisconsin.
- Bradford™ actuators are tested to one million cycles and are backed with a one year manufacturer's warranty.
- Our professionally trained specialists assemble and test each automation package to guarantee performance in the field.
- Documentation is filed on each automated valve package in case it is needed at any point in the future.
- Each unit is individually foam packed to ensure they arrive in top condition.
- Most standard orders can be shipped within 24 hours.



rack & pinion actuators

- 90° and 180° rotation
- spring return and double acting
- bi-directional travel stops
- available in stainless steel, aluminum and technopolymer materials

pneumatic stainless steel canister actuators

- vertical with or without control top
- vertical - spring return and double acting
- horizontal - double acting



electric actuators

- variety of voltages
- manual overrides
- feedback and modulation available

Actuated Valve Accessories

Limit Switches

Features:

- visual position indicator
- 3D open/close indication
- quick-set cam
- mechanical SPDT switches (standard)
- multipoint terminal strip
- various switch options available
- cable entry: (2) 1/2" NPT

Enclosures available:

NEMA 4 4/X

- water and dust tight for indoor or outdoor use
- corrosion resistant

NEMA 7

- water and dust tight for indoor or outdoor use
- corrosion resistant
- for use in indoor hazardous locations
- explosion proof



Enclosure	Part #	Price/E
NEMA 4/4X	XLS-B4A0120P	\$295.75
NEMA 7	XLS-C7A0120P	616.40

Features:

- pressure range: 30 PSI to 150 PSI
- duty cycle: 100% extended duty
- voltages available:
12VDC, 24VDC, 24VAC, 48VAC, 110VAC, 220VAC
- electroless nickel plated spool
- easy-to-use manual override
- port sizes: inlet and exhaust 1/4" NPT

Enclosures available:

NEMA 4 4/X

- water and dust tight for indoor or outdoor use
- corrosion resistant

Solenoids



Description	Part #	Price/E
single coil, 115VAC	XSO-4S4D-0A	\$191.05
single coil, 24VDC	XSO-4S4B-0A	191.05
dual coil, 115VAC	XSO-4D4D-0A	306.10
dual coil, 24VDC	XSO-4D4B-0A	306.10

Features:

- air capacity:
at 29 PSI (200kPa): 9.5 SCFM
at 87 PSI (600kPa): 28.3 SCFM
at 145 PSI (1MPa): 47.1 SCFM
- air connections: 1/4" NPT
- gauges: 1/8" NPT
- cable entry: 1/2" NPT

Electro-Pneumatic

- input range: 4-20mA (Ri<250ohms)
- supply pressure: 21.8 to 145 PSI (0.15 to 1MPa)
- linearity error: <1.0% f.s
- hysteresis: <0.6% f.s
- repeatability: <0.5% f.s

Pneumatic

- input range: 3 to 15 PSI (20-100kPa)
- supply pressure: < 145 PSI (<1MPa)
- linearity error: <0.7% f.s
- hysteresis: <0.4% f.s
- repeatability: <0.3% f.s

Positioners



Positioner Type	Part #	Price/E
Electro-Pneumatic	XPO-E4F	\$2343.40
Pneumatic	XPO-P4F	1094.00

Speed Control Mufflers

Features:

- maximum operating pressure: **300 PSI**
- operating temperature: **35°F to 300°F**

NPT Thread Size	Approx. Full Oper. Heigh	Maximum Adjusted SCFM	2011T3 Aluminum		Brass	
			Part #	Price/E	Part #	Price/E
1/8"	1-5/16"	20	ASC18	\$8.00	SCM18	\$6.30
1/4"	1-9/16"	30	ASC28	9.10	SCM28	7.30
3/8"	1-5/8"	40	ASC38	12.10	SCM38	10.50
1/2"	2"	60	ASC48	16.50	SCM48	16.30
3/4"	2-3/8"	70	ASC68	28.95	SCM68	21.75
1"	2-1/2"	100	ASC88	35.85	SCM88	39.50



aluminum



brass

Pneumatically Actuated Wafer **Butterfly Valves**

Valves

Features:

- cast iron body with extended neck
- nickel plated ductile iron disc
- seat backing ring ensures blowout proof service
- installs between standard ANSI Class 150# flanges
- conforms to MSS-SP-67, MSS-SP-25, API-609
- no taper pins

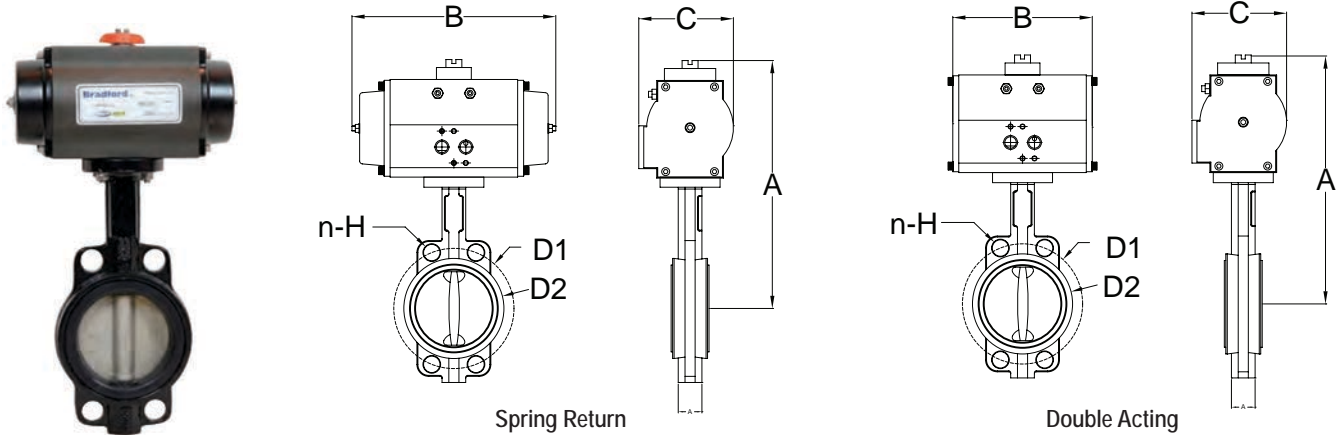
- field repairable (seat kits available)
- undercut available
- replaceable EPDM seat
- maximum pressure **200 PSI** (bi-directional)
- temperature range **-20°F to 250°F**
- a wide variety of seat, disc and body materials are available

Rack and Pinion Actuator

Features:

- bi-directional stops for $\pm 5^\circ$ travel adjustment
- 80 PSI plant air required
- maximum operating pressure: 120 PSI
- operating temperature range: **-40°F to +200°F**
- hard anodized aluminum body

- Namur mounting
- nickel plated anti-blowout pinion
- Buna-N O-rings
- visual position indication
- tested to 1 million cycles



All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Wafer Spring Return

Size	A	B	C	D1	D2	n-H	Part #	Price/E
1½"	9.61	8.09	3.74	3.88	3.74	4-18	B5121E150WW-BBC	\$694.60
2"	9.80	8.09	3.74	4.75	3.82	4-18	B5121E200WW-BBC	697.05
2½"	11.65	9.84	4.69	5.50	4.45	4-18	B5121E250WW-BBC	909.55
3"	11.89	9.84	4.69	6.00	4.92	4-18	B5121E300WW-BBC	930.15
4"	12.63	9.84	4.69	7.50	6.14	4-22	B5121E400WW-BBC	988.20
5"	13.94	13.98	5.53	8.50	7.36	4-22	B5121E500WW-BBC	1354.80
6"	14.45	13.98	5.53	9.50	8.46	4-22	B5121E600WW-BBC	1411.15
8"	17.17	16.60	7.29	11.75	10.51	4-22	B5121E800WW-BBC	2654.20
10"	19.21	19.17	8.06	14.25	13.00	4-26	B5121E1000WWBCC	3396.60
12"	22.87	25.28	9.37	17.00	14.96	4-26	B5121E1200WWBCC	8413.35

Wafer Double Acting

Size	A	B	C	D1	D2	n-H	Part #	Price/E
1½"	9.61	5.87	3.74	3.88	3.74	4-18	B5121E150WW-BCC	\$568.75
2"	9.80	5.87	3.74	4.75	3.82	4-18	B5121E200WW-BCC	571.15
2½"	10.75	5.87	3.74	5.50	4.45	4-18	B5121E250WW-BCC	589.15
3"	10.99	5.87	3.74	6.00	4.92	4-18	B5121E300WW-BCC	609.75
4"	11.73	5.87	3.74	7.50	6.14	4-22	B5121E400WW-BCC	695.40
5"	13.15	7.20	4.69	8.50	7.36	4-22	B5121E500WW-BCC	923.45
6"	13.66	7.20	4.69	9.50	8.46	4-22	B5121E600WW-BCC	979.80
8"	15.79	10.22	5.53	11.75	10.51	4-22	B5121E800WW-BCC	1478.55
10"	17.05	10.22	5.53	14.25	13.00	4-26	B5121E1000WWBCC	1527.85
12"	20.20	11.98	7.29	17.00	14.96	4-26	B5121E1200WWBCC	2597.30

Pneumatically Actuated Lug **Butterfly Valves**

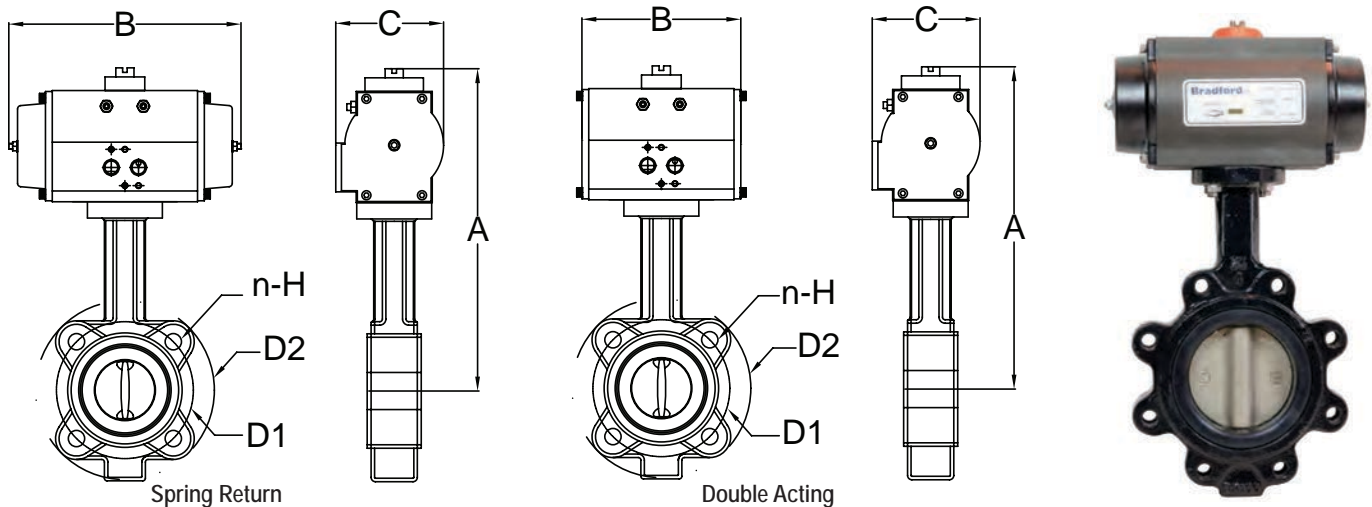
Valves

Features:

- cast iron body with extended neck
- nickel plated ductile iron disc
- seat backing ring ensures blowout proof service
- installs between standard ANSI Class 150# flanges
- conforms to MSS-SP-67, MSS-SP-25, API-609
- no taper pins
- field repairable (seat kits available)
- undercut available
- replaceable EPDM seat
- maximum pressure **200 PSI** (bi-directional)
- temperature range **-20°F to 250°F**
- a wide variety of seat, disc and body materials are available

Features:

- bi-directional stops for $\pm 5^\circ$ travel adjustment
- 80 PSI plant air required
- maximum operating pressure: **120 PSI**
- operating temperature range: **-40°F to +200°F**
- hard anodized aluminum body
- Namur mounting
- nickel plated anti-blowout pinion
- Buna-N O-rings
- visual position indication
- tested to 1 million cycles
- a wide variety of switches, solenoids, positioners, etc., are available, contact the factory for details



All dimensions are given in inches, unless noted. Dimensions are approximate. Engineering dimensions are available upon request. Specifications are subject to change without notice.

Lug Spring Return

Size	A	B	C	D1	D2	n-H	Part #	Price/E
2"	9.80	8.09	3.74	.75	5.95	4-5/8-11 UNC	B5121E200LL-BBC	\$717.20
2½"	11.65	9.84	4.69	5.50	6.97	4-5/8-11 UNC	B5121E250LL-BBC	951.15
3"	11.89	9.84	4.69	6.00	7.56	4-5/8-11 UNC	B5121E300LL-BBC	979.50
4"	12.63	9.84	4.69	7.50	8.35	8-5/8-11 UNC	B5121E400LL-BBC	1066.15
5"	13.94	13.98	5.53	8.50	9.53	8-5/8-11 UNC	B5121E500LL-BBC	1455.45
6"	14.45	13.98	5.53	9.50	11.02	8-5/8-11 UNC	B5121E600LL-BBC	1520.15
8"	17.17	16.60	7.29	11.75	13.19	8-5/8-11 UNC	B5121E800LL-BBC	2780.35
10"	19.21	19.17	8.06	14.25	15.94	12-7/8-9 UNC	B5121E1000LLBBC	3855.00
12"	22.87	25.28	9.37	17.00	19.09	12-7/8-9 UNC	B5121E1200LLBBC	6319.00

Lug Double Acting

Size	A	B	C	D1	D2	n-H	Part #	Price/E
2"	9.80	5.87	3.74	4.75	5.95	4-5/8-11 UNC	B5121E200LL-BCC	\$591.30
2½"	10.75	5.87	3.74	5.50	6.97	4-5/8-11 UNC	B5121E250LL-BCC	630.75
3"	10.99	5.87	3.74	6.00	7.56	4-5/8-11 UNC	B5121E300LL-BCC	659.10
4"	11.73	5.87	3.74	7.50	8.35	8-5/8-11 UNC	B5121E400LL-BCC	773.30
5"	13.15	7.20	4.69	8.50	9.53	8-5/8-11 UNC	B5121E500LL-BCC	1024.10
6"	13.66	7.20	4.69	9.50	11.02	8-5/8-11 UNC	B5121E600LL-BCC	1088.80
8"	15.79	10.22	5.53	11.75	13.19	8-5/8-11 UNC	B5121E800LL-BCC	1604.70
10"	17.05	10.22	5.53	14.25	15.94	12-7/8-9 UNC	B5121E1000LLBCC	1998.50
12"	20.20	11.98	7.29	17.00	19.09	12-7/8-9 UNC	B5121E1200LLBCC	3159.60

Cast Iron Y Line Strainers

Features:

- cast iron body, female x female NPT ends
- graphite gasket
- **400 PSI WOG, 250 PSI** working steam pressure
- plug ported for blowdown service
- no replacement screens available



products used with the strainer:

- MNPT threaded close nipples, page 628
- brass ball valves, page 577
- MNPT threaded plugs, page 622

NPT Size	Description	Cast Iron	
		Part #	Price/E
1/4"	20 x 20 mesh	Y001	\$28.30
3/8"	20 x 20 mesh	Y002	28.30
1/2"	20 x 20 mesh	Y003	33.95
3/4"	20 x 20 mesh	Y004	41.50
1"	20 x 20 mesh	Y005	51.85
1-1/4"	20 x 20 mesh	Y006	73.45
1-1/2"	20 x 20 mesh	Y007	90.45
2"	20 x 20 mesh	Y008	135.65

Bronze Y Line Strainers

Features:

- cast bronze body, female x female NPT ends
- **400 PSI WOG, 300 PSI** working steam pressure



NPT Size	Description	Bronze		304 Stainless Replacement Screens	
		Part #	Price/E	Part #	Price/E
1/4"	50 x 50 mesh	59-001	\$47.55	G3271-00	\$6.15
3/8"	50 x 50 mesh	59-002	47.55	G2457-00	6.65
1/2"	50 x 50 mesh	59-003	47.55	G2457-00	6.25
3/4"	20 x 20 mesh	59-004	90.15	G3224-00	6.00
1"	20 x 20 mesh	59-005	119.40	G3225-00	13.20
1-1/4"	20 x 20 mesh	59-006	214.85	G3231-00	18.45
1-1/2"	20 x 20 mesh	59-007	238.35	G3229-00	19.90
2"	20 x 20 mesh	59-008	390.70	G3230-00	15.40

Polypropylene Y Line Strainers

Features:

- protects and prevents clogging of pipelines, pumps and spray tips
- glass-filled polypropylene body, female x female NPT ends
- easy access for cleaning
- maximum working pressure **90 PSI** at 70°F



NPT Size	Description	Polypropylene		304 Stainless Replacement Screen	
		Part #	Price/E	Part #	Price/E
3/4"	40 mesh	PYLS7540	\$34.40	61450	\$16.10
1"	40 mesh	PYLS10040	42.80	61746	17.10
1 1/2"	40/20 mesh	PYLS15040	93.75	61509	40.40
2"	40/20 mesh	PYLS20040	93.75	61509	40.40

Polypropylene T Line Strainers

Features:

- white polypropylene allows easy inspection
- female x female NPT ends
- 40 mesh stainless steel screen
- maximum working pressure **100 PSI** at 70°F



NPT Size	Description	Polypropylene		304 Stainless Replacement Screen	
		Part #	Price/E	Part #	Price/E
3/4"	40 mesh	PTLS7540	\$25.45	61405	\$10.50
1"	40 mesh	PTLS10040	25.45	61405	10.50

Polypropylene Single Union Ball Valves

Features:

- rated to **125 PSI** at 70°F
- corrosion resistant polypropylene
- PTFE ball seats
- EPDM O-rings
- FDA approved material
- full port

female NPT x female NPT

Size	Port Type	Polypropylene		Pkg Qty
		Part #	Price/E	
1/2"	full	SUBV50	\$19.40	24
3/4"	full	SUBV75	21.00	24
1"	full	SUBV100	26.90	24
1 1/4"	full	SUBV125	44.75	12
1 1/2"	full	SUBV150	55.00	12
2"	full	SUBV200	70.00	12
3"	full	SUBV300	207.25	4



Polypropylene 45° Single Union Nozzle Valve

Features:

- rated to **125 PSI** at 70°F
- corrosion resistant polypropylene
- PTFE ball seats
- EPDM O-rings
- FDA approved material
- full port

female NPT x nozzle

Size	Polypropylene		Pkg Qty
	Part #	Price/E	
1"	SUBVN100	\$28.00	24



P

Polypropylene Bolted Ball Valves

Features:

- ½" - 3" is rated to **125 PSI** at 70°F; 4" is rated to **90 PSI** at 70°F
- chemically-resistant, reinforced polypropylene
- PTFE ball seats
- EPDM O-ring body seals, Viton® O-ring stem seals
- 304 stainless steel nuts and bolts
- FDA approved material

4-bolt valve design

Feature:

- PVFP style is full port; PV style is standard port



female NPT x female NPT

Size	Port Type	Polypropylene		Opt Qty
		Part #	Price/E	
½"	full	PVFP50	\$45.90	24
¾"	full	PVFP75	45.90	24
1"	full	PVFP100	53.50	24
1½"	full	PVFP150	68.30	24
1"	standard	PV100	45.90	24
2"	standard	PV200	66.30	24

6-bolt valve design

Feature:

- full port



female NPT x female NPT

Size	Port Type	Polypropylene		Opt Qty
		Part #	Price/E	
2"	full	PVFP200	\$97.00	12
3"	full	PVFP300	233.40	8
4"	full	PVFP400	471.00	4

Polypropylene Bolted Ball Valve with Nozzle

Features:

- rated to **125 PSI** at 70°F
- chemically-resistant, reinforced polypropylene
- PTFE ball seat
- EPDM O-ring body seals, Viton® O-ring stem seals
- 304 stainless steel nuts and bolts
- FDA approved material
- body-to-flange design allows for low torque operation
- PVFPN style is full port; PVN style is standard port



female NPT x nozzle

Size	Port Type	Polypropylene		Opt Qty
		Part #	Price/E	
1½"	full	PVFPN150	\$93.40	12
2"	full	PVFPN200	131.75	9
2"	standard	PVN200	96.25	12

P

Polypropylene Compact Bolted Ball Valves

Features:

- rated to **125 PSI** at 70°F
- chemically-resistant, reinforced polypropylene
- PTFE ball seats
- EPDM O-ring body seals, Viton® O-ring stem seals
- 304 stainless steel nuts and bolts
- FDA approved material
- full port



female NPT x female NPT

Size	Port Type	Body Length	Polypropylene	
			Part #	Price/E
2"	full	4-7/8"	PVFP200	\$76.50



female NPT x male adapter

Size	Port Type	Body Length	Polypropylene	
			Part #	Price/E
2"	full	6-7/8"	PVFP200	\$76.50

Ductile Iron **Butterfly Valves**

! NOT RECOMMENDED FOR STEAM SERVICE

- for use between two 150 lb. flanges
- will lock "open" or "closed"
- rated to **200 PSI** at ambient temperature (70°F)

Features:

- ductile iron body, ASTM A536
- aluminum bronze disc, ASTM B148, ALY.954
- Buna-N seal and stem seals
- PTFE bushing
- stainless steel top and bottom stems
- The number of holes on the valve should match the number of holes for the specific flange size, refer to the Pipe and Flange dimensions chart on page 713.

threaded lug style with aluminum bronze disc

Size	with Buna-N liner		with EPDM liner	
	Part #	Price/E	Part #	Price/E
2"	BFVL200	\$145.00	BFVL200E	\$145.00
3"	BFVL300	181.25	BFVL300E	181.25
4"	BFVL400	270.00	BFVL400E	270.00
6"	BFVL600	475.00	BFVL600E	475.00



Features:

- ductile iron body, ASTM A536
- aluminum bronze disc, ASTM B148, ALY.954
- Buna-N seal and stem seals
- PTFE bushing
- stainless steel top and bottom stems
- The number of holes on the valve depends on the body size.

wafer style with aluminum bronze disc

Size	with Buna-N liner		with EPDM liner	
	Part #	Price/E	Part #	Price/E
2"	BBFVW200	\$133.00	BBFVW200E	\$133.00
3"	BBFVW300	170.00	BBFVW300E	170.00
4"	BBFVW400	240.00	BBFVW400E	240.00
6"	BBFVW600	420.00	BBFVW600E	420.00



Features:

- ductile iron body, ASTM A536
- stainless steel disc, ASTM A351, GR. CF-8M
- Buna-N seal and stem seals
- PTFE bushing
- stainless steel top and bottom stems
- The number of holes on the valve depends on the body size.

wafer style with stainless disc

Size	with Buna-N liner	
	Part #	Price/E
2"	BFVW200	\$150.00
3"	BFVW300	185.00
4"	BFVW400	250.00
6"	BFVW600	527.85



Features:

- ductile iron body, ASTM A536
- nickel plated ductile iron disc
- Buna-N seal and stem seals
- PTFE bushing
- 416 stainless stem
- The number of holes on the valve depends on the body size.

wafer style with nickel plated ductile iron disc

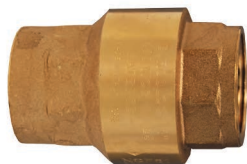
Size	with Buna-N liner	
	Part #	Price/E
3"	IBFVW300	\$87.00
4"	IBFVW400	115.00
6"	IBFVW600	177.00
8"	IBFVW800	286.00



NEW
FOR 2013



Spring-Loaded Check Valves

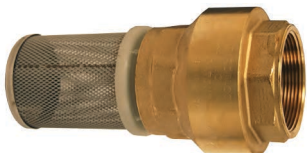
**Features:**

- ½" - 2" rated to **400 PSI** WOG; 3" - 4" rated to **175 PSI** WOG
- cracking pressure: 0.50 PSI
- NBR seat
- soft seat for bubble tight shutoff, spring loaded for fast seating action
- flow profile designed to minimize head loss
- temperature range **10°F** to **210°F** (-10°C to 100°C)
- Underwriters approved

NPT Size	Brass	
	Part #	Price/E
½"	CV050 ¹	\$18.60
¾"	CV075 ¹	25.00
1"	CV100 ¹	34.00
1¼"	CV125 ¹	53.00
1½"	CV150 ¹	79.30
2"	CV200 ¹	112.75
3"	CV300	355.90
4"	CV400	550.00

¹ NSF61 approved

Strainer with Spring-Loaded Check Valves

**Features:**

- 1½" - 2" rated to **400 PSI** WOG; 3" - 4" rated to **175 PSI** WOG
- cracking pressure: 0.50 PSI
- NBR seat
- stainless steel strainer
- soft seat for bubble tight shutoff, spring loaded for fast seating action
- flow profile designed to minimize head loss
- temperature range **10°F** to **210°F** (-10°C to 100°C)
- Underwriters approved

NPT Size	Brass	
	Part #	Price/E
1½"	BVFS20 ¹	\$89.60
2"	BVFS25 ¹	129.00
3"	BVFS35	379.50
4"	BVFS40	572.50

¹ NSF61 approved

Horizontal Swing Check Valves

Features:

- brass disc
- for horizontal or vertical use
- Swing check valves are designed to prevent back flow in plumbing and liquid piping systems, while offering full flow performance with a minimum of turbulence or pressure loss.
- A positive seating disc allows flow only in one direction and a screw-in cap provides easy access for periodic cleaning.
- rated to **200 PSI** WOG
- temperature range **-20°** to **150°F**

female NPT x female NPT

Size	Brass	
	Part #	Price/E
½"	SWCV50	\$19.90
¾"	SWCV75	26.10
1"	SWCV100	35.55
1¼"	SWCV125	52.95
1½"	SWCV150	71.10
2"	SWCV200	104.85
3"	SWCV300	309.80

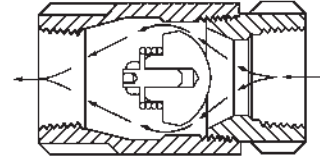
Ball Cone Check Valves

Features:

- For use with water, oil, air lines or inert gases. Not recommended for use on or near reciprocating pumps or other similar vibration causing machinery.
- tight shut-off with liquid media
- no radial alignment necessary
- straight through and streamlined for minimum change in velocity
- Reinforced TFE check is spring loaded for fast seating action.
- rated to **400 PSI** WOG, cold non-shock; **125 PSI** saturated steam
- cracking pressure: .5 PSI
- temperature range **-20°F** to **353°F**

Pressure Ratings

Degrees in Farenheit	Pressure WOG
-20 to 100	400
200	200
250	160
275	150
300	140
325	130
353	125



female NPT x female NPT

Size	Brass		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1/4"	61-101	\$59.00	62-101	\$133.00
3/8"	61-102	59.00	62-102	133.00
1/2"	61-103	59.00	62-103	156.90
3/4"	61-104	84.00	62-104	251.60
1"	61-105	113.25	62-105	342.50
1-1/4"	61-106	200.00	62-106	479.50
1-1/2"	61-107	255.00	62-107	650.00
2"	61-108	420.00	62-108	1120.00
2-1/2"	61-109	850.00	---	---
3"	61-100	1417.50	---	---



male NPT x female NPT

Size	Brass	
	Part #	Price/E
1/4"	61-201	\$78.00
3/8"	61-202	78.00
1/2"	61-203	78.00
3/4"	61-204	102.00
1"	61-205	148.00
1-1/4"	61-206	250.00
1-1/2"	61-207	315.00
2"	61-208	530.00



Hammer Unions

206 Series

Features:

- Socket weld configurations and other materials are available, contact the factory for further information.
- Hammer unions work at extremely high pressures. Mismatching components of one series with another (i.e. series 602 with series 1502) can lead to destruction of property, serious bodily injury or death.
- temperature rating: **-25°F to 200°F**
- non-shocking cold water pressure means that the rated value is the maximum pressure at ambient temperature:
 - no spikes higher than this pressure
 - no instantaneous pressure increases (0-2000 PSIG in ¼ of a second)
 - ambient temperature: 70°F



100 Series

Features:

- used on low pressure manifolds and lines and in applications running air, water, oil or gas up to 1,000 PSI NSCWP (non-shock cold working pressure)
- yellow sub, black nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
2"	threaded 100 series	1000	HU100200	\$51.90
2"	buttweld 100 series	1000	HU100200BW¹	82.35
2½"	threaded 100 series	1000	HU100250	150.00
3"	threaded 100 series	1000	HU100300	139.05
4"	threaded 100 series	1000	HU100400	209.45
4"	buttweld 100 series	1000	HU100400BW¹	269.20
6"	threaded 100 series	1000	HU100600	722.40
8"	threaded 100 series	1000	HU100800	981.65

¹ buttweld ends are schedule 80

200 Series

Features:

- used in general service applications running air, water, oil or gas up to 2,000 PSI NSCWP (non-shock cold working pressure)
- grey sub, blue nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
1"	threaded 200 series	2000	HU200100	\$35.35
1½"	threaded 200 series	2000	HU200150	116.15
2"	threaded 200 series	2000	HU200200	51.90
2"	buttweld 200 series	2000	HU200200BW¹	87.10
2½"	threaded 200 series	2000	HU200250	229.60
3"	threaded 200 series	2000	HU200300	213.75
4"	threaded 200 series	2000	HU200400	271.80
6"	threaded 200 series	2000	HU200600	981.65

¹ buttweld ends are schedule 80

Features:

- O-ring mounted sub provides excellent sealing properties
- runs air, water, oil or gas up to 2,000 PSI NSCWP (non-shock cold working pressure)
- grey sub, blue nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
1"	threaded 206 series	2000	HU206100	\$38.00
1½"	threaded 206 series	2000	HU206150	101.10
2"	threaded 206 series	2000	HU206200	59.00
2½"	threaded 206 series	2000	HU206250	224.80
3"	threaded 206 series	2000	HU206300	224.30
4"	threaded 206 series	2000	HU206400	250.00
6"	threaded 206 series	2000	HU206600	1066.10
8"	threaded 206 series	2000	HU206800	1600.00

602 Series

Features:

- lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- for use in mud, manifold service and truck mounting applications running air, water, oil, gas or mud up to 6,000 PSI NSCWP (non-shock cold working pressure)
- orange sub, black nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
1"	threaded 602 series	6000	HU602100	\$116.00
2"	threaded 602 series	6000	HU602200	269.20
3"	threaded 602 series	6000	HU602300	375.00
4"	threaded 602 series	6000	HU602400	550.00

1002 Series

Features:

- lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- for use in high pressure systems and truck mounting applications running air, water, oil, gas or mud up to 10,000 PSI NSCWP (non-shock cold working pressure)
- blue sub, red nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
1"	threaded 1002 series	10000	HU1002100	\$223.15
2"	threaded 1002 series	10000	HU1002200	293.40
3"	threaded 1002 series	10000	HU1002300	450.00
4"	threaded 1002 series	10000	HU1002400	758.20

1502 Series

Features:

- lip type seal ring minimizes fluid flow turbulence while creating a pressure seal
- for use in extreme high pressure applications running air, water, oil, gas or mud up to 15,000 PSI NSCWP (non-shock cold working pressure)
- red sub, blue nut

Size	Configuration	NSCWP	Forged Steel	
			Part #	Price/E
2"	threaded 1502 series	15000	HU1502200	\$303.85
3"	threaded 1502 series	15000	HU1502300	670.00
4"	threaded 1502 series	15000	HU1502400	1030.00

Straub Grip-L Axial Restraint Pipe Couplings

Application:

- Straub Grip-L couplings are suitable particularly for pipes within the lower pressure range. Applications include, but are not limited to: ship building, water and waste water treatment plants and industrial process pipe work.

Features:

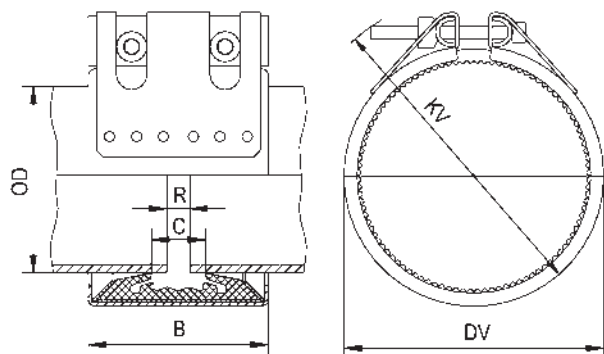
- Joins like or dissimilar pipe materials: steel, galvanized, painted, stainless steel, thin-wall stainless steel, PVC, copper
- Requires no special tools or pipe-end preparation; only a torque wrench is required for a secure and safe pipe connection that seldom needs retightening.
- highest quality 316 Ti stainless steel construction
- accommodates up to 5° of pipe misalignment
- vary gap between pipe ends
- absorbs vibration, water hammer, and sound
- special patented grip ring for superior holding power on hard-surfaced pipes
- 5 year limited warranty
- reusable
- built to ASTM 1476, Type 2, Class 2 specifications

Specifications:

- casing: AISI 316Ti
- screws: AISI 316 L
- bolts: AISI 316 Ti
- anchoring ring: AISI 301
- sealing sleeve: EPDM standard (NBR and Viton® A are also available, contact Dixon for additional information)
- EPDM sealing sleeve: temperature range - 4°F to 176°F (-20°F to 212°F)

Approvals:

- American Bureau of Shipping (ABS)
up to 232 PSI on ¾" - 5"; 188 PSI on 6"; 145 PSI on 8"
- Underwriter's Laboratories (UL)
- National Sanitation Foundation (NSF)




Size	Pipe OD		Working Pressure PSI	Coupling Dimensions		Assembled Dimensions		Maximum Distance Between Pipe End R	Stainless Steel	
	actual	range min to max		B	C	DV	KV		Part #	Price/E
¾"	1.05"	1.04" to 1.08"	670	1.8"	0.7"	1.7"	2.8"	0.2"	STR20000	\$169.30
1"	1.31"	1.31" to 1.35"	550	1.8"	0.7"	2"	3"	0.2"	STR20100	179.30
1½"	1.90"	1.88" to 1.92"	440	2.4"	1.0"	2.6"	3.9"	0.2"	STR20300	221.95
2"	2.37"	2.35" to 2.40"	320	3.0"	1.5"	3.1"	4.3"	0.4"	STR20450	259.90
2½"	2.87"	2.85" to 2.90"	450	3.7"	1.6"	3.9"	5.3"	0.4"	STR20500	331.35
3"	3.50"	3.46" to 3.54"	320	3.7"	1.6"	4.4"	5.9"	0.4"	STR20650	365.00
4"	4.50"	4.46" to 4.54"	232	3.7"	1.6"	5.4"	6.7"	0.4"	STR20900	403.65
5"	5.50"	5.51" to 5.62"	232	4.3"	2.1"	6.5"	8.3"	0.4"	STR21150	598.10
6"	6.63"	6.56" to 6.69"	232	4.3"	2.1"	7.6"	9.1"	0.4"	STR21350	650.45
8"	8.63"	8.54" to 8.71"	232	5.6"	3.1"	9.8"	11.6"	0.4"	STR21400	1136.50

- ¾" - 2" couplings have only one bolt

All Straub couplings require the correct use of a torque wrench for a safe and proper installation. Straub couplings must be torqued to the specified value as printed on each individual coupling. Failure to do so can result in serious injury or death.

Not for steam or refrigerant service.



Straub Open-Flex 1L Couplings

Applications:

Straub Open-Flex 1L couplings are suitable for repairing or joining pipes where access to the pipe end is difficult or not possible. This unique wrap-around design differs from similar type repair products because the installation or repair is permanent due to the unique flexible lip seal gasket design. Open-Flex couplings will also act as an expansion joint. *Straub Open-Flex couplings do require the pipes to be properly anchored and restrained as they are not pull-out resistant like the Straub Grip-L couplings.* Use Straub Open-Flex couplings to replace bolted sleeve type couplings (AWWA Std. C-219) or for permanent repairs or installation.

Features:

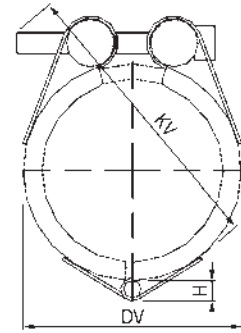
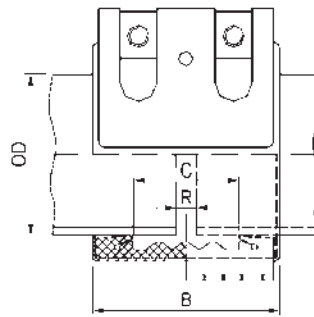
- Joins like or dissimilar pipe materials: steel, galvanized, painted, stainless steel, thin-wall stainless steel, PVC, copper
- Requires no special tools or pipe-end preparation; only a torque wrench is required for a secure and safe pipe connection that seldom needs retightening.
- highest quality 316 Ti stainless steel construction
- accommodates up to 5° of pipe misalignment
- vary gap between pipe ends
- absorbs vibration, water hammer, and sound
- acts as an expansion joint; will accept up to .25" of axial movement
- 5 year limited warranty
- reusable
- conforms to ASTM 1476, Type 2, Class 3 specifications

Specifications:

- casing: AISI 316Ti
- screws: AISI 4135 steel
- bolts: AISI 12L 14 Galvanized
- EPDM sealing sleeve: temperature range - 4°F to 176°F (-20°F to 212°F)

Approvals:

- American Bureau of Shipping (ABS) up to 232 PSI
- Underwriter's Laboratories (UL)
- National Sanitation Foundation (NSF)



Size	Pipe OD		Working Pressure PSI	Coupling Dimensions			Assembled Dimensions		Max. Distance Between Pipe End R	Weight (lbs.)	Stainless Steel	
	actual	range min to max		B	C	H	DV	KV			Part #	Price/E
1½"	1.90"	1.85" to 1.95"	363	3.0"	1.4"	.28	2.8"	3.3"	.20"	1.10	STR35001	\$268.95
2"	2.38"	2.32" to 2.42"	232	3.0"	1.4"	.28	3.2"	3.7"	.20"	1.34	STR35151	284.95
2½"	2.88"	2.81" to 2.93"	232	3.0"	1.4"	.36	3.2"	3.7"	.20"	1.80	STR35201	310.00
3"	3.50"	3.44" to 3.56"	232	3.7"	2.0"	.36	4.4"	4.9"	.20"	2.10	STR35351	324.95
4"	4.50"	4.43" to 4.57"	232	3.7"	2.0"	.36	5.4"	5.9"	.20"	2.33	STR35651	343.65
5"	5.56"	5.49" to 5.57"	232	4.2"	2.4"	.38	6.4"	7.1"	.20"	3.20	STR35901	433.80
6"	6.63"	6.54" to 6.71"	232	4.2"	2.4"	.38	7.5"	8.1"	.20"	3.70	STR36051	464.80



Not pull-out resistant.

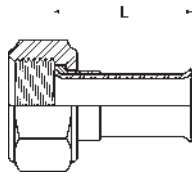
Ensure that pipes are properly anchored and supported.

Assembly tool: **STR6648**, \$348.55



Female Weld End Metal Hose Fittings

All fittings have 316 seamless stainless steel tubes

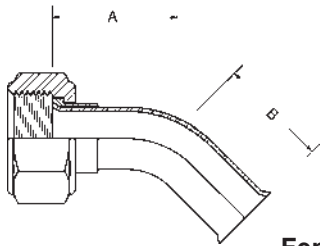


Straight



Female Threaded 37° JIC x Weld End

SAE 37° Female	Tube OD	Pressure Rating PSI at 70°F	L Length	Gauge	304 Stainless Steel Nut & Sleeve		Carbon Steel Nut & Sleeve	
					Part #	Price/E	Part #	Price/E
7/16" - 20	1/4"	5000	1.500"	.049"	<i>SFMF250</i>	\$28.40	<i>FMF250</i>	\$17.30
9/16" - 18	3/8"	4500	1.500"	.049"	<i>SFMF375</i>	32.00	<i>FMF375</i>	21.20
3/4" - 16	1/2"	4000	1.500"	.049"	<i>SFMF500</i>	52.55	<i>FMF500</i>	28.65
1-1/16" - 12	3/4"	2600	1.500"	.049"	<i>SFMF750</i>	90.40	<i>FMF750</i>	42.10
1-5/16" - 12	1"	2500	2.000"	.049"	<i>SFMF1000</i>	141.30	<i>FMF1000</i>	63.45
1-5/8" - 12	1 1/4"	2050	2.375"	.065"	<i>SFMF1250</i>	240.15	<i>FMF1250</i>	126.05
1-7/8" - 12	1 1/2"	1700	2.375"	.065"	<i>SFMF1500</i>	407.30	<i>FMF1500</i>	174.95
2-1/2" - 12	2"	1250	2.500"	.065"	<i>SFMF2000</i>	790.55	<i>FMF2000</i>	325.05

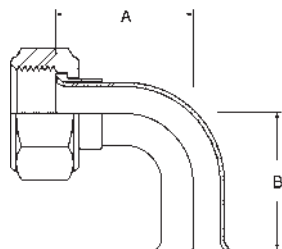


45° Elbow



Female Threaded 37° JIC x Weld End

SAE 37° Female	Tube OD	Pressure Rating PSI at 70°F	A Dim	B Dim	Bend Radius	Gauge	304 Stainless Steel Nut & Sleeve		Carbon Steel Nut & Sleeve	
							Part #	Price/E	Part #	Price/E
7/16" - 20	1/4"	5000	0.750"	0.750"	0.380"	.049"	<i>SFMF250-45</i>	\$24.55	<i>FMF250-45</i>	\$28.70
9/16" - 18	3/8"	4500	1.000"	1.000"	0.500"	.049"	<i>SFMF375-45</i>	35.65	<i>FMF375-45</i>	38.25
3/4" - 16	1/2"	4000	1.250"	1.250"	1.000"	.049"	<i>SFMF500-45</i>	62.35	<i>FMF500-45</i>	69.20
1-1/16" - 12	3/4"	2600	1.450"	1.450"	1.500"	.049"	<i>SFMF750-45</i>	100.75	<i>FMF750-45</i>	71.50
1-5/16" - 12	1"	2500	1.800"	1.800"	2.000"	.049"	<i>SFMF1000-45</i>	166.00	<i>FMF1000-45</i>	107.25
1-5/8" - 12	1 1/4"	2050	2.100"	2.100"	2.000"	.065"	<i>SFMF1250-45</i>	278.80	<i>FMF1250-45</i>	200.15
1-7/8" - 12	1 1/2"	1700	2.300"	2.300"	2.000"	.065"	<i>SFMF1500-45</i>	506.20	<i>FMF1500-45</i>	293.80
2-1/2" - 12	2"	1250	3.000"	3.000"	3.000"	.065"	<i>SFMF2000-45</i>	660.15	<i>FMF2000-45</i>	609.75



90° Elbow



Female Threaded 37° JIC x Weld End

SAE 37° Female	Tube OD	Pressure Rating PSI at 70°F	A Dim	B Dim	Bend Radius	Gauge	304 Stainless Steel Nut & Sleeve		Carbon Steel Nut & Sleeve	
							Part #	Price/E	Part #	Price/E
7/16" - 20	1/4"	5000	1.000"	1.000"	0.375"	.049"	<i>SFMF250-90</i>	\$32.30	<i>FMF250-90</i>	\$33.70
9/16" - 18	3/8"	4500	1.250"	1.250"	0.500"	.049"	<i>SFMF375-90</i>	36.50	<i>FMF375-90</i>	40.60
3/4" - 16	1/2"	4000	1.830"	1.830"	1.000"	.049"	<i>SFMF500-90</i>	73.80	<i>FMF500-90</i>	58.95
1-1/16" - 12	3/4"	2600	2.350"	2.350"	1.500"	.049"	<i>SFMF750-90</i>	108.45	<i>FMF750-90</i>	95.40
1-5/16" - 12	1"	2500	3.100"	3.100"	2.000"	.049"	<i>SFMF1000-90</i>	173.05	<i>FMF1000-90</i>	127.95
1-5/8" - 12	1 1/4"	2050	3.500"	3.500"	2.000"	.065"	<i>SFMF1250-90</i>	308.85	<i>FMF1250-90</i>	205.25
1-7/8" - 12	1 1/2"	1700	3.750"	3.750"	2.000"	.065"	<i>SFMF1500-90</i>	432.20	<i>FMF1500-90</i>	261.10
2-1/2" - 12	2"	1250	4.900"	4.900"	2.000"	.065"	<i>SFMF2000-90</i>	866.80	<i>FMF2000-90</i>	631.10

NPT Threaded Pipe Fittings



Size	Overall Length	Carbon Steel		304 Stainless Steel		Aluminum	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	2"	PN250	\$4.80	PNS250	\$7.80	---	---
3/8"	2"	PN375	5.35	PNS375	9.95	---	---
1/2"	2"	PN500	4.75	PNS500	11.20	---	---
3/4"	2"	PN750	3.40	PNS750	13.90	---	---
1"	2"	PN1000	4.90	PNS1000	16.70	---	---
1 1/4"	2"	PN1250	6.95	PNS1250	20.85	---	---
1 1/2"	2"	PN1500	5.95	PNS1500	23.70	---	---
2"	2"	PN2000	6.95	PNS2000	33.65	---	---
2 1/2"	3"	PN2500	23.50	PNS2500	78.25	---	---
3"	3"	PN3000	27.25	PNS3000	105.80	APN3000	\$43.25
4"	4"	PN4000	45.00	PNS4000	161.35	APN4000	64.15

Dixon Hex Nipples for Welding to Metal Hose



Size	Carbon Steel ¹		opt qty	Machined Brass		304 Stainless Steel ¹		opt qty	316 Stainless Steel ¹	
	Part #	Price/E		Part #	Price/E	Part #	Price/E		Part #	Price/E
1/4"	FM250	\$3.10	200	FMB250	\$6.30	FMS250	\$9.50	200	---	---
3/8"	FM375	3.30	100	FMB375	10.50	FMS375	11.85	100	---	---
1/2"	FM500	4.40	50	FMB500	12.60	FMS500²	11.20	50	FMR500²	\$12.20
3/4"	FM750	5.45	50	FMB750	15.30	FMS750²	12.20	50	FMR750²	14.60
1"	FM1000	7.30	50	FMB1000	23.05	FMS1000²	18.05	50	FMR1000²	26.45
1 1/4"	FM1250	14.40	50	---	---	FMS1250	60.60	50	---	---
1 1/2"	FM1500	15.10	50	---	---	FMS1500	60.80	50	FMR1500	60.05
2"	FM2000	39.10	10	---	---	---	---	---	---	---

¹ Dixon suggests using 308 LSI welding rod

² global stainless steel

Dixon Octagonal Nipples for Welding to Metal Hose



Size	Overall Length	Weld-On Length	Hex Length	Carbon Steel		304 Stainless Steel	
				Part #	Price/E	Part #	Price/E
2"	2 1/2"	7/8"	9/16"	OCTOE32	\$27.00	OCTOES32	\$51.00

Dixon Octagonal Wrench Grips



Size	Across Outside Flats	Across Inside Flats	Width	304 Stainless Steel	
				Part #	Price/E
1 1/2"	2.230"	1.910"	9/16"	OCTS24	\$14.30
2"	2.781"	2.385"	9/16"	OCTS32	16.20
3"	3.750"	3.510"	7/8"	OCTS48	37.00

Size	Across Outside Flats	Across Inside Flats	Width	Carbon Steel	
				Part #	Price/E
2"	2.740"	2.510"	9/16"	OCT32	\$9.00

Dixon Weld-On Hex Wrench Grips



Size	Global Investment Cast Steel	
	Part #	Price/E
1"	WN12	\$6.30
1 1/4"	WN16	5.90
1 1/2"	WN21	5.90
2"	WN26	6.45
2 1/2"	WN31	8.60
3"	WN36	10.40
4"	WN46	21.00

Notched Turned Back Nipples

Features:

- When used with an appropriate notched ferrule, these fittings can be swaged or crimped onto hose providing improved shank retention.
- The stem can be removed from a damaged hose by cutting away the ferrule without necessarily damaging the fitting. *After inspection to determine its suitability for reuse, it can be reinstalled into another hose by using a new ferrule.*
- Used with double bolt or band clamps, notched turned back nipples provide shank retention similar to that of the King turned back nipples.
- Can use the same ferrules used with the notched (NO) cam and groove on page 56 allowing you to *maximize your inventory usage and reduce costs. You must purchase a fitting and the matching ferrule to create an assembly.*
- Stems are for use with lap joint flanges on page 612.

stems

Size	Carbon Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1½"	N150NO	\$31.50	RN150NO	\$80.60
2"	N200NO	35.55	RN200NO	92.70
2½"	N250NO	55.00	RN250NO	125.00
3"	N300NO	84.25	RN300NO	162.00
4"	N400NO	141.10	RN400NO	248.25

Special pushers required:

- 1½" stem - RN150NOPUSH
- 2" stem - RN200NOPUSH
- 2½" stem - RN250NOPUSH
- 3" stem - RN300NOPUSH
- 4" stem - RN400NOPUSH



ferrules

Hose ID	Hose OD		304 Stainless Steel	
	from	to	Part #	Price/E
1½"	1-60/64"	2-12/64"	GAS2334NO	\$34.80
	2-4/64"	2-22/64"	GAS2370NO	37.20
2"	2-30/64"	2-44/64"	GAS2709NO	31.80
	2-42/64"	2-54/64"	GAS2885NO	66.25
2½"	2-54/64"	3"	GAS3012NO	64.50
	3-1/64"	3-13/64"	GAS3260NO	68.80
3"	3-30/64"	3-46/64"	GAS3760NO	45.40
	3-47/64"	3-54/64"	GAS3885NO	62.10
4"	4-40/64"	4-47/64"	GAS5010NO	258.75



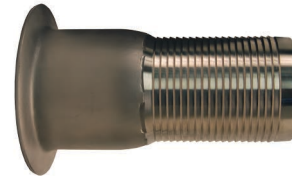
Dixon stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall products.

King Turned Back Hose Nipples for Floating Flanges

Size	Plated Carbon Steel		316 Stainless Steel	
	from	to	Part #	Price/E
1"	N10	\$48.35	RN10	\$119.40
1¼"	N15	44.10	RN15	148.30
1½"	N20	78.20	RN20	152.35
2"	N25	84.70	RN25	203.70
2½"	N30	113.30	RN30	381.20
3"	N35	98.15	RN35	311.50
4"	N40	156.50	RN40	457.60
6"	N60	254.00	RN60	916.70
8"	N80	375.00	RN80	1485.00
10"	N100	630.00	RN100	POR
12"	N120	1035.00	RN120	POR

Features:

- A turned back nipple, when used in a floating flange assembly, allows the flange to be aligned without stressing (twisting) the hose. This generally increases the hose's service life by eliminating a common cause of premature hose failure.
- for use with Lap Joint flanges shown on page 612



King Turned Back Weld-To-Metal Hose Nipples

Size	Length	Phono-Finish Face Schedule 40 Plated Carbon Steel		Phono-Finish Face Schedule 10 304 Stainless Steel		Smooth Face Schedule 10 304 Stainless Steel	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
		¾"	2"	NW5	\$25.55	GNW5	\$32.00
1"	2"	NW10	27.05	GNW10	32.65	GNWP10	20.80
1¼"	2"	NW15	41.15	GNW15	50.00	GNWP15	60.10
1½"	2"	NW20	37.70	GNW20	57.00	GNWP20	22.80
2"	2½"	NW25	40.65	GNW25	70.05	GNWP25	28.15
2½"	2½"	NW30	54.00	GNW30	80.00	GNWP30	35.50
3"	2½"	NW35	58.65	GNW35	88.85	GNWP35	51.50
4"	3"	NW40	76.30	GNW40	108.25	GNWP40	55.50
6"	3½"	NW60	114.60	GNW60	255.00	GNWP60	194.80
8"	4"	NW80	146.65	GNW80	525.00	GNWP80	270.30
10"	5"	NW100	295.00	---	---	GNWP100	500.00
12"	6"	NW120	425.00	---	---	GNWP120	526.30

Features:

- MSS Type C
- for use with Slip-On and Lap Joint flanges shown on page 612



150 LB. ASA Forged Flanges

Lap-Joint

Features:

- no raised face
- The lap joint flange is commonly called a Van Stone or a floating flange.

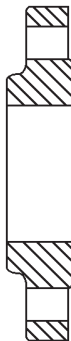


Size	Carbon Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1"	LJ100	\$54.00	---	---
1¼"	LJ125	36.00	---	---
1½"	LJ150	37.00	LJR150	\$152.00
2"	LJ200	38.00	LJR200	164.00
2½"	LJ250	62.00	---	---
3"	LJ300	64.00	LJR300	320.00
4"	LJ400	93.00	LJR400	450.00
5"	LJ500	105.00	---	---
6"	LJ600	127.30	LJR600	690.00
8"	LJ800	225.00	---	---
10"	LJ1000	280.00	---	---
12"	LJ1200	435.00	---	---

Slip-On

Feature:

- raised face

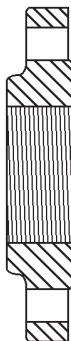


Size	Carbon Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1"	SO100	\$32.00	---	---
1¼"	SO125	32.00	---	---
1½"	SO150	32.00	SOR150	\$140.00
2"	SO200	36.05	SOR200	170.00
2½"	SO250	60.70	---	---
3"	SO300	56.00	SOR300	300.00
4"	SO400	72.70	SOR400	390.00
5"	SO500	110.00	---	---
6"	SO600	103.00	SOR600	600.00
8"	SO800	160.00	---	---
10"	SO1000	260.00	---	---
12"	SO1200	385.00	---	---

NPT Threaded

Feature:

- raised face



Size	Carbon Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E
1"	T100	\$63.00	---	---
1¼"	T125	57.00	---	---
1½"	T150	56.00	TR150	\$175.00
2"	T200	60.00	TR200	230.00
2½"	T250	67.90	---	---
3"	T300	72.00	TR300	330.00
4"	T400	88.00	TR400	433.50
5"	T500	150.80	---	---
6"	T600	152.25	TR600	661.50
8"	T800	288.90	---	---
10"	T1000	755.00	---	---
12"	T1200	1025.00	---	---

International Shore Connections

Features:

- meets US Coast Guard specifications for vessels 1000 gross tons or more
- makes possible the connection of two different threads between ship and shore or between ships
- 7" OD brass flange with 4 3/4" holes
- solid wedge disc with tapered seats
- includes 8 washers, 4 hexagon brass nuts, 4 hex head bolts, 1 washer, 1 fiber gasket
- working pressure: **300 PSI**

Description	Brass Part #	Wt. Lbs.	Price
shore side	09-318-00001	7.38	\$318.00
ship side	09-319-00001	7.14	318.00



shore side



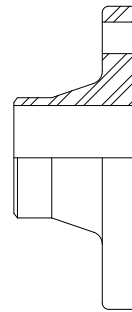
ship side

150 LB. ASA Forged Flanges
Weld Neck

Feature:

- raised face

Size	Carbon Steel	
	Part #	Price/E
1"	WN100	\$45.25
1 1/4"	WN125	47.00
1 1/2"	WN150	47.25
2"	WN200	53.00
3"	WN300	62.75
4"	WN400	74.50
5"	WN500	115.00
6"	WN600	113.00
8"	WN800	198.00
10"	WN1000	310.00



150 LB. MSS Flanges

NPT	316 Stainless Steel	
	Part #	Price/E
1 1/2"	TRMS150	\$155.95
2"	TRMS200	188.00
3"	TRMS300	294.75
4"	TRMS400	469.10
6"	TRMS600	878.65



Flange Gaskets

Features:

- standard drop-ring type all 1/16" thick
- reference page 668 for joint sealant gasket material
- For dimensional information and diagrams, see pages 712 and 713

Size	Neoprene		Klingersil® C-4401	
	Part #	Price/E	Part #	Price/E
1"	NG10	\$1.60	AG10	\$2.80
1 1/4"	NG15	1.95	AG15	3.10
1 1/2"	NG20	1.95	AG20	3.20
2"	NG25	2.10	AG25	3.35
2 1/2"	NG30	2.80	AG30	4.10
3"	NG35	2.30	AG35	5.30
4"	NG40	3.20	AG40	6.40
5"	NG50	6.70	---	---
6"	NG60	4.15	AG60	9.85
8"	NG80	6.80	AG80	13.75

TTMA Series Flange Adapters

Features:

- provides a simple and easy way to quickly convert threaded components to a standard TTMA flange configuration
- more durable than welded fabrications due to the solid cast lightweight aluminum design
- design improves flow through adapter even on the 3" reducer
- compact size reduces the overall space needed to install
- for flange drilling standards, see page 713

Male Threaded



TTMA flange x standard male NPT

TTMA Flange	Male NPT	Aluminum	
		Part #	Price/E
3"	3"	TTF3AL-3MT	\$84.95
4"	3"	TTF4AL-3MT	63.95
4"	4"	TTF4AL-4MT	59.30

Extended Length - Male Threaded



TTMA flange x extended length male NPT

TTMA Flange	Male NPT	Aluminum	
		Part #	Price/E
4"	3"	TTF4AL-3EMT	\$84.95
4"	4"	TTF4AL-4EMT	99.15

Female Threaded



TTMA flange x female NPT

TTMA Flange	Female NPT	Aluminum	
		Part #	Price/E
4"	3"	TTF4AL-3FT	\$76.05
4"	4"	TTF4AL-4FT	75.75

Slip-On



TTMA flange x slip-on

TTMA Flange	Slip-on	Aluminum	
		Part #	Price/E
4"	4"	TTF400SP	\$67.00

Sight Flow Indicators

Bronze

Features:

- verifies flow and monitors color and clarity in fluid lines
- double window snap ring design
- bronze body
- ABS indicator
- tempered soda lime sight glass
- Buna-N seals
- maximum pressure **125 PSI**
- maximum temperature **200°F**
- made in the USA



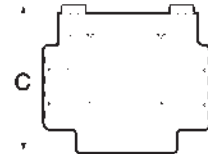
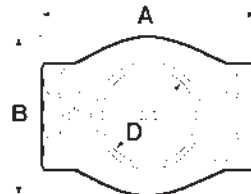
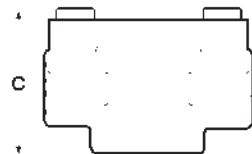
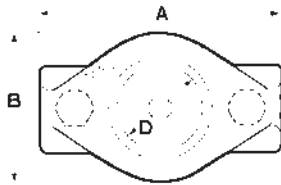
Female NPT x Female NPT

Size	Overall Length	Width	Height	Bronze		Opt Qty
				Part #	Price/E	
1/2"	3-13/16"	2-7/16"	2-7/16"	SF1631-050	\$379.15	1
3/4"	3-13/16"	2-7/16"	2-7/16"	SF1631-075	405.10	1
1"	4-3/8"	3"	3-1/8"	SF1631-100	514.20	1
1 1/2"	4-5/8"	3-13/16"	4"	SF1631-150	784.25	1
2"	4-5/8"	3-13/16"	4"	SF1631-200	810.25	1

Stainless Steel

Features:

- Radial sealing method and bolt-on body design provides years of reliable service with no torquing maintenance required.
- verifies flow and monitor color and clarity in fluid lines
- A white Delrin® propeller style indicator is standard, best for observations at a distance or with opaque liquids ¹.
- tempered soda lime sight glass ²
- Viton® seals are standard ³
- maximum pressure **200 PSI at 150°F**
- maximum temperature **225°F at 150 PSI**
- made in the USA



Female NPT x Female NPT ⁴

Size	Overall Length A	Width B	Height C	Diameter of Sight Opening D	Weight	Stainless Steel		Opt Qty
						Part #	Price/E	
1/2"	3-1/4"	2"	2-3/8"	1-1/8"	1.4	SF1471-050	\$794.65	1
3/4"	4-1/4"	2-9/16"	3-1/4"	1-1/2"	3.0	SF1471-075	857.00	1
1"	4-1/4"	2-9/16"	3-1/4"	1-1/2"	2.7	SF1471-100	1080.30	1
1 1/2"	5-5/8"	3-5/16"	4-5/16"	2"	7.9	SF1471-150	1433.50	1
2"	5-5/8"	3-5/16"	4-5/16"	2"	6.6	SF1471-200	1687.95	1

¹ Plain, flapper or drip tube style indicators are available, as are PTFE indicators. Consult the Factory for price and availability.
² Special units with tempered Borosilicate glass are available. Consult the Factory for price and availability.
³ PTFE, EPR and Buna-N seals are available. Consult the Factory for price and availability.
⁴ 150# flanged units, as well as other metals, are also available. Consult the Factory for price and availability.

NPT Threaded Reducer Hex Bushings



Male NPT	Female NPT	150# Iron		150# Galvanized Iron		150# 316 Stain. Steel		3000# Forged Steel		125# Brass	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	1/8"	HB2518	\$4.35	HB2518G	\$6.25	HB2518SS	\$3.65	HB2518FS	\$4.80	HB1F2M	\$1.99
3/8"	1/8"	HB3818	4.35	---	---	---	---	---	---	HB1F3M	2.40
3/8"	1/4"	HB3825	4.35	HB3825G	6.25	HB3825SS	4.10	HB3825FS	4.80	HB2F3M	2.66
1/2"	1/8"	HB5018	4.35	---	---	---	---	---	---	HB1F4M	4.08
1/2"	1/4"	HB5025	4.35	HB5025G	6.25	HB5025SS	5.45	HB5025FS	4.90	HB2F4M	4.19
1/2"	3/8"	HB5038	4.35	HB5038G	6.25	HB5038SS	5.45	HB5038FS	4.90	HB3F4M	3.53
3/4"	1/8"	HB7518	4.25	---	---	---	---	---	---	HB1F6M	7.14
3/4"	1/4"	HB7525	4.25	HB7525G	6.45	HB7525SS	8.10	HB7525FS	5.95	HB2F6M	7.65
3/4"	3/8"	HB7538	4.25	HB7538G	7.15	HB7538SS	8.10	HB7538FS	5.95	HB3F6M	6.70
3/4"	1/2"	HB7550	3.95	HB7550G	5.80	HB7550SS	8.65	HB7550FS	5.95	HB4F6M	7.03
1"	1/8"	HB1018	4.90	---	---	---	---	---	---	---	---
1"	1/4"	HB1025	5.25	HB1025G	7.65	HB1025SS	12.20	HB1025FS	9.50	HB2F8M	15.07
1"	3/8"	HB1038	5.40	HB1038G	11.95	HB1038SS	11.85	HB1038FS	9.50	HB3F8M	14.53
1"	1/2"	HB1050	4.05	HB1050G	6.90	HB1050SS	11.45	HB1050FS	9.50	HB4F8M	13.98
1"	3/4"	HB1075	4.05	HB1075G	6.55	HB1075SS	11.45	HB1075FS	9.50	HB6F8M	11.50
1-1/4"	1/2"	HB1250	5.80	---	---	---	---	---	---	---	---
1-1/4"	3/4"	HB1275	5.20	---	---	HB1275SS	19.40	HB1275FS	15.60	---	---
1-1/4"	1"	HB1210	5.20	HB1210G	8.80	HB1210SS	19.40	HB1210FS	15.60	HB1210B	21.60
1-1/2"	1/2"	HB1550	6.60	---	---	---	---	---	---	---	---
1-1/2"	3/4"	HB1575	6.60	HB1575G	12.75	HB1575SS	23.00	HB1575FS	17.70	HB1575B	33.75
1-1/2"	1"	HB1510	5.80	HB1510G	11.50	HB1510SS	23.00	HB1510FS	17.70	HB1510B	27.60
1-1/2"	1-1/4"	HB1512	6.65	HB1512G	10.65	HB1512SS	23.00	HB1512FS	17.70	HB1512B	27.60
2"	1/2"	HB2050	10.00	HB2050G	15.95	---	---	---	---	HB2050B	49.15
2"	3/4"	HB2075	8.45	HB2075G	14.85	HB2075SS	35.90	HB2075FS	26.85	HB2075B	49.15
2"	1"	HB2010	7.90	HB2010G	14.05	HB2010SS	35.90	HB2010FS	26.85	HB2010B	49.15
2"	1-1/4"	HB2012	7.90	HB2012G	14.05	HB2012SS	35.90	HB2012FS	26.85	HB2012B	40.90
2"	1-1/2"	HB2015	8.80	HB2015G	12.30	HB2015SS	38.40	HB2015FS	26.85	HB2015B	40.90
2-1/2"	1-1/2"	HB2515	13.35	---	---	---	---	---	---	HB2515B	79.90
2-1/2"	2"	HB2520	13.25	HB2520G	20.05	HB2520SS	64.40	HB2520FS	85.00	HB2520B	79.90
3"	1"	HB3010	19.85	---	---	---	---	---	---	---	---
3"	1-1/2"	HB3015	19.45	---	---	---	---	---	---	---	---
3"	2"	HB3020	18.20	HB3020G	27.10	HB3020SS	94.40	HB3020FS	135.20	HB3020B	123.75
3"	2-1/2"	HB3025	18.45	---	---	HB3025SS	92.15	HB3025FS	135.20	HB3025B	123.65
4"	1"	HB4010	38.05	---	---	---	---	---	---	---	---
4"	1-1/2"	HB4015	38.05	---	---	---	---	---	---	---	---
4"	2"	HB4020	36.00	HB4020G	56.30	HB4020SS	152.75	---	---	HB4020B	371.15
4"	2-1/2"	HB4025	36.00	---	---	---	---	---	---	---	---
4"	3"	HB4030	36.00	HB4030G	59.60	HB4030SS	152.75	HB4030FS	291.20	HB4030B	283.45
5"	4"	HB5040	65.75	---	---	---	---	---	---	---	---
6"	3"	HB6030	95.10	---	---	---	---	---	---	---	---
6"	4"	HB6040	95.10	---	---	---	---	---	---	---	---

NPT Threaded Reducing Union



Female NPT	Female NPT	150# Iron	
		Part #	Price/E
3/4"	1/2"	MIRU7550	\$19.10

NPT Threaded Unions



Features:

- other sizes are also available
- 304 stainless steel fittings are also available, *consult the factory for pricing and availability*

Female NPT	300# Iron		150# Iron		150# Galvanized Iron		150# 316 Stain. Steel		3000# Forged Steel		125# Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	---	---	MIU18	\$17.50	---	---	---	---	---	---	---	---
1/4"	---	---	MIU25	16.65	---	---	TUN025SS	\$18.10	---	---	TUN2F	\$26.10
3/8"	---	---	MIU38	11.25	TUN038G	\$13.25	TUN038SS	22.50	---	---	TUN3F	26.60
1/2"	300MIU50	\$29.30	MIU50	10.75	TUN050G	13.40	TUN050SS	20.00	TUN050FS	\$27.60	TUN4F	29.90
3/4"	300MIU75	32.45	MIU75	12.80	TUN075G	15.90	TUN075SS	25.40	TUN075FS	33.05	TUN5F	41.00
1"	300MIU100	42.35	MIU100	16.70	TUN100G	19.75	TUN100SS	41.40	TUN100FS	43.20	TUN6F	53.10
1-1/4"	---	---	MIU125	22.15	TUN125G	26.85	TUN125SS	66.00	---	---	TUN7F	76.20
1-1/2"	300MIU150	72.25	MIU150	27.05	TUN150G	34.40	TUN150SS	75.00	TUN150FS	83.75	TUN8F	90.00
2"	---	---	MIU200	40.80	TUN200G	45.95	TUN200SS	101.90	TUN200FS	108.95	TUN9F	140.00
2-1/2"	---	---	MIU250	98.35	---	---	---	---	---	---	---	---
3"	300MIU300	373.25	MIU300	119.40	---	---	---	---	---	---	---	---
4"	---	---	MIU400	295.20	---	---	---	---	---	---	---	---

NPT Threaded Bell Reducers



Features:

- other sizes are also available
- 304 stainless steel fittings are also available, *consult the factory for pricing and availability*

Female NPT	Female NPT	300# Iron		150# Iron		150# Galvanized Iron		150# 316 Stain. Steel		3000# Forged Steel		125# Brass	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/4"	1/8"	---	---	BR1418	\$3.95	---	---	---	---	---	---	RC2F1F ²	\$4.51
3/8"	1/8"	---	---	BR3818	3.95	---	---	---	---	---	---	RC3F1F	5.08
3/8"	1/4"	---	---	BR3825	3.95	---	---	BR3825SS	\$6.80	---	---	RC3F2F ²	5.05
1/2"	1/4"	300BR5025	\$25.15	BR5025	3.60	BR5025G	\$4.45	BR5025SS	9.25	---	---	RC4F2F ²	7.13
1/2"	3/8"	---	---	BR5038	3.40	BR5038G	4.15	BR5038SS	8.60	BR5038FS	\$14.60	BR5038B ¹	10.50
3/4"	1/4"	---	---	BR7525	4.45	---	---	---	---	---	---	---	---
3/4"	3/8"	---	---	BR7538	4.45	---	---	BR7538SS	11.85	---	---	RC6F3F	11.62
3/4"	1/2"	300BR7550	25.70	BR7550	3.90	BR7550G	4.85	BR7550SS	11.10	BR7550FS	37.45	BR7550B ¹	14.60
1"	1/4"	---	---	BR1025	6.90	---	---	---	---	---	---	---	---
1"	3/8"	---	---	BR1038	7.00	---	---	---	---	---	---	---	---
1"	1/2"	---	---	BR1050	6.05	BR1050G	8.05	BR1050SS	15.90	---	---	BR1050B	24.75
1"	3/4"	300BR1075	30.70	BR1075	6.05	BR1075G	7.50	BR1075SS	15.90	BR1075FS	22.65	BR1075B	25.40
1-1/4"	1/2"	---	---	BR1250	8.65	---	---	---	---	---	---	---	---
1-1/4"	3/4"	---	---	BR1275	7.50	---	---	---	---	---	---	---	---
1-1/4"	1"	300BR1210	40.35	BR1210	7.50	BR1210G	10.25	BR1210SS	20.75	---	---	BR1210B	39.25
1-1/2"	3/4"	---	---	BR1575	12.40	---	---	---	---	---	---	BR1575B	64.60
1-1/2"	1"	300BR1510	55.35	BR1510	11.00	BR1510G	13.20	BR1510SS	27.75	BR1510FS	40.60	BR1510B	51.70
1-1/2"	1-1/4"	300BR1512	62.95	BR1512	9.50	BR1512G	12.50	BR1512SS	27.75	BR1512FS	40.60	---	---
2"	3/4"	---	---	BR2075	15.75	---	---	---	---	---	---	---	---
2"	1"	300BR2010	80.20	BR2010	14.90	BR2010G	18.00	BR2010SS	47.60	BR2010FS	58.90	BR2010B	86.50
2"	1-1/4"	300BR2012	94.50	BR2012	15.75	---	---	---	---	---	---	---	---
2"	1-1/2"	300BR2015	119.60	BR2015	13.80	BR2015G	18.00	BR2015SS	49.95	BR2015FS	58.90	BR2015B	73.75
2-1/2"	1"	---	---	BR2510	40.05	---	---	---	---	---	---	---	---
2-1/2"	1-1/2"	---	---	BR2515	40.95	---	---	---	---	---	---	---	---
2-1/2"	2"	---	---	BR2520	35.15	BR2520G	55.60	---	---	---	---	BR2520B	130.25
3"	1"	---	---	BR3010	55.80	---	---	---	---	---	---	---	---
3"	1-1/4"	---	---	BR3012	61.80	---	---	---	---	---	---	---	---
3"	1-1/2"	---	---	BR3015	54.75	---	---	---	---	---	---	---	---
3"	2"	---	---	BR3020	45.40	BR3020G	69.80	BR3020SS	138.00	---	---	BR3020B	180.20
3"	2-1/2"	---	---	BR3025	54.75	BR3025G	73.85	---	---	---	---	---	---
4"	1"	---	---	BR4010	109.75	---	---	---	---	---	---	---	---
4"	1-1/2"	---	---	BR4015	109.75	---	---	---	---	---	---	---	---
4"	2"	---	---	BR4020	109.75	---	---	---	---	---	---	---	---
4"	2-1/2"	---	---	BR4025	109.75	---	---	---	---	---	---	---	---
4"	3"	---	---	BR4030	109.75	BR4030G	159.80	---	---	---	---	BR4030B	428.25
6"	3"	---	---	BR6030	274.75	---	---	---	---	---	---	---	---
6"	4"	---	---	BR6040	274.75	---	---	---	---	---	---	---	---

¹ items will be discontinued as stock is depleted² sizes are manufactured from bar stock

NPT Threaded Couplings - Both Ends



Female NPT	300# Iron		150# Iron		150# Galvanized Iron		150# 316 Stain.Steel		3000# Forged Steel		125# Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	---	---	RHC18	\$4.80	RHC18G	\$5.55	---	---	---	---	---	---
1/4"	300RHC25	\$15.80	RHC25	4.05	RHC25G	5.15	RHC25SS	\$4.55	RHC25FS	\$7.55	RHC25B	\$8.55
3/8"	300RHC38	15.80	RHC38	4.05	RHC38G	5.15	RHC38SS	5.70	RHC38FS	7.55	RHC38B	7.75
1/2"	300RHC50	17.65	RHC50	3.30	RHC50G	4.15	RHC50SS	7.65	RHC50FS	6.50	RHC50B	9.65
3/4"	300RHC75	20.25	RHC75	3.90	RHC75G	4.80	RHC75SS	11.35	RHC75FS	8.35	RHC75B	12.70
1"	300RHC100	23.20	RHC100	5.85	RHC100G	7.85	RHC100SS	15.85	RHC100FS	14.85	RHC100B	19.25
1-1/4"	300RHC125	27.55	RHC125	7.50	RHC125G	10.85	RHC125SS	20.70	RHC125FS	24.65	RHC125B	30.10
1-1/2"	300RHC150	41.25	RHC150	10.05	RHC150G	12.35	RHC150SS	29.65	RHC150FS	31.75	RHC150B	40.90
2"	300RHC200	59.40	RHC200	14.60	RHC200G	18.00	RHC200SS	43.70	RHC200FS	38.00	RHC200B	67.30
2-1/2"	---	---	RHC250	39.75	---	---	---	---	---	---	---	---
3"	---	---	RHC300	53.70	RHC300G	73.35	RHC300SS	114.40	---	---	---	---
4"	---	---	RHC400	107.10	RHC400G	155.80	RHC400SS	177.75	---	---	---	---
5"	---	---	RHC500	436.90	---	---	---	---	---	---	---	---
6"	---	---	RHC600	287.30	---	---	---	---	---	---	---	---

NPT Threaded 90° Threaded Elbows



forged steel



brass

Features:

- other sizes are also available
- 304 stainless steel fittings are also available, *consult the factory for pricing and availability*

Female NPT	300# Iron		150# Iron		150# Galvanized Iron		150# 316 Stain. Steel		2000# Forged Steel		125# Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	---	---	EL9018	\$3.40	EL9018G	\$4.65	EL9018SS	\$6.05	---	---	EL1F1F	\$4.42
1/4"	300EL9025	\$17.55	EL9025	3.25	EL9025G	4.45	EL90025SS	6.05	EL9025FS	\$20.80	EL2F2F	7.01
3/8"	300EL9038	15.60	EL9038	3.25	EL9038G	4.45	EL90038SS	7.35	EL9038FS	20.80	EL3F3F	9.26
1/2"	300EL9050	20.15	EL9050	2.45	EL9050G	2.95	EL90050SS	8.15	EL9050FS	19.80	EL4F4F	17.49
3/4"	300EL9075	22.80	EL9075	2.95	EL9075G	3.55	EL90075SS	11.80	EL9075FS	19.80	EL6F6F	25.95
1"	300EL90100	30.80	EL90100	5.15	EL90100G	6.60	EL90100SS	17.60	EL90100FS	28.60	EL90100B	23.20
1-1/4"	300EL90125	42.45	EL90125	8.35	EL90125G	10.20	EL90125SS	26.55	EL90125FS	57.50	---	---
1-1/2"	300EL90150	50.05	EL90150	11.00	EL90150G	13.40	EL90150SS	35.90	EL90150FS	73.00	EL90150B	46.00
2"	300EL90200	72.00	EL90200	18.85	EL90200G	22.35	EL90200SS	47.35	EL90200FS	92.05	EL90200B	78.00
2-1/2"	---	---	EL90250	40.85	---	---	---	---	---	---	---	---
3"	---	---	EL90300	60.90	EL90300G	93.45	EL90300SS	149.00	---	---	---	---
4"	---	---	EL90400	129.50	EL90400G	161.75	EL90400SS	238.00	---	---	---	---
5"	---	---	EL90500	279.00	---	---	---	---	---	---	---	---
6"	---	---	EL90600	484.25	---	---	---	---	---	---	---	---

NPT Threaded 90° Street Elbows

Features:

- other sizes are also available
- 304 stainless steel fittings are also available, consult Dixon for pricing and availability



150# iron



forged steel



brass

Male NPT	Female NPT	150# Iron		150# Galvanized Iron		150# 316 Stain. Steel		3000# Forged Steel		125# Brass	
		Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	1/8"	SE9018	\$4.90	SE9018G	\$6.30	SE9018SS	\$8.15	---	---	SE1F1M	\$4.33
1/4"	1/4"	SE9025	4.90	SE9025G	6.10	SE9025SS	8.30	SE9025FS	\$31.20	SE2F2M	6.94
3/8"	3/8"	SE9038	4.90	SE9038G	6.10	SE9038SS	10.20	SE9038FS	30.70	SE3F3M	9.57
1/2"	1/2"	SE9050	5.05	SE9050G	6.30	SE9050SS	12.00	SE9050FS	30.70	SE4F4M	17.10
3/4"	3/4"	SE9075	4.90	SE9075G	6.10	SE9075SS	15.80	SE9075FS	38.00	SE9075B	19.60
1"	1"	SE9010	7.05	SE9010G	8.30	SE9010SS	25.25	SE9010FS	51.50	SE9010B	33.75
1-1/4"	1-1/4"	SE9012	10.75	SE9012G	13.95	SE9012SS	37.75	SE9012FS	91.80	SE9012B	51.70
1-1/2"	1-1/2"	SE9015	14.35	SE9015G	17.15	SE9015SS	52.00	SE9015FS	111.05	SE9015B	64.70
2"	2"	SE9020	23.25	SE9020G	29.75	SE9020SS	60.00	SE9020FS	162.95	SE9020B	109.75
2-1/2"	2-1/2"	SE90250	57.40	---	---	---	---	---	---	---	---
3"	3"	SE90300	87.55	SE9030G	121.60	---	---	---	---	---	---
4"	4"	SE90400	142.55	---	---	---	---	---	---	---	---
6"	6"	SE90600	377.55	---	---	---	---	---	---	---	---

NPT Threaded Reducing Elbows

Feature:

- other sizes are also available

Female NPT	Female NPT	150# Iron	
		Part #	Price/E
1/4"	1/8"	REL2518	\$6.35
1/2"	1/4"	REL5025	4.55
1/2"	3/8"	REL5038	4.45
3/4"	1/2"	REL7550	4.60
1"	1/2"	REL1050	6.25
1"	3/4"	REL1075	5.90
1-1/4"	1"	REL1210	9.55
1-1/2"	1"	REL1510	15.65
1-1/2"	1-1/4"	REL1525	15.65
2"	1"	REL2010	22.55
2"	1-1/2"	REL2015	19.85
2-1/2"	2"	REL2520	54.35
3"	2"	REL3020	87.80
4"	2"	REL4020	150.45
4"	3"	REL4030	150.45



NPT Threaded 45° Street Elbows



Size	150# Iron		150# Galvanized Iron	
	Part #	Price/E	Part #	Price/E
1/8"	SE4518	\$7.60	---	---
1/4"	SE4525	5.65	SE4525G	\$7.50
3/8"	SE4538	6.45	---	---
1/2"	SE4550	5.20	SE4550G	6.60
3/4"	SE4575	7.95	SE4575G	10.65
1"	SE45100	9.20	---	---
1-1/4"	SE45125	15.95	SE45125G	19.70
1-1/2"	SE45150	19.80	SE45150G	23.90
2"	SE45200	33.35	SE45200G	41.00
2-1/2"	SE45250	70.95	SE45250G	96.40
3"	SE45300	108.65	SE45300G	144.20
4"	SE45400	203.45	SE45400G	234.45

NPT Threaded 45° Threaded Elbows



Female NPT	150# Iron	
	Part #	Price/E
1/8"	EL4518	\$4.90
1/4"	EL4525	5.05
3/8"	EL4538	4.55
1/2"	EL4550	4.00
3/4"	EL4575	4.85
1"	EL45100	6.15
1-1/4"	EL45125	10.75
1-1/2"	EL45150	13.30
2"	EL45200	20.00
2-1/2"	EL45250	56.35
3"	EL45300	73.15
4"	EL45400	142.10
5"	EL45500	458.15
6"	EL45600	484.25

NPT Threaded Female Tees



150# iron



forged steel

Female NPT	300# Iron		150# Iron		150# Galvanized Iron		150# 316 Stain. Steel		2000# Forged Steel		125# Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	---	---	FT18	\$5.20	---	---	---	---	---	---	322-0202	\$4.88
1/4"	300FT25	\$22.05	FT25	4.90	FT25G	\$5.80	FT25SS	\$7.55	FT25FS	\$25.30	322-0404	8.44
3/8"	300FT38	23.35	FT38	4.90	FT38G	5.80	FT38SS	10.00	---	---	322-0606	11.37
1/2"	300FT50	29.70	FT50	3.20	FT50G	3.55	FT50SS	10.50	FT50FS	22.80	322-0808	21.77
3/4"	---	---	FT75	4.50	FT75G	6.00	FT75SS	15.60	FT75FS	30.50	FT75B	19.15
1"	300FT10	38.60	FT10	7.90	FT100G	9.80	FT10SS	23.40	FT100FS	39.25	FT10B	32.75
1-1/4"	300FT120	55.30	FT120	12.80	FT120G	15.45	FT120SS	39.00	FT120FS	78.65	---	---
1-1/2"	---	---	FT15	15.95	FT150G	19.25	FT150SS	47.00	FT150FS	91.80	FT15B	63.50
2"	300FT200	95.15	FT200	27.10	FT200G	32.15	FT200SS	60.75	FT200FS	119.60	FT20B	104.00
2-1/2"	---	---	FT250	55.65	---	---	---	---	---	---	---	---
3"	---	---	FT30	83.55	FT300G	101.15	---	---	---	---	---	---
4"	---	---	FT40	196.15	FT400G	239.15	---	---	---	---	---	---
5"	---	---	FT500	514.80	---	---	---	---	---	---	---	---
6"	---	---	FT60	560.45	---	---	---	---	---	---	---	---

NPT Threaded Side Outlet Elbows

Female NPT	150# Iron	
	Part #	Price/E
1/8"	SOE18	\$10.95
1/4"	SOE25	10.95
3/8"	SOE38	10.95
1/2"	SOE50	10.75
3/4"	SOE75	11.55
1"	SOE100	30.45
1-1/4"	SOE120	32.00
1-1/2"	SOE150	35.65
2"	SOE200	55.40



NPT Threaded Female Reducing Tees

Female NPT	Female NPT	150# Iron	
		Part #	Price/E
3/8"	1/4"	FRT3825	\$6.50
1/2"	3/8"	FRT5038	6.75
3/4"	1/2"	FRT7550	6.90
1"	1/2"	FRT1050	8.80
1-1/4"	1"	FRT1210	14.00
1-1/2"	1"	FRT1510	17.65
2"	1"	FRT2010	27.65
2"	1-1/2"	FRT2015	29.20
3"	2"	FRT3020	96.70



NPT Threaded Street Service Tees

NPT	150# Iron	
	Part #	Price/E
1/2"	SST50	\$11.35
3/4"	SST75	15.40
1"	SST100	20.30
1-1/2"	SST150	46.40



NPT Threaded Bull Head Tees

Female NPT	Female NPT	150# Iron	
		Part #	Price/E
1/2"	3/4"	BHT1575	\$7.90
1/2"	1"	BHT1510	11.45
3/4"	1"	BHT7510	10.00
1"	1-1/2"	BHT1015	27.75
1"	2"	BHT1020	33.95
1-1/2"	2"	BHT1520	33.95
2"	2-1/2"	BHT2025	72.60



NPT Threaded Side Outlet Tees

Female NPT	150# Iron	
	Part #	Price/E
1/2"	SOT50	\$13.95
3/4"	SOT75	26.00
1"	SOT100	33.65
1-1/4"	SOT120	56.90
1-1/2"	SOT150	75.35
2"	SOT200	65.90



NPT Threaded Crosses



Female NPT	150# Iron	
	Part #	Price/E
1/8"	MIC18	\$11.70
1/4"	MIC25	9.90
3/8"	MIC38	10.10
1/2"	MIC50	11.50
3/4"	MIC75	14.05
1"	MIC100	17.25
1-1/4"	MIC125	28.00
1-1/2"	MIC150	34.70
2"	MIC200	57.40
2-1/2"	MIC250	101.20
3"	MIC300	150.95
4"	MIC400	308.10

NPT Threaded Caps

Features:

- other sizes are also available
- 304 stainless steel fittings are also available, consult Dixon for pricing and availability



Female NPT	300# Iron		150# Iron		150# Galvanized Iron		150# 316 Stain. Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	---	---	MICAP18	\$3.20	---	---	SSCAP18	\$3.35
1/4"	---	---	MICAP25	3.20	---	---	SSCAP25	3.90
3/8"	---	---	MICAP38	3.20	---	---	SSCAP38	4.60
1/2"	300MICAP50	\$16.10	MICAP50	2.45	MICAP50G	\$3.10	SSCAP50	5.60
3/4"	300MICAP75	20.25	MICAP75	3.30	MICAP75G	4.45	SSCAP75	7.40
1"	300MICAP100	26.60	MICAP100	4.00	---	---	SSCAP10	9.35
1-1/4"	300MICAP125	29.45	MICAP120	5.20	---	---	SSCAP12	18.30
1-1/2"	300MICAP150	43.05	MICAP150	7.05	---	---	SSCAP15	23.50
2"	300MICAP200	59.75	MICAP200	9.20	MICAP200G	11.35	SSCAP20	30.00
2-1/2"	---	---	MICAP250	22.85	---	---	---	---
3"	---	---	MICAP300	33.95	---	---	---	---
4"	---	---	MICAP400	53.00	---	---	---	---
5"	---	---	MICAP500	108.45	---	---	---	---
6"	---	---	MICAP600	211.65	---	---	---	---

NPT Threaded Square Head Plugs

Feature:

- forged steel plugs are solid, all others are cored



Male NPT	150# Iron		150# Galvanized Iron		150# 316 Stain. Steel		3000# Forged Steel		125# Brass	
	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
1/8"	SHP18	\$2.10	SHP18G	\$3.30	SHP18SS	\$3.20	---	---	211-0200C	\$2.33
1/4"	SHP14	2.05	SHP14G	3.30	SHP14SS	3.40	SHP14FS	\$3.55	211-0400C	3.86
3/8"	SHP38	2.05	SHP38G	3.30	SHP38SS	3.70	SHP38FS	3.65	211-0600C	5.84
1/2"	SHP50	2.20	SHP50G	4.25	SHP50SS	5.20	SHP50FS	3.80	211-0800C	10.59
3/4"	SHP75	2.20	SHP75G	4.25	SHP75SS	6.40	SHP75FS	4.75	211-1200C	16.29
1"	SHP100	2.80	SHP100G	4.65	SHP100SS	8.75	SHP100FS	7.30	SHP100B	16.50
1-1/4"	SHP125	3.50	SHP125G	7.20	SHP125SS	18.80	---	---	---	---
1-1/2"	SHP150	4.90	SHP150G	9.50	SHP150SS	20.75	SHP150FS	17.20	SHP150B	23.00
2"	SHP200	6.95	SHP200G	12.00	SHP200SS	28.75	SHP200FS	19.35	---	---
2-1/2"	SHP250	12.70	SHP250G	23.40	SHP250SS	46.25	---	---	---	---
3"	SHP300	17.40	SHP300G	33.10	SHP300SS	56.00	SHP300FS	118.05	---	---
4"	SHP400	36.45	SHP400G	68.65	SHP400SS	123.50	---	---	---	---
5"	SHP500	76.05	---	---	---	---	---	---	---	---
6"	SHP600	131.70	SHP600G	138.85	---	---	---	---	---	---

Reducer Hex Nipples

Feature:

- ref SAE 130137

NPTF Thread	Brass		Opt Qty
	Part #	Price/E	
1/4" x 1/8"	HN2M1M	\$2.82	100
3/8" x 1/8"	HN3M1M	4.09	50
3/8" x 1/4"	HN3M2M	3.82	50
1/2" x 1/4"	HN4M2M	5.30	50
1/2" x 3/8"	HN4M3M	5.50	50
3/4" x 1/2"	HN6M4M	8.44	25



Hex Nipples

Feature:

- ref SAE 130137

NPTF Thread	Brass		Opt Qty
	Part #	Price/E	
1/8" x 1/8"	BCN12	\$2.15	100
1/4" x 1/4"	BCN25	2.78	100
3/8" x 3/8"	BCN37	3.81	50
1/2" x 1/2"	BCN50	5.64	25
3/4" x 3/4"	BCN75	7.47	25
1" x 1"	BCN100	17.77	10



Threaded Adapters

Female NPTF	Male NPTF	Brass		Opt Qty
		Part #	Price/E	
1/8"	1/8"	RA1F1M	\$2.27	100
1/4"	1/4"	RA2F2M	3.99	50
3/8"	3/8"	RA3F3M	4.93	50
1/2"	1/2"	RA4F4M	7.55	25
3/4"	3/4"	RA6F6M	13.26	10
1/4"	1/8"	RA2F1M	3.81	50
3/8"	1/8"	RA3F1M	4.44	50
3/8"	1/4"	RA3F2M	4.46	50
1/2"	1/4"	RA4F2M	6.89	25
1/2"	3/8"	RA4F3M	6.00	25
3/4"	3/8"	RA6F3M	10.65	10
3/4"	1/2"	RA6F4M	10.40	10



Female Hex Couplings

Feature:

- ref SAE 130138

NPTF Thread	Brass		Opt Qty
	Part #	Price/E	
1/8" x 1/8"	BA1F1F	\$2.82	25
1/4" x 1/4"	BA2F2F	4.73	25
3/8" x 3/8"	BA3F3F	5.55	25
1/2" x 1/2"	BA4F4F	8.62	25
3/4" x 3/4"	BA6F6F	14.99	10



Reducer Couplings

Feature:

- ref SAE 130138



NPTF Thread	Brass		Opt Qty
	Part #	Price/E	
1/4" x 1/8"	RC2F1F	\$4.51	50
3/8" x 1/8"	RC3F1F	5.08	50
3/8" x 1/4"	RC3F2F	5.05	50
1/2" x 1/4"	RC4F2F	7.13	25
1/2" x 3/8"	RC4F3F	6.90	10
3/4" x 3/8"	RC6F3F	11.62	10
3/4" x 1/2"	RC6F4F	11.36	10

Hex Pipe Caps



Female NPT	Brass		Opt Qty
	Part #	Price/E	
1/8"	213-0200	\$2.23	50
1/4"	213-0400	3.31	100
3/8"	213-0600	5.51	25
1/2"	213-0800	6.87	25
3/4"	213-1200	10.68	25

Hex Head Plugs

Feature:

- hex head plug is hollow



Male NPT	Brass		Opt Qty
	Part #	Price/E	
1/8"	HHP1M	\$1.23	50
1/4"	HHP2M	1.82	100
3/8"	HHP3M	2.45	25
1/2"	HHP4M	4.30	25
3/4"	HHP6M	6.62	25
1"	HHP8M	12.79	10

Schedule 80 Threaded Polypropylene Fittings Reducer Bushings

Male NPT Size	Female NPT Size	Polypropylene	
Size	Size	Part #	Price/E
1/2"	1/4"	62267	\$3.35
3/4"	1/2"	62272	3.35
1"	1/2"	62275	3.50
1"	3/4"	62276	3.50
1 1/4"	3/4"	62277	3.65
1 1/4"	1"	62278	3.65
1 1/2"	3/4"	62279	5.10
1 1/2"	1"	62280	5.10
1 1/2"	1 1/4"	62281	5.10
2"	3/4"	62195	5.85
2"	1"	62196	5.85
2"	1 1/4"	62197	5.85
2"	1 1/2"	62198	5.85
3"	2"	60330	17.70



Hex Nipples

NPT Size	Polypropylene	
Size	Part #	Price/E
1/2"	62221	\$1.90
3/4"	60554	2.95
1"	60555	3.50
1 1/4"	60556	3.65
1 1/2"	60547	5.15
2"	60548	5.65
3"	61769	19.20



Reducer Nipples

NPT Size	NPT Size	Polypropylene	
Size	Size	Part #	Price/E
3/4"	1/2"	62233	\$2.85
1"	3/4"	62234	3.35
1 1/4"	1"	62235	3.70
1 1/2"	1 1/4"	62236	4.10
2"	1 1/2"	60549	4.80



Nipples

NPT Size	Length	Polypropylene	
Size	Length	Part #	Price/E
3/4"	4"	62223	\$3.50
3/4"	6"	62224	4.35
1"	4"	62225	3.75
1"	6"	62226	4.70
2"	4"	62192	12.00
2"	6"	62193	13.80



Pipe Couplings

NPT Size	Polypropylene	
Size	Part #	Price/E
3/4"	62238	\$5.35
1"	62239	6.40
1 1/2"	62241	14.25
2"	62194	15.70



King Nipples

NPT Size	Polypropylene	
Size	Part #	Price/E
1 1/2"	HB150	\$4.55
2"	HB200	5.60
3"	HB300	16.10
4"	HB400	36.35



Schedule 80 Threaded Polypropylene Fittings

90° Elbows



NPT Size	Part #	Polypropylene	Price/E
1/2"	62215		\$4.75
3/4"	62216		5.45
1"	62217		6.40
1 1/2"	62219		12.30
2"	62191		14.75
3"	62220		70.50

90° Street Elbows



NPT Size	Part #	Polypropylene	Price/E
1/2"	62243		\$5.10
3/4"	62244		5.45
1"	62245		6.40
1 1/4"	62246		8.20
1 1/2"	62247		12.50
2"	62199		15.20
3"	62248		70.50

Tees



NPT Size	Part #	Polypropylene	Price/E
1/2"	62209		\$5.75
3/4"	62210		5.95
1"	62211		8.30
1 1/4"	62212		9.95
1 1/2"	62213		15.25
2"	62190		18.30
3"	62214		80.10

Cross



NPT Size	Part #	Polypropylene	Price/E
1"	62263		\$24.75

Pipe Caps



NPT Size	Part #	Polypropylene	Price/E
3/4"	62250		\$6.55
1"	62251		6.55

Pipe Plugs



NPT Size	Part #	Polypropylene	Price/E
3/4"	62256		\$3.35
1"	62257		3.35
1 1/4"	62258		3.65
1 1/2"	62259		5.85
2"	62201		6.10

Bulkhead Fittings

female NPT fittings

Female NPT	Hole Size	Polypropylene	
		Part #	Price/E
1/2"	1-3/8"	62834	\$12.05
3/4"	1-3/8"	60401	9.60
1"	2-1/4"	60427	12.05
1 1/4"	2-1/4"	60403	12.05
1 1/2"	3"	60124	18.05
2"	3"	60405	17.25
3"	4-5/8"	62299 ¹	75.50

¹ 3" does not contain a washer

gaskets

Size	EPDM	
	Part #	Price/E
1/2" - 3/4"	60402	\$2.15
1" - 1 1/4"	60404	3.00
1 1/2" - 2"	60406	4.15
3"	60331	15.05

Application:

- for use on most poly storage tanks and many steel and fiberglass tanks

Features:

- glass reinforced polypropylene provides strength and chemical resistance
- EPDM gaskets are standard
- Viton® gaskets are available



Bolted Fittings

- Bolts are threaded into the back plate of the fitting so there are no welds or bolt holes as potential points of leakage. The fittings come standard without a gasket. However, a gasket (sold separately) is required to be installed on the inside of the tank.

Stainless Steel

female NPT fittings

Size	Stainless Steel	
	Part #	Price/E
3/4"	63035	\$114.50
1"	62948	117.50
1 1/2"	63037	168.00
2"	63038	177.00

gaskets

Size	Cross-Linked Polyethylene	
	Part #	Price/E
3/4" - 1"	62950	\$3.95
1 1/2"	63042	5.40
2"	62848	6.45

Features:

- stainless steel body
- 316 stainless steel bolts
- cross-linked polyethylene gaskets are standard (sold separately)
- Viton® and EPDM gaskets are available



Polypropylene

female NPT fittings

Size	Polypropylene	
	Part #	Price/E
3/4"	60502	\$42.85
1"	60505	42.85
1 1/2"	60513	70.35
2"	60516	70.35

gaskets

Size	EPDM	
	Part #	Price/E
3/4" - 1"	60498	\$6.00
1 1/2" - 2"	60497	5.90

Features:

- polypropylene body
- 316 stainless steel bolts
- EPDM gaskets are standard (sold separately)
- Viton® gaskets are available

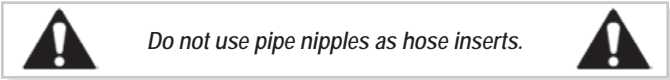


Brass Double Male Hex Nipples

NPT Size	NPSH Size	Brass	
		Part #	Price/E
1 1/2"	1 1/2"	DMH1515	\$20.70
2"	2"	DMH2020	43.35
2 1/2"	2 1/2"	DMH2525	54.15
3"	3"	DMH3030	137.15
4"	4"	DMH4040	220.35



Pipe Nipples



Straight Hex Nipples



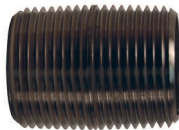
Male NPT	316 Stainless Steel Part #	Price/E
3/8"	HN38SS	\$5.10
1/2"	HN50SS	9.15
3/4"	HN75SS	11.50
1"	HN100SS	15.90

Reducing Hex Nipples



Male NPT	Male NPT	316 Stainless Steel Part #	Price/E
3/8"	1/4"	RHN3825SS	\$5.85
1/2"	3/8"	RHN5038SS	6.90
3/4"	1/2"	RHN7550SS	9.80

Close Nipples



Features:

- made from schedule 40 welded pipe
- male NPT x male NPT design
- brass nipples are available on page 315

Male NPT	Overall Length	Carbon Steel		Galvanized		316 Stainless Steel		Opt Qty
		Part #	Price/E	Part #	Price/E	Part #	Price/E	
1/8"	3/4"	---	---	---	---	CN012SS	\$4.25	1
1/4"	7/8"	CN025	\$2.40	CN025G	\$2.70	CN025SS	4.75	25
3/8"	1"	CN037	2.50	---	---	CN037SS	5.85	25
1/2"	1-1/8"	CN050	2.10	CN050G	2.40	CN050SS	7.80	10
3/4"	1-3/8"	CN075	2.40	CN075G	2.95	CN075SS	10.10	10
1"	1-1/2"	CN100	3.50	CN100G	4.00	CN100SS	14.00	10
1-1/4"	1-5/8"	CN125	4.40	---	---	---	---	10
1-1/2"	1-1/2"	CN150	5.50	CN150G	6.30	CN150SS	23.70	10
2"	2"	CN200	7.45	CN200G	9.35	CN200SS	36.75	10
2 1/2"	2 1/2"	CN250	23.25	---	---	---	---	--
3"	2-5/8"	CN300	27.60	CN300G	31.45	CN300SS	98.80	1
4"	2-5/8"	CN400	41.60	---	---	CN400SS	133.45	5
6"	3-1/8"	CN600	126.75	---	---	---	---	--



Pipe Nipples



Do not use pipe nipples as hose inserts.



Threaded Both Ends

Features:

- made from schedule 40 welded pipe
- male NPT x male NPT design
- brass nipples are available on page 315
- other lengths are also available, consult factory for pricing

Male NPT	Overall Length	Carbon Steel		316 Stainless Steel	
		Part #	Price/E	Part #	Price/E
1/4"	2"	TN025X2	\$2.45	---	---
3/8"	2"	TN038X2	2.70	---	---
1/2"	2"	TN050X2	2.10	TN050X2SS	\$9.75
3/4"	2"	TN075X2	2.60	TN075X2SS	12.20
1"	2"	TN100X2	3.80	TN100X2SS	16.40
1 1/4"	2"	TN125X2	5.00	TN125X2SS	19.00
1 1/2"	2"	TN150X2	5.90	TN150X2SS	21.75
1/2"	3"	TN050X3	2.50	TN050X3SS	13.80
3/4"	3"	TN075X3	2.95	TN075X3SS	15.50
1"	3"	TN100X3	4.05	TN100X3SS	23.00
1 1/4"	3"	TN125X3	5.05	TN125X3SS	26.75
1 1/2"	3"	TN150X3	6.60	TN150X3SS	31.50
2"	3"	TN200X3	8.55	TN200X3SS	41.00
3"	3"	TN300X3	30.05	TN300X3SS	91.00
3/8"	4"	TN038X4	4.05	---	---
1/2"	4"	TN050X4	2.95	TN050X4SS	19.80
3/4"	4"	TN075X4	3.60	TN075X4SS	20.25
1"	4"	TN100X4	5.00	TN100X4SS	30.00
1 1/4"	4"	TN125X4	6.25	TN125X4SS	35.00
1 1/2"	4"	TN150X4	7.40	TN150X4SS	41.00
2"	4"	TN200X4	10.35	TN200X4SS	53.00
3"	4"	TN300X4	35.60	TN300X4SS	116.00
4"	4"	TN400X4	48.15	TN400X4SS	148.00
2"	5"	TN200X5	12.00	TN200X5SS	66.00
1/4"	6"	---	---	TN025X6SS	16.80
3/8"	6"	TN038X6	6.45	---	---
1/2"	6"	TN050X6	3.90	TN050X6SS	31.20
3/4"	6"	TN075X6	5.15	TN075X6SS	35.15
1"	6"	TN100X6	7.15	TN100X6SS	47.50
1 1/4"	6"	TN125X6	8.90	TN125X6SS	61.20
1 1/2"	6"	TN150X6	10.35	TN150X6SS	71.80
2"	6"	TN200X6	13.95	TN200X6SS	94.15
3"	6"	TN300X6	42.65	TN300X6SS	191.20
4"	6"	TN400X6	58.75	TN400X6SS	255.75
6"	6"	TN600X6	170.00	---	---
2"	8"	TN200X8	23.35	---	---
4"	8"	TN400X8	81.00	---	---
6"	8"	TN600X8	210.00	---	---



Merchant Couplings

- other sizes are also available

Female NPSM	Black Iron	
	Part #	Price/E
1/4"	MRCH25	\$3.70
3/8"	MRCH38	4.45
1/2"	MRCH50	4.75
3/4"	MRCH75	6.00
1"	MRCH100	8.40
1-1/4"	MRCH125	10.75
1-1/2"	MRCH150	13.60
2"	MRCH200	19.50
3"	MRCH300 ¹	77.80

¹ 3" has female NPT thread

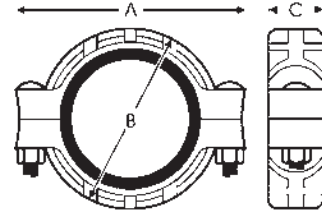
FM **UL** **C** **UL** Standard Couplings - Series S, Style 11

Applications:

- Designed for a wide range of applications including commercial/industrial construction, mining, and process piping.

Features:

- ductile iron body with rust inhibiting paint.
- Underwriters Listed and Factory Mutual approved
- housing design allows for optimum strength without excessive casting weight.
- see page 636 for replacement gaskets, nuts and bolts
- Comparable to: Victaulic's #77
Grinnell's #7001



Nominal Size	Pipe OD	Max. Work. Pressure PSI at 70°F	Maximum End Load Lbs.	Coupling Dimensions			Approx. Weight (lbs.)	Bolts			Ductile Iron w/ EPDM gasket Part #	Ductile Iron w/ Buna-N gasket Part #	Price/E
				A	B	C		qty	size	length			
1½"	1.900	1000	2835	4-5/8"	3"	1-7/8"	1.5	2	3/8"	2-1/4"	C115	C115BU	\$80.85
2"	2.375	1000	4430	5-15/64"	3-45/64"	1-27/32"	2.6	2	1/2"	2-3/4"	C12	C12BU	31.25
2½"	2.875	1000	6492	5-5/8"	4-1/4"	1-27/32"	3.4	2	1/2"	2-3/4"	C125	C125BU	33.30
3"	3.500	1000	9621	6-21/32"	5"	1-27/32"	4.2	2	1/2"	3"	C13	C13BU	40.55
4"	4.500	1000	15904	8-17/64"	6-3/8"	2-3/64"	6.0	2	5/8"	3-1/4"	C14	C14BU	67.40
6"	6.625	1000	34472	11-7/32"	8-57/64"	2-3/64"	10.8	2	3/4"	4-1/4"	C16	C16BU	97.40
8"	8.625	800	46741	14-1/64"	11-3/8"	2-23/64"	21.8	2	7/8"	5"	C18	C18BU	232.40
10"	10.750	800	72610	16-5/8"	13-1/2"	2-5/8"	24.2	2	7/8"	5-1/2"	C20	C20BU	239.90
12"	12.750	800	102141	18-5/8"	15-1/2"	2-5/8"	27.5	2	7/8"	6"	C24	C24BU	348.20

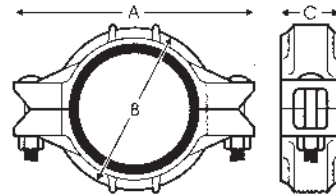
FM **UL** Lightweight Flexible Couplings - Series L, Style 10

Applications:

- Designed for applications requiring moderate internal pressure or where weight is a factor. Applications include: general purpose, mining, irrigation, and compressed air where a deflection of 5% or less is required.

Features:

- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved
- see page 636 for replacement gaskets, nuts and bolts
- Comparable to: Victaulic's #75
Grinnell's #7000

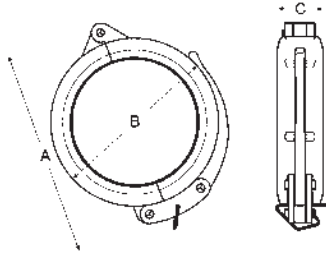


Nominal Size	Pipe OD	Max. Work. Pressure PSI at 70°F	Maximum End Load Lbs.	Coupling Dimensions			Approx. Weight (lbs.)	Bolts			Ductile Iron w/ EPDM gasket Part #	Ductile Iron w/ Buna-N gasket Part #	Price/E
				A	B	C		qty	size	length			
1½"	1.900	500	1418	4-5/8"	3"	1-3/4"	1.5	2	3/8"	2-1/4"	L215	L215BU	\$64.50
2"	2.375	500	2215	5-7/64"	3-1/2"	1-27/32"	1.7	2	3/8"	2"	L02	L02BU	17.65
2½"	2.875	300	3246	5-55/64"	4-1/64"	1-27/32"	2.2	2	3/8"	2"	L025	L025BU	20.20
3"	3.500	300	4811	6-13/32"	4-13/16"	1-27/32"	2.8	2	1/2"	2-3/4"	L03	L03BU	23.75
4"	4.500	300	6362	7-33/64"	5-55/64"	2"	3.7	2	1/2"	2-3/4"	L04	L04BU	31.20
5"	5.563	300	9722	9-5/8"	7"	2"	5.7	2	5/8"	3-1/4"	L05	L05BU	179.00
6"	6.625	300	13789	10-25/32"	7-7/8"	2-3/64"	7.4	2	5/8"	3-1/4"	L06	L06BU	52.05
8"	8.625	300	20449	13-47/64"	10-35/64"	2-13/32"	12.8	2	3/4"	4-1/4"	L08	L08BU	88.50

Quick Release Couplings - Series Q

Features:

- ductile iron body with zinc plating and steel safety clip
- see page 636 for replacement gaskets
- Designed for applications requiring a quick connection and/or disconnection of a pipe joint. A locking pin through the handle prevents accidental opening of the coupling.
- Comparable to:
Victaulic's #78
Grinnell's #7003



Nominal Size	Pipe OD	Max Work. Pressure PSI at 70°F	Maximum End Load Lbs.	Coupling Dimensions			Approx. Weight (lbs.)	Ductile Iron w/ EPDM gasket Part #	Ductile Iron w/ Buna-N gasket Part #	Price/E
				A	B	C				
1½"	1.900	300	850	4-3/4"	3-1/2"	1"	1.5	H315	H315BU	\$135.00
2"	2.375	300	1329	5-1/2"	3-3/4"	1-7/8"	2.5	H32	H32BU	129.50
2½"	2.875	300	2120	5-7/8"	4-3/4"	1-7/8"	3.1	H325	H325BU	164.50
3"	3.500	300	2886	7-1/4"	5-1/4"	1-7/8"	5.3	H33	H33BU	166.50
4"	4.500	300	4771	8-1/2"	6-1/2"	2"	6.0	H34	H34BU	214.00
6"	6.625	300	10341	10-5/8"	8-1/2"	2"	8.6	H36	H36BU	460.00

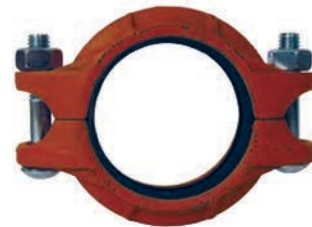
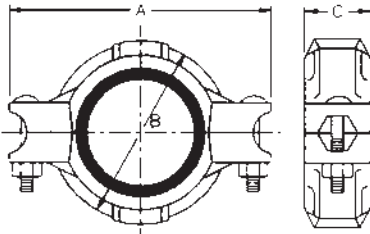
Rigid Couplings - Series R, Style 5

Application:

- ideal for fire protection, plumbing, low pressure air and drainage.

Features:

- lightweight, low pressure
- ductile iron body with rust inhibiting paint
- Small gripping teeth hold the housing into the groove allowing a straight run of pipe and preventing any flex at the joint.
- Underwriters Listed and Factory Mutual approved
- see page 636 for replacement gaskets, nuts and bolts



Nominal Size	Pipe OD	Max Work. Pressure PSI at 70°F	Maximum End Load Lbs.	Coupling Dimensions			Approx. Weight (lbs.)	Bolts			Ductile Iron w/ EPDM gasket Part #	Ductile Iron w/ Buna-N gasket Part #	Price/E
				A	B	C		qty	size	length			
2"	2.375	175	4425	4-7/8"	3-17/32"	1-27/32"	1.5	2	3/8"	2"	R72	R72BU	\$21.25
2½"	2.875	175	6490	5-5/8"	3-45/64"	1-3/4"	1.7	2	3/8"	2"	R725	R725BU	18.30
3"	3.500	175	9620	6-3/8"	4-41/64"	1-27/32"	2.5	2	1/2"	2-3/4"	R73	R73BU	25.75
4"	4.500	175	12720	7-45/64"	5-15/16"	2"	3.6	2	1/2"	2-3/4"	R74	R74BU	32.45
6"	6.625	175	27570	10-25/32"	8-7/64"	2-3/64"	5.8	2	5/8"	3-1/4"	R76	R76BU	54.95
8"	8.625	175	35050	13-25/32"	10"	2-21/64"	15.9	2	5/8"	3-1/4"	R78	R78BU	88.50



Aluminum Grooved Clamps

Features:

- 2" pressure rating: **400 PSI**
- 3" pressure rating: **170 PSI**
- 4" pressure rating: **120 PSI**
- bolt torque: 50 ft. lbs.
- precision casting and machined dimensions provide an exact fit and great appearance
- use of lock nuts prevents clamps from loosening in high vibration applications
- leak-tight connection

- Unlike steel groove clamps that secure pipe ends with high clamp force against the tubing walls, the Dixon bolted clamp takes the full bolt force and locks in the groove of the tube preventing distortion of the tube diameter.
- Viton® B rated for 100% biodiesel and Ethanol
- Buna-N rated for petroleum service, Ethanol to E100 and biodiesel to B20
- Baylast™ rated for petroleum service, Ethanol to E100 and biodiesel to B100
- white buna-N for use in dry bulk food applications



clamp with black buna gasket

NEW

NEW

Description	Part #	Price/E
3" aluminum bolted clamp with Viton® B gasket	DBV-VB300	\$87.55
4" aluminum bolted clamp with Viton® B gasket	DBV-VB400	144.20
3" aluminum bolted clamp with buna-N gasket	DBV-BN300	36.05
4" aluminum bolted clamp with buna-N gasket	DBV-BN400	46.35
2" aluminum bolted clamp with Baylast™ gasket	DBV-BL200	50.00
3" aluminum bolted clamp with Baylast™ gasket	DBV-BL300	59.35
4" aluminum bolted clamp with Baylast™ gasket	DBV-BL400	75.00
4" aluminum bolted clamp with white buna-N gasket	DBV-WB400	56.65
3" Viton® B grooved coupling replacement gasket	G300VB	56.65
4" Viton® B grooved coupling replacement gasket	G400VB	113.30
3" buna-N grooved coupling replacement gasket	G300T	12.30
4" buna-N grooved coupling replacement gasket	G400T	17.90
2" Baylast™ grooved coupling replacement gasket	G200BL	28.15
3" Baylast™ grooved coupling replacement gasket	G300BL	33.90
4" Baylast™ grooved coupling replacement gasket	G400BL	40.20
4" white buna-N grooved coupling replacement gasket	G400N	34.30

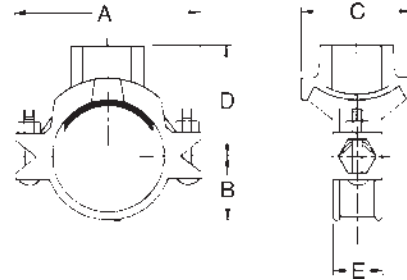


Mechanical Tees - Series T

Features:

- Provides a fast easy way to install a threaded connection along a length of pipe. After drilling or cutting a hole in the pipe at the location of the branch connection, simply attach the clamps around the pipe for a leak-free threaded outlet connection. See chart below for drilling hole specifications
- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved
- maximum working pressure: **300 PSI** at 70°F
- see page 636 for replacement gaskets, nuts and bolts

- Comparable to:
Victaulic's #920
Grinnell's #7045



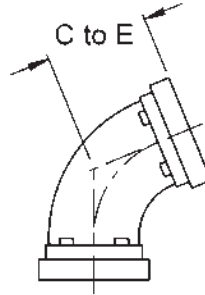
Nominal Size	Branch Size	Hole Saw diameter	Max. End Load Lbs.	Coupling Dimensions					Approx. Wt (lbs.)	Bolts			Ductile Iron	
				A	B	C	D	E		qty	size	length	Part #	Price/E
2"	1"	1-1/2"	1-5/8"	5-1/16"	1-1/2"	2-3/4"	2-5/8"	1-7/8"	2.4	2	3/8"	2"	MT2010	\$37.45
2"	1-1/4"	1-3/4"	1-7/8"	5-1/16"	1-1/2"	2-15/16"	2-3/4"	1-7/8"	2.9	2	3/8"	2"	MT20125	41.20
2"	1-1/2"	1-3/4"	1-7/8"	5-1/16"	1-1/2"	2-15/16"	2-3/4"	1-7/8"	2.8	2	3/8"	2"	MT20150	41.20
2-1/2"	1"	1-1/2"	1-5/8"	5-5/32"	1-11/16"	3"	2-31/32"	2"	3.1	2	1/2"	2-5/8"	MT25010	47.45
2-1/2"	1-1/4"	2"	2-1/8"	5-13/16"	1-11/16"	3-11/32"	3"	2"	3.3	2	1/2"	2-5/8"	MT250125	51.20
3"	1"	1-1/2"	1-5/8"	6-11/32"	2-1/8"	3-3/32"	3-1/16"	2"	3.3	2	1/2"	2-3/4"	MT3010	56.20
3"	1-1/2"	2"	2-1/8"	6-11/32"	2-1/8"	3-3/4"	3-3/8"	2"	3.4	2	1/2"	2-3/4"	MT30150	51.20
4"	1"	1-1/2"	1-5/8"	7-5/16"	2-9/16"	3-3/32"	3-1/2"	2"	4.4	2	1/2"	2-3/4"	MT4010	71.45
4"	1-1/4"	2"	2-1/8"	7-5/16"	2-9/16"	3-3/4"	3-7/8"	2"	5.1	2	1/2"	2-3/4"	MT40125	58.65
4"	1-1/2"	2"	2-1/8"	7-5/16"	2-9/16"	3-3/4"	3-7/8"	2"	4.9	2	1/2"	2-3/4"	MT40150	61.15
4"	2"	2-1/2"	2-5/8"	7-5/16"	2-9/16"	4-1/8"	4"	2"	5.3	2	1/2"	2-3/4"	MT4020	61.15
4"	2-1/2"	2-3/4"	2-7/8"	7-5/16"	2-9/16"	4-3/8"	4"	2"	5.4	2	1/2"	2-3/4"	MT40250	63.65
4"	3"	3-1/2"	3-5/8"	7-5/16"	2-9/16"	5-1/4"	4-1/4"	2"	6.4	2	1/2"	2-3/4"	MT4030	68.05
6"	1-1/4"	2-1/2"	2-5/8"	10-5/32"	3-11/16"	4-1/8"	4-7/8"	2-1/4"	8.6	2	5/8"	3-1/4"	MT60125	76.75
6"	1-1/2"	2-1/2"	2-5/8"	10-5/32"	3-11/16"	4-1/8"	4-7/8"	2-1/4"	8.4	2	5/8"	3-1/4"	MT60150	76.75
6"	2"	2-1/2"	2-5/8"	10-5/32"	3-11/16"	4-1/8"	5"	2-1/4"	7.6	2	5/8"	3-1/4"	MT6020	76.75
6"	3"	3-1/2"	3-5/8"	10-5/32"	3-11/16"	5-1/4"	5-3/8"	2-1/4"	9.2	2	5/8"	3-1/4"	MT6030	88.65

Grooved End Fittings - Series 45

**Features:**

- designed to provide minimum pressure drop and uniform strength
- maximum working pressure is **1000 PSI** at ambient temperature (70°F)
- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved
- Comparable to:
Victaulic's #110
Grinnell's #7051

Nominal Size	C to E	Approx. Weight (Lbs.)	Ductile Iron	
			Part #	Price/E
2"	2"	1.4	L2045	\$22.15
2½"	2¼"	2.3	L2545	23.05
3"	2½"	3.2	L3045	34.95
4"	3"	5.3	L4045	51.15
5"	3¼"	7.9	L5145	113.50
6"	3½"	11.0	L6045	129.50
8"	4¼"	20.0	L8045	258.90

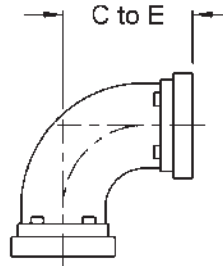


Grooved End Fittings - Series 90

**Features:**

- designed to provide minimum pressure drop and uniform strength
- maximum working pressure is **1000 PSI** at ambient temperature (70°F)
- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved
- Comparable to:
Victaulic's #10
Grinnell's #7050

Nominal Size	C to E	Approx. Weight (Lbs.)	Ductile Iron	
			Part #	Price/E
2"	3¼"	2.1	L502	\$22.50
2½"	3¼"	3.0	L5025	25.85
3"	4¼"	4.7	L503	41.20
4"	5"	7.3	L504	54.15
6"	6½"	17.6	L506	129.50
8"	7¾"	31.9	L508	287.05

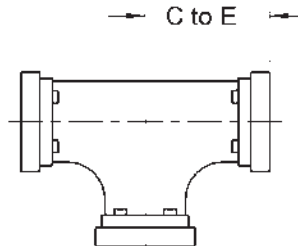


Grooved End Fittings - Series T

**Features:**

- designed to provide minimum pressure drop and uniform strength
- maximum working pressure is **1000 PSI** at ambient temperature (70°F)
- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved
- Comparable to:
Victaulic's #20
Grinnell's #7060

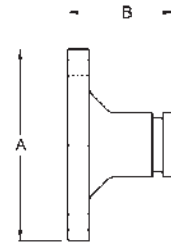
Nominal Size	C to E	Approx. Weight (Lbs.)	Ductile Iron	
			Part #	Price/E
2"	3¼"	3.2	T602	\$32.45
2½"	3¼"	4.5	T6025	39.95
3"	4¼"	5.9	T603	54.95
4"	5"	11.0	T604	81.30
6"	6½"	24.6	T606	196.75
8"	7¾"	40.0	T608	425.25



Flange Adapters - Series FA

Features:

- used to connect an ANSI Class 125 and 150 flange to a grooved pipe using a grooved clamp
- Provides a rigid one piece connection that can be disconnected by removing the clamp assembly. To assemble to another flange, position bolt heads on the adapter (grooved) side.
- Painted ductile iron

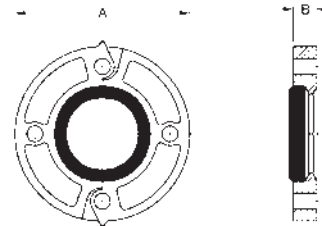


Nominal Size	Pipe OD	Max PSI at 70°F	Flange Dimensions		Approx. Weight (lbs.)	Bolts		Ductile Iron	
			A	B		qty	size	Part #	Price/E
2"	2.375	300	6"	2-3/8"	2.8	4	5/8"	FA20	\$37.40
3"	3.500	300	7 1/4"	2-3/8"	5.3	4	5/8"	FA30	61.15
4"	4.500	300	8 1/2"	2-3/8"	6.4	8	5/8"	FA40	77.40
6"	6.625	300	11"	2-9/16"	11.5	8	3/4"	FA60	142.30
8"	8.625	300	13 1/4"	3"	23.0	8	3/4"	FA80	208.50

ANSI Split Flanges - Series SF

Features:

- provides a direct connection between a grooved adapter and an ANSI Class 125 and 150 raised face flanged component
- can be used with flat face flanges by removing the raised projections on the outside face of the flange.
- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved
- Buna gaskets are available upon request
- Comparable to:
Victaulic's #741
Grinnell's #7012

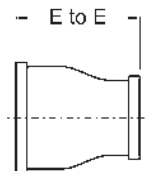


Nominal Size	Pipe OD	Max. PSI at 70°F	Flange Dimensions		Approx. Weight (lbs.)	Bolts		Ductile Iron w/ gasket		Replacement Gaskets EPDM	
			A	B		Part #	Price/E	Part #	Price/E		
2"	2.375"	300	6"	13/16"	3.5	4	5/8"	ANSI20	\$75.85	FLG200E	\$8.15
2 1/2"	2.875"	300	7"	13/16"	4.6	4	5/8"	ANSI25	82.05	FLG250E	9.40
3"	3.500"	300	7 1/2"	13/16"	5.1	4	5/8"	ANSI30	98.60	FLG300E	10.95
4"	4.500"	300	9"	15/16"	8.8	8	5/8"	ANSI40	131.05	FLG400E	12.50
6"	6.625"	300	11"	1"	10.6	8	3/4"	ANSI60	156.00	FLG600E	19.35
8"	8.625"	300	13 1/2"	1-1/8"	17.0	8	3/4"	ANSI80	199.70	FLG800E	34.00

Reducing Adapters - Series RA

Features:

- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved
- Comparable to:
Victaulic's #50; Grinnell's #7072



Nominal Size	Nominal Size	E to E	Approx. Weight (Lbs.)	Ductile Iron	
				Part #	Price/E
2"	1 1/2"	2.5	0.9	RAGG20150	\$26.25
2 1/2"	2"	2.5	1.1	RAGG25020	27.45
3"	2"	2.5	1.2	RAGG3020	26.25
3"	2 1/2"	2.5	1.5	RAGG30250	32.45
4"	2"	3.0	2.2	RAGG4020	38.60
4"	2 1/2"	3.0	2.4	RAGG40250	40.55
4"	3"	3.0	2.4	RAGG4030	43.25
5"	4"	3.5	4.4	RAGG5040	69.90
6"	2"	4.0	4.0	RAGG6020	78.65
6"	2 1/2"	4.0	4.4	RAGG60250	90.30
6"	3"	4.0	4.6	RAGG6030	82.40
6"	4"	4.0	7.0	RAGG6040	82.40

End Caps ANSI Cap with Tapped Outlet - Series EC

Features:

- ductile iron construction with rust inhibiting paint

Nominal Size	Outlet	E to E	Approx. Weight (Lbs.)	Ductile Iron	
				Part #	Price/E
2"	1"	7/8"	.50	EC201	\$31.30
2½"	1"	7/8"	.70	EC251	40.30
3"	1"	7/8"	1.05	EC301	40.30
4"	1"	1"	2.30	EC401	43.85
4"	2"	1"	2.10	EC402	39.85
6"	1"	1"	5.10	EC601	99.05
6"	2"	1"	5.35	EC602	105.20
8"	2"	1-3/16"	10.10	EC802	202.15



Blank Caps - Series BE

Features:

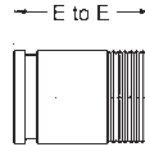
- Interchangeable with:
Victaulic's #60
Grinnell's #7074
- ductile iron body with rust inhibiting paint
- Underwriters Listed and Factory Mutual approved

Nominal Size	E to E	Approx. Weight (Lbs.)	Ductile Iron	
			Part #	Price/E
2"	7/8"	.6	BEC20	\$27.45
2½"	7/8"	.7	BEC25	36.20
3"	7/8"	1.1	BEC30	37.45
4"	1"	2.6	BEC40	38.70
6"	1"	5.0	BEC60	96.75
8"	1-3/16"	11.0	BEC80	178.50



Adapter Nipples Long Pipe Style Nipples - Series AN

Nominal Size	E to E	Ductile Iron	
		Part #	Price/E
2"	4"	A712	\$48.65
2½"	4"	A7125	57.05
3"	4"	A713	88.60
4"	6"	A714	115.80
5"	6"	A715	185.00
6"	6"	A716	205.00



Grooved End x Weld Nipples

Nominal Size	Aluminum		Carbon Steel		316 Stainless Steel	
	Part #	Price/E	Part #	Price/E	Part #	Price/E
2"	AVN2000-200	\$18.50	VN2000-200	\$19.15	VNR2000-200	\$27.10
2½"	AVN2500-200	30.00	VN2500-200	21.70	VNR2500-200	28.80
3"	AVN3000-200	24.10	VN3000-200	24.25	VNR3000-200	34.65
4"	AVN4000-200	42.30	VN4000-200	37.10	VNR4000-200	52.50



Grooved End Iron **Butterfly** Valves

Application:

- designed for water and air applications

Features:

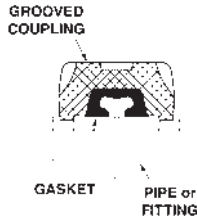
- EPDM seals
- 300 PSI working pressure
- 210°F maximum temperature
- material:
body: ductile iron, epoxy coated
disc: ductile iron, EPDM encapsulated
stem: stainless steel
notch plate: zinc steel

NEW
FOR 2013



Size	Part #	Price/E
2"	GIBFV200	\$218.00
2½"	GIBFV250	250.00
3"	GIBFV300	350.00
4"	GIBFV400	430.00
6"	GIBFV600	810.00
8"	GIBFV800	1010.00

Gaskets



- check gasket color code to be certain it is recommended for the service intended
- use lubricant on gasket
- For services not listed contact Dixon for recommendations.

Viton®


Features:

- compound type: Fluoro Elastomer
- temperature range: **-13°F to 350°F**
- color code: black with blue stripe
- resistant to oxidizing acids, petroleum oils, hydraulic fluids, halogenated hydrocarbons and lubricants

Size	Viton®	
	Part #	Price/E
2"	G200V	\$38.35
3"	G300V	57.05
4"	G400V	79.45

EPDM


Features:

- compound type: EPDM
- temperature range: **-22°F to 230°F**
- color code: black with green stripe
- water, dilute acids, alkalies, salts, and many chemical services not involving hydrocarbons, oils, or gases.
- Excellent oxidation resistance.
- *Not for use with hydrocarbons* 

Size	EPDM	
	Part #	Price/E
1½"	G150E	\$34.60
2"	G200E	9.25
2½"	G250E	11.10
3"	G300E	12.30
4"	G400E	17.90
5"	G500E	65.75
6"	G600E	32.30
8"	G800E	52.60

Buna-N

Features:

- compound type: Buna-N
- temperature range: **-24°F to 176°F**
- petroleum products, vegetable oils, mineral oils, and air contaminated with petroleum oils.
- *Not for use in hot water services* 

Style	Black Buna with orange stripe		White Buna Gruvlok seal	
	Part #	Price/E	Part #	Price/E
1½"	G150T	\$34.60	---	---
2"	G200T	9.25	---	---
2½"	G250T	11.10	---	---
3"	G300T	12.30	---	---
4"	G400T	17.90	G400N	\$34.30
5"	G500T	65.75	---	---
6"	G600T	32.30	---	---
8"	G800T	52.60	---	---


Nuts and Bolts

Features:

- the nuts are a heavy hexagon design
- electroplated carbon steel
- The bolts are specifically designed for use with the couplings on pages 630-632.

Standards:


- conform to ASTM A183

Bolt Thread	Bolt Length	Torque Ft. Lbs.	Carbon Steel	
			Part #	Price/E
3/8"	2"	30	BLT38200	\$5.95
3/8"	2¼"	30	BLT38225	19.30
1/2"	2½"	50	BLT50212	5.95
1/2"	2¾"	50	BLT50234	8.15
5/8"	3¼"	75	BLT58314	5.35
3/4"	4¼"	75	BLT75414	17.50
 7/8"	5"	200	BLT78500	17.80
7/8"	6"	100	BLT78600	25.00

Groove Lube



Features:

- water soluble
- non-toxic
- non-corrosive
- non-flammable
- NSF approved for use with potable water
- *Should not be used with HDPE pipe.* 

Size	Container	Part #	Price/E
1 qt.	Tub	GROOVLUB32	\$263.00

3" Drop Elbows (Tight Fill Couplers)

Complete Units

Features:

- aluminum body
- brass handle and cam arms with buna gasket
- steel bolts on inlet end
- plexiglass sight flow insert with buna seals

Coupler Size	Inlet Size	Inlet Type	Aluminum	
			Part #	Price/E
3"	3"	male adapter	300300MAE	\$655.00
3"	4"	male adapter	3004030MAE	685.00

Coupler Body

plunger type handle

Size	Aluminum	
	Part #	Price/E
3"	300-TFG	\$603.75



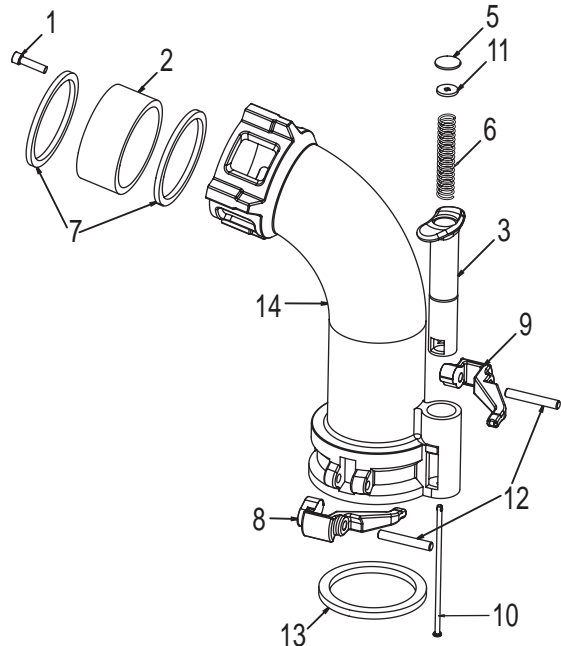
Inlet Ends

Inlet Size	Inlet Type	Aluminum	
		Part #	Price/E
3"	male adapter	300-MAE	\$71.00
4"	male adapter	4030-MAE	102.90



Parts List

Item #	Description	Part #	Price/E
1	screw-inlet end	P3-TFG-1	\$1.50
2	plexiglass-shell only	P3-TFG-2	30.00
3	plunger	P3-TFG-3	65.00
5	plunger cap	P3-TFG-5	5.50
6	spring	P3-TFG-6	6.80
7	plexiglass gasket	P3-TFG-7	3.50
8	right cam arm	P3-TFG-8	54.00
9	left cam arm	P3-TFG-9	54.00
10	rod	P3-TFG-10	10.00
11	disc	P3-TFG-11	9.50
12	pin	300-P	2.15
13	coupler gasket	300-G-BU	1.45
14	body	P3-TFG-13	---



4" Drop Elbows (Tight Fill Couplers)

Features:

- cast aluminum modular construction
- brass handle and cam arms with buna gasket
- stainless steel bolts on inlet end
- acrylic sight glass with buna seals
- For information on additional elbow configurations such as pre-assembled elbows, contact Dixon.



side lever type handle

Size	Inlet Type	A Overall Height	B Ground Clearance	Aluminum	
				Part #	Price/E
4"	elbow only, <i>without inlet connection</i>	17-3/4"	10-7/8"	6200	\$906.50
4"	elbow with 4" adapter inlet	17-3/4"	10-7/8"	6200A	1018.95
4"	elbow with anti-spill sleeve, <i>without inlet connection</i>	17-3/4"	10-7/8"	6200T	986.80
4"	elbow with 4" coupler inlet	17-3/4"	10-7/8"	6200D	1101.20



side lever type handle - extended body

Size	Inlet Type	A Overall Height	B Ground Clearance	Aluminum	
				Part #	Price/E
4"	tall elbow only, <i>without inlet connection</i>	21"	13-3/4"	6200X	\$1012.10
4"	tall elbow with 4" adapter inlet	21"	13-3/4"	6200XA	1141.65
4"	tall elbow with anti-spill sleeve, <i>without inlet connection</i>	21"	13-3/4"	6200XT	1098.15
4"	tall elbow with 4" coupler inlet	21"	13-3/4"	6200XD	1212.90
4"	tall elbow with anti-spill tube & 4" coupler inlet	21"	13-3/4"	6200XDT	1298.85



Self-Locking

Size	Inlet Type	A Overall Height	B Ground Clearance	Aluminum	
				Part #	Price/E
4"	tightfill elbow with locking handle	17-3/4"	10-7/8"	6500	\$959.55
4"	tightfill elbow with locking handle and 4: adapter inlet	17-3/4"	10-7/8"	6500A	1012.35

Inlet Ends

- Replacement parts are available, contact Dixon for more information.



Inlet Size	Inlet Type	Aluminum	
		Part #	Price/E
3"	male adapter	6000-16	\$96.95
4"	male adapter	6000-17	96.95
3"	female coupler	6000-15	177.80
4"	female coupler	6000-14	177.80
4"	female with FNPT	6000-20	97.10

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Top Side Lever Elbow Fits 6200 Elbow Only

- For replacement parts for other style elbows, contact Dixon.

Bill Of Materials

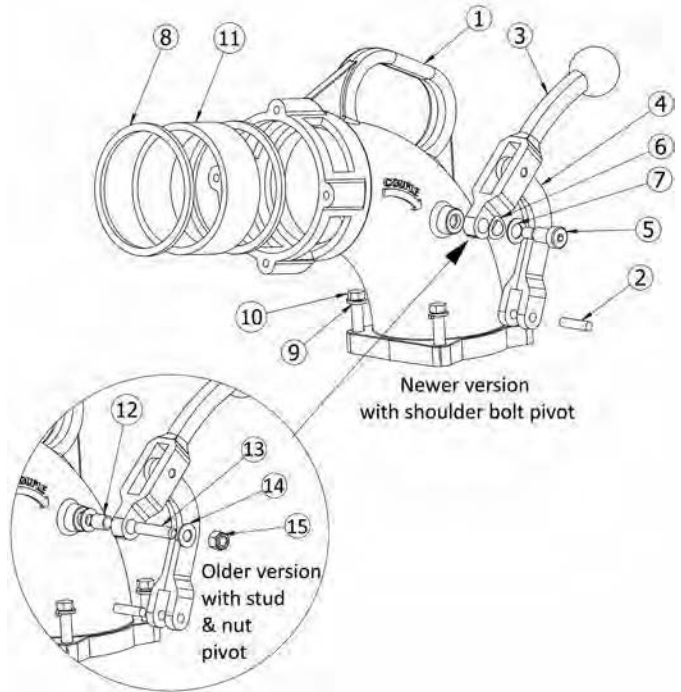
Item #	Description	Part #	Price/E	Qty
1	body	6200-1	\$188.25	1
2	pin	PIN5/16x11/4P	3.00	2
3	handle	use kit 6200-15ASSM	---	1
4	handle linkage	use kit 6200-15ASSM	---	1
5 ¹	shoulder bolt	use kit 6200SBK¹	---	1
6 ¹	wave washer	use kit 6200SBK¹	---	1
7 ¹	SS flat washer	use kit 6200SBK¹	---	1
8A	Baylast™ gasket	4433	9.75	2
8B	Viton® gasket (opt.)	4426	12.00	2
9	lock washer	use kit 6000EHK	---	4
10	bolt	use kit 6000EHK	---	4
11	sight glass	use kit 6200SGK	---	1
12 ²	bushing	use kit 6200SHK²	---	1
13 ²	stud	use kit 6200SHK²	---	1
14 ²	nylon washer	use kit 6200SHK²	---	2
15 ²	nut	use kit 6200SHK²	---	1

¹ items 5 - 7 for shoulder bolt pivot version only

² items 12 - 15 for stud and nut pivot version only

Repair Kits

Part #	Description	Includes	Price/E
6200SGK	replacement sight glass and Baylast™ seals	8, 11	\$52.45
6000EHK	replacement bolts and lock washers	9, 10	8.80
6200-15ASSM	replacement handle, linkage and pin	2, 3, 4	56.30
6200SHK²	replacement stud pivot, nylon washers, bushing and nut	5, 6, 7	16.45
6200SBK²	replacement stud pivot, nylon washers, bushing and nut	12, 13, 14, 15	5.15



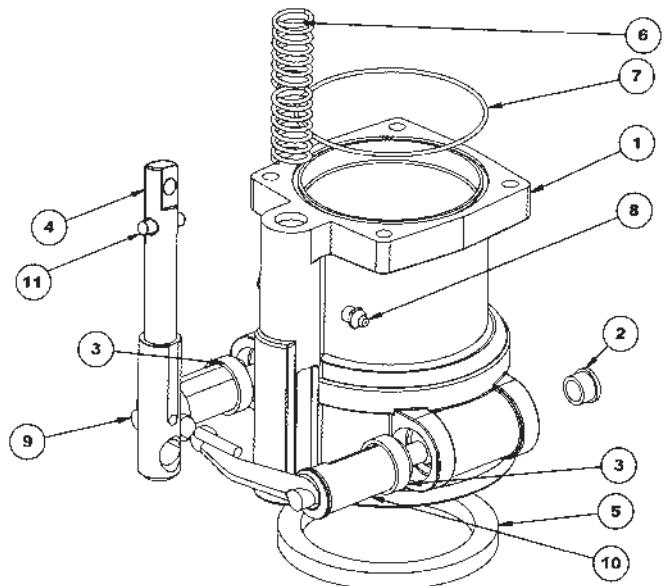
Bottom Unit, for Side Lever Elbows Fits 6200, 6400 and 6500 Standard and Tall Elbows

Bill Of Materials

Item #	Description	Part #	Price/E	Qty
1	body	use kit 6230	---	1
2	small bushing	use kit 6200BK	---	2
3	large bushing	use kit 6200BK	---	2
4A	handle stem (stand)	6200-7	\$73.70	1
4B	handle stem (tall)	6200-7X	91.65	1
5	main gasket	6000-9	8.15	1
6	spring	112012	5.90	1
7	O-ring	AS156	2.70	1
8	grease nipple	NIPPLE/1	6.85	1
9	right arm	use kit 6200ARK	---	1
10	left arm	use kit 6200ARK	---	1
11	pin	PIN5/16x11/4P	3.00	1

Repair Kits

Part #	Description	Includes	Price/E
6230	complete standard replacement bottom unit	all	\$429.95
6230X	complete tall replacement bottom unit	all	504.90
6200ARK	replacement left and right arms, main gasket, O-rings, small and large bushings	2, 3, 5, 7, 9, 10	141.60
6200BK	replacement small and large bushings	2, 3	42.80



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Vapor Recovery Drop Elbows



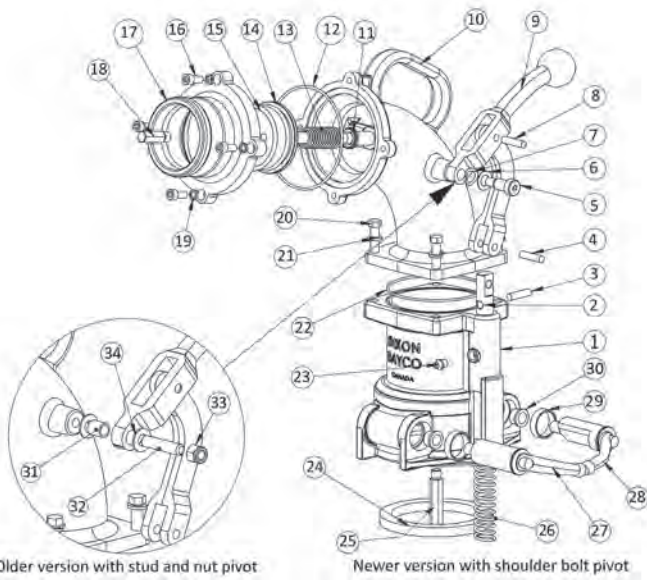
Features:

- for use in two point vapor recovery system
- one-piece bronze locking arms housed in polymer bushings
- advanced design side lever locking system
- Buna seals and stainless steel hardware
- bolt on 3" male outlet included (**VR6000-6**) which can be rotated for extended life
- lubrication fitting on locking stem
- see 6400 co-axial elbow for single point vapor recovery on page 641

Description	Aluminum	
	Part #	Price/E
3' male adapter with probe, without poppet valve	VR6200NP	\$711.45
3" male adapter outlet with probe and poppet valve	VR6200	810.05

VR6200 Series Vapor Elbows

Bill Of Materials



Item #	Description	Part #	Price/E	Qty
1	bottom body	use kit VR6030	---	1
2	stem	6200-7	\$71.55	1
3	stem stop pin	PIN5/16X1¼-P	POR	1
4	stem link pin	PIN5/16X1¼-P	POR	1
5 ¹	shoulder bolt pivot	use kit 6200SBK¹	---	1
6 ¹	SS flat washer	use kit 6200SBK¹	---	1
7 ¹	wave washer	use kit 6200SBK¹	---	1
8	handle pin	PIN 5/16X1¼-P	POR	1
9	handle and linkage	use kit 6200-15ASSM	---	1
10	top elbow body	VR6000-1	198.25	1
11	poppet bushing	VR6000-3	12.70	1
12	outlet O-ring only	110319	2.70	1
13	poppet spring	L1110-L2287	18.30	1
14	Viton® poppet seal	O-RING-AS-334	11.50	1
15	poppet valve	VR6000-4	59.20	1
16	outlet adapter bolt	use kit 6000NPHK	---	4
17	outlet adapter with outlet O-ring	VR6000-6	61.50	1
18	poppet valve stand off	VR6000-5	13.25	1
19	lock washer	use kit 6000NPHK	---	4
20	bolt	use kit 6000EHK	---	4
21	lock washer	use kit 6000EHK	---	4
22	body O-ring	AS156	2.70	1
23	grease nipple	NIPPLE/1	6.65	1
24	main seal gasket	6000-9	8.15	1
25	probe	VR6000-7	9.75	1
26	stem spring	112012	5.90	1
27	left arm	VR6000-9	74.90	1
28	right arm	VR6000-8	74.90	1
29	large bushing	use kit 6200BK	---	2
30	small bushing	use kit 6200BK	---	2
31 ²	pivot bushing	use kit 6200SHK²	---	1
32 ²	pivot stud	use kit 6200SHK²	---	1
33 ²	pivot lock nut	use kit 6200SHK²	---	1
34 ²	nylon washer	use kit 6200SHK²	---	2

Repair Kits

Part #	Description	Includes	Price/E
VR6230	complete replacement bottom body	1, 2, 3, 22, 23, 24, 25, 26, 27, 28, 29, 30	\$447.55
6200SBK¹	replacement shoulder bolt pivot, wave washer and flat washer	5, 6, 7	2.15
6200-15ASSM	replacement handle, linkage and linkage pin	8, 9	54.65
6000NPHK	replacement adapter (4) bolts and lock washers	16, 19	6.00
6000EHK	replacement body bolts and lock washers	20, 21	8.80
6200BK	replacement (2) large and small arm bushing	29, 30	42.80
6200SHK²	replacement stud pivot, nylon washer, bushing and nut	31, 32, 33, 34	15.95

¹ items 5 - 7 for shoulder bolt pivot version only
² items 12 - 15 for stud and nut pivot version only

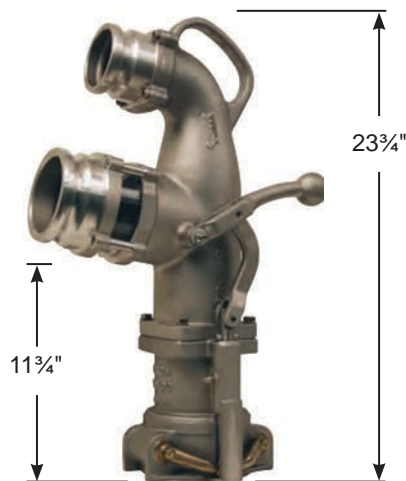
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Coaxial Drop Elbow

Features:

- for single point vapor recovery only
- 3" male vapor outlet (top)
- comes assembled with 4" male inlet
- 6400 co-axial inlets do not fit our other elbow series
- quality cast aluminum construction with solid bronze arms
- bolt-on inlets/outlets for easy, fast replacement
- acrylic sight glass with buna seals
- replacement parts are available, please contact Dixon

Description	Aluminum	
	Part #	Price/E
4" male inlet	6400	\$1324.20



Coaxial Drop Elbow Replacement Fuel Inlets

**NEW
FOR 2013**

Features:

- for 6400 series coaxial elbows only
- rated for petroleum service, Ethanol to E100 and biodiesel to B20

Description	Aluminum	
	Part #	Price/E
3" adapter fuel inlet	6000-16C	\$72.50
4" adapter fuel inlet	6000-17C	72.50
3" coupler fuel inlet	6000-15C	134.00
4" coupler fuel inlet	6000-14C	128.10



Side Seal Drop Elbow

Features:

- for use with special 4" side seal style fill collars only
- modular, easy to repair, bolt together aluminum construction
- comes with acrylic sight glass with buna seals (2), bronze locking levers and buna main seal
- 4" male adapter inlet and lock ring installed
- replacement parts are available, please contact Dixon

Description	Aluminum	
	Part #	Price/E
side seal elbow with lock ring and 4" male adapter inlet	6000ASAL	\$805.55



Side Seal Adapter

Features:

- allows conventional elbows to be used with special side seal style fill collars
- bottom connects to side seal fill collar
- top section with standard 4" top seal collar profile to accept clamping of standard 4" drop elbows
- replacement parts are available, please contact Dixon

Description	Aluminum	
	Part #	Price/E
4" top seal drop elbow adapter x side seal connection	6000-SSA	\$366.15



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Tank Truck Flanged Sight Flow Indicators

- Due to the proprietary blending of petroleum products, Dixon recommends that the thermoplastic tubing and the gaskets be immersion tested in the product to be handled to ensure compatibility (not compatible with crude oil).
- for tank truck flange gaskets, see page 48
- for dimensional information on tank truck flange drilling, see page 713



Features:

- durable cast aluminum housing replaces the acrylic sight glass commonly found on tank trucks
- allows for visual identification of the fuel grade prior to opening the valve
- works with tank truck flanged butterfly valves found on gasoline trucks
- low cost sight glass tube can be easily replaced



TTMA pattern flanged short sight flow indicators

Size	Length	Aluminum	
		Part #	Price/E
4"	1 3/4"	5200-SFI	\$175.65
3"	1 3/4"	5200-SFI-3	160.70

repair kits

Part #	Description	Price/E
5200-SFI-3-RK1	3" replacement sight glass, Baylast™ O-ring and retainer ring kit	\$78.40
5200-SFI-3V-RK1	3" replacement sight glass, Viton® O-ring and retainer ring kit	145.20
5200-SFI-RK1	4" replacement sight glass, Baylast™ O-ring and retainer ring kit	78.40
5200-SFIV-RK1	4" replacement sight glass, Viton® O-ring and retainer ring kit	145.20

Features:

- allows for visual identification of the fuel grade prior to opening the valve
- works with tank truck flanged butterfly valves found on gasoline trucks
- larger ID 4-3/8" flow indicator allows tank truck flanged butterfly valves to connect to either end of the indicator
- rated to **150 PSI**



sight flow indicator with 4-3/8" flow

Size	Length	Aluminum		Opt Qty
		Part #	Price/E	
4"	3"	5201-SFI	\$248.75	5

replacement parts

Description	Used on	Part #	Price/E
replacement Baylast O-rings, sight glass and retaining ring	5201-SFI	5201-SFI-RK1	\$81.95
Buna-N O-ring		O249BU	4.75

Features:

- allows for visual identification of the fuel grade prior to opening the valve
- 4" flow diameter

sight flow indicator with 4" flow

Size	Aluminum		Opt Qty
	Part #	Price/E	
4"	4-1460-AL	\$190.10	10

replacement parts

Description	Part #	Price/E	Opt Qty
plexiglass insert	4PSG	\$84.00	10
Buna-N O-ring	O246BU	4.25	10



R

Fill Pipe Adapters TFA Series Adapters

Feature:

- for use with 3" drop elbows (300-TFG)

Adapter Size	Female NPT Thread	Aluminum Hardcoat Part #	Price/E	Opt Qty
3"	3"	300-TFA	\$62.65	10



Fill Adapters

Features:

- for use with 4" drop and co-axial elbows (6200, 6400 and 6500 series)
- **BZ4051S** has NPSM thread and is supplied with a gasket

Adapter Size	Female Thread	Height	Material	Part #	Price/E	Opt Qty
4"	4" NPSM	2-3/8"	bronze	BZ4051S	\$107.30	5
4"	4" NPT	3-1/2"	bronze	BZ4051	128.60	5



with NPSM thread



with NPT thread

Vapor Recovery Adapters

Features:

- low profile design
- poppeted vapor collar at station vapor outlet
- can also be used as vapor valve on tanker but does not have air interlock mount
- for use with dual point vapor elbows (VR6200 series)
- replacement parts are available, contact Dixon for more information

Adapter Size	Female Thread	Height	Material	Part #	Price/E	Opt Qty
4"	4" NPT	3-5/8"	bronze	VR4086	\$304.10	5
4"	4" NPT	3-5/8"	ZN-AL alloy	VR4086-BY	239.40	5



Fill Pipe Adapter Caps

Features:

- single action locking cap
- aluminum cap
- bronze cam arms
- replacement parts are available, contact Dixon for more information

Size	Aluminum Part #	Price/E	Opt Qty
4"	SA4050AL	\$103.00	10



R

API Dust Caps



Size	Description	Aluminum		Opt Qty
		Part #	Price/E	
4" API	with flat gasket	41450-DCAL	\$154.00	5
	with O-ring seal	5000-24	124.15	10

Size	Description	Nylon		Opt Qty
		Part #	Price/E	
4" API	with flat gasket	5000-25	\$88.20	20

Gravity Drop Adapters

Application:

- for offloading through an API adapter



4540

Adapter Size	Coupler Size	Description	Aluminum	
			Part #	Price/E
3"	4" API	with O-ring seal	4530	\$196.10
3"	4" API	with inline sight glass and flat gasket	4530SG	249.50
3"	4" API	with flat gasket	31440-225AL	183.80
4"	4" API	with O-ring seal	4540	196.10
4"	4" API	with inline sight glass and flat gasket	4540SG	251.85
4"	4" API	with flat gasket	41440-225AL	189.60

repair kits

Description	Part #	Price/E
sight glass repair kit (fits 3" and 4")	4540SG-RK1	\$65.55
replacement cam arms and pins (fits 3" and 4")	4540SG-RK3	29.90
replacement chain and "S" hook	5205-RK4	10.75

replacement gaskets

Description	Material	Part #	Price/E
O-ring replacement seal for 4530, 4540, 5000-24	Baylast	4500-5	\$7.06
flat replacement gasket for 4530SG, 4540SG	Baylast	4540SG-RK2	8.50
flat replacement gasket for 31440-225AL, 41440-225AL, 41450-DCAL	Buna	2143SEALBU	13.00
flat replacement gasket for 5000-25	Buna	5000-25RK1	16.65



4540SG

4" Vapor Caps

Features:

- special locking cap for underground tank vapor outlet VR4086 and tanker vapor valves
- bronze cam arms
- aluminum painted vapor recovery orange



Size	Aluminum	
	Part #	Price/E
4"	VR4050AL	\$105.20

Features:

- Centered "T" handle allows for one-handed use and provides a solid locking mechanism.
- strong and lightweight
- built-in locking feature
- corrosion resistant materials
- color coded vapor recovery orange
- replacement parts are available, contact Dixon for more information



Size	Nylon	
	Part #	Price/E
4"	VR4050PL	\$64.80

R

Tank Transport Equipment Fusible Pipe Caps

female NPSM

Size	Stainless Steel ¹			Aluminum			Iron		
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
3"	300-SFC-SS	\$112.00	10	300-SFC-AL	\$110.00	10	300-SFC-MI	\$110.00	10



Pipe Caps

female NPSM

Size	Stainless Steel ¹			Aluminum			Iron		
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
2"	200-PC-SS	\$119.00	--	---	---	--	200-PC-MI	\$40.00	---
3"	300-PC-SS	86.75	10	300-PC-AL	\$43.25	10	300-PC-MI	50.40	10
4"	400-PC-SS	242.00	--	---	---	--	---	---	---



Reducers

female NPSM x male NPT

Size	Stainless Steel ¹			Aluminum			Iron		
	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty	Part #	Price/E	Opt Qty
3" x 2"	3020-RD-SS	\$140.00	10	3020-RD-AL	\$65.00	10	3020-RD-MI	\$58.00	10
4" x 3"	4030-RD-SS²	570.00	---	4030-RD-AL	128.00	---	---	---	---



² welded fabrication

Reducing Cap

female NPSM x female NPT

Size	Stainless Steel *	Price/E	Opt Qty
	Part #		
3" x 1"	3010-RC-SS	\$196.00	10



¹ PTFE gaskets are standard in stainless steel fittings.

Gaskets and Washers

Size	Buna-N		Opt Qty	PTFE		Opt Qty	Neoprene		Viton®	
	Part #	Price/E		Part #	Price/E		Part #	Price/E	Part #	Price/E
1½"	---	---	--	150GPCTF	\$5.70	--	---	---	---	---
2"	200GPCBU	\$2.00	25	200GPCTF	4.95	10	KNW25	\$0.85	KVW25	\$10.10
3"	300GPCBU	2.25	25	300GPCTF	6.45	25	KNW35	1.35	KVW35	21.85
4"	---	---	--	400GPCTF	13.25	--	KNW40	2.15	---	---

Tank Transport Equipment - Intermodal Pipe Caps

female BSPP

Size	Aluminum		Stainless Steel ¹		Opt Qty
	Part #	Price/E	Part #	Price/E	
3"	300PCALAP	\$58.20	300PCSSAP	\$99.00	10



Thread Adapters

Size	Stainless Steel ¹	Price/E
	Part #	
3" x 2"	3020RDSSAP	\$175.00
3" x 3"	3030RDSSAP	253.50



Cam and Groove Adapter female BSPP

Size	Stainless Steel ¹	Price/E
	Part #	
3"	300ASSAP	\$152.80



¹ PTFE gaskets are standard in stainless steel fittings.



Bayonet Style Dry Disconnect Couplings

Application:

- Designed for use in the fuel and lube oil service industry, they are not designed to be interchangeable with other types of dry disconnects, however they are used with the Emco Wheaton™ Dry Break™ commonly found in these services.

Features:

- Maximum pressure rating: **85 PSI @ 70° F**, for pressure ratings at other temperatures contact Dixon.

Adapters

bayonet style adapter x female NPT



Size	Seal Material	Stainless Steel		Brass		Aluminum	
		Part #	Price/E	Part #	Price/E	Part #	Price/E
2"	Buna	BA31-200	\$215.75	---	---	---	---
2"	Viton®	BA32-200	215.75	---	---	---	---
3"	Buna	---	---	BA31-300	\$523.35	BA61-300	\$479.45
3"	Viton®	---	---	BA32-300	523.35	BA62-300	479.45

Dust Cap for Adapters



Feature:

- rubber dust caps and stainless steel chains

Size	Part #	Price/E
2"	BAC-200	\$50.95
3"	BAC-300	56.65

Couplers

- replacement parts are available, contact Dixon for more information

bayonet style 90° swivel coupler x female NPT



Size	Seal Material	Anodized Aluminum	
		Part #	Price/E
2"	Buna	BS61-200	\$864.95
2"	Viton®	BS62-200	932.90
3"	Buna	BS61-300	1478.20
3"	Viton®	BS62-300	1596.10

bayonet style straight coupler x female NPT



Size	Seal Material	Anodized Aluminum	
		Part #	Price/E
2"	Buna	BC61-200	\$687.20
2"	Viton®	BC62-200	749.15

bayonet style straight swivel coupler x female NPT



Size	Seal Material	Anodized Aluminum	
		Part #	Price/E
2"	Buna	BSS61-200	\$864.95
2"	Viton®	BSS62-200	932.90
3"	Buna	BSS61-300	1396.35
3"	Viton®	BSS62-300	1516.20

Dust Plug for Couplers



Feature:

- rubber dust plugs and stainless steel chains

Size	Part #	Price/E
2"	BCP-200	\$64.55
3"	BCP-300	73.45

R

Ball Nozzles for Bulk Delivery

Features:

- rugged construction provides rapid fuel oil transfer/delivery
- high flow
- heavy duty roller ball swivel with low temperature seals freely rotates without leaking at **-40°F** and **100 PSI**
- 3 PSI check valve is included to prevent back flow, 5 PSI is optional

ball nozzle with swivel adapter outlet

Female NPT Inlet	Outlet	Anodized Aluminum	
		Part #	Price/E
1 1/4"	swivel quick fill nut	BL062	\$708.00
1 1/2"	swivel quick fill nut	BL064	708.00

ball nozzle with spout outlet

Female NPT Inlet	Spout Outlet	Anodized Aluminum	
		Part #	Price/E
1 1/4"	1 1/4"	BL066	\$708.00
1 1/2"	1 1/4"	BL068	708.00
1 1/2"	1 1/2"	BL072	708.00

ball nozzle replacement spouts

Size	Aluminum	
	Part #	Price/E
1 1/4"	1143A	\$53.85
1 1/2"	1125A	58.60

ball nozzle without spout outlet

Female NPT Inlet	Female NPT Outlet	Anodized Aluminum	
		Part #	Price/E
1 1/4"	1 1/4"	BL066NS	\$600.15
1 1/2"	1 1/4"	BL068NS	601.15
1 1/2"	1 1/2"	BL072NS	600.15



BL062



BL072

repair kits

NEW

Description	Part #	Price/E
inlet swivel seal and wear kit	SWMF-RK2	\$52.65
complete inlet swivel rebuild kit	SWMF-RK3	115.30
1 1/2" FNPT replacement inlet swivel	SWMF-RK4	202.85
1 1/4" FNPT replacement inlet swivel	SWMF-RK5	202.85
1 1/2" BSPP replacement inlet swivel	SWMF-RK6	202.85
replacement swivel outlet (BL062, BL064)	BL005	98.00
ball valve shaft seal kit	BL-RK4	47.45
complete ball nozzle seal kit	BL-RK10	46.25
optional check valve 5 PSI spring kit	BL-RK11	20.00
standard check valve 3 PSI cartridge kit	BL-RK12	74.75

super ball nozzle with spout outlet

Female NPT Inlet	NPT Spout Outlet	Anodized Aluminum	
		Part #	Price/E
2"	2"	BL920	\$815.55

super ball nozzle replacement spout

Size	Aluminum	
	Part #	Price/E
2"	391137	\$81.95



R

repair kits

NEW

Description	Part #	Price/E
inlet swivel grease nipple kit (optional)	SWMF-RK1	\$15.75
inlet swivel seal and wear kit	SWMF-RK22	31.10
complete inlet swivel rebuild kit	SWMF-RK32	113.80
2" FNPT replacement inlet swivel	SWMF-RK42	233.25
1 1/2" FNPT replacement inlet swivel	SWMF-RK52	233.25
ball valve shaft seal kit	BL-RK42	47.45
complete ball nozzle seal kit	BL-RK102	34.40
optional check valve 5 PSI spring kit	BL-RK112	9.20
standard check valve 3 PSI cartridge kit	BL-RK122	44.15
replacement trigger kit	BL-RK13	67.95

UL^{US} Standard Utility Nozzles

Application:

- for use with 12 volt pumps and gravity flow fittings in economy fuel dispensing applications

Features:

- Underwriters Listed
- working pressure to **25 PSI**



Female NPT Inlet	Spout Outlet	Die Cast Aluminum Part #	Price/E
1"	1" outlet	900 ¹	\$67.45
1"	1" straight	900S	76.15
1"	1" bent	900B	76.15
1"	¾" straight	900W34S	76.15
1"	¾" bent	900W34B	76.15
¾"	¾" straight	900S34 ²	79.35
¾"	¾" bent	900B34 ²	79.35

¹ nozzle body only (no spout)

² ¾" nozzle inlet uses 1" x ¾" reducer bushing, supplied

replacement items

Description	Part #	Price/E
¾" replacement straight spout	234-80-4	\$11.65
¾" replacement bent spout	234-80-5	17.65
1" replacement straight spout	875-4	11.85
1" replacement bent spout	875-5	12.60
trigger	900TK	4.90
plunger & valve assemblies, cap, O-ring	900SK	19.90

Pressure Nozzle for Bulk Delivery

Features:

- manual operation (non-automatic) for high pressures and fuel flow up to **80 GPM**
- easy opening dash pot design with shockless closing
- detachable trigger ratchet, packing gland and seal
- bronze trigger



without spout

Female NPT Inlet	Female NPT Outlet	Aluminum Part #	Price/E
1¼"	1¼"	114DNS	\$394.25
1½"	1½"	112DNS	356.80

with spout

Female NPT Inlet	Spout Outlet	Aluminum Part #	Price/E
1¼"	1¼"	114D	\$438.30
1½"	1½"	112D	383.20

replacement items

Description	Part #	Price/E
aluminum replacement spout for 114D	1143A	\$53.85
aluminum replacement spout for 112D	1125A	58.60
main poppet, 2nd poppet, cap O-ring, valve stem	112DSK	96.60
blank plate to replace ratchet plate if ratchet not required	114DAL-AV-19	24.00
main and secondary poppets, cap O-ring, valve stem assembly and packing, sleeve stem packing and nut	114DSK	120.75



Overwing Aircraft Nozzles

Features:

- manual operation (non-automatic) for high pressures and fuel flow up to **80 GPM**
- easy opening dash pot design with shock-less closing
- detachable trigger ratchet, packing gland and seal
- bronze trigger and plastic guard pad to protect wing
- spout comes with cap, spring cord, fine mesh stainless steel screen filter, screw attachment for grounding cable (cable not supplied)

R



Female NPT Inlet	Spout Outlet	Aluminum Part #	Price/E
1¼"	1"	114DAVR	\$744.30
1¼"	1¼"	114D-AV	744.30
1½"	1¼"	114D-AV-06ASM	789.75

replacement items

Description	Part #	Price/E
trigger, bushing, pin and cotter pin	114/2D-TK	\$36.90
main & secondary poppet assemblies, cap O-ring, valve stem assembly	114DAV-SK	129.65
1" spout assembly	114DAL-AV-25	150.25
1¼" spout assembly	114DAL-AV-16	106.50

Large Capacity Low Pressure / Gravity Nozzle

Application:

- rugged utility nozzle for low pressure/gravity applications

Features:

- rapid flow due to 1¼" oversize design
- **25 PSI** maximum pressure

Female NPT Inlet	Spout Outlet	Aluminum Part #	Price/E
1¼"	1¼"	1250-94	\$251.75



repair kits NEW

Description	Part #	Price/E
trigger, pin	1250TK	POR
plunger, O-rings, valve seal, valve base, valve plate	1250SK	POR

Hose Swivels

Features:

- for use with petroleum and home heating oil hose
- prevents hose twisting or kinking

Hose Shank

Male NPT	Shank Size	Bronze Part #	Price/E
1½"	1½"	1565U	\$148.70

repair kit NEW

Description	Part #	Price/E
replacement seal kit and retaining ring	1500SK	POR



Heavy Duty

Features:

- male NPT x female NPT threaded connections
- heavy duty internal thrust bearing and anti-friction seal design ensures swiveling at **-40°F**
- can be lubricated without disassembly by using the optional grease fitting kit

Male NPT	Female NPT	Aluminum Part #	Price/E
1¼"	1¼"	SWMF125	\$198.70
1½"	1½"	SWMF150	198.70
2"	2"	SWMF200	222.05



repair kits NEW

Description	Part #	Price/E
swivel grease nipple kit	SWMF-RK1	\$15.75
swivel seal and wear kit	SWMF-RK2	52.65
complete swivel rebuild kit	SWMF-RK3	115.30
swivel seal and wear kit	SWMF-RK22	31.10
complete rebuild kit	SWMF-RK32	113.80

Hose Swivels

Features:

- Allows the hose to relax to it's natural rest position while allowing freedom of movement without adding torque stress at the point of connection.
- simple design, low maintenance - consists of 2 body halves, ball bearings and a washer
- Viton® seals standard, Chemraz® and Kalrez® optional
- working pressure: **150 PSI**
- maximum temperature: **300°F (149°C)**

Size	316 Stainless Steel		Aluminum	
	Part #	Price/E	Part #	Price/E
¾"	HS075SS	\$684.45	HS075AL	\$315.60
1"	HS100SS	684.45	HS100AL	315.60
1½"	HS150SS	713.60	HS150AL	370.55
2"	HS200SS	713.60	HS200AL	370.55
3"	HS300SS	1513.10	HS300AL	876.30
4"	HS400SS	2926.25	HS400AL	1695.40



R

Dixon Diesel and Gasoline Nozzles

FuelMaster™ Diesel Nozzles



Features:

- Provides the high flow capacity required by many truck stops and terminal operations.
- Micro-touch valve provides smooth operation and exceptional flow control.
- *These nozzles are not to be used with gravity flow tanks.*
- super tough nylon hand guard and hold-open clip
- easy to change 'locknut style' spout assembly
- green scuff guard
- automatic shutoff
- Underwriter's Listed
- not designed for use with small 12 volt pumps, AC utility pumps, farm pumps or consumer pumps

NPT Inlet	Spout Size	Wt (lbs)	Approx. Flow Rate at 20 PSI (GPM)	Part #	Price/E
1"	1-3/16"	3.5	30	DFN100HF	\$212.50
1"	1-3/16"	3.6	45	DFN100SF	295.50

Big Mouth™ Diesel Nozzle



Features:

- Micro-touch valve allows precise flow control
- Roto-matic latch pin provides positive auto shut-off
- *This nozzle is not to be used with gravity flow tanks.*
- pure PTFE packing eliminates stem leaks
- Super tough nylon hold-open clip and hand guard bend, but won't break.
- Snap-on handle cover makes changing scuff guards easy.
- yellow scuff guard
- automatic shutoff
- Underwriter's Listed
- not designed for use with small 12 volt pumps, AC utility pumps, farm pumps or consumer pumps

NPT Inlet	Spout Size	Wt (lbs)	Approx. Flow Rate at 20 PSI (GPM)	Part #	Price/E
1"	1-1/8"	3	20	DFN100	\$164.30

Farm and Consumer Nozzles



Features:

- Automatic fuel nozzle designed for use with small 12 volt and AC utility pumps as well as large farm and consumer pumps.
- Heavy duty, stronger and more secure hook makes it easy to hang the nozzle on the pump.
- *These nozzles are not to be used with gravity flow tanks.*
- black scuff guard on gasoline nozzle, green scuff guard on diesel nozzle
- Underwriter's Listed
- automatic shutoff

NPT Inlet	Spout Size	Wt (lbs)	Approx. Flow Rate at 20 PSI (GPM)	Part #	Price/E
3/4"	13/16"	2½	14	DN7UOBF¹	\$120.80
3/4"	15/16"	2½	14	DN7LOBF²	120.80

¹ gasoline nozzle
² diesel nozzle

Fuel Nozzle Cross Reference

Dixon	M. Carder	OPW	Emco	Husky	Catlow
DN7UOBF	N7UOBF	1AF-40FS	A2501F	XSF-33704	NENLF
DN7LOBF	N7LOBF	11APF-40FS	A2501LF	---	NELF
DFN100HF	N4-Fuelmaster	7H	A6000	V111-173310	MAX1
DFN100	N3-BigMouth	N/A	N/A	1HS.026810	MAC-1AH

R

Dixon High Flow Fuel Nozzle Fueler 100™ Nozzle

Application:

- for fueling trucks, buses, off-road equipment and fuel oil delivery

Features:

- *These nozzles are not to be used with gravity flow tanks.*
- machined grooves in the spout are designed to hold nozzle more securely in the fill pipe
- high flow, heavy duty automatic nozzle



NPT Inlet	Spout Size	Wt (lbs)	Approx. Flow Rate at 20 PSI (GPM)	Part #	Price/E
1½"	1-3/8"	6.9	50	DNOG6	\$744.45
	rebuilt Fueler 100™ nozzle			DNOG6RB	529.35 NEW

Dixon Diesel and Gasoline Nozzles Accessories

Single Plane Hose Swivels

Features:

- aluminum body
- brass hex nut prevents galling in the nozzle
- Viton® / Buna seals
- nylon cord retainer
- ¾" are Underwriter's Listed



Size	Part #	Price/E
¾" x ¾"	DAWS34	\$44.00
1" x 1"	DAWS10	67.60

Breakaways

Features:

- aluminum body
- brass break rings (2)
- Buna seals
- unique ball valves seal both ends when separated
- design provides consistent and reliable performance
- lightweight
- easy to repair
- ¾" are Underwriter's Listed



Size	Part #	Separation Force (Lbs)	Price/E
¾"	DAB34	325	\$65.95
1"	DAB1	325	139.00

Application:

- Provides breakaway protection for high capacity fueling operations such as truck and bus terminals, mining, off-road fueling and fuel oil delivery.

Features:

- nickel plated aluminum body
- brass break rings: 4 in 1¼" and 1½"; 6 in the 2"
- Viton® / Buna seals
- check valve - PTFE ball seals both ends when separated

Size	Part #	Separation Force (Lbs)	Price/E
1¼"	DAB14	600	\$884.00
1½"	DAB15	600	884.00
2"	DAB2	800	1796.40



R

Full Flow Ball Valves

Features:

- high flow rate, low pressure drop
- wetted parts are aluminum and stainless steel
- seals are FPM (Viton® and PTFE)
- spindle can be disassembled when ball valve is installed
- working pressure: **150 PSI** at 70°F
- available in 2", 3" and 4" in standard flow and two-way flow
- standard valve ports - female NPT, socket weld for Schedule 40 pipe and grooved
- optional ports include DN flange, butt weld and 150# flange
- two ports - one inlet and one outlet

One-Way Ball Valves / Female NPT Ends



Size	Aluminum	
	Part #	Price/E
2"	1WAYBV200	\$765.00
3"	1WAYBV300	1005.00
4"	1WAYBV400	1484.00

One-Way Ball Valves / Socket Weld Ends to Schedule 40 Pipe



Size	Bore	Aluminum	
		Part #	Price/E
2"	2.390"	1WAYBV200SW	\$816.50
3"	3.530"	1WAYBV300SW	1085.75

One-Way Ball Valves / Grooved Ends



Size	Aluminum	
	Part #	Price/E
2"	1WAYBV200VIC	\$1050.00
3"	1WAYBV300VIC	1557.75

Full Flow Ball Valves

Features:

- high flow rate; low pressure drop
- wetted parts are aluminum and stainless steel
- seals are FPM (Viton® and PTFE)
- spindle can be disassembled even when ball valve is installed
- working pressure: **150 PSI** at 70°F
- available in 2", 3" and 4" in standard flow and two-way flow
- standard valve ports - female NPT, socket weld for Schedule 40 pipe and grooved
- optional ports include DN flange, butt weld and 150# flange
- three ports - one inlet and two outlets, valve directs the flow from the inlet to either of the two outlets
- commonly used for switching compartments or tanks

Two-Way Ball Valves / Female NPT Ends

Size	Aluminum	
	Part #	Price/E
2"	2WAYBV200	\$1070.00
3"	2WAYBV300	1357.00
4"	2WAYBV400	2985.00



Two-Way Ball Valves / Socket Weld Ends to Schedule 40 Pipe

Size	Bore	Aluminum	
		Part #	Price/E
2"	2.390"	2WAYBV200SW	\$1140.00
3"	3.530"	2WAYBV300SW	1464.25



Two-Way Ball Valves / Grooved Ends

Size	Aluminum	
	Part #	Price/E
2"	2WAYBV200VIC3	\$1490.00
3"	2WAYBV300VIC3	2272.00



Automatic Pressure / Vacuum Relief Caps

Features:

- normally closed, stops fuel evaporation and airborne contaminants
- lockable
- relieves both pressure and vacuum buildup in fuel tanks
- two styles available, choose for stationary or mobile fuel storage tanks as listed below



Note: Pressure/vacuum relief caps should be routinely inspected to ensure correct operation and particularly to ensure that the relieving components are free to move and that the air flow path is unblocked.

For stationary fuel tanks



- relieves vacuum at .7 Hg (.33 PSI) and pressure at 2 PSI, 20 SCFM flow

Male NPT	Zinc	
	Part #	Price/E
2"	2000L	\$44.50
2½"	2500L	46.85

For mobile fuel tanks



- relieves vacuum relief at 1" Hg (.5 psig), and pressure at between 7.5 and 9 psig

Male NPT	Zinc	
	Part #	Price/E
2"	200-PV-9	\$96.95

Standard Vent Cap

Features:

- aluminum body
- allows venting of tank to atmosphere at all times
- does not have pressure or vacuum valves
- also referred to as a breather cap

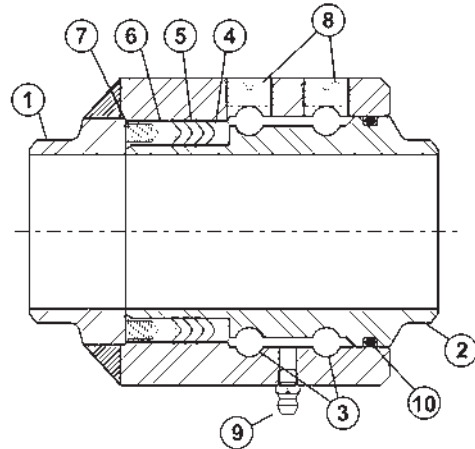


Male NPT	Aluminum	
	Part #	Price/E
2½"	2500SFV	\$41.90

V-Ring Swivel Joints

V-Ring Parts Identification List

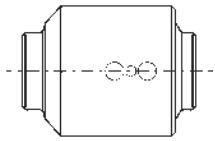
1. body
2. sleeve
3. ball bearings
4. seal retainer
5. V-ring (pressure) seal
6. spring retainer
7. spring
8. ball retainer screw
9. grease fitting
10. O-ring (dust) seal



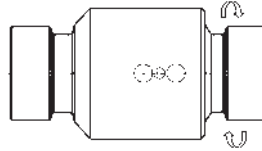
V-Ring Features:

- The spring-loaded triple V-ring sealing system ensures a leak proof seal at either high or low pressure and an extended seal life compared to the conventional single O-ring design.
- The 3" - 8" carbon steel swivels are manufactured from carbon steel with laser hardened dual raceways for greater load bearing capacity and longer life.
- The stainless steel swivels are manufactured in 316 grade stainless steel for superior corrosion resistance.
- available with pressure ratings to 1,000 PSI
- available in carbon steel, stainless steel and aluminum
- **100% full penetration welding available**

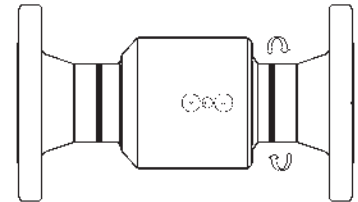
Single Plane V-Ring Style 20



weld end x weld end
sizes 2" - 8"

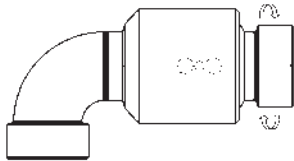


female NPT x female NPT
sizes 2" - 6"

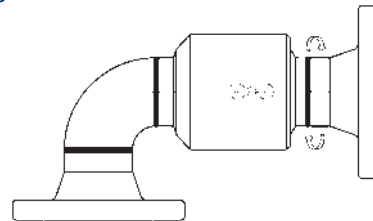


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Single Plane V-Ring Style 30

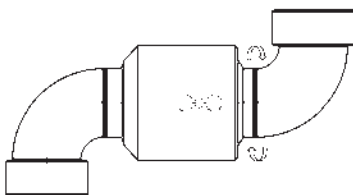


female NPT x female NPT
sizes 2" - 6"

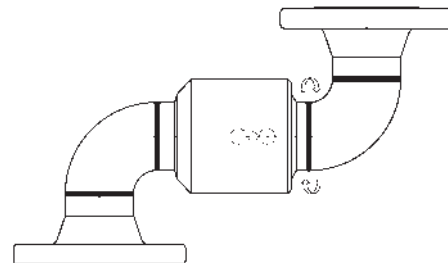


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Single Plane V-Ring Style 40

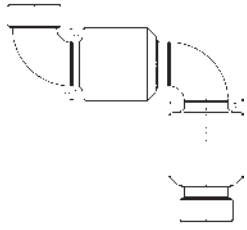


female NPT x female NPT
sizes 2" - 6"

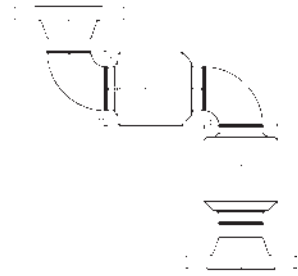


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Double Plane V-Ring Style 50

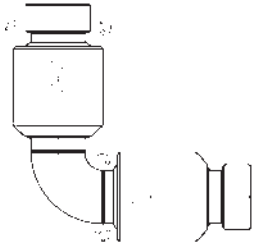


female NPT x female NPT
sizes 2" - 6"

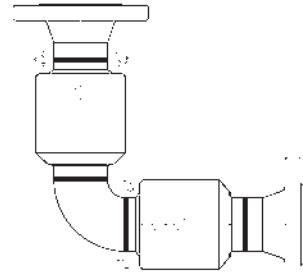


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Double Plane V-Ring Style 60

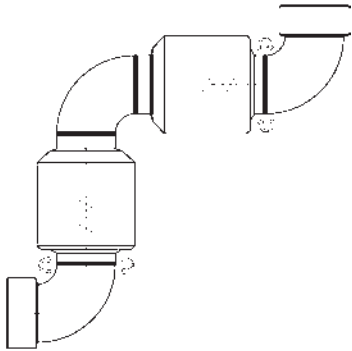


female NPT x female NPT
sizes 2" - 6"

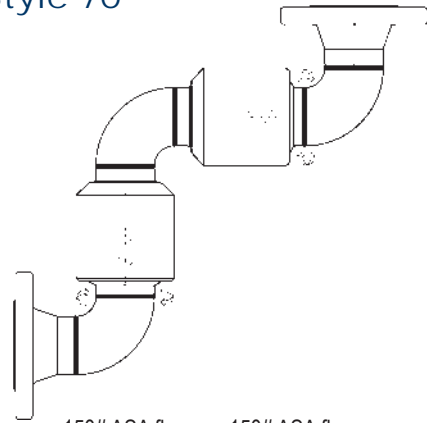


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Double Plane V-Ring Style 70

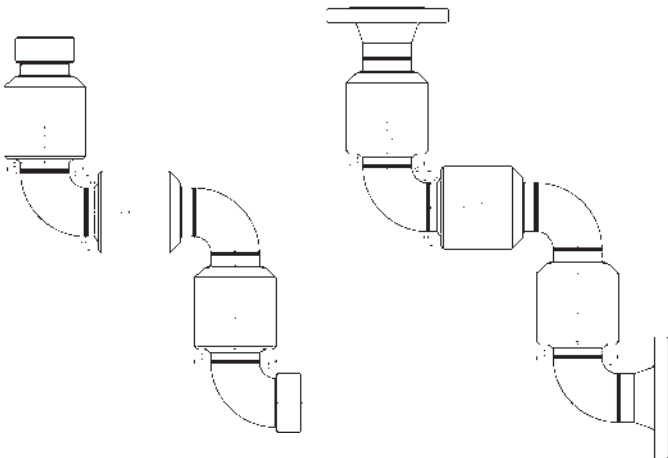


female NPT x female NPT
sizes 2" - 6"

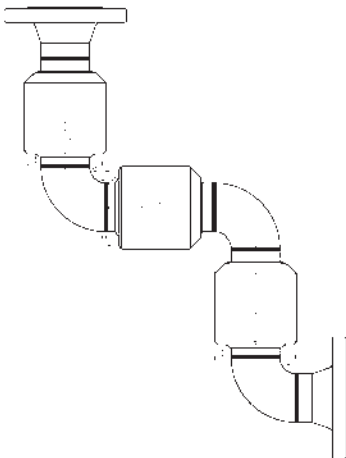


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Triple Plane V-Ring Style 80

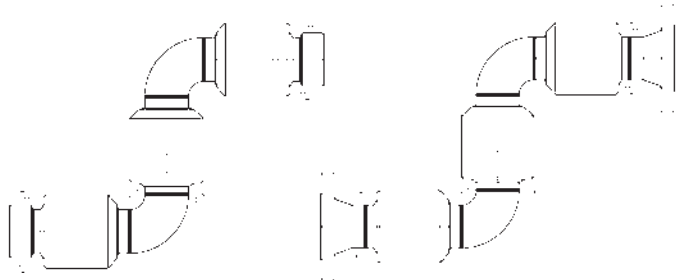


female NPT x female NPT
sizes 2" - 6"

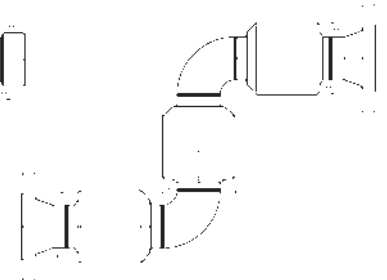


150# ASA flange x 150# ASA flange
sizes 2" - 8"

Triple Plane V-Ring Style 10



female NPT x female NPT
sizes 2" - 6"

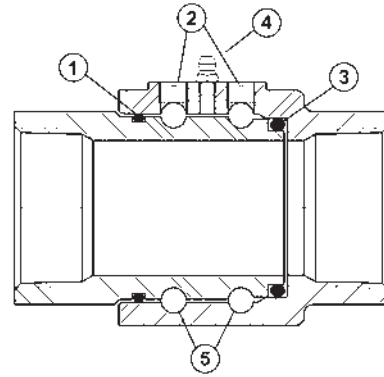


150# ASA flange x 150# ASA flange
sizes 2" - 8"

O-Ring Swivel Joints

O-Ring Parts Identification List

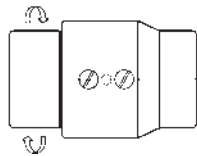
1. O-ring (dust) seal
2. ball retainer screw
3. O-ring (pressure) seal
4. grease fitting
5. ball bearings



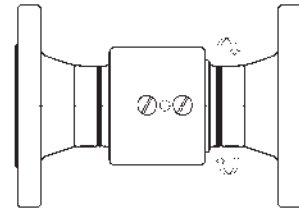
O-Ring Features:

- The O-ring pressure seal ensures a leak-proof seal at either high or low pressure and smoother rotation at lower torques than multiple seal designs.
- Spring-loaded PTFE pressure seals are available up through 3".
- Carbon steel and stainless steel O-ring type swivels provide greater strength and corrosion resistance needed for lower torque applications.
- available in carbon steel, stainless steel, aluminum, brass and iron
- **100% full penetration welding available**

Single Plane O-Ring Style 20

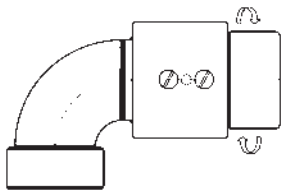


female NPT x female NPT
sizes 1" - 4"

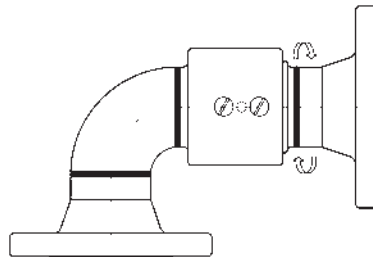


150# ASA flange x 150# ASA flange
sizes 1" - 4"

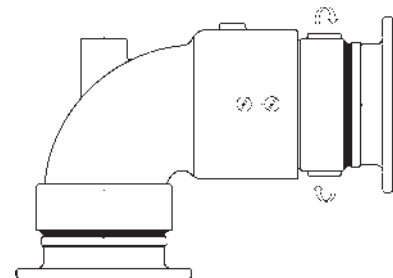
Single Plane O-Ring Style 30



female NPT x female NPT
sizes 1" - 4"

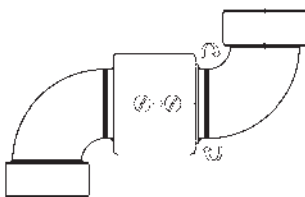


150# ASA flange x 150# ASA flange
sizes 1" - 4"

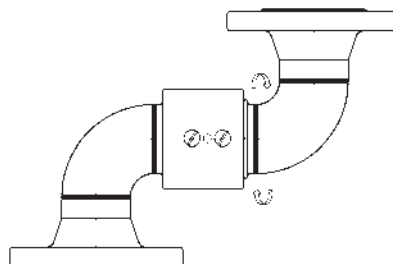


tank truck flange x tank truck flange
sizes 2" - 4"

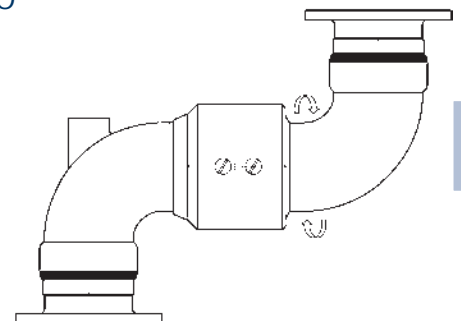
Single Plane O-Ring Style 40



female NPT x female NPT
sizes 1" - 4"

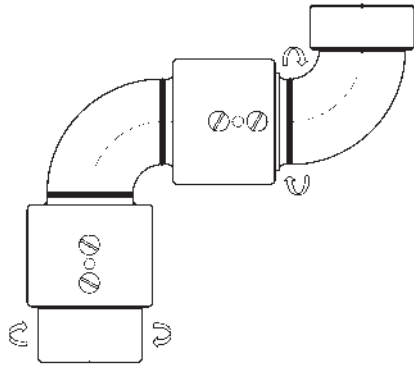


150# ASA flange x 150# ASA flange
sizes 1" - 4"

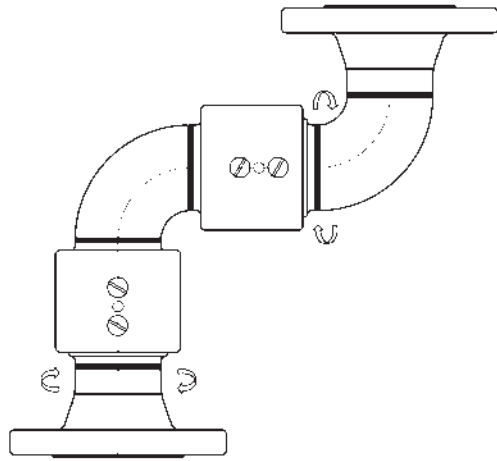


tank truck flange x tank truck flange
sizes 2" - 4"

Double Plane O-Ring Style 50

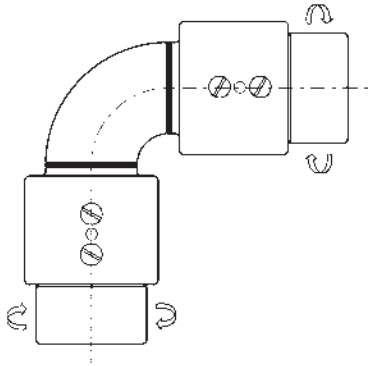


female NPT x female NPT
sizes 1" - 4"

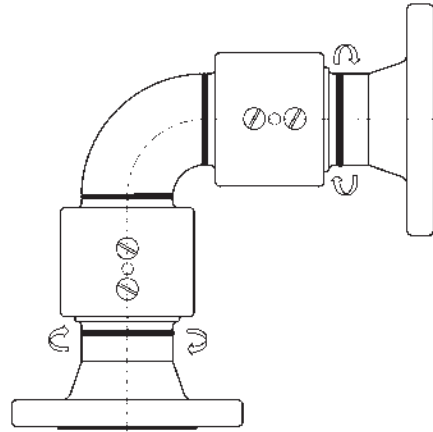


150# ASA flange x 150# ASA flange
sizes 1" - 4"

Double Plane O-Ring Style 60

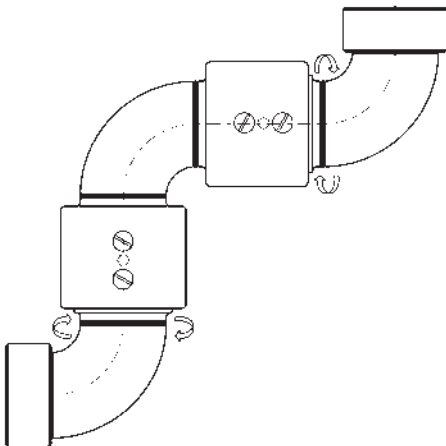


female NPT x female NPT
sizes 1" - 4"

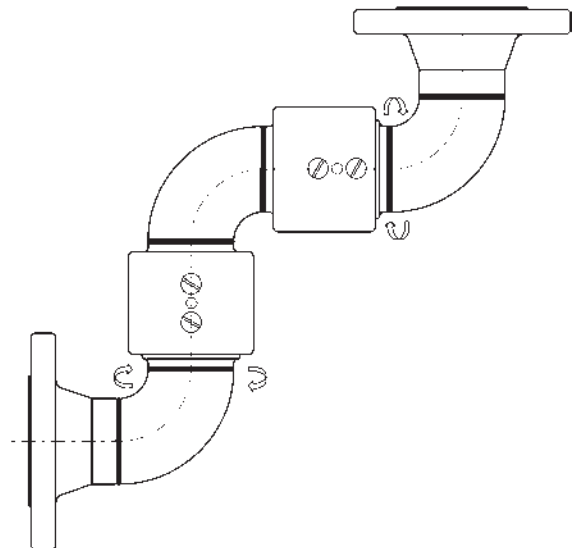


150# ASA flange x 150# ASA flange
sizes 1" - 4"

Triple Plane O-Ring Style 70



female NPT x female NPT
sizes 1" - 4"



150# ASA flange x 150# ASA flange
sizes 1" - 4"

Ordering Information - Swivels

To select the proper swivel joint you need the following information:

Size: _____ Style (shape): _____

End Configuration: _____ Material: _____

Maximum Working Pressure: _____ Temperature Range: _____

Product being handled: (if a chemical, please advise concentration) _____

If for constant rotation, advise RPM: _____

If for suction service, advise maximum vacuum in inches of Mercury (Hg): _____

Our factory sales and engineering staff will be happy to help you evaluate your swivel application. Please call 800.355.1991.

	<i>swivel size</i>	<i>swivel style</i>	<i>end configuration</i>		<i>end configuration</i>	<i>swivel material</i>	<i>pressure seal</i> (Buna-N standard)	<i>dust seal</i> (Buna-N standard)	<i>retainers</i> (V-Ring ONLY)	<i>ball bearings</i> (carbon steel standard)	<i>grease</i>
Example	<u>2</u>	<u>20</u>	<u>F</u>	X	<u>F</u>	<u>CS</u>	<u>0</u>	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>
	[A]	[B]	[C]		[C]	[D]	[E]	[F]	[G]	[H]	[I]

[A] Size

[B] Style (see diagrams)

[C] End Connections

W
Weld End

F
Female End

FG
150# ASA Flange

TF
Tank Truck Flange

PF
300# ASA flange
(not available on aluminum)

[D] Material

CS (V-Ring)
carbon steel

SS (V-Ring)
stainless steel

AL
aluminum

BR
brass

MI
malleable iron

OC (O-Ring)
carbon steel

OS (O-Ring)
stainless steel

Code #	[E] Pressure Seal	[F] Dust Seal	[G] Retainers	[H] Ball Bearings	[I] Grease
0	Buna-N (standard)	Buna-N (standard)	No retainers (O-ring swivels)	Carbon steel (standard)	Standard
1	Viton®	Viton®	Aluminum (standard in CS V-ring)	440 grade stainless	FDA approved/ Food grade
2	PTFE	---	PTFE (standard in SS V-ring)	316 grade stainless	Silicone (required with EPR seals)
3	Ethylene Propylene (requires silicone grease)	Ethylene Propylene (requires silicone grease)	---	---	---
4	FDA Buna (O-ring only)	FDA Buna	---	---	---

The swivel should be packed so that the surfaces coming in contact with the fluid being handled are compatible with that fluid. In the case of the use of the swivel in submerged service this would include the dust seals and ball bearings.

Dixon always recommends the use of stainless steel ball bearings when building a swivel for submerged service since the standard carbon steel bearings could rust together making it impossible to disassemble the swivel and possibly affecting its operation.

NEW
FOR 2013

Stainless Steel Static Grounding and Bonding Clamps

Features:

- FM and ATEX approved
- feature durable, sharp, hardened Tungsten Carbide pointed contacts to help make good metal to metal contact, multi-turn stainless steel torsion springs and cable strain relief.
- chemical and abrasion resistant retractable, spiral Hytrel® sheathed grounding and bonding cable

One VESX45 Stainless Clamp with Spiral Retractable Cable Attached Indoor Use



Working Length	Description	Stainless Steel Part #	Price/E
6'	10' Hytrel® sheathed spiral retracta cable with 1 VESX45 clamp	CAB10	\$300.00
12'	20' Hytrel® sheathed spiral retracta cable with 1 VESX45 clamp	CAB1010	355.00

Two VESX45 Stainless Clamps with Spiral Retractable Cable Attached Indoor Use



Working Length	Description	Stainless Steel Part #	Price/E
6'	10' Hytrel® sheathed spiral retracta cable with 2 VESX45 clamps	CAB10-2	\$530.00
12'	20' Hytrel® sheathed spiral retracta cable with 2 VESX45 clamps	CAB1010-2	590.00

One VESX90 Heavy Duty Stainless Clamp with Spiral Retractable Cable Attached Indoor / Outdoor Use



Working Length	Description	Stainless Steel Part #	Price/E
16'	28' Hytrel® sheathed spiral Cen-Stat retracta cable with 1 VESX90 clamp	VESC901U05	\$630.00

Cen-Stat Stainless Steel Static Grounding Clamps

Features:

- Provides a robust and long-life solution in harsh operating environments. The clamps are supplied in two sizes and are specified based on the operating environment and the size of the equipment to be grounded.

Medium Duty Clamps:

- recommended for use in processes using drums, containers, solvent safety cans and mixing vessels of 26 gallon capacity or less in situations where space does not permit the use of heavy duty clamps
- jaw opening diameter of 0.6"

Heavy Duty Clamps:

- recommended for grounding large equipment ranging from 26 gallon drums to 500 gallon IBCs, mixing vessels and mobile tanks
- jaw opening diameter of 1.57"



Description	Stainless Steel Part #	Price/E
medium duty stainless steel grounding and bond clamp	VESX45	\$245.00
heavy duty stainless steel static grounding clamp	VESX90	315.00

Bond-Rite® EZ

**NEW**
FOR 2013**Application:**

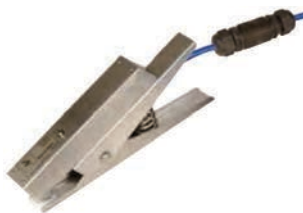
- Portable unit that bonds equipment engaged in liquid or powder transfers conducted in locations where installed grounding and bonding equipment is not provided.

Features:

- Highly visible LED built into clamp housing. Bright green LED will flash continuously when grounding circuit has a resistance of 10 ohms or less, informing operator that hazardous electrostatic charges do not have the potential to accumulate on the equipment.
- Battery provides up to 6 months of power for equipment grounded for up to an average of 6 hours per day.
- Quick connect provides personnel with the flexibility of removing the clamp from zoned / classified areas for battery replacement.
- Stainless steel clamps are designed to withstand tough chemical processing and industrial environments.
- Tungsten carbide tips bite through product deposits, paint and rust to ensure proper bonding connections are made.
- Option of heavy duty or medium duty 2 pole clamp on opposite end of cable.
- Two cable length options available, 18' and 28'

**Standards:**

- 10 ohms loop resistance monitoring is compliant with NFPA77 and international best practice standards.
- FM, ATEX, CSA International approved: Class I, Div 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, T4



Bond-Rite EZ clamp



EZ spiral cable



heavy duty clamp

Bond-Rite® EZ Spiral Cable Unit with VESX45-IP Clamp Attached**Application:**

- recommended for use in processes using drums, containers, solvent safety cans and mixing vessels of 26 gallon capacity or less in situations where space does not permit the use of heavy duty clamps

Feature:

- jaw opening diameter of 0.6"

Working Length	Description	Stainless Steel Part #	Price/E
10'	Bond-Rite EZ 18' cable with VESX45-IP clamp	BREZ03IPX45	\$2020.00
16'	Bond-Rite EZ 28' cable with VESX45-IP clamp	BREZ05IPX45	2130.00

Bond-Rite® EZ Spiral Cable Unit with VESX90-IP Clamp Attached**Application:**

- recommended for grounding large equipment ranging from 26 gallon drums to 500 gallon IBC's, mixing vessels and mobile tanks

Feature:

- jaw opening diameter of 1.57"

Working Length	Description	Stainless Steel Part #	Price/E
10'	Bond-Rite EZ 18' cable with VESX90-IP clamp	BREZ03IPX90	\$2275.00
16'	Bond-Rite EZ 28' cable with VESX90-IP clamp	BREZ05IPX90	2400.00

NEW FOR 2013 Earth-Rite® Plus Static Grounding System

Application:

- Provides positive verification of a static ground connection on a wide range of industrial plant equipment including railcars, drums, containers, tanker trucks and other conductive equipment. Whenever flammable liquids or powders are transferred, or wherever there is a risk of conductive plant items becoming isolated from earth within hazardous locations, effective grounding and bonding is necessary to ensure safe dissipation of static electricity to prevent fires and explosions which can be ignited by static.



pulsing LEDs confirm positive ground condition



Features:

- When connected to a drum or other conductive equipment, the intrinsically safe monitoring circuit verifies a low resistance connection and dissipation path to ground. Good connection is confirmed by pulsing LED indicators, releasing a pair of voltage free output contacts and enabling the transfer of product to start.
- IP 66 / NEMA 4X cast aluminum enclosure
- red/pulsing green indication LED's
- intrinsically safe monitoring to <10 ohms
- 2 interface relay contacts
- input power requirement 110/120 VAC or 220/240 VAC or 12/24 VDC
- VESX90-IP 2-pole heavy duty stainless grounding and monitoring clamp with spiral cable in-line-quick-connect fittings attached and tungsten carbide pointed contacts to help ease metal to metal contact
- easy to install, operate and maintain
- System includes:
 - full installation and operating manual
 - explosion proof controller with intrinsically safe monitoring module
 - universal grounding clamp with 32' of 2 conductor Hytrel™ protected cable
 - ground connection junction box with stowage pin for universal grounding clamp

Standards:

- USA and Canadian CSA certification: Associated Equipment [Exia] for use in Class I, Div 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; Class III, Div 1.

Description	Part #	Price/E
Earth-Rite® Plus II static grounding system	PLUSMUA1A3	\$7800.00

TTMA Flanged Breakaway Coupling

NEW
FOR 2013

Features:

- minimizes spillage and damage associated with drive away and pull away incidents
- installs between the API coupler and the loading arm
- coupling automatically senses excessive load, closes the valves and disconnects
- high flow rate / low pressure drop
- **230 PSI** at ambient temperature (70°F)
- Viton® is standard seal



Size	Aluminum	
	Part #	Price/E
4"	SBC400ALTTMA	\$5267.00

TTMA Series Flange Adapters

Features:

- provides a simple and easy way to quickly convert threaded components to a standard TTMA flange configuration
- more durable than welded fabrications due to the solid cast lightweight aluminum design
- design improves flow through adapter
- compact size reduces the overall space needed to install
- for flange drilling standards, see page 713

Male Threaded

TTMA flange x standard male NPT

TTMA Flange	Male NPT	Overall Length	Aluminum	
			Part #	Price/E
3"	3"	2½"	TTF3AL-3MT	\$84.95
4"	3"	2½"	TTF4AL-3MT	63.95
4"	4"	2½"	TTF4AL-4MT	59.30



Extended Length - Male Threaded

TTMA flange x extended length male NPT

TTMA Flange	Male NPT	Overall Length	Aluminum	
			Part #	Price/E
4"	3"	5½"	TTF4AL-3EMT	\$84.95
4"	4"	5½"	TTF4AL-4EMT	99.15



Female Threaded

TTMA flange x female NPT

TTMA Flange	Female NPT	Overall Length	Aluminum	
			Part #	Price/E
4"	3"	2½"	TTF4AL-3FT	\$76.05
4"	4"	2½"	TTF4AL-4FT	75.75



Slip-on

TTMA flange x socket weld

TTMA Flange	Pipe Size	Aluminum	
		Part #	Price/E
4"	4"	TTF400SP	\$67.00



Round Tank Truck Flange Gaskets (TTMA)

Size	OD	ID	THK	Material	Part #	Price/E
3"	5-5/8"	3-1/2"	1/8"	Cork / Buna	300GTTFCB	\$3.60
3"	5-5/8"	3-1/2"	1/16"	PTFE envelope with Klinger filler	300GTTFTK	16.00
3"	5-5/8"	3-1/2"	1/8"	Klingersil® C-4401	300GTTFK	9.75
3"	5-7/8"	3-1/2"	1/4"	PTFE with fiber core	40321TF	21.95
4"	6-5/8"	4-9/16"	1/8"	Cork / Buna	400GTTFCB	4.60
4"	6-5/8"	4-9/16"	1/16"	PTFE envelope with Klinger filler	400GTTFTK	21.60
4"	6-5/8"	4-9/16"	1/8"	Klingersil® C-4401	400GTTFK	18.25
4"	6-7/8"	4-9/16"	1/4"	PTFE with fiber core	40322TF	26.40



API Couplers

Features:

- completely modular, coupler can be built with various face seal combinations to be compatible with different alternative fuel / performance levels and applications
- 4" TTMA inlet mounting flange
- 5 cam design for easy alignment and tight connection



API coupler with bonded nose seal

Seal Material	Part #	Price/E
Buna	5300	\$2343.25
Viton-B®	5300B	2577.60
Viton® GFLT	5300G	2694.50

- ball-end handle for easy, comfortable operation
- no special tools needed for maintenance
- shaft seals can be changed without removing coupler from loading arm
- link, shaft, pin and crank: hardened 17-4PH stainless steel
- cam: stainless steel
- weight: 20 lbs.
- maximum working pressure: **150 PSI**
- peak surge pressure: 350 PSI
- operating temperature: **-20°F to 400°F** (Viton-B® seals)
- maximum flow rate: 600 GPM
- pressure drop: 3 to 4 PSI
- replacement parts are available, contact Dixon

API coupler with replaceable nose seal

Seal Material	Part #	Price/E
Buna	5400	\$2434.95
Viton-B®	5400B	2678.45
Viton® GFLT	5400G	2799.55

API Valves



5204NG



5204LNG

NEW

Application:

Used for bottom loading and unloading of petroleum tankers, typically mounted to the piping below each tank compartment using the built-in 4" TTMA flange connection.

Description	Part #	Price/E
load only API valve with sight glass, ALH nose ring	5204	\$596.05
load only API valve without sight glass, ALH nose ring	5204LNG	531.55
load/unload API valve, without sight glass, fixed handle, Baylast™ seal	5204NG	755.00

API Compatible Rack Cords



Features:

- highly visible safety orange jacket to meet trip hazard requirements
- cord is bonded mechanically and providing abrasion and oil resistance
- cord sets are interchangeable with Scully and Civacon
- plug body is machined from 6061 aluminum and is color coded Optic Blue or Thermistor Green
- button contacts are 316 stainless steel to prevent corrosion
- all other hardware is stainless steel
- all wiring is compatible with standard Scully color codes and wiring number configurations
- the 9 pin conductor is shielded to be compatible with Scully VIP system

Model FT600

API Thermistor Assemblies

Description	Part #	Price/E
plug with 30' coiled cable	FT600	\$1067.10
plug with 30' coiled cord for Canada	FT600C	1067.10
plug with 20' straight cable	FT600S	1015.45
plug with 20' straight cord for Canada	FT600SC	1015.45

replacement parts and accessories

Description	Part #	Price/E
replacement plug body	FT601	\$551.45
replacement plug body for Canada	FT601-10	551.45
replacement 30' coiled cable	FT602	450.05
plug hanger	FT603	320.85

Model FT620

API Optic Assemblies

Description	Part #	Price/E
plug with 30' coiled cable	FT620	\$1067.10
plug with 20' straight cable	FT620S	1015.45

replacement parts and accessories

Description	Part #	Price/E
replacement plug body	FT621	\$568.00
replacement 30' coiled cable	FT622	463.60
plug hanger	FT623	330.50

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Dixon Vapor Recovery Couplers

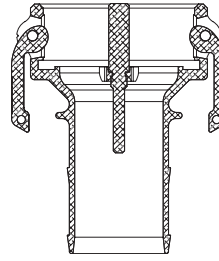
Features:

- Not intended for liquid service, for vapor recovery *only*.
- bronze arms with stainless steel pins
- plated carbon steel finger rings
- Buna-N gasket



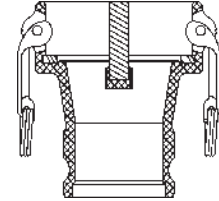
coupler with probe x hose shank

Coupler Size	Hose Shank Size	Aluminum	
		Part #	Price/E
4"	3"	4030-CVR-AL	\$129.10
4"	4"	400-CVR-AL	137.00



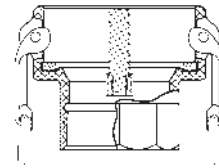
coupler with probe x adapter

Coupler Size	Adapter Size	Aluminum	
		Part #	Price/E
4"	3"	4030-DAVR-AL	\$139.50



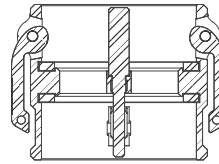
coupler with probe x female NPT

Coupler Size	Female NPT Size	Aluminum	
		Part #	Price/E
4"	3"	4030-DVR-AL	\$146.00
4"	4"	400-DVR-AL	152.00



coupler with probe x coupler with probe

Coupler Size	Coupler Size	Aluminum	
		Part #	Price/E
4"	4"	400-DDVR-AL	\$160.00



Dixon Bayco Vapor Recovery Couplers

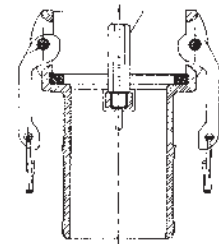
Features:

- Not intended for liquid service, for vapor recovery *only*.
- for use with 3" vapor hose
- cast aluminum body, bronze arms with stainless steel pins and finger rings
- Buna-N gasket
- The VR4030CS-AL has a Viton® O-ring poppet seal.



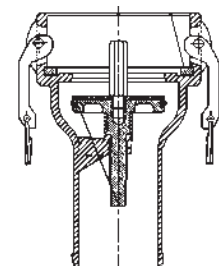
coupler with probe x hose shank

Coupler Size	Hose Shank Size	Aluminum	
		Part #	Price/E
3"	3"	VRC3000AL	\$139.85



coupler with poppet and probe x hose shank

Coupler Size	Hose Shank Size	Aluminum	
		Part #	Price/E
4"	3"	VR4030CS-AL¹	\$207.00



¹ The VR4030CS-AL will interchange with all competitor vapor valves *except* Civacon #633LVH (special bulb design).



TTMA Flange Extensions



TETF4AL



TETFG4AL

Application:

- Used on load arms to connect the API load coupler to the load arm, provides a specified parting point to prevent excessive damage to the loading arm.

Feature:

- adds a 6" space between the load arm and the tank truck

Size	Description	Aluminum	
		Part #	Price/E
4"	TTMA flange extension	TETF4AL	\$127.00
4"	TTMA flange extension with groove	TETFG4AL	132.00

Type 35 Loading Arm Swivel



style 40



style 30

Features:

- TTMA loading arm swivel with D style shovel handle
- TTMA flanges on both ends
- shovel handle is used to guide the API load coupler onto the adapter on the tank truck
- long radius elbow improves the flow into the API load coupler and provides spacing between the load arm and the tank truck
- can be used with flange extensions above

Size	Description	Aluminum	
		Part #	Price/E
4"	style 40 tank truck x Buna tank truck flange	44HTFXTFAL00000	\$1400.00
4"	style 40 tank truck x Viton® tank truck flange	44HTFXTFAL11000	1400.00
4"	style 30 tank truck x Buna tank truck flange	43HTFXTFAL00000	1200.00
4"	style 30 tank truck x Viton® tank truck flange	43HTFXTFAL11000	1200.00

Type 35 Loading Arm Swivel Replacement Parts

Size	Description	Part #	Price/E
4"	aluminum nipple	ATN100x7	\$20.00
---	D style shovel handle	100DHAN-AL	32.00
---	Buna repair kit	4RKOBU	38.90
---	Viton® repair kit	4RKOVIVI	60.65

Sealants Megaboost Grease Gun

Features:

- threaded barrel eliminates cross threading, reload twice as fast
- clears clogged fittings in seconds
- volume mode - 20% more grease per stroke
- automatic bleeder valve makes this gun easy to prime
- grip allows for ergonomic one or two handed operation
- 3-way loading: filler nipple, cartridge, bulk
- combination filler nipple/air bleeder valve



Part #	Price/E
L1185L	\$334.80

Thread Sealant Paste

Feature:

- temperature range: **-300°F to 500°F**

Can Size	Part #	Price/E	Opt Qty
¼ pint	LCTS14	\$14.75	12
½ pint	LCTS1	21.55	24
1 pint	LCTS2	33.75	12
1 quart	LCTS3	60.35	12



Industrial PTFE Tape (White)

Features:

- thickness: 3.5 mil (0.0035 mm)
- temperature range: **-212°F to 500°F**

Size	Length	Part #	Price/E	Opt Qty
½"	260"	TTA50	\$0.90	500
½"	520"	TTB50	1.75	500
½"	1296"	TTC50	4.50	500
¾"	260"	TTA75	1.45	350
¾"	520"	TTB75	2.25	350
1"	520"	TTB100	2.85	250



Stainless Steel PTFE Tape (Gray)

Features:

- thickness: 4 mil
- temperature range: **-58°F to 600°F**
- useful on stainless steel threaded joints or connections
- PTFE with nickel added
- nickel acts like a ball bearing

Size	Length	Part #	Price/E	Opt Qty
½"	260"	TTA50SS	\$15.70	10



Industrial Heavy Duty PTFE Tape (Pink)

Features:

- thickness: 4 mil
- temperature range: **-400°F to 500°F**

Size	Length	Part #	Price/E	Opt Qty
½"	540"	TTBP50	\$7.50	330



PTFE Tape for LP Gas (Yellow)

Features:

- thickness: 4 mil
- service temperature: **500°F (260°C)**
- Underwriters Listed

Size	Length	Part #	Price/E	Opt Qty
½"	260"	TTA50LP	\$4.95	500



Joint Sealant Gasket Material



Features:

- GORE-TEX® interchangeable
- Form-In-Place expanded PTFE gasket material with adhesive backing
- manufactured from 100% virgin PTFE
- unaffected by all common chemicals (pH from 0-14)
- unlimited shelf life
- resilient with low cold flow
- requires less force than standard gasket materials
- pressure range from vacuum to 3000 PSI
- temperature range: **-450°F to 600°F**
- made in the USA
- larger spools are available, consult factory for price and availability
- FDA compliant #21CFR177.1550

Size	Length	Part #	Price/E
1/4"	20'	LCJS4-20	\$69.45
1/4"	50'	LCJS4-50	159.55
3/8"	25'	LCJS6-25	127.50
1/2"	15'	LCJS8-15	127.50
3/4"	15'	LCJS12-15	291.85

Leak Detector



Features:

- detects leaks by forming bubbles which remain for up to ten minutes
- will not cause corrosion or deterioration
- color: fluorescent yellow
- non-toxic, non-freezing
- temperature range: **-7°F (-20°C) to 180°F (82°C)**
- meets Federal specification MIL-L-25567-C

Size	Part #	Price/E	Case Qty
8 oz.	LCLD	\$11.90	24

Dixon Coupling Lubricant



DCL20

DCL80

Application:

- For use in assembly operations involving natural or synthetic rubber or plastic. Also an excellent lubricant when rubber or plastic needs to be cut, machined, pressed, turned, trimmed or ground.

Feature:


- biodegradable lubricant for coupling shanks

Size	Part #	Price/E
1 liter	DCL20	\$35.70
4 liters	DCL80	91.25

WD-40 Smart Straw



Features:

- permanently attached straw
- flip up for a precision spray; flip down for regular spray action
- sold in case quantities only
- should not be used as a lubricant for coupling shanks 

Size	Part #	Price/E	Case Qty
11 oz.	WD40	\$20.25	12

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Coupling Inserter for Large Hose

Features:

- portable
- inserts 4", 5", 6", 8", 10" and 12" couplings
- includes CI96AH pump (shown below)
- coupling inserter pusher plates (not shown) must be purchased separately

Part #	Price/E
CI9	\$5335.00

Hose ID	Part #	Price/E
4" - 5"	45CIPUSH	\$300.00
6" - 8"	68CIPUSH	380.00
10" - 12"	1012CIPUSH	530.25



Coupling Inserters

Application:

- for insertion of hose shanks into hose with a 2¾" to 7¼" OD

Description	Part #	Price/E
Supplied with a 10,000 PSI hand pump and 5 ton ram	CI96	\$6165.00
Supplied with a 10,000 PSI air/hydraulic pump and 5 ton ram	CI96AH	7310.00
Small jaws for 1" to 3" OD hose	CI9311SML	185.00



CI96AH



CI96

Hand Hydrotest Pump

Application:

- designed for use in testing pipe lines, pressure tanks and pressure vessels

Features:

- stainless steel piston, aluminum body
- uses efficient and long lasting check valves
- cylinder displacement: 1.37 cubic inches
- 0-1000 PSI pressure gauge, 10' pressure hose and quick disconnect coupler included
- piston: 7/8" with 2" stroke

Inlet NPT	Outlet NPT	Working Pressure PSI	Part #	Price/E
½"	½"	1000	HHTP	\$1946.00



Hung Up On Dixon Hose Racks

Application:

- can be used for fire or water hose

Features:

- aluminum rack can be easily mounted
- single and double racks have 5 pre-drilled 5/16" mounting holes
- two racks can be bolted face to face to create extra hose capacity
- single rack overall dimensions 19-1/2" x 6" x 9-3/16"
- double rack overall dimensions 19-1/2" x 12" x 9-3/16"

Description	Weight (lbs.)	Part #	Price/E
single hose rack	3.5	DHR1	\$218.00
double hose rack	9.5	DHR2	452.00



DHR1
single hose rack



DHR2
double hose rack
(hose not included)



Hydrostatic Test Pumps

A safe, cost effective pump to test hose before putting it into service.

Electric



Features:

- 1.3 GPM fill rate
- test pressure: **200 to 2000 PSI**
- suction strainer keeps dirt out of pump
- high pressure test gauge
- 115v motor
- 2 ft. power cord
- easy to use, portable

Pneumatic



Features:

- 5.5 GPM fill rate
- test pressure: **0 to 1500 PSI**
- stainless interior
- air gauge for quick, easy adjustment of maximum test pressure
- high pressure test gauge
- filter/regulator for clean, dry air to ensure long life of unit
- on - off valve for air input
- 15 ft. of hose included
- easy to use, portable
- Use of coalescing filter and water filter recommended for prolonged life.

Description	Part #	Price/E
electric test pump	ETP	\$4600.00

Description	Part #	Price/E
pneumatic test pump	PTP	\$6070.00

Hydrostatic Test Pump Accessories

Features:

- cost effective, pre-assembled caps or plugs to allow quick set up for testing hoses
- Caps and plugs come equipped with ½" brass straight-through plugs for quick attachment to the intermediate hose on the test pump (Pneumatic Test Pump) and bleed-off valve.

cam & groove test caps for male adapters

Size	Iron	
	Part #	Price/E
1"	ID100TC	\$160.00
1½"	ID150TC	250.00
2"	ID200TC	196.50
3"	ID300TC	335.00
4"	ID400TC	520.00

cam & groove test plugs for female couplers

Size	Iron	
	Part #	Price/E
1"	IA100TP	\$140.00
1½"	IA150TP	175.00
2"	IA200TP	160.00
3"	IA300TP	350.00
4"	IA400TP	380.00

female NPT test caps

Size	Iron	
	Part #	Price/E
1"	NPT100TC	\$129.40
1½"	NPT150TC	170.00
2"	NPT200TC	200.00
3"	NPT300TC	350.00
4"	NPT400TC	400.00

male NPT test plugs

Size	Iron	
	Part #	Price/E
1"	100TP	\$205.00
1½"	150TP	220.00
2"	200TP	200.00
3"	300TP	300.25
4"	400TP	405.00

bleed-off valve

Description	Part #	Price/E
for pneumatic test pump	IBV50BOV	\$89.80

FRL Attachment Accessories

Description	Part #	Price/E
3/8" Wilkerson modular coalescing filter (automatic drain)	M16-03A	\$282.00
3/8" Wilkerson modular coalescing filter (manual drain)	M16-03M	225.20
modular sleeve needed to connect M16-03A or M16-03M	GPA-95-292	17.00

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Spill Kits

Features:

- easily stored behind a seat or in a storage compartment allowing drivers to act quickly when responding to a spill
- Poly-zip bag and bucket kits feature:
 - 10 pads (15" x 19")
 - 3 socks (3" x 4')
 - 2 disposal bags with ties
 - 1 pair Nitrile gloves

Part #	Description	Price/E
DSK5-O	oil only, in 6½ gallon pail	\$122.10
DSK5-U	universal, in 6½ gallon pail	118.40
DSKB-O	oil only, in clear poly bag with zipper	85.10
DSKB-U	universal, in clear poly bag with zipper	80.15



universal spill kit



oil spill kit

Heavy-Duty Lava Hand Cleaner

Features:

- heavy duty hand cleaner with pumice
- 7.5 fl oz pump bottle
- sold in case quantity only

Part #	Case Qty	Price/E
LAVA221	12	\$11.50



Marking Pens

Features:

- marks on wood, glass, paper, metal, and many other surfaces
- permanent mark
- unique valve action prevents tip drying

Color	Part #	Price/E
black	BK91	\$14.40
white	WT91	14.40
yellow	YW91	14.40



Dixon Soft Hose Mallet

Features:

- soft mallet for pounding metal objects without damaging them
- The head material will not crack and is firmly attached to strong shaft-handle.
- length: 23"
- weight: 10 lbs.

Part #	Price/E
DCM1	\$350.00



Dixon Hose Knife

Features:

- for fast cutting of rubber hose and belting
- guard protects hand while cutting

Part #	Price/E
DRK15	\$24.35



Diameter Tape

Features:

- 6' tape for quickly finding the outside diameter of any cylindrical object
- converts circumference to OD at the measured point
- ABS case

Part #	Price/E
DDT1	\$17.50



Stretch Straps

Features:

- durable tie down straps
- made of EPDM
- length does not include S-hooks
- S-hooks are steel



Length	Part #	Price/E
10"	SSE10	\$3.00
15"	SSE15	3.80
21"	SSE21	4.40
31"	SSE31	5.20
41"	SSE41	6.25



WARNING!! Failure to comply with this warning may result in serious damage and/or personal injury. Maximum end to end safe stretch = 150% of length

- do not exceed maximum safe stretch
- inspect before each use, do not use if strap is cut, cracked or abraded
- inspect hooks for damage and/or wear. Replace if needed.
- protect strap from sharp edges or heat.
- wear eye protection during use
- do not use this product as the primary tie down
- refer to federal or state regulations for proper tie down methods

Safety Tag

Features:

- Dixon strongly recommends the use of a safety tag or warning label on all hose assemblies.
- sold in quantities of 100 only



Size	Part #	Price/E
5" x 2-3/8"	DWL100	\$0.40



- WARNING!!**
- worn-out hose fittings should be replaced
 - loose clamps on hose can be dangerous
 - bolt type clamps should be retensioned regularly
 - for extra safety, retaining devices such as clips, chains or cables must be used

Safety Tape

Features:

- Dixon strongly recommends the use of a safety tag or warning label on all hose assemblies.
- length of tape - 55 yards, approximately 255 warnings



Size	Part #	Price/E
1 1/2"	DSTW	\$20.70



- WARNING!!**
- worn-out hose fittings should be replaced
 - loose clamps on hose can be dangerous
 - bolt type clamps should be retensioned regularly
 - for extra safety, retaining devices such as clips, chains or cables must be used

Weatherproof First Aid Kit

Features:

- polypropylene case
- kit supports 25 persons
- each kits includes: adhesive strips, large wound pads, eye pads, triangular bandage, first aid / burn cream, eye flush, elastic bandages, scissors, forceps, first aid instructions, gauze pads, adhesive tape, antiseptic towelettes, aspirin, cold pack, latex exam gloves
- 10 person and 50 person kits are also available, consult the factory for price and availability



Weight	Part #	Price/E
1.8 lbs.	FAK25P	\$72.75

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Spiral Hose and Cable Protection

Application:

- Used in mining, quarrying, forestry, offshore industries and most hydraulic hose applications.

Features:

- crush and high abrasion resistance
- chemical and UV ray resistant
- self-lubricating to reduce hose wear
- easy to install on-site
- smooth radius on all edges
- can be used on single or multiple hose bundles
- spiral guard ID is equal to the guard at rest
- sold in coil lengths only



Standard



Flame Retardant

Flame Retardant Product

Features:

- approved by MSHA 1C-231/1
- flame retardant and self extinguishing
- temperature range: **-148°F to 212°F**, (-100°C to 100°C)

Nominal ID	Coil Length	OD Range (inches)	Part #	Price/E
1/2"	66'	1/2" to 5/8"	FRSGX16	\$206.55
5/8"	66'	5/8" to 7/8"	FRSGX20	274.85
3/4"	66'	7/8" to 1-1/16"	FRSGX25	360.25
15/16"	66'	1-1/16" to 1-1/4"	FRSGX32	659.95
1-1/4"	66'	1-1/4" to 1-5/8"	FRSGX40	832.30
1-1/2"	66'	1-5/8" to 2-1/8"	FRSGX50	1184.75
1-15/16"	66'	2" to 2-1/2"	FRSGX63	1509.25
2-3/8"	66'	2-1/2" to 3-1/4"	FRSGX75	1871.05
2-5/8"	66'	3" to 6"	FRSGX90	2127.25
3-3/16"	33'	6" plus	FRSGX110	1415.35

Standard Product

Features:

- not flame retardant
- temperature range: **-58°F to 194°F**, (-50°C to 90°C)

Nominal ID	Coil Length	OD Range (inches)	Part #	Price/E
1/2"	66'	1/2" to 5/8"	NFSGX16	\$102.50
5/8"	66'	5/8" to 7/8"	NFSGX20	142.90
3/4"	66'	7/8" to 1-1/16"	NFSGX25	197.20
15/16"	66'	1-1/16" to 1-1/4"	NFSGX32	282.60
1-1/4"	66'	1-1/4" to 1-5/8"	NFSGX40	419.25
1-1/2"	66'	1-5/8" to 2-1/8"	NFSGX50	549.70
1-15/16"	66'	2" to 2-1/2"	NFSGX63	754.65
2-3/8"	66'	2-1/2" to 3-1/4"	NFSGX75	1080.70
2-5/8"	66'	3" to 6"	NFSGX90	1397.50
3-3/16"	33'	6" plus	NFSGX110	832.30

Fire Jacket for Hose

Application:

- Used to protect hose and hose assemblies, tubing, piping, wiring and cables from high temperatures or molten splash. Helps maintain line temperature and reduce environmental overheating and overcooling.

Features:

- Sleeving slides easily over hose and expands to go over fittings.
- resistant to hydraulic fluids and lubricating oil
- color is iron oxide red
- compounded silicone rubber coating over fiberglass
- completely non-asbestos
- supplied in 50' lengths
- temperature range: **-65°F to 500°F** (-54°C to 260°C)

Nominal ID	Part #	Price/E	Nominal ID	Part #	Price/E
1/4"	0610-4	\$185.40	1 1/4"	3210-20	\$475.20
3/8"	1010-6	220.25	1 1/2"	3810-24	539.00
1/2"	1310-8	243.50	1 3/4"	4510-28	660.50
5/8"	1610-10	278.10	2"	5110-32	776.25
3/4"	1910-12	310.00	2 1/2"	6410-40	959.50
7/8"	2210-14	371.00	3"	7610-48	1393.60
1"	2510-16	394.00	4"	10210-64	1718.20



Fire Jacket Tape

Application:

- used to seal the ends of fire jackets to prevent fraying.

Features:

- completely non-asbestos
- color is iron oxide red
- temperature range: **-45°F to 380°F** (-45°C to 200°C)

Size	Length	Silicone Rubber Part #	Price/E
1"	12 yards	FTH100	\$52.50



Non Adhesive Fire Tape

Features:

- fiberglass coated silicone rubber
- fluid resistant to hydraulic fluids and lubricating oils
- should be installed in a spiral wrap utilizing 30% to 50% overlap
- color is iron oxide red
- temperature range: **-65°F to 500°F**

Size	Length	Part #	Price/E
3" width	50'	4055-3	\$660.50



Fiberglass Sleeving

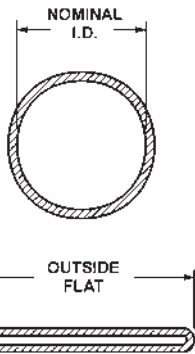
Features:

- Braided texturized fiberglass tubing provides thermal insulation protection in applications with service temperatures up to **1000°F**.
- supplied in a continuous length of 100'
- 1/16" wall thickness is braided from texturized E-glass filament yarns. The untreated tubing is flexible and expands to cover changing diameters.



Nominal ID	Part #	Price/E	Nominal ID	Part #	Price/E
1/4"	LW04200	\$81.25	1-1/4"	LW20200	\$220.25
3/8"	LW06200	81.25	1-1/2"	LW24200	318.70
1/2"	LW08200	127.50	2"	LW32200	371.00
5/8"	LW10200	133.25	2-1/2"	LW40200	399.75
3/4"	LW12200	139.00	3"	LW48200	434.60
7/8"	LW14200	156.40	3-1/2"	LW56200	521.50
1"	LW16200	214.50	4"	LW64200	539.00

Nylon Protective Sleeves - MSHA Accepted



Features:

- Woven nylon tubular sleeving, ideal for use as a protective covering on hydraulic and industrial hose.
- Tight weave of the seamless tubular sleeving helps dispense the flow of fluid in a ruptured hose.
- MSHA accepted, withstands temperatures up to **275°F (135°C)** and fully passes flammability tests.

Nominal ID	Outside Flat	100' rolls		300' rolls	
		Part #	Price/E	Part #	Price/E
0.90"	1.50"	DHS90-100	\$142.35	DHS90-300	\$388.20
1.00"	1.66"	DHS100-100	152.90	DHS100-300	417.00
1.13"	1.88"	DHS106-100	164.10	DHS106-300	447.40
1.25"	2.13"	DHS122-100	186.95	DHS122-300	509.85
1.46"	2.25"	DHS138-100	212.95	DHS138-300	580.70
1.42"	2.50"	DHS142-100	218.35	DHS142-300	595.45
1.58"	2.75"	DHS159-1-100	226.10	DHS159-1-300	616.55
1.78"	2.88"	DHS175-100	248.25	DHS175-300	677.00
1.91"	3.00"	DHS181-100	262.00	DHS181-300	714.50
2.18"	3.63"	DHS219-100	330.60	DHS219-300	901.70
2.38"	3.88"	DHS238-100	392.55	DHS238-300	1070.45
2.65"	4.25"	DHS263-100	418.55	DHS263-300	1141.50
2.86"	4.75"	DHS288-100	461.15	DHS288-300	1257.65
3.65"	5.88"	DHS366-100	550.05	DHS366-300	1500.00

Spring Guard



with tang



without tang

Features:

- Protects hose against the effects of flexing at its most vulnerable point - immediately behind the coupling.
- End tang allows end guard to be secured under a clamp or ferrule.
- Wire fits most hose OD's from 1/2" to 3/4", contact the factory for custom sizes or lengths.

Guard ID	Wire Gauge	Overall Length	Tang Length	Approx. # of Coils	Galvanized Steel with Tang		304 Stainless Steel with Tang		Galvanized Steel without Tang		304 Stainless Steel without Tang	
					Part #	Price/E	Part #	Price/E	Part #	Price/E	Part #	Price/E
3/4"	0.175	12"	1"	33	SEGC1-0.75-12	\$14.00	SEGS1-0.75-12	\$18.00	SEGC0-0.75-12	\$10.00	SEGS0-0.75-12	\$17.00
1"	0.175	12"	1"	33	SEGC1-1.00-12	16.00	SEGS1-1.00-12	24.00	SEGC0-1.00-12	12.00	SEGS0-1.00-12	20.00
1 1/4"	0.175	14"	2"	39	SEGC1-1.25-14	17.00	SEGS1-1.25-14	26.00	SEGC0-1.25-14	13.00	SEGS0-1.25-14	21.00
1 1/2"	0.175	14"	2"	39	SEGC1-1.50-14	18.00	SEGS1-1.50-14	27.00	SEGC0-1.50-14	14.00	SEGS0-1.50-14	23.00
1 3/4"	0.175	16"	2"	44	SEGC1-1.75-16	21.00	SEGS1-1.75-16	31.00	SEGC0-1.75-16	18.00	SEGS0-1.75-16	27.00
2"	0.280	16"	2"	44	SEGC1-2.00-16	24.00	SEGS1-2.00-16	32.00	SEGC0-2.00-16	21.00	SEGS0-2.00-16	28.00
2 1/2"	0.280	18"	2"	50	SEGC1-2.50-18	25.00	SEGS1-2.50-18	40.00	SEGC0-2.50-18	22.00	SEGS0-2.50-18	36.00
3"	0.280	18"	2"	50	SEGC1-3.00-18	30.00	SEGS1-3.00-18	42.00	SEGC0-3.00-18	27.00	SEGS0-3.00-18	38.00

Continuous Spring Guard

NEW FOR 2013

Features:

- protects hose from external abrasion and help resist over flexing
- half round wire fits tight to hose reducing the potential for snagging
- contact the factory for custom lengths or sizes



Guard ID	Wire Gauge	Overall Length	Approx. # of Coils	Galvanized Steel		304 Stainless Steel	
				Part #	Price/E	Part #	Price/E
3/4"	0.175	25'	33	CWG-C-0.75-25	\$98.00	CWG-S-0.75-25	\$380.25
1"	0.175	25'	33	CWG-C-1.00-25	168.25	CWG-S-1.00-25	433.25
1 1/4"	0.175	25'	33	CWG-C-1.25-25	168.25	CWG-S-1.25-25	433.25
1 1/2"	0.175	25'	33	CWG-C-1.50-25	230.50	CWG-S-1.50-25	526.00
1 3/4"	0.175	25'	33	CWG-C-1.75-25	230.50	CWG-S-1.75-25	526.00
2"	0.280	25'	33	CWG-C-2.00-25	327.25	CWG-S-2.00-25	628.00
2 1/2"	0.280	25'	33	CWG-C-2.50-25	420.00	CWG-S-2.50-25	720.75
3"	0.280	25'	33	CWG-C-3.00-25	522.00	CWG-S-3.00-25	804.25

T

Nominal

Application:

Suitable for conveying chemicals, foods, pharmaceuticals, oils, gas, fuels and steam.

Features:

- nominal standard smooth bore PTFE hose meets SAE100R14
- size range: dash-3 to dash-20
- operating temperature: **-76°F to 500°F** (-60°C to 260°C)
- 304 stainless braided
- Extruded or heat shrink coverings are available upon request.
- boxed coils (bulk, per ft. lengths and full reels available from Maryland and Texas call Dixon Specialty Products at 888.226.4673)**

Nominal Smooth Bore PTFE Hose (*fittings not included*)

Nominal Size	Average ID	Length in Feet	Dash Size	White, non-conductive tube		Black, conductive tube	
				Part #	Price/E	Part #	Price/E
3/16"	.125"	100	dash-3	WSB-03-100	\$610.00	BSB-03-100	\$790.00
1/4"	.187"	100	dash-4	WSB-04-100	640.00	BSB-04-100	705.00
5/16"	.250"	100	dash-5	WSB-05-100	635.00	BSB-05-100	695.00
3/8"	.312"	100	dash-6	WSB-06-100	825.00	BSB-06-100	905.00
3/8T"	.375"	100	dash-6T	WSB-06T-100	1065.00	BSB-06T-100	1175.00
1/2"	.405"	100	dash-8	WSB-08-100	950.00	BSB-08-100	1045.00
5/8"	.500"	100	dash-10	WSB-10-100	1250.00	BSB-10-100	1375.00
3/4"	.625"	100	dash-12	WSB-12-100	1405.00	BSB-12-100	1545.00
3/4T"	.750"	50	dash-12T	WSB-12T-50	1082.50	BSB-12T-50	1192.50
1"	.875"	50	dash-16	WSB-16-50	1186.00	BSB-16-50	1305.00
1T"	1.000"	50	dash-16T	WSB-16T-50	1640.00	BSB-16T-50	1807.50
1-1/4"	1.125"	50	dash-20Z	WSB-20Z-50 ¹	POR	BSB-20Z-50 ¹	POR

¹ double braided

Nominal Fittings

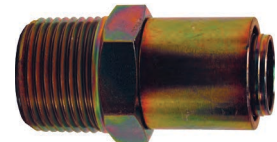
Crimp Collars for all Nominal fittings are included

Female JIC Swivel

Hose Size	Thread Size	Carbon Steel		304 Stainless Steel		Brass		Box Qty
		Part #	Price/E	Part #	Price/E	Part #	Price/E	
dash 4	1/4"	FJC-04-04	\$7.90	FJS-04-04	\$21.15	FJB-04-04	\$6.20	25
dash 5	5/16"	FJC-05-05	13.45	FJS-05-05	23.45	FJB-05-05	9.60	25
dash 6	3/8"	FJC-06-06	15.00	FJS-06-06	27.15	FJB-06-06	10.65	25
dash 8	1/2"	FJC-08-08	15.10	FJS-08-08	37.60	FJB-08-08	12.15	25
dash 10	5/8"	FJC-10-10	17.55	FJS-10-10	49.75	FJB-10-10	17.70	25
dash 12	3/4"	FJC-12-12	22.85	FJS-12-12	71.30	FJB-12-12	32.30	10
dash 16	1"	FJC-16-16	36.80	FJS-16-16	123.50	FJB-16-16	43.60	10
dash 20Z	1 1/4"	FJC-20Z-20	123.70	FJS-20Z-20	317.55	FJB-20Z-20	POR	5 NEW

**Rigid Male Pipe**

Hose Size	Thread Size	Carbon Steel		304 Stainless Steel		Brass		Box Qty
		Part #	Price/E	Part #	Price/E	Part #	Price/E	
dash 4	1/8"	MPC-04-02	\$7.15	MPS-04-02	\$13.40	MPB-04-02	\$6.05	25
dash 4	1/4"	MPC-04-04	6.70	MPS-04-04	16.50	MPB-04-04	5.90	25
dash 5	1/4"	MPC-05-04	8.90	MPS-05-04	15.50	MPB-05-04	7.70	25
dash 6	1/4"	MPC-06-04	11.85	MPS-06-04	22.70	MPB-06-04	11.00	25
dash 6	3/8"	MPC-06-06	9.25	MPS-06-06	19.00	MPB-06-06	10.00	25
dash 8	3/8"	MPC-08-06	13.15	MPS-08-06	30.85	MPB-08-06	14.00	25
dash 8	1/2"	MPC-08-08	12.85	MPS-08-08	31.50	MPB-08-08	13.25	25
dash 10	1/2"	MPC-10-08	23.50	MPS-10-08	33.00	MPB-10-08	16.30	25
dash 12	3/4"	MPC-12-12	23.35	MPS-12-12	51.40	MPB-12-12	31.40	10
dash 16	1"	MPC-16-16	43.25	MPS-16-16	111.25	MPB-16-16	57.10	10
dash 20Z	1 1/4"	MPC-20Z-20	167.90	MPS-20Z-20	187.30	MPB-20Z-20	POR	5 NEW

**Female SAE Swivel**

Hose Size	Thread Size	Carbon Steel		Brass		Box Qty
		Part #	Price/E	Part #	Price/E	
dash 6	3/8"	SAEC-06-06	17.65	SAEB-06-06	11.40	25
dash 12	3/4"	SAEC-12-12	24.75	SAEB-12-12	36.65	10



Nominal PTFE Hose Insertion Tool and Dies

Feature:

- Designed to take the hassle out of installing crimp collars onto braided PTFE Hose. With a few simple steps even the most challenging braid can be easily and safely inserted into the crimp collar.



Description	Size	Part #	Price/E
tool / die holder	---	ITDH	\$310.00
die	dash 4	ITD-04	206.00
die	dash 5	ITD-05	206.00
die	dash 6	ITD-06	206.00
die	dash 8	ITD-08	206.00
die	dash 10	ITD-10	206.00
die	dash 12	ITD-12	206.00
die	dash 16	ITD-16	206.00

Nominal Smooth Bore PTFE Hose Fittings

Tube End Stubs

Feature:

- crimp collars for all nominal fittings are included



Hose Size	Thread Size	304 Stainless Steel Part #	Price/E
dash 4	1/4"	TES-04-04	23.75
dash 6	3/8"	TES-06-06	29.20
dash 8	1/2"	TES-08-08	50.15
dash 12	3/4"	TES-12-12	117.00
dash 16	1"	TES-16-16	131.00

45° FJIC



Hose Size	Thread Size	304 Stainless Steel		Carbon Steel	
		Part #	Price/E	Part #	Price/E
dash 3	3/16"	FJS45-03-03	\$61.90	FJC45-03-03	\$23.35
dash 4	1/4"	FJS45-04-04	69.15	FJC45-04-04	26.55
dash 5	5/16"	FJS45-05-05	70.65	FJC45-05-05	26.90
dash 6	3/8"	FJS45-06-06	77.45	FJC45-06-06	30.10
dash 8	1/2"	FJS45-08-08	96.50	FJC45-08-08	36.45
dash 10	5/8"	FJS45-10-10	108.00	FJC45-10-10	42.15
dash 12	3/4"	FJS45-12-12	136.25	FJC45-12-12	57.95
dash 16	1"	FJS45-16-16	219.90	FJC45-16-16	76.40
dash 20Z	1-1/4"	FJS45-20Z-20	296.25	FJC45-20Z-20	115.20

90° FJIC



Hose Size	Thread Size	304 Stainless Steel		Carbon Steel	
		Part #	Price/E	Part #	Price/E
dash 3	3/16"	FJS90-03-03	61.90	FJC90-03-03	\$23.35
dash 4	1/4"	FJS90-04-04	69.15	FJC90-04-04	26.55
dash 5	5/16"	FJS90-05-05	70.65	FJC90-05-05	26.90
dash 6	3/8"	FJS90-06-06	77.45	FJC90-06-06	30.10
dash 8	1/2"	FJS90-08-08	96.50	FJC90-08-08	36.45
dash 10	5/8"	FJS90-10-10	108.00	FJC90-10-10	42.15
dash 12	3/4"	FJS90-12-12	136.25	FJC90-12-12	57.95
dash 16	1"	FJS90-16-16	219.90	FJC90-16-16	76.40
dash 20Z	1-1/4"	FJS90-20Z-20	296.25	FJC90-20Z-20	115.20

True ID

Application:

- Suitable for conveying acids, chemicals, foods and pharmaceuticals.

Features:

- range: ¼" to 2"
- operating temperature: -76°F to 500°F (-60°C to 260°C)
- boxed coils (bulk, per ft. lengths and full reels available from Maryland and Texas, call Dixon Specialty Products at 888.226.4673)
- stainless braided
- Other braids including synthetic, extruded and heat shrink coverings are available upon request.

True ID Hose (*fittings not included*)



True ID Open Pitch Convoluted Hose

Size	White, non-conductive		Black, conductive	
	Part #	Price/E	Part #	Price/E
1/4"	WOC-T04-50	\$1190.00	BOC-T04-50	\$1540.00
3/8"	WOC-T06-50	1190.00	BOC-T06-50	1540.00
1/2"	WOC-T08-50	1337.50	BOC-T08-50	1467.50
3/4"	WOC-T12-50	1565.00	BOC-T12-50	1722.50
1"	WOC-T16-50	2537.50	BOC-T16-50	2705.00
1¼"	WOC-T20-50	3045.00	BOC-T20-50	3942.50
1½"	WOC-T24-25	1975.00	BOC-T24-25	2173.75
2"	WOC-T32-25	2517.50	BOC-T32-25	2772.50

Heavy Wall True ID Smooth Bore Hose

Size	White, non-conductive		Black, conductive	
	Part #	Price/E	Part #	Price/E
1/4"	WTB-T04-50	\$545.00	BTB-T04-50	POR
3/8"	WTB-T06-50	790.50	BTB-T06-50	POR
1/2"	WTB-T08-50	985.00	BTB-T08-50	POR
3/4"	WTB-T12-50	1637.50	BTB-T12-50	POR
1"	WTB-T16-50	2197.50	BTB-T16-50	POR
1"	WTB-T16Z-50¹	POR	BTB-T16Z-50¹	POR
1¼"	WTB-T20Z-50¹	POR	BTB-T20Z-50¹	POR
1½"	WTB-T24Z-50¹	POR	BTB-T24Z-50¹	POR

¹ double braid

True ID Fittings

Crimp collars for all True ID fittings are sold separately



Female JIC Swivel

Size	Carbon Steel		316 Stainless Steel		Box Qty
	Part #	Price/E	Part #	Price/E	
1/4"	FJC-T04	\$12.05	FJR-T04	\$28.25	10
3/8"	FJC-T06	13.10	FJR-T06	36.10	10
1/2"	FJC-T08	22.25	FJR-T08	44.50	10
3/4"	FJC-T12	25.60	FJR-T12	66.15	10
1"	FJC-T16	32.65	FJR-T16	114.80	10
1¼"	FJC-T20	85.00	FJR-T20	230.50	10
1½"	FJC-T24	83.50	FJR-T24	297.55	10
2"	FJC-T32	147.50	FJR-T32	495.35	10



Rigid Male Pipe

Size	Carbon Steel		316 Stainless Steel		Box Qty
	Part #	Price/E	Part #	Price/E	
1/4"	MPC-T04	\$6.20	MPR-T04	\$24.00	10
3/8"	MPC-T06	8.55	MPR-T06	31.75	10
1/2"	MPC-T08	18.75	MPR-T08	41.50	10
3/4"	MPC-T12	22.45	MPR-T12	66.05	10
1"	MPC-T16	34.75	MPR-T16	116.35	10
1¼"	MPC-T20	58.10	MPR-T20	201.50	10
1½"	MPC-T24	66.95	MPR-T24	230.00	10
2"	MPC-T32	110.70	MPR-T32	364.00	10



Sanitary Tri-Clamp

Hose Size	Clamp Size	316 Stainless Steel		Box Qty
		Part #	Price/E	
1/2"	1"	TCR-T08-16	\$135.40	10
1/2"	1½"	TCR-T08-24	158.15	10
3/4"	1½"	TCR-T12-24	170.00	10
1"	1"	TCR-T16-16	126.65	10
1"	1½"	TCR-T16-24	148.15	10
1½"	1½"	TCR-T24-24	158.15	10
2"	2"	TCR-T32-32	217.00	10



Mini Sanitary Tri-Clamp

Size	316 Stainless Steel		Box Qty
	Part #	Price/E	
1/2"	TCMR-T08	\$61.45	10
3/4"	TCMR-T12	62.40	10

- contact Dixon Specialty Products for GSM and PTFE hose assemblies

Flange Retainers

- for use with lap joint flanges, see page 612

Size	316 Stainless Steel		316 Stainless Steel PTFE Encapsulated		Box Qty
	Part #	Price/E	Part #	Price/E	
1/2"	FRR-T08	\$108.25	---	---	10
3/4"	FRR-T12	129.45	FRRE-T12	\$348.70	10
1"	FRR-T16	163.10	FRRE-T16	547.40	10
1¼"	FRR-T20	POR	FRRE-T20	POR	10
1½"	FRR-T24	319.35	FRRE-T24	625.50	10
2"	FRR-T32	567.30	FRRE-T32	809.60	10



True ID Fittings

Universal Crimp Collars

Feature:

- "old style" crimp collars for both open pitch convoluted PTFE hose and True ID smooth bore PTFE hose



Size	Carbon Steel		304 Stainless Steel		Box Qty
	Part #	Price/E	Part #	Price/E	
1/4"	CSC-T04	\$6.00	SSC-T04	\$18.90	10
3/8"	CSC-T06	6.85	SSC-T06	20.45	10
1/2"	CSC-T08	12.65	SSC-T08	24.30	10
3/4"	CSC-T12	15.25	SSC-T12	35.05	10
1"	CSC-T16	17.05	SSC-T16	53.75	10
1 1/4"	CSC-T20	44.05	SSC-T20	86.95	10
1 1/2"	CSC-T24	49.60	SSC-T24	103.70	10
2"	CSC-T32	66.15	SSC-T32	175.30	10

Convuluted Crimp Collars

NEW
FOR 2013

Features:

- for open pitch convoluted PTFE hose only
- new design for ease of installation and improved appearance of finished crimp



Size	Carbon Steel		304 Stainless Steel		Box Qty
	Part #	Price/E	Part #	Price/E	
1/4"	CSC-T04-1	\$6.00	SSC-T04-1	\$18.90	10
3/8"	CSC-T06-1	6.85	SSC-T06-1	20.45	10
1/2"	CSC-T08-1	12.65	SSC-T08-1	24.30	10
3/4"	CSC-T12-1	15.25	SSC-T12-1	35.05	10
1"	CSC-T16-1	17.05	SSC-T16-1	53.75	10
1 1/4"	CSC-T20-1	44.05	SSC-T20-1	86.95	10
1 1/2"	CSC-T24-1	49.60	SSC-T24-1	103.70	10
2"	CSC-T32-1	66.15	SSC-T32-1	175.30	10

Smooth Bore Crimp Collars

NEW
FOR 2013

Features:

- for True ID smooth bore PTFE hose only
- new design for ease of installation and improved appearance of finished crimp



Size	Carbon Steel		304 Stainless Steel		Box Qty
	Part #	Price/E	Part #	Price/E	
1/4"	CSC-T04-2	\$6.00	SSC-T04-2	\$18.90	10
3/8"	CSC-T06-2	6.85	SSC-T06-2	20.45	10
1/2"	CSC-T08-2	12.65	SSC-T08-2	24.30	10
3/4"	CSC-T12-2	15.25	SSC-T12-2	35.05	10
1"	CSC-T16-2	17.05	SSC-T16-2	53.75	10
1 1/4"	CSC-T20-2	POR	SSC-T20-2	POR	10
1 1/2"	CSC-T24-2	POR	SSC-T24-2	POR	10

Contact Dixon Specialty Products for assembly instructions and crimp recommendations at 888.226.4673.



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Product Selection Guide

type A closed end inserts, type B open end inserts and type C closed end with counter bore inserts

Install Methods	Base Materials	Description
molded-in epoxied-in	thermoset plastics thermoplastics rubber ceramics	A wide range of threaded inserts featuring patented designs for molded-in use. Close tolerance of minor thread diameter and careful burnishing of inner thread crests assure snug fit on pins. Extremely flat ends on inserts (with no burrs, ridges or other defects) mean no leakage of material on the face of the mold. <i>Available in brass, aluminum and stainless steel.</i>



type D studded end inserts

Install Methods	Base Materials	Description
molded-in epoxied-in	thermoset plastics thermoplastics rubber ceramics	Threaded stud inserts featuring patented designs for molded-in use. Proportioned for maximum holding strength. Can be screwed to butt flush with a Yardley Type C Insert. <i>Available in brass.</i>



bi-sert® inserts

Install Methods	Base Materials	Description
molded-in	thermoset plastics thermoplastics glass-filled plastics	Designed for rotational molding, this insert provides exceptional torque and pull-out resistance. Unique hex design allows it to be used with fibrous materials where the fibers would block the flow of the plastic material around ordinary inserts. Inside diameter held to strict tolerances for a smooth, tight fit on locating pins. <i>Available in brass and aluminum.</i>



zap-sert® inserts

Install Methods	Base Materials	Description
molded-in ultrasonic thermal pressed-in	thermoset plastics thermoplastics	Economical design features a lead on both ends making this insert ideal for high volume, automated production. Unique radial barbs provide strong resistance to pull-out and rotation in plastics and thermoplastics. Can be molded-in or installed with ultrasonic or thermal insertion tools. <i>Available in brass.</i>



type E closed end and type F open end pressed-in inserts

Install Methods	Base Materials	Description
pressed-in epoxied-in	thermoset plastics thermoplastics rubber ceramics	Spiral knurled, open or closed-ended inserts for pressing into soft materials such as plastics, foamed plastics and rubber. Ideal for use where minimal pull-out strength is needed, but some torque resistance is required. Can also be molded-in and feature patented I.D. design for use with locating pins. <i>Available in brass and aluminum.</i>



Product Selection Guide

quick-sert® inserts



Install Methods	Base Materials	Description
pressed-in	aluminum soft metals	Designed for fast easy press-in installation, providing permanent threads in aluminum and other soft metals. Its smooth tapered lead allows easy positioning for quick starts in a pre-drilled hole and the knurled body locks tightly in the host material. Its thick wall design prevents thread distortion. <i>Available in plated steel.</i>

sharp-sert® regular, short and flanged series inserts



Install Methods	Base Materials	Description
pressed-in ultrasonic thermal	thermoset plastics thermoplastics wood	Versatile, economical and trouble free, they offer easy, high-speed installation. Curved hooks and lateral flutes lock them into plastics, particle board and wood. Install with ultrasonic or thermal tools or just hammer or press them in. <i>Available in brass and stainless steel.</i>

fiber-sert® regular and diecast series inserts



Install Methods	Base Materials	Description
threaded-in	wood particle board ABS foamed plastics	Special design makes them ideal for wood, particle board, ABS and foamed plastics. Large coarse outer threads give great holding power in weaker materials while inside threads stay clean, free of chips. Install with Yardley pneumatic inserter or easy-to-use self-tapping driver. <i>Available in brass and diecast.</i>

tri-sert® regular, short, coarse threaded and slotted coarse threaded series inserts



Install Methods	Base Materials	Description
threaded-in	thermoset plastics thermoplastics wood soft metals	For strong threads in plastics, soft metals and wood. Self-tapping, they provide high torque and pull-out resistance. Install with Yardley pneumatic inserter, insert driver or screw driver. <i>Available in brass, plated steel and stainless steel.</i>

intro-sert® regular and short series inserts



Install Methods	Base Materials	Description
ultrasonic thermal	thermoplastics ABS polycarbonates	For use in thermoplastic materials such as ABS and polycarbonates. Intro-Serts have no sharp edges on their outer annular ribs to cause residual stress cracking. Install them fast and easily with ultrasonic or thermal insertion tools. <i>Available in brass, aluminum and stainless steel.</i>

tri-sert® slotted coarse threaded inserts



Install Methods	Base Materials	Description
screwdriver Yardley inserting tool	brittle or weak plastics	Inserts are internally and externally threaded metal inserts with a slot on one end. The inserts tap their own threads as they are (turned) into drilled or cored holes. The wider spaced external threads reduce installation torque and provide a stronger hold. <i>Available in brass and stainless steel. Custom sizes and materials are also available.</i>

Contact Yardley at 800.457.0154 for more information on all the threaded inserts on pages 679 and 680



Hydrasearch Company, Inc.

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Stevensville, MD 21666
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Fax (410) 643-8954
sales@hydrasearch.com
hydrasearch.com

Hydrasearch, established in 1962, is a division of Dixon and a large multi-divisional manufacturer and global distributor of diverse commercial hose, technical products and fittings. In 1995 Hydrasearch purchased the Technical Products Company, allowing us to introduce a line of high pressure O-ring face seal valves and pipe and tube fittings.

Today, Hydrasearch products can be found on submarines, surface ships, helicopters, fixed-wing aircraft, tanks, and ground equipment throughout the world. With our experienced staff, expanding product line, and growing global distribution, Hydrasearch continues to improve and expand to meet your needs today and into the future.

Technical Products

- valves and accessories
- valves, instrumentation and adapters
- fittings, couplings and union assemblies
- O-rings and Sil-Braze rings
- hose end fittings and adapters
- cross reference to CPV-O-Seal available



Product Literature

- Marine Hose Fittings (Catalog 109)
- Underway Replenishment Products (Catalog 709)
- Aerospace Hose & Fittings (Catalog 209)
- Technical Products (Catalog 701)



BUCK COMPANY, INC.
897 Lancaster Pike
Quarryville, PA 17566-9738
Phone: 717.284.4114
Fax: 717.284.3737
buckcompany.com

Buck Company is a quality automated sand cast foundry designed to handle medium to high volume castings. These castings range from one half pound to one hundred pounds in malleable iron, ductile iron and gray iron. We can also handle jobs ranging from one half pound to seventy five pounds in brass, bronze, and aluminum sand casting. ISO2000 certified.



Cast Dimensions

All cast dimensions are nominal as defined in ANSI Y14.5-1973 paragraph 5-1.6.8

S.T.A.M.P.E.D.

When fabricating and specifying hose assemblies ask the following questions:

- Size:** What is the ID (Inside Diameter) of the hose? What is the OD (Outside Diameter) of both ends of the hose? What is the overall length of the assembly required?
- Temperature:** What is the temperature range of the media (product) that is flowing through the hose assembly? What is the temperature range of the environment that surrounds the outside of the hose assembly?
- Application:** How is the hose assembly actually being used? Is it a pressure application? Is it a vacuum (suction) application? Is it a gravity flow application? Are there any special requirements that the hose assembly is expected to perform? Is the hose being used in a horizontal or vertical position? Are there any pulsations or vibrations acting on the hose assembly?
- Media:** What is the media/material that is flowing through the hose assembly? Being specific is critical. Check for: Abrasive materials, chemical compatibility, etc.
- Pressure:** What is the maximum pressure including surges (or, maximum vacuum) that this hose assembly will be subjected to? Always rate the maximum working pressure of your hose assembly by the lowest rated component in the system.
- Ends:** What couplings have been requested by the user? Are they the proper fittings for the application and hose selected?
- Dixon:** Dixon recommends that, based on the hose, fittings and attachment method used, all assemblies be permanently marked with the designed working pressure and intended media. Do not use other manufacturer's fittings or ferrules with Dixon products due to the differences in dimensions and tolerances. We also recommend that all hose assemblies be tested frequently.
Be Safe: Any questions on application, use or assembly call 800-355-1991.

MSHA (Mine Safety and Health Administration) Regulations

30 CFR Sections 56.13021 and 57.13021

Except where automatic shut-off valves are used, safety chains or other suitable locking devices shall be used at connections to machines of high-pressure hose line of ¾" inside diameter or larger, and between high-pressure hose lines of ¾" inside diameter or larger, where a connection failure would create a hazard.

30 CFR Section 75.1730

(e) Safety chains, suitable locking devices, or automatic cut-off valves shall be used at connections to machines of high-pressure hose lines of ¾" inside diameter or larger, and between high-pressure hose lines of ¾" inside diameter or larger, where a connection failure would create a hazard. For purposes of this paragraph, high-pressure means pressure of 100 PSI or more.

30 CFR Section 77.412

(d) Safety chains or suitable locking devices shall be used at connections to machines of high-pressure hose line of 1" inside diameter or larger, and between high-pressure hose line of 1" inside diameter or larger, where a connection failure would create a hazard.

OSHA Regulations

Standards - 29 CFR, 1910.242 (partial):

(b) Compressed air used for cleaning - Compressed air shall not be used for cleaning purposes except where reduced to less than 30 PSI and then only with effective chip guarding and personal protective equipment.

Standards - 29 CFR, 1915.131 (partial):

(e) Before use, pneumatic tools shall be secured to the extension hose or whip by some positive means to prevent the tool from becoming accidentally disconnected from the whip.

Standards - 29 CFR, 1926.302 (partial):

(b)(1) Pneumatic power tools shall be secured to the hose or whip by some positive means to prevent the tool from becoming accidentally disconnected.

(b)(2) Safety clips or retainers shall be securely installed and maintained on pneumatic impact (percussion) tools to prevent attachments from being accidentally expelled.

(b)(3) All pneumatically driven nailers, staplers and other similar equipment provided with automatic fastener feed, which operate at more than 100 PSI pressure at the tool shall have a safety device on the muzzle to prevent the tool from ejecting fasteners, unless the muzzle is in contact with the work surface.

(b)(4) Compressed air shall not be used for cleaning purposes except where reduced to 30 PSI and then only with effective chip guarding and personal protective equipment which meets the requirements of Subpart E of this part. The 30 PSI requirement does not apply for concrete form, mill scale and similar cleaning purposes.

(b)(5) The manufacturer's safe operating pressure for hoses, pipes, valves, filters and other fittings shall not be exceeded.

(b)(6) The use of hoses for hoisting or lowering tools shall not be permitted.

(b)(7) All hoses exceeding ½" inside diameter shall have a safety device at the source of supply or branch line to reduce pressure in case of hose failure.

Standards - 29 CFR, 1926.306:

(a) General requirements

(a)(1) Application. This section applies to compressed air receivers, and other equipment used in providing and utilizing compressed air for performing operations such as cleaning, drilling, hoisting, and chipping. On the other hand, however, this section does not deal with the special problems created by using compressed air to convey materials nor the problems created when men work in compressed air as in tunnels and caissons. This section is not intended to apply to compressed air machinery and equipment used on transportation vehicles such as steam railroad cars, electric railway cars, and automotive equipment.

(a)(2) New and existing equipment.

(a)(2)(i) All new air receivers installed after the effective date of these regulations shall be constructed in accordance with the 1968 edition of the A.S.M.E. Boiler and Pressure Vessel Code Section VIII.

(a)(2)(ii) All safety valves used shall be constructed, installed and maintained in accordance with the A.S.M.E. Boiler and Pressure Vessel Code, Section VIII Edition 1968.

(b) Installation and equipment requirements

(b)(1) Installation. Air receivers shall be so installed that all drains, handholes, and manholes therein are easily accessible. Under no circumstances shall an air receiver be buried underground or located in an inaccessible place.

(b)(2) Drains and traps. A drain pipe and valve shall be installed at the lowest point of every air receiver to provide for the removal of accumulated oil and water. Adequate automatic traps may be installed in addition to drain valves. The drain valve on the air receiver shall be opened and the receiver completely drained frequently and at such intervals as to prevent the accumulation of excessive amounts of liquid in the receiver.

(b)(3) Gauges and valves.

(b)(3)(i) Every air receiver shall be equipped with an indicating pressure gauge (so located as to be readily visible) and with one or more spring-loaded safety valves. The total relieving capacity of such safety valves shall be such as to prevent pressure in the receiver from exceeding the maximum allowable working pressure of the receiver by more than 10 percent.

(b)(3)(ii) No valve of any type shall be placed between the air receiver and its safety valve or valves.

Standards - 29 CFR, 1926.603 (partial):

(a)(9) Steam hose leading to a steam hammer or jet pipe shall be securely attached to the hammer with an adequate length of at least ¼" diameter chain or cable to prevent whipping in the event the joint at the hammer is broken. Air hammer hoses shall be provided with the same protection as required for steam lines.

(a)(10) Safety chains, or equivalent means, shall be provided for each hose connection to prevent the line from thrashing around in case the coupling becomes disconnected.

The regulations may be viewed in full on the OSHA website, osha.gov, please check the website for updates.

The Canada Occupational Safety and Health regulations, Part XIII, 13:6b states:

"Where an air hose is connected to a portable air powered tool used by an employee, a restraining device shall be attached to all hose connections, in order to prevent injury to an employee in the event of an accidental disconnection of a hose."

Hose Coupling Workshops

In an effort to provide our customers with information regarding the proper and safe methods of assembling hose and couplings, Dixon offers Hose Coupling Workshops suitable for a company's sales force and shop personnel.

Classes consist of lectures and/or hands-on demonstrations of coupling selection, hose preparation, coupling installation, assembly testing and maintenance procedures. Morning, afternoon and all day classes are available. For more information, please contact the factory at 800.355.1991.

We encourage you to share this information with anyone who may be affected by the selection, installation, maintenance or use of any hose assembly. Always use quality products to **Be Safe**.

Be Safe

Hose assemblies must be inspected prior to each use. Worn out fittings, attachment devices, hose and accessory items must be replaced. Retaining devices (safety devices) such as clips, cables or chains must be used. Clamps must be checked regularly to the specified torque found in the Dixon literature. Under no circumstance should any coupling be disconnected while under pressure unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death, and destruction to property and equipment.

For all hose assemblies in use:

- Beware** - Hose assemblies when used improperly or in the wrong application can be dangerous. The maximum working pressure shown on the hose is not an indication of the working pressure of the assembly. Based on the hose, fittings and attachment method used, all assemblies should be permanently marked with the designed working pressure and the intended media. The assembly working pressure should be permanently displayed. Hose assemblies must be used for the intended service only. Never alter manufactured product or substitute component parts.
- Eliminate** - hazardous conditions by inspecting, maintaining and testing hose assemblies. Dixon recommends that all hose assemblies be tested in accordance with the hose manufacturer's specifications. The application determines the regularity of the re-testing schedule.
- Secure** - and inspect hose, fittings, clamping devices and safety accessories before each use. Never take for granted that the coupling or attachment devices are properly installed.
- Always** - inspect and re-tighten the bolts of any bolt style clamping device to the manufacturer's torque specifications.
- Fittings** - hose and clamping devices that are worn out or damaged must be removed from service.
- Educate** - your employees about the proper use, care and potential hazards of hose assemblies. Take advantage of Dixon's free Hose Assembly Safety Program and the follow up Training Seminar to aid you in setting up your own inspection program. Any questions on applications, use or assembly call 1-800-355-1991.

⚠ WARNING

The Importance of Whip Hose

The constant vibration created by air tools, like air drills and pavement breakers, is destructive to air hose couplings, especially the quick-acting type. To provide protection against coupling breakage and related hazards, Dixon recommends the use of a whip hose. To construct a whip hose, connect one end of a short (3' to 10') air hose to the air tool using a 3500 type steel nipple. Connect the other end of the hose to the air supply using the standard quick-acting coupling. The heat-treated 3500 nipple will withstand vibration far better than the standard coupling and provide a safer connection. The whip hose should remain permanently connected to the tool.

Hose Assembly Safety Program

Dixon, in partnership with your industrial hose supplier, is pleased to offer a hose and coupling safety survey of your plant, at no cost to you, to assist in your efforts to make your facility as safe, efficient and productive as possible.

Today, plant safety is an enormous, ongoing endeavor in which it is impossible to be an expert in every field.

The use of damaged or misapplied hose couplings and related items occurs. To the untrained eye, these hazards may continue to exist until an accident happens, threatening not only plant machinery, but also the well-being of plant personnel.

Our program includes a visual inspection of hose assemblies and related accessories in your plant by trained technicians. A professionally written report containing our observations and recommendations for corrective action is subsequently provided to augment your own ongoing safety program. If desired, photographs of the areas of concern can be supplied with the report. As a follow-up, the program offers an educational hands-on seminar directly relating to the safety concerns in your facility.

Plant safety is coming under increasing scrutiny by various regulatory agencies. Let Dixon's trained personnel assist you in establishing and maintaining safety compliance in your plant.

The safety survey report is completely confidential and will only be shown to authorized plant personnel. For more information, please contact the factory at 800.355.1991.

Safety Products and Recommendations in the Dixon Price List

Safety is everyone's concern!

Dixon provides many safety products designed to protect personnel and property. Recommendations and safety warnings are also included for your review.

Hose and coupling safety	pages 9, 682-685
S.T.A.M.P.E.D.	page 682
Pressure recommendations	pages 686-691
EZ Boss-Lock handles	pages 22, 60
Cam and groove safety clips	pages 22, 60-61
Air King - not to be used for steam statement	pages 104-107
King cable safety cables.....	page 119
Safety shut-off valves, OSHA REG. 1926.302	page 122
30 PSI safety blow guns.....	page 141
Safety vented ball valves.....	page 581
Safety tags and safety tape.....	page 672
The importance of whip hose statement	pages 117, 684

Dixon is a proud member of The Association for Hose and Accessories Distribution (NAHAD). We support the NAHAD Hose Assembly Guidelines Program given the use of genuine Dixon couplings and clamps.



Pressure Recommendations

The images shown on these two pages are provided to assist in coupling and clamp or ferrule identification for the pressure recommendation chart on pages 688-691.

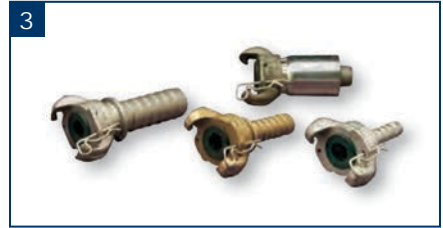
Couplings



Dixon Cam & Groove



Boss Couplings



Air King Universal



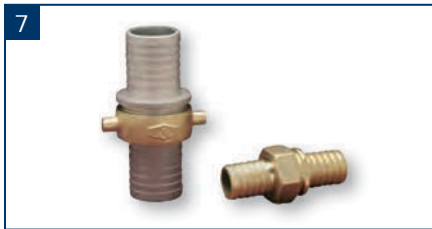
King Machined Medium Shank



King Machined Long Shank



Machined Short Shank



Cast Short Shank



Push-On



Reusable Brass



Hodedall Swage / Crimp



Hodedall Internal Expansion



Flow Chief / Sanitary



Hodedall Internal Expansion Petroleum



King Crimp Couplings

Pressure Recommendations

⚠ WARNING

1. The chart on pages 688-691 is intended as a guide only. It only applies to metal couplings as shown for ambient temperature (70°F) applications with true ID hose. It assumes new Dixon supplied couplings, new Dixon supplied clamps, new quality hose and proper installation by a qualified assembler using Dixon procedures and equipment. Temperature can affect the coupling retention. For questions relating to temperatures other than ambient (70°F) contact the hose manufacturer or Dixon at 1-800-355-1991.
2. This chart does not apply to non-Dixon products, with used hose, in non-approved or unsupported applications or in non-standard assemblies.
3. Do not use this chart if it conflicts with the hose manufacturer's recommendations.
4. All hose assemblies should be pressure tested to hose manufacturers or Rubber Manufacturers Association (R.M.A.) specifications prior to being put into service.
5. Our test experience indicates that coupling retention can vary with changes in hose design. For pressure ratings other than those listed and shown, or if questions arise, please call Dixon at 800.355.1991 for assistance.
6. All hose assembly components must be compatible with the materials and environments with which they are to come in contact.
7. Dixon recommends that all hose assemblies be marked with the assembly working pressure and media of the intended application. Under no circumstances should the assembly working pressure exceed the working pressure of the lowest rated component (coupling, clamp, ferrule or hose).
8. For further safety information refer to pages 9, 682-685.

Clamps and Ferrules



Boss Interlocking Clamps



Air King Interlocking Clamps



Light Duty Ferrules



Band & Buckle



Preformed Clamps



Double Bolt Clamps



Swage / Crimp



Internal Expansion



Internal Expansion Petroleum



King Crimp Sleeve



King Crimp Ferrule

Pressure Recommendations

Mark hose assembly with pressure from this chart or hose working pressure, whichever is lower.

All pressure recommendations are in pounds per square inch (PSI).

- This chart is intended as a guide only. It only applies to metal couplings as shown for ambient temperature (70°F) applications with true ID hose. It assumes new Dixon supplied couplings, new Dixon supplied clamps, new quality hose and proper installation by a qualified assembler using Dixon procedures and equipment.
Temperature can affect the coupling retention. For questions relating to temperatures other than ambient (70°F) contact the hose manufacturer or Dixon at 800.355.1991.
- This chart does not apply to non-Dixon products, with used hose, in non-approved or unsupported applications or in non-standard assemblies.

Instructions continue at the top of the next page.

Hose (rubber covered)	DPL sect.	Group ID - Couplings	Couplings	Group ID - Clamps & Ferrules	Clamps & Ferrules	Assembly Procedure	1/4"	3/8"	1/2"	5/8"	3/4"	
Air <i>textile reinforced rubber lined</i>	E	3	Air King Universal	E	Prefomed Band Clamp	2102			150	150	150	
	E	3	Air King Universal	G	Swage/Crimp	2306				150	150	
	E	3	Air King Universal	C	Light Duty Ferrules	2307				150	150	
	F	6	Machined - Short Shank	C	Light Duty Ferrules	2304	200	150	150	100	100	
	F	6	Machined - Short Shank	E	Prefomed Band Clamp	2100-2101				150	100	
	G	9	Reusable - Brass	N/A	n/a	2305	250	250	250			
	F	4	King Machined - Medium Shank	E	Prefomed Band Clamp	2100-2101				250	200	
	F	5	King Machined - Long Shank	E	Prefomed Band Clamp	2100-2101				300	300	
Air <i>textile or wire reinforced rubber lined</i>	F	14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201						
	E	3	Air King Universal	B,A	Air King or Boss Interlocking Clamp	2000		150	150		150	
	E	3	Air King Universal	G	Swage/Crimp	2306				150	150	
	E	3	Air King Universal	C	Light Duty Ferrules	2307				150	150	
	D	2	Boss Couplings	A	Boss Interlocking Clamp	2000-2004	600	600	600	600	600	
	K	10	Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual	600	600	600		600	
	F	14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201						
	Asphalt & Hot Tar	D	2	Boss Couplings	A	Boss Interlocking Clamp	2001-2002					
F		4	King Machined - Medium Shank	E	Prefomed Band Clamp	2100-2101				125	125	
F		4	King Machined - Medium Shank	D	Band & Buckle	2104						
F		5	King Machined - Long Shank	E	Prefomed Band Clamp	2100-2101				150	150	
F		5	King Machined - Long Shank	D	Band & Buckle	2104						
A		1	Boss-Lock Cam & Groove	E	Prefomed Band Clamp	2100-2101				150	150	
A		1	Boss-Lock Cam & Groove	D	Band & Buckle	2104						
A		1	Boss-Lock Cam & Groove	G	Swage/Crimp	see Ram Manual					250	
K		10	Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual				600	600	
F		14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201						
F		14	King Crimp ST - Sleeve	J	King Crimp Sleeve	4200						
A		14	King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201						
A		14	King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200						
Chemical <i>plastic lined for liquid service</i>		F	4	King Machined - Medium Shank	E	Prefomed Band Clamp	2100-2101				125	125
	F	4	King Machined - Medium Shank	D	Band & Buckle	2104						
	F	5	King Machined - Long Shank	E	Prefomed Band Clamp	2100-2101				150	150	
	F	5	King Machined - Long Shank	D	Band & Buckle	2104						
	A	1	Boss-Lock Cam & Groove	E	Prefomed Band Clamp	2100-2101				150	150	
	A	1	Boss-Lock Cam & Groove	D	Band & Buckle	2104						
	A	1	Boss-Lock Cam & Groove	G	Swage/Crimp	see Ram Manual					250	
	D	2	Boss Couplings	A	Boss Interlocking Clamp	2000-2004				600	600	
	K	11	Holedall Internal Expansion	H	Internal Expansion	see Ram Manual						
	F	14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201						
	F	14	King Crimp ST - Sleeve	J	King Crimp Sleeve	4200						
	A	14	King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201						
	A	14	King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200						
	Chemical <i>rubber lined for liquid service</i>	K	10	Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual				600	600
Food Grade conforming to 3A		K	12	Flow Chief Sanitary	H	Internal Expansion	see Ram Manual					
		F	4	King Machined - Medium Shank	E	Prefomed Band Clamp	2100-2101				125	125
		F	4	King Machined - Medium Shank	D	Band & Buckle	2104					
		A	1	Boss-Lock Cam & Groove	E	Prefomed Band Clamp	2100-2101				150	150
		A	1	Boss-Lock Cam & Groove	D	Band & Buckle	2104					
		A	1	Boss-Lock Cam & Groove	G	Swage/Crimp	see Ram Manual					250
		K	11	Holedall Internal Expansion	H	Internal Expansion	see Ram Manual					
		K	10	Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual				600	600
		F	14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201					
		F	14	King Crimp ST - Sleeve	J	King Crimp Sleeve	4200					
		A	14	King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201					
		A	14	King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200					
		Food Grade <i>rubber lined</i>										

3. Do not use this chart if it conflicts with the hose manufacturer's recommendations.
4. All hose assemblies should be pressure tested to hose manufacturers or Rubber Manufacturers Association (R.M.A.) specifications prior to being put into service.
5. Our test experience indicates that coupling retention can vary with changes in hose design. For pressure ratings other than those listed and shown, or if questions arise, please call Dixon at 800.355.1991 for assistance.
6. All hose assembly components must be compatible with the materials and environments with which they are to come in contact.
7. Dixon recommends that all hose assemblies be marked with the assembly working pressure and media of the intended application. Under no circumstances should the assembly working pressure exceed the working pressure of the lowest rated component (coupling, clamp, ferrule or hose).
8. For further safety information refer to pages 9, 682-685.

Procedures can be found at dixonvalve.com or requested by calling 800.355.1991.

Hose (rubber covered)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	Notes	
Air textile reinforced rubber lined	150									(2) bands on 5/8" or larger; Must use mating Dixon Air King fittings with safety clip installed.	
	150									Coupling and ferrule are sold assembled. Must use mating Dixon Air King fittings with safety clip installed.	
	150									(14) Coupling and ferrule are sold separately. Must use mating Dixon Air King fittings with safety clip installed.	
	100										
	100										
											(2) bands on 1/2" to 1"
		150									
Air textile or wire reinforced rubber lined	300										
	400		350	300		300	300		230	(13) crimp length would be full length	
	150									Must use mating Dixon Air King fittings with safety clip installed.	
	150									Coupling and ferrule are sold assembled. Must use mating Dixon Air King fittings with safety clip installed.	
	150									(14) Coupling and ferrule are sold separately. Must use mating Dixon Air King fittings with safety clip installed.	
	600	600	600	600	450	450	250		250		
	600	600	600	600	600	600	500	450	400		
Asphalt & Hot Tar	400		350	300		300	300		230	(13) crimp length would be full length	
	200	200	200	200	200	200	200			Consult factory	
	125	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
		125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
	150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest	
		150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest	
		250	250	250	150	125	100				
Chemical plastic lined for liquid service		250	250	250	150	125	100				
	250		250	250	150	125	100			Requires properly matched stem and ferrule.	
	600	600	600	600	600	600	500				
	400		350	300		300	300		230	(13) crimp length would be full length	
	400		300	250		200	175		75	(13) crimp length would be full length	
	250		250	250		150	150		75	(13) crimp length would be full length	
	250		250	250		125	110		75	(13) crimp length would be full length	
	125	125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
		125	125	75	75	50	50			(3) bands on 3" & 4"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
	150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest	
		150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest	
	250	250	250	250	150	125	100				
		250	250	250	150	125	100				
Chemical rubber lined for liquid service	250		250	250		125	100			Requires properly matched stem and ferrule.	
	600	600	600	600	450	450	250				
	800	800	800	800	600	600	500			Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules. Internal Expansion is NOT recommended for XLPE, UHMWPE & Gum Rubber lined hoses.	
	400		350	300		300	300		230	(13) crimp length would be full length	
	400		300	250		200	175		75	(13) crimp length would be full length	
	250		250	250		150	150		75	(13) crimp length would be full length	
	250		250	250		125	110		75	(13) crimp length would be full length	
	600	600	600	600	600	600	500				
	Food Grade conforming to 3A										Use Stainless Steel Food Grade Ferrule ONLY.
	Food Grade rubber lined	125	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest
			125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest
		250	250	250	250	150	125	100	75	75	(3) bands on 6"; (2) bands on the rest
			250	250	205	150	125	100	75	75	(3) bands on 6"; (2) bands on the rest
250			250	250		125	100			Requires properly matched stem and ferrule.	
250			250	250	250	250	200				
600		600	600	600	600	600	500	450	400		
400			350	300		300	300		230	(13) crimp length would be full length	
400			300	250		200	175		75	(13) crimp length would be full length	
250			250	250		150	150		75	(13) crimp length would be full length	
250		250	250		125	110		75	(13) crimp length would be full length		



Safety Information

	DPL sect.	Group ID - Couplings	Couplings	Group ID - Clamps & Ferrules	Clamps & Ferrules	Assembly Procedure	1/4"	3/8"	1/2"	5/8"	3/4"		
Hose (rubber covered)	F	7	Cast Short Shank	E	Prefomed Band Clamp	2100-2101							
	F	7	Cast Short Shank	D	Band & Buckle	2104							
	F	4	King Machined - Medium Shank	E	Prefomed Band Clamp	2100-2101							
	F	4	King Machined - Medium Shank	D	Band & Buckle	2104							
	F	5	King Machined - Long Shank	E	Prefomed Band Clamp	2100-2101							
	F	5	King Machined - Long Shank	D	Band & Buckle	2104							
	A	1	Boss-Lock Cam & Groove	E	Prefomed Band Clamp	2100-2101							
	A	1	Boss-Lock Cam & Groove	D	Band & Buckle	2104							
	A	1	Boss-Lock Cam & Groove	G	Swage/Crimp	see Ram Manual							
	K	10	Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual							
	K	11	Holedall Internal Expansion	H	Internal Expansion	see Ram Manual							
	F	14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201							
	F	14	King Crimp ST - Sleeve	J	King Crimp Sleeve	4200							
	Material Handling <i>rubber lined</i>	A	14	King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201						
A		14	King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200							
F		7	Cast Short Shank	F	Double Bolt Clamp	2201							
F		4	King Machined - Medium Shank	F	Double Bolt Clamp	2201							
F		5	King Machined - Long Shank	F	Double Bolt Clamp	2201							
F		14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201							
F		14	King Crimp ST - Sleeve	J	King Crimp Sleeve	4200							
A		14	King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201							
A		14	King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200							
Material Handling <i>no helical wire rubber lined</i>		D	2	Boss Couplings	A	Boss Interlocking Clamp	2000-2004						
		K	10	Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual						
		K	11	Holedall Internal Expansion	H	Internal Expansion	see Ram Manual						
		F	4	King Machined - Medium Shank	E	Prefomed Band Clamp	2100-2101			125		125	
		F	4	King Machined - Medium Shank	D	Band & Buckle	2104						
	F	5	King Machined - Long Shank	E	Prefomed Band Clamp	2100-2101			150		150		
	F	5	King Machined - Long Shank	D	Band & Buckle	2104							
	A	1	Boss-Lock Cam & Groove	E	Prefomed Band Clamp	2100-2101			150		250		
	A	1	Boss-Lock Cam & Groove	D	Band & Buckle	2104							
	A	1	Boss-Lock Cam & Groove	G	Swage/Crimp	see Ram Manual					250		
	K	11	Holedall Internal Expansion	H	Internal Expansion	see Ram Manual							
	K	10	Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual			600		600		
	F	14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201							
	Material Handling <i>cement rubber lined</i>	F	14	King Crimp ST - Sleeve	J	King Crimp Sleeve	4200						
A		14	King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201							
A		14	King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200							
Petroleum Transfer		K	13	Holedall Petroleum Internal Expansion	I	Internal Expansion (Petroleum)	see Ram Manual						
		Push-On	G	Push-On	N/A	n/a	2001-2002	350	350	350	350	350	
		Steam	D	Boss Couplings	A	Boss Interlocking Clamp	2000-2004			250		250	
		Water	E	3	Air King Universal	E	Prefomed Band Clamp	2100-2101			150	150	150
			E	3	Air King Universal	B,A	Air King or Boss Interlocking Clamp	2000-2001		150	150		150
			E	3	Air King Universal	C	Light Duty Ferrules	2307			150		150
			F	6	Machined - Short Shank	E	Prefomed Band Clamp	2100-2101			150	100	100
			F	6	Machined - Short Shank	C	Light Duty Ferrules	2304	200	150	150	100	100
			F	7	Cast Short Shank	E	Prefomed Band Clamp	2100-2101			150	100	100
			F	7	Cast Short Shank	D	Band & Buckle	2104					
			F	4	King Machined - Medium Shank	E	Prefomed Band Clamp	2100-2101			250	200	200
	F		5	King Machined - Long Shank	E	Prefomed Band Clamp	2100-2101			300	300	300	
	A		1	Boss-Lock Cam & Groove	E	Prefomed Band Clamp	2100-2101			150		250	
	A		1	Boss-Lock Cam & Groove	D	Band & Buckle	2104						
A	1		Boss-Lock Cam & Groove	G	Swage/Crimp	see Ram Manual					250		
D	2		Boss Couplings	A	Boss Interlocking Clamp	2000-2002	600	600	600	600	600		
K	10		Holedall Swage/Crimp	G	Swage/Crimp	see Ram Manual	600	600	600	600	600		
F	14		King Crimp ST - Ferrule	K	King Crimp Ferrule	4201							
F	14		King Crimp ST - Sleeve	J	King Crimp Sleeve	4200							
A	14		King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201							
A	14		King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200							
Water <i>no helical wire</i>	F		7	Cast Short Shank	F	Double Bolt Clamp	2201						
	F		4	King Machined - Medium Shank	F	Double Bolt Clamp	2201						
	F	5	King Machined - Long Shank	F	Double Bolt Clamp	2201							
	F	14	King Crimp ST - Ferrule	K	King Crimp Ferrule	4201							
	F	14	King Crimp ST - Sleeve	J	King Crimp Sleeve	4200							
	A	14	King Crimp Cam & Groove - Ferrule	K	King Crimp Ferrule	4201							
	A	14	King Crimp Cam & Groove - Sleeve	J	King Crimp Sleeve	4200							

Safety Information

Hose (rubber covered)	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	Notes		
Material Handling <i>rubber lined</i>			75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"		
			75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"		
			125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"		
			125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"		
			150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the res		
			150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the res		
			250	250	150	125	100	75	75	(3) bands on 6"; (2) bands on the rest		
			250	250	150	125	100	75	75	(3) bands on 6"; (2) bands on the rest		
			250	250		125	100			Requires properly matched stem and ferrule.		
			600	600	600	600	500	450	400			
			800	800	600	600	500		400	Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules. Internal Expansion is NOT recommended for XLPE, UHMWPE & Gum Rubber lined hoses.		
		400		350	300		300	300		230	(13) crimp length would be full length	
		400		300	250		200	175		75	(13) crimp length would be full length	
	Material Handling <i>no helical wire rubber lined</i>			75	75	50	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest	
			125	75	75	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest		
			150	125	100	75	75			(3) double bolt clamps on all sizes		
		400		350	300		300	300		230	(13) crimp length would be full length	
		400		300	250		200	175		75	(13) crimp length would be full length	
		250		250	250		150	150		75	(13) crimp length would be full length	
		250		250	250		125	110		75	(13) crimp length would be full length	
Material Handling <i>cement rubber lined</i>			600	600	600	600	450	450	250		250	Cement will erode ID
			600	600	600	600	600	600	500	450	400	Cement will erode ID
			800	800	800	800	600	600	500		400	Cement will erode ID Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.
		125	125	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
		125	125	75	75	50	50	25	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
		150	150	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest	
Petroleum Transfer		150	150	125	100	75	75				(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on the rest	
		250	250	250	150	125	100	75	75		(3) bands on 6"; (2) bands on the rest	
		250	250	250	150	125	100	75	75		(3) bands on 6"; (2) bands on the rest	
		250		250	250		125	100			Requires properly matched stem and ferrule.	
		800	800	800	800	600	600	500		400	Consult factory for ratings on IXF48-3 to IXF48-5 & IXF64-2 to IXF64-5 ferrules.	
		600	600	600	600	600	600	500	450	400		
		400		350	300		300	300		230	(13) crimp length would be full length	
		400		300	250		200	175		75	(13) crimp length would be full length	
		250		250	250		150	150		75	(13) crimp length would be full length	
		250		250	250		125	110		75	(13) crimp length would be full length	
	Air Craft Refueling conforming to API 1529	300	300	300	300	300	300	300				
	Push-On										Push-On fittings should ONLY be used on Push-On hose.	
	Steam	250	250	250	250	250	250	250		250		
Water		150									(2) bands on 5/8" or larger; Must use mating Dixon Air King fittings with safety clip installed. Band & Buckle is NOT recommended for 1-1/2" and smaller.	
		150									Must use mating Dixon Air King fittings with safety clip installed. Band & Buckle is NOT recommended for 1-1/2" and smaller.	
		150									(14) Coupling and ferrule are sold separately. Must use mating Dixon Air King fittings with safety clip installed.	
		100									(1) band; Band & Buckle is NOT recommended for 1-1/2" and smaller.	
		100										
		100	75	75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
			75	75	75	50	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
		150	150	125	75	75	50	50	25	25	(4) bands on 6"; (3) bands on 3" to 5"; (2) bands on 1-1/2" to 2-1/2"; (1) band on the rest	
		300	300	150	125	100	75	75			(5) bands on 3" & 4"; (4) bands on 2" & 2-1/2"; (3) bands on 1-1/4" & 1-1/2"; (2) bands on the rest	
		250	250	250	250	150	125	100	75	75	(3) bands on 6"; (2) bands on the rest	
			250	250	250	150	125	100	75	75	(3) bands on 6"; (2) bands on the rest	
		250		250	250		125	100			Requires properly matched stem and ferrule.	
		600	600	600	600	450	450	250		250		
		600	600	600	600	600	600	500	450	400		
	400		350	300		300	300		230	(13) crimp length would be full length		
	400		300	250		200	175		75	(13) crimp length would be full length		
	250		250	250		150	150		75	(13) crimp length would be full length		
	250		250	250		125	110		75	(13) crimp length would be full length		
Water <i>no helical wire</i>			75	75	50	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest		
			125	75	75	50	50	25	25	(3) double bolt clamps on 5" & 6"; (2) double bolt clamps on 3" to 4"; (1) double bolt clamp on the rest		
			150	125	100	75	75			(3) double bolt clamps on all sizes		
		400		350	300		300	300		230	(13) crimp length would be full length	
		400		300	250		200	175		75	(13) crimp length would be full length	
		250		250	250		150	150		75	(13) crimp length would be full length	
		250		250	250		125	110		75	(13) crimp length would be full length	



Dixon's Mobile Connection Trailers



Dixon's mobile training trailers provide hands-on opportunities for distributors and end users to learn more about the selection, installation and maintenance of Dixon fittings and accessories. Call 800.355.1991 for additional information.

Hose Assembly Safety Survey Center for:

- program introduction
- classroom instruction with audio visual display
- presentation of survey results and follow-up



Training for Distributors and End-Users in:

- product selection
- product installation
- safe product usage

Product Displays featuring:

- Dixon Accessories
- Dixon Bayco
- Dixon Boss
- Dixon Brass
- Dixon Powhatan
- Dixon Quick Coupling
- Dixon Sanitary
- Dixon Specialty Hose



S.T.A.M.P.E.D.


Questions to Ask

- S** Size
- T** Temperature
- A** Application
- M** Media
- P** Pressure
- E** Ends
- D** Dixon

Selecting Materials

This information is intended to help make general comparisons between different available materials.

Material	Features and Benefits
Stainless Steel	A corrosion-resistant material that provides high strength at high temperatures, helps prevent contamination of product being transported, maintains cleanliness, and retains a lustrous appearance. Harder than brass. <i>Type 304</i> is a low-carbon chromium-nickel stainless steel. <i>Type 316</i> is similar to type 304, but has a high nickel content as well as a molybdenum for stronger resistance to heat and corrosion. Often used for water, oil, gas, and steam in low- to high-pressure applications.
Brass	Has good corrosion resistance and is less expensive than stainless steel. Is softer and easier to thread than stainless steel and forms tight seals. It can be used interchangeably with copper where heavier walls are required. Found in plumbing and heating application. Also good with oil, natural gas, and air. Resists corrosion from salt water as well as fresh water polluted with waste from mineral acids and peaty soils. Use in low- to high-pressure applications.
Steel	Used in noncorrosive environments. This carbon- and iron-based metal is hard and strong. It is an economical alternative to stainless steel and brass in high-pressure applications. For use with water, oil, gas, and steam in low- to high-pressure applications where corrosion is not a problem.

 Product application is based not only on material selection but on design of product for intended use. Please contact the factory for selection of the proper fitting for your application.

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Corrosion Resistance of Coupling Material

⚠ WARNING

The following data has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturer regarding particular coupling materials.

Ratings

Metal
1 = Excellent
2 = Good
3 = Fair
X = Not Recommended
- = Contact Factory

Non-Metal
A = Acceptable
X = Not Recommended
- = Contact Factory

Gasket/Seal Material
T = PTFE
V = Viton®
E = EPDM, EPR
N = Neoprene
B = Buna N

1. Ratings given are based at 70°F. Chemical compatibility varies greatly with temperature. For applications at temperatures other than 70°F, contact the Factory for recommendations at 800.355.1991.
2. Gasket / seal materials are not necessarily listed in order of preference.
3. Chemical resistance of a material does not necessarily indicate the suitability of a fitting in a given application due to variables such as improper clamp and coupling application, special hose construction, gasket material, etc.



Special caution should be taken when handling hazardous materials.

Technical Information

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Acetate Solvents (Crude)	1	X	X	1	2	2	1	1	A	X	T
Acetate Solvents (Pure)	1	1	1	1	X	1	1	1	A	X	T
Acetic Acid (80%)	3	X	X	1	X	1	1	1	X	X	TEVNB
Acetic Acid (50%)	2	X	X	1	X	2	2	1	X	X	TEVNB
Acetic Acid (20%)	2	X	X	1	X	2	2	1	X	X	TEVNB
Acetic Acid (10%)	2	X	2	1	X	2	1	1	X	X	TEVNB
Acetic Anhydride	2	X	2	1	2	2	2	2	X	X	TNB
Acetone	1	2	2	1	2	1	1	1	A	X	TE
Acetylene	1	X	X	2	2	2	1	1	X	X	TEVNB
Alcohols											
Amyl Alcohol	2	2	2	2	2	1	2	2	A	A	TEVNB
Benzyl Alcohol	2	2	2	2	2	1	1	1	X	A	TVB
Butyl Alcohol	1	2	1	2	2	1	1	1	A	A	TEVN
Diacetone Alcohol	1	1	2	1	2	1	2	2	X	A	TE
Ethyl Alcohol	1	2	2	1	2	2	2	2	X	A	TEVNB
Hexyl Alcohol	-	-	-	1	-	-	-	-	A	-	-
Isobutyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
Isopropyl Alcohol	2	2	2	2	2	2	2	2	A	A	TEVNB
Methyl Alcohol (Methanol)	2	2	2	1	2	2	2	2	A	A	TENB
Octyl Alcohol	-	-	-	-	-	-	-	-	A	-	-
Propyl Alcohol	2	2	2	1	2	2	1	1	X	A	TEVNB
Aluminum											
Aluminum Chloride (Aqu.)	X	X	X	1	X	X	X	X	A	A	TEVNB
Aluminum Fluoride (Sat.)	2	-	-	-	X	2	X	2	X	A	TEVNB
Aluminum Nitrate (Sat.)	3	X	-	-	X	-	2	2	A	A	TEVNB
Aluminum Potassium Sulfate (Alum)	2	2	2	2	X	2	X	2	X	A	TEVNB
Aluminum Sulfate (Sat.)	X	X	2	2	X	2	-	2	A	A	TEVNB
Ammonia											
Ammonia Anhydrous	1	X	X	2	1	1	2	1	A	X	TENB
Ammonia Gas	X	X	X	1	1	X	1	1	A	X	TENB
Ammonia Nitrate	-	-	-	-	-	-	-	-	X	-	-
Ammonium											
Ammonium Bifluoride	-	X	-	2	X	2	-	-	X	A	TEVB
Ammonium Carbonate (Sat.)	2	X	X	2	2	2	2	2	A	A	TEVNB
Ammonium Casenate	-	-	-	-	-	-	-	-	A	-	-
Ammonium Chloride (Sat.)	X	X	2	2	X	2	X	X	A	A	TEVNB
Ammonium Hydroxide (Sat.)	2	X	X	2	1	X	2	2	A	A	TEVNB
Ammonium Nitrate	2	X	X	-	X	X	-	-	A	A	TENB
Ammonium Phosphate (10-40%)	X	X	X	-	X	2	1	2	A	A	TEVNB
Ammonium Sulfate (10-40%)	X	X	3	2	X	2	X	2	A	A	TEVNB
Aniline	-	X	2	2	X	2	1	1	X	X	TV
Arsenic Acid	X	X	2	2	X	X	2	2	X	A	TEVNB
Asphalt	-	-	-	-	2	-	-	2	X	X	TV
Barium											
Barium Carbonate (Sat.)	X	2	2	2	2	2	2	2	A	A	TEVNB
Barium Chloride (Sat.)	-	2	2	1	-	2	X	-	A	A	TEVNB
Barium Hydroxide (Sat.)	X	2	X	2	2	1	2	2	A	A	TEVNB
Barium Sulfate	2	2	2	-	X	2	2	2	A	A	TEVNB
Barium Sulfide	X	X	X	-	2	X	2	2	A	A	TEVNB
Beer	1	2	2	1	2	1	1	1	A	A	TEVNB
Benzaldehyde	2	2	2	2	X	2	2	2	X	X	TE
Benzene, Benzol	1	2	2	2	2	2	2	2	A	X	TV
Benzine	-	-	-	-	-	-	-	-	A	X	-
Benzoic Acid	2	2	2	-	X	2	2	2	X	X	TVN
Black Liquor	X	X	X	X	-	2	2	2	X	A	TEVNB
Bleach (12.5% Active Chlorine)	X	-	-	1	X	-	-	X	X	A	TEVN
Borax	X	2	2	1	2	1	1	1	X	A	TEVNB
Boric Acid	1	X	2	1	X	2	-	-	X	A	TEVNB
Brine Acid	-	2	2	1	-	-	-	-	X	A	TEVNB
Bromic acid	X	X	X	-	-	X	-	-	X	A	TEVN
Bromine Liquid	2	-	-	-	-	-	X	X	X	X	TV
Butadiene, Butylene	2	2	2	2	2	1	2	2	X	X	TVNB
Butane	2	2	2	2	1	1	2	2	X	X	TV
Butyl Acetate	1	2	2	2	2	2	2	2	A	X	T
Butyric Acid	2	2	X	1	X	2	2	2	A	A	TV

Ratings given are based at 70°F.



AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Calcium											
Calcium Bisulfate	X	-	X	-	X	X	X	2	X	A	T
Calcium Bisulfide	-	-	-	-	-	2	-	2	A	A	TVB
Calcium Bisulfite	X	X	2	2	X	X	-	2	X	A	TVNB
Calcium Bromide	X	2	2	-	X	2	1	X	X	X	T
Calcium Carbonate	X	2	2	2	2	2	1	2	A	A	TEVB
Calcium Chloride (Sat.)	-	2	-	1	2	2	-	-	A	A	TEVNB
Calcium Hydroxide (Sat.)	X	2	X	-	2	2	2	2	A	A	TEVNB
Calcium Hypochlorite (Sat.)	X	X	X	-	X	X	X	2	X	A	TEV
Carbon											
Carbon Bisulfide	1	X	2	2	2	X	2	2	A	X	TV
Carbon Dioxide (Dry)	1	1	2	1	2	1	2	2	A	A	TENB
Carbon Dioxide (Wet)	1	X	-	2	3	-	2	2	X	A	TENB
Carbon Disulfide	1	X	2	2	2	X	2	2	A	X	TV
Carbon Monoxide	1	1	1	1	2	1	1	1	A	A	TEVNB
Carbon Tetrachloride	X	-	1	1	2	1	1	-	A	X	TV
Carbonic Acid	1	2	2	1	2	3	2	2	X	A	TEVNB
Castor Oil	2	2	2	1	2	1	2	2	X	A	TEVNB
Caustic Potash	X	-	-	1	X	-	-	2	A	A	TEVNB
Caustic Soda (see Sodium Hydroxide)											
Cellosolves	2	2	2	2	2	2	2	2	X	A	TE
Chlorine (Liquid)	-	-	-	1	2	2	-	3	X	X	TV
Chloroform	-	-	-	2	X	1	-	-	X	X	TV
Chlorosulfonic Acid	-	X	X	1	2	2	X	X	X	X	T
Clorox (Bleach, 5.5% CL)	X	-	-	-	X	-	-	2	X	-	TEVB
Chromic Acid (50%)	2	X	X	2	X	X	3	-	X	X	TVNB
Citric Acid	3	X	X	1	X	2	-	-	X	A	TEVNB
Coke Oven Gas	2	3	3	-	2	2	2	2	X	X	TEVN
Copper											
Copper Chloride	X	X	X	2	X	X	X	X	A	A	TEVNB
Copper Cyanide	X	X	X	1	-	X	2	2	X	-	TEVNB
Copper Sulfate	X	X	X	1	X	X	-	2	A	A	TEVNB
Cryslc Acid (Conc.)	2	2	X	-	2	3	2	2	X	X	TEV
Cyclohexane	2	2	2	2	2	1	2	2	A	X	TVB
Detergents	2	2	2	1	2	-	1	2	A	A	TEVNB
Dextrose	2	-	-	2	-	2	-	-	A	A	TEVNB
Diesel Fuels	1	1	1	2	2	-	1	1	A	X	TVB
Diethylamine	2	-	X	-	X	1	2	2	X	A	TN
Disodium Phosphate	-	-	-	-	1	-	-	1	A	A	TEV
Ethers	2	2	2	2	2	2	1	1	A	X	TB
Ethyl											
Ethyl Acetate	-	-	2	2	2	2	2	2	A	X	T
Ethyl Chloride	-	-	2	2	2	2	-	1	A	X	TEVB
Ethylene											
Ethylene Chloride	-	-	-	-	2	2	-	-	A	X	TV
Ethylene Dichloride	-	2	X	2	2	1	2	2	A	X	TV
Ethylene Glycol	1	2	2	1	2	2	2	2	A	X	TEVNB
Ethylene Oxide	X	X	X	1	3	2	2	2	X	X	T
Fatty Acids	1	3	3	1	X	2	-	1	A	A	TVNB
Ferric											
Ferric Chloride	X	X	2	2	X	X	X	X	X	A	TEVNB
Ferric Hydroxide	-	-	-	1	-	2	1	1	A	-	TEVNB
Ferric Nitrate (10-50%)	X	X	X	-	X	X	2	2	X	A	TEVNB
Ferric Sulfate	X	X	X	-	X	2	-	-	X	A	TEVNB
Ferrous											
Ferrous Chloride (Sat.)	X	X	2	2	-	X	X	X	X	A	TEVNB
Ferrous Sulfate	2	2	2	2	X	2	2	-	X	A	TEVNB
Fluboric Acid	X	-	-	1	1	2	-	-	X	A	TEVNB
Formaldehyde (50%)	-	2	2	2	X	2	1	1	X	A	TEN
Formic Acid (Anhyd.)	1	X	2	1	X	2	-	-	X	A	TEVN
Freon											
Freon 11	2	2	2	-	X	1	2	2	X	X	TVNB
Freon 12	2	2	2	1	X	2	2	2	X	X	TVNB
Freon 22	2	2	2	2	X	2	2	2	X	X	TN
Fruit Juices	2	2	3	1	X	1	2	2	A	A	TVNB
Fuel Oil	2	2	2	2	2	2	2	2	A	X	TVNB
Furfural	2	2	2	2	2	2	2	2	A	X	TEN

Technical Information

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Gasoline											
Refined Gasoline	2	2	2	2	2	2	2	2	A	X	TVNB
Sour Gasoline	X	2	2	2	2	X	2	2	A	X	TVNB
Gelatin	2	2	2	-	X	2	2	2	A	A	TEVNB
Glucose	2	2	2	-	2	2	2	2	A	A	TEVNB
Glue	2	2	2	1	2	2	-	2	-	A	TEVNB
Glycerine	1	1	2	1	2	1	1	1	A	A	TEVNB
Glycols	2	2	2	-	2	2	2	2	A	A	TEVNB
Green Liquor	-	-	-	-	2	-	-	-	-	A	TEVNB
Heptane	2	2	2	1	2	2	2	2	A	X	TVNB
Hexane	2	2	2	1	2	2	1	1	A	X	TVNB
Hydrobromic Acid (50%)	X	X	X	2	X	X	X	X	X	A	TEV
Hydrobromic Acid (20%)	X	X	X	1	X	X	X	X	X	A	TEV
Hydrochloric Acid (20%)	X	X	X	1	X	3	X	X	X	A	TEVNB
Hydrochloric Acid (38%)	X	X	X	1	X	X	X	X	X	A	TEVNB
Hydrocyanic Acid	2	X	X	2	2	2	2	2	X	A	TEVN
Hydrofluosilicic Acid (10-50%)	X	2	X	2	X	2	X	2	X	-	TEVNB
Hydrogen											
Hydrogen Peroxide (50%)	-	X	X	2	X	2	-	-	X	A	TEV
Hydrogen Sulfide (Aqu.)	-	-	-	2	-	2	X	2	X	A	TE
Hydrogen Chloride (Dry Gas)	X	2	-	1	2	1	-	-	X	A	TEVN
Hydrogen Gas	1	1	1	1	-	1	1	1	X	A	TEVNB
Hypochlorous Acid	X	X	X	2	X	X	X	X	X	X	TEV
Iodine	1	X	X	-	X	1	X	X	X	A	TEV
Isopropyl Ether	-	2	2	-	-	2	1	2	A	X	T
Jet Fuel (JP4, JP5)	2	1	2	1	2	2	2	2	X	X	TV
Kerosene	2	2	2	2	2	2	2	2	X	X	TVNB
Ketones	2	2	2	1	2	2	2	2	A	X	T
Lactic Acid (25%)	3	2	2	1	X	X	-	-	A	A	TEVN
Lactic Acid (80%)	2	2	X	2	X	-	-	-	A	A	TEVN
Lard Oil	2	-	2	1	3	2	2	2	A	A	TVB
Lead											
Lead Acetate	X	X	X	2	X	2	2	2	X	A	TENB
Lead Chloride	X	-	-	2	-	-	2	2	X	-	TVNB
Lead Sulfate	X	-	-	2	X	2	2	2	X	-	TEVNB
Lime Sulphur	X	X	X	-	X	2	2	2	X	A	TEVN
Linoleic Acid	2	X	3	2	X	2	2	2	X	A	TVB
Linseed Oil	2	2	2	2	2	2	2	2	A	A	TVNB
Lubricants (Oil)	2	1	-	-	2	2	2	2	A	X	TVNB
Magnesium											
Magnesium Carbonate	2	-	-	-	-	2	2	2	X	A	TEVNB
Magnesium Chloride	X	X	2	1	-	-	-	-	X	A	TEVNB
Magnesium Hydroxide	2	2	2	1	2	2	1	1	X	A	TEVNB
Magnesium Nitrate	2	2	2	1	2	2	2	2	X	A	TEVNB
Magnesium Oxide	-	-	-	-	-	-	-	-	X	-	-
Magnesium Sulfate	2	-	2	-	-	1	2	2	X	A	TEVNB
Maleic Acid	-	2	3	2	X	-	-	2	X	A	TEV
Mercuric											
Mercuric Chloride	X	X	X	-	X	X	X	-	X	A	TEVB
Mercuric Cyanide	X	X	X	2	X	2	2	2	X	A	TEVB
Mercury	X	X	X	1	2	-	1	1	A	A	TEVNB
Methane	1	1	2	1	2	1	1	1	A	X	TEVNB
Methanol	2	2	2	1	2	2	2	2	A	A	TENB
Methyl											
Methyl Bromide	X	-	-	-	2	-	2	2	X	X	TV
Methyl Ethyl Ketone	2	2	2	2	2	2	2	2	A	X	TE
Methyl Isobutyl Ketone	2	2	2	2	2	2	2	2	A	X	T
Methyl Methacrylate	2	-	-	-	X	-	2	2	X	A	T
Methylene Chloride	-	2	2	X	2	-	-	-	A	X	T
Milk	1	X	X	1	2	X	1	1	A	A	TEVNB
Mineral Oil	2	1	-	-	2	1	1	2	A	A	TVNB
Muriatic Acid	X	-	-	1	-	X	X	X	X	A	TV
Napthalene	2	2	2	2	2	2	1	1	A	A	TV
Naptha	2	2	2	2	2	2	2	2	A	X	TVB

Ratings given are based at 70°F.



Technical Information

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel,304	Stainless Steel,316	Nylon	Polypropylene	Seal Material
Nickel											
Nickel Chloride	X	X	X	-	X	2	-	-	X	A	TEVNB
Nickel Sulfate	X	X	-	2	-	-	2	2	X	A	TEVNB
Nitric											
Nitric Acid (100%)	1	X	X	2	X	X	2	-	X	X	TV
Nitric Acid (50%)	X	X	X	1	X	X	2	-	X	X	TV
Nitric Acid (30%)	X	X	X	1	X	X	1	-	X	X	TV
Nitrobenzene	1	2	2	-	2	2	2	2	A	A	T
Oils											
Castor Oil	2	2	2	1	2	1	2	2	A	A	TEVNB
Coconut Oil	2	-	2	-	3	2	2	2	A	A	TVB
Corn Oil	2	2	2	-	2	2	-	2	A	A	TVNB
Cotton Seed Oil	2	2	2	-	2	1	2	2	A	A	TVNB
Fuel Oil	2	2	2	2	2	2	2	2	A	X	TVNB
Linseed Oil	2	2	2	2	2	2	2	2	A	A	TVNB
Mineral Oil	2	1	-	-	2	1	1	2	A	A	TVNB
Silicon Oil	2	1	2	-	2	-	2	2	A	A	TEVB
Vegetable Oil	2	2	2	1	2	1	1	1	A	X	TVNB
Oleic Acid	2	3	2	2	2	1	-	1	A	X	TB
Oleum	2	X	X	-	2	X	2	2	X	X	TV
Oxalic Acid (Sat.)	2	-	2	2	X	2	X	X	X	A	TEV
Oxygen	2	2	2	-	2	2	2	2	X	X	TEVNB
Palmitic Acid (Sat.)	2	3	2	-	3	2	2	2	X	A	TVB
Paraffin	2	2	2	2	2	2	2	2	A	A	TVNB
Perchloroethylene	2	2	2	2	2	1	-	-	X	X	TV
Petrolatum	2	-	2	-	3	2	2	2	A	-	TVNB
Phenol (Carbolic Acid)	1	1	X	1	2	1	-	1	X	X	TV
Phosphoric Acid											
Phosphoric Acid (25-50%)	X	X	2	1	X	X	-	-	X	A	TEVN
Phosphoric Acid (50-85%)	X	X	X	1	X	3	-	-	X	A	TEV
Photographic Solutions											
Phthalic Anhydride	-	2	2	1	2	1	1	1	X	X	TEV
Picric Acid	1	X	X	2	X	X	2	2	X	-	TEVNB
Plating Solutions											
Brass Plating Solution	-	-	-	1	-	-	-	2	X	A	TEVNB
Cadmium Plating Solution	-	-	-	1	-	-	-	2	X	A	TEVNB
Chrome 40% Plating Solution	X	2	2	1	X	X	2	2	X	A	TEVN
Copper (Cyanide) Plating Solution	-	-	-	1	-	-	-	-	X	A	TEVNB
Gold Plating Solution	-	-	-	1	-	-	-	1	X	A	TEVNB
Iron Plating Solution	-	-	-	-	-	-	-	-	X	A	TEVB
Lead Plating Solution	-	-	-	-	-	-	1	1	X	A	TEVNB
Nickel Plating Solution	-	-	-	1	-	-	1	1	X	A	TEVNB
Silver Plating Solution	-	-	-	1	-	-	1	1	X	A	TEVNB
Tin Plating Solution	-	-	-	1	-	-	-	3	X	A	TEVNB
Zinc Plating Solution	-	-	-	1	-	-	-	-	X	A	TEVNB
Potassium											
Potassium Acetate	X	X	X	-	2	-	-	-	A	A	TEVB
Potassium Bicarbonate (30%)	X	2	-	2	2	2	1	1	A	A	TEVNB
Potassium Carbonate (50%)	X	2	X	2	2	2	1	1	A	A	TEVNB
Potassium Chlorate (30%)	2	X	X	-	2	2	2	1	X	A	TEVNB
Potassium Chloride (30%)	X	X	2	-	2	1	-	-	A	A	TEVNB
Potassium Chromate (30%)	2	2	2	2	-	2	2	2	X	A	TEVB
Potassium Cyanide Solution (30%)	X	X	X	2	2	2	2	2	X	A	TEVNB
Potassium Dichromate (30%)	1	2	2	2	2	2	1	1	X	A	TEVB
Potassium Hydroxide (90%)	X	X	X	2	-	2	X	-	X	A	TENB
Potassium Nitrate (80%)	1	2	2	2	2	2	2	2	X	A	TEVNB
Potassium Permanganate (20%)	2	2	2	1	2	2	2	2	X	A	TEVN
Potassium Sulfate (10%)	1	2	2	1	2	1	1	1	A	A	TEVNB
Propane											
Propane	1	1	1	2	2	1	2	2	X	X	TVB
Propylene Glycol											
Propylene Glycol	2	2	2	2	2	2	2	2	A	A	TVNB
Propylene Oxide (90%)											
Propylene Oxide (90%)	-	-	-	-	-	-	1	1	X	X	TE
Pyridine											
Pyridine	2	2	2	-	2	2	2	2	A	X	T
Pyrogalllic Acid											
Pyrogalllic Acid	2	2	2	2	2	2	2	2	X	X	TVNB
Silver Nitrate											
Silver Nitrate	X	X	X	-	X	X	2	1	X	A	TEVNB
Soap Solutions											
Soap Solutions	2	2	2	1	2	2	2	2	A	A	TEVNB

Ratings given are based at 70°F.

Technical Information

AGENT	Aluminum	Brass	Bronze	Hastelloy, C-276	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Seal Material
Sodium											
Sodium Acetate	1	2	2	-	X	2	2	2	A	A	TEN
Sodium Bicarbonate (20%)	2	2	2	1	3	1	1	1	A	A	TEVNB
Sodium Bisulfate	X	-	2	2	2	-	-	-	A	A	TEVNB
Sodium Bisulfite	X	2	X	2	X	-	-	-	A	A	TEVNB
Sodium Borate	2	2	2	2	3	2	2	2	A	A	TEVNB
Sodium Perborate (10%)	2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Carbonate	X	2	-	2	2	1	-	2	A	A	TEVNB
Sodium Chlorate (50%)	2	2	2	1	X	1	2	2	X	A	TEVNB
Sodium Cyanide	X	X	X	2	2	X	-	-	A	A	TEVNB
Sodium Dichromate	2	X	X	1	2	-	2	2	X	A	TE
Sodium Hydroxide (70%)	X	X	X	1	3	1	2	2	X	A	TENB
Sodium Hydroxide (50%)	X	X	3	1	3	1	1	-	X	A	TENB
Sodium Hydroxide (30%)	X	2	3	2	2	1	1	1	X	A	TENB
Sodium Chloride (30%)	X	2	2	2	2	1	-	-	X	A	TEVNB
Sodium Hypochlorite	X	X	X	-	X	X	-	-	X	A	TEV
Sodium Metaphosphate	X	X	2	-	X	2	2	2	X	X	TEVNB
Sodium Nitrate (40%)	1	2	-	-	2	2	1	1	A	A	TENB
Sodium Perborate (10%)	2	X	2	2	2	2	2	2	X	A	TEVNB
Sodium Peroxide (10%)	2	X	X	2	2	2	2	2	X	A	TEVNB
Sodium Silicate	1	2	2	2	2	2	2	2	A	A	TEVNB
Sodium Sulfate	-	2	2	2	2	-	-	1	A	A	TEVNB
Sodium Sulfide (50%)	X	X	X	2	2	2	-	2	X	A	TEVNB
Sodium Thiosulphate	2	X	X	2	X	2	2	2	A	A	TEVNB
Stannic Chloride	X	X	X	-	X	X	X	X	X	A	TEVNB
Stannous Chloride	X	X	X	2	X	-	X	-	X	X	TEVNB
Steam	-	-	-	-	-	-	-	-	X	-	-
Stearic Acid	2	3	2	1	3	3	2	1	A	A	TVNB
Stoddard's Solvent	2	2	2	1	2	2	2	2	X	A	TVB
Sugar Liquors (Cane)	1	2	1	-	2	2	2	2	A	A	TEVNB
Sugar Liquors (Beet)	1	2	1	-	2	1	1	1	A	A	TEVNB
Sulfate Liquors	2	X	X	2	3	2	-	2	X	A	TVNB
Sulfite Liquors	X	X	-	1	X	X	2	2	X	X	TVNB
Sulfur Chloride	X	-	X	2	X	X	-	-	X	X	TV
Sulfur Dioxide (Dry)	2	2	2	2	1	2	-	2	X	A	TE
Sulfur Trioxide	2	2	X	2	2	2	-	2	X	X	TEV
Sulfuric Acid (TO 10%)	X	2	X	1	X	X	X	X	X	A	TEVNB
Sulfuric Acid (100%)	X	X	X	1	2	X	-	-	X	X	TV
Sulfurous Acid	2	2	X	-	X	X	X	-	X	A	TV
Tannic Acid	X	-	X	-	X	2	2	2	X	A	TEVNB
Tanning Liquors	1	-	2	1	-	-	1	1	X	A	TVNB
Tartaric Acid	-	-	2	2	-	-	1	1	A	A	TVNB
Titanium Tetrachloride	X	X	X	2	2	2	-	2	X	X	TV
Toluene	1	1	1	1	1	1	1	1	A	X	TVB
Tetrahydrofuran	X	-	2	1	1	-	1	2	A	X	T
Tomato Juice	2	-	3	2	3	2	2	2	X	A	TEVNB
Trichloroethylene	1	-	2	1	2	-	-	-	A	X	TV
Triethanolamine	2	X	2	2	2	2	2	2	A	X	TEVN
Triethylamine	-	-	-	-	-	2	2	2	A	X	TVB
Trisodium Phosphate (10%)	X	2	-	1	2	2	1	1	A	A	TVNB
Turpentine	2	X	2	2	2	1	1	1	X	X	TVB
Urea (50%)	2	-	2	-	2	2	2	2	A	A	TEVNB
Urine	-	-	-	-	2	-	1	1	X	A	TEVNB
Vinegar	2	X	2	2	2	2	2	2	X	A	TEVN
Water Acid (Mine)	X	X	X	1	X	-	-	-	X	A	TEVNB
Water (Distilled)	X	2	2	1	X	X	2	2	A	A	TEVNB
Water (Sea)	2	2	2	1	X	2	2	2	A	A	TEVNB
Whiskey	X	2	2	1	2	2	1	1	X	A	TEVNB
White Liquor (Pulp)	2	-	X	2	X	X	2	2	X	A	TEVNB
Wine	X	2	2	1	X	2	1	1	X	A	TEVNB
Xylene	2	2	2	1	2	2	2	2	A	X	TV
Zinc											
Zinc Chloride	X	X	X	2	X	-	X	2	A	A	TEVNB
Zinc Nitrate	-	-	-	-	-	-	2	2	X	A	TEVNB
Zinc Sulfate (50%)	X	2	2	2	X	2	1	1	X	A	TEVNB

Ratings given are based at 70°F.

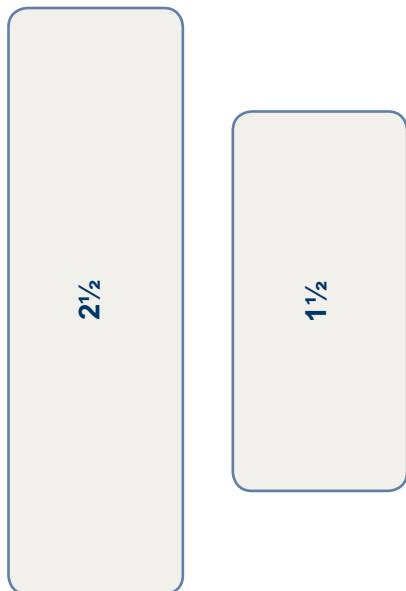


Fittings Size Chart

Male NPT Thread Sizes



Male NST Thread Sizes



Temperature Conversions

Look up reading in middle column (shaded). If in degrees Centigrade, read Fahrenheit equivalent in right-hand column; if in degrees Fahrenheit, read Centigrade equivalent in left-hand column.

°C	°F	°C	°F	°C	°F	°C	°F	
-73	-100	-148	5.0	41	105.8	33.3	92	197.6
-68	-90	-130	5.6	42	107.6	33.9	93	199.4
-62	-80	-112	6.1	43	109.4	34.4	94	201.2
-57	-70	-94	6.7	44	111.2	35.0	95	203.0
-51	-60	-76	.72	45	113.0	35.6	96	204.8
-46	-50	-58	7.8	46	114.8	36.1	97	206.6
-40	-40	-40	8.3	47	116.6	36.7	98	208.4
-34	-30	-22	8.9	48	118.4	37.2	99	210.2
-29	-20	-4	9.4	49	120.2	37.8	100	212.0
-23	-10	14	10.0	50	122.0			
-17.8	0	32	10.6	51	123.8	43	110	230
-17.2	1	33.8	11.1	52	125.6	49	120	248
-16.7	2	35.6	11.7	53	127.4	54	130	266
-16.1	3	37.4	12.2	54	129.2	60	140	284
-15.6	4	39.2	12.8	55	131.0	66	150	302
-15.0	5	41.0	13.3	56	132.8	71	160	320
-14.4	6	42.8	13.9	57	134.6	77	170	338
-13.9	7	44.6	14.4	58	136.4	82	180	356
-13.3	8	46.4	15.0	59	138.2	88	190	374
-12.8	9	48.2	15.6	60	140.0	93	200	392
-12.2	10	50.0	16.1	61	141.8	99	210	410
-11.7	11	51.8	16.7	62	143.6	100	212	413.6
-11.1	12	53.6	17.2	63	145.4	104	220	428
-10.6	13	55.4	17.8	64	147.2	110	230	446
-10.0	14	57.2	18.3	65	149.0	116	240	464
-9.4	15	59.0	18.9	66	150.8	121	250	482
-8.9	16	60.8	19.4	67	152.6	127	260	500
-8.3	17	62.6	20.0	68	154.4	132	270	518
-7.8	18	64.4	20.6	69	156.2	138	280	536
-7.2	19	66.2	21.1	70	158.0	143	290	554
-6.7	20	68.0	21.7	71	159.8	149	300	572
-6.1	21	69.8	22.2	72	161.6	154	310	590
-5.6	22	71.6	22.8	73	163.4	160	320	608
-5.0	23	73.4	23.3	74	165.2	166	320	626
-4.4	24	75.2	23.9	75	167.0	170	338	640
-3.9	25	77.0	24.4	76	168.8	171	340	644
-3.3	26	78.8	25.0	77	170.6	177	350	662
-2.8	27	80.6	25.6	78	172.4	182	360	680
-2.2	28	82.4	26.1	79	174.2	186	366	691
-1.7	29	84.2	26.7	80	176.0	188	370	698
-1.1	30	86.0	27.2	81	177.8	193	380	716
-.6	31	87.8	27.8	82	179.6	198	388	730
0	32	89.6	28.3	83	181.4	199	390	734
.6	33	91.4	28.9	84	183.2	204	400	752
1.1	34	93.2	29.4	85	185.0	208	406	763
1.7	35	95.0	30.0	86	186.8	210	410	770
2.2	36	96.8	30.6	87	188.6	216	420	788
2.8	37	98.6	31.1	88	190.4	221	430	806
3.3	38	100.4	31.7	89	192.2	227	440	824
3.9	39	102.2	32.2	90	194.0	232	450	842
4.4	40	104.0	32.8	91	195.8			

Steam Temperature - Pressure Conversion Guide

Temperature - Pressure Equivalents of Saturated Steam Gauge Pressure at Sea Level

• Degrees Celsius = 5/9 (Degrees F - 32)

Temperature		Lbs. per Sq. Inch	Temperature		Lbs. per Sq. Inch	Temperature		Lbs. per Sq. Inch
°F	°C		°F	°C		°F	°C	
212	100.0	0.0	286	141.1	39.4	336	168.9	97.1
214	101.1	0.6	287	141.7	40.3	337	169.4	98.7
216	102.2	1.2	288	142.2	41.1	338	170.0	100.2
218	103.3	1.8	289	142.8	42.0	339	170.6	101.8
220	104.4	2.5	290	143.3	42.9	340	171.1	103.3
222	105.6	3.2	291	143.9	43.8	341	171.7	105.0
224	106.7	3.9	292	144.4	44.7	342	172.2	106.5
226	107.8	4.6	293	145.0	45.6	343	172.8	108.2
228	108.9	5.3	294	145.6	46.5	344	173.3	109.8
230	110.0	6.1	295	146.1	47.5	345	173.9	111.5
232	111.1	6.9	296	146.7	48.4	346	174.4	113.1
234	112.2	7.7	297	147.2	49.4	347	175.0	114.8
236	113.3	8.5	298	147.8	50.3	348	175.6	116.5
238	114.4	9.4	299	148.3	51.3	349	176.1	118.2
240	115.6	10.3	300	148.9	52.3	350	176.7	119.9
242	116.7	11.2	301	149.4	53.4	352	177.8	123.5
244	117.8	12.1	302	150.0	54.4	354	178.9	127.1
246	118.9	13.1	303	150.6	55.4	356	180.0	130.8
248	120.0	14.1	304	151.1	56.4	358	181.1	134.5
250	121.1	15.1	305	151.7	57.5	360	182.2	138.3
252	122.2	16.2	306	152.2	58.6	362	183.3	142.3
254	123.3	17.3	307	152.8	59.7	364	184.4	146.2
256	124.4	18.4	308	153.3	60.7	366	185.6	150.3
258	125.6	19.6	309	153.9	61.9	368	186.7	154.4
260	126.7	20.7	310	154.4	63.0	370	187.8	158.7
261	127.2	21.4	311	155.0	64.2	372	188.9	163.0
262	127.8	22.0	312	155.6	65.3	374	190.0	167.4
263	128.3	22.6	313	156.1	66.5	376	191.1	171.9
264	128.9	23.2	314	156.7	67.6	378	192.2	176.4
265	129.4	23.9	315	157.2	68.8	380	193.3	181.1
266	130.0	24.5	316	157.8	70.0	382	194.4	185.8
267	130.6	25.2	317	158.3	71.3	384	195.6	190.6
268	131.1	25.8	318	158.9	72.5	386	196.7	195.6
269	131.7	26.5	319	159.4	73.7	388	197.8	200.6
270	132.2	27.2	320	160.0	75.0	390	198.9	205.7
271	132.8	27.9	321	160.6	76.3	392	200.0	210.9
272	133.3	28.6	322	161.1	77.5	394	201.1	216.2
273	133.9	29.3	323	161.7	78.8	396	202.2	221.5
274	134.4	30.0	324	162.2	80.1	398	203.3	227.0
275	135.0	30.8	325	162.8	81.5	400	204.4	232.6
276	135.6	31.5	326	163.3	82.8	402	205.5	238.0
277	136.1	32.3	327	163.9	84.2	404	206.7	244.0
278	136.7	33.0	328	164.4	85.6	406	207.8	250.0
279	137.2	33.8	329	165.0	87.0	408	208.9	256.0
280	137.8	34.5	330	165.6	88.4	410	210.0	262.0
281	138.3	35.3	331	166.1	89.8	412	211.1	268.0
282	138.9	36.1	332	166.7	91.2	414	212.2	275.0
283	139.4	36.9	333	167.2	92.7	416	213.3	281.0
284	140.0	37.7	334	167.8	94.1	418	214.4	288.0
285	140.6	38.6	335	168.3	95.6	420	215.6	294.0



Pressure Conversions

100 PSI = 6.9 Bars
 250 PSI = 17.25 Bars
 600 PSI = 41.4 Bars

5 Bars = 72.5 PSI
 10 Bars = 145 PSI
 25 Bars = 362.5 PSI

Measurement Information

Measures of Pressure

1 Pound Per Square Inch = 144 Pounds Per Square Foot = 0.068 Atmosphere = 2.042 Inches of Mercury at 62°F = 27.7 Inches of Water at 62°F = 2.31 Feet of Water at 62°F.

1 Atmosphere = 30 Inches of Mercury at 62°F = 14.7 Pounds Per Square Inch = 2116.3 Pounds Per Square Foot = 33.95 Feet of Water at 62°F.

1 Foot of Water at 62°F = 62.355 Pounds Per Square Foot = 0.433 Pounds Per Square Inch.

1 Inch of Mercury at 62°F = 1.132 Feet of Water = 13.58 Inches of Water = 0.491 Pounds Per Square Inch.

Column of Water 12 Inches High, 1 Inch in Diameter = .341 Pounds

If temperature is kept constant, the volume of a given mass of gas is inversely proportional to the pressure which is exerted upon it.

Length Conversion Constants

Millimeters x .039370 = Inches
 Meters x 39.370 = Inches
 Meters x 3.2808 = Feet
 Meters x 1.09361 = Yards
 Kilometers x 3,280.8 = Feet
 Kilometers x .62137 = Statute Mile
 Kilometers x .53959 = Nautical Miles

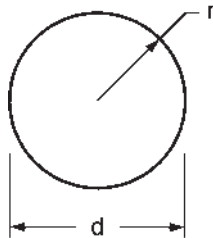
Inches x 25.4001 = Millimeters
 Inches x .0254 = Meters
 Feet x .30480 = Meters
 Yards x .91440 = Meters
 Feet x .0003048 = Kilometers
 Statute Miles x 1.60935 = Kilometers
 Nautical Miles x 1.85325 = Kilometers

Weight Conversion Constants

Grams x .03527 = Ounces (Avd.)
 Grams x .033818 = Fluid Ounces (Water)
 Kilograms x 35.27 = Ounces (Avd.)
 Kilograms x 2.20462 = Pounds (Avd.)

Ounces (Avd.) x 28.35 = Grams
 Fluid Ounces (Water) x 29.57 = Grams
 Ounces (Avd.) x .02835 = Kilograms
 Pounds (Avd.) x .45359 = Kilograms

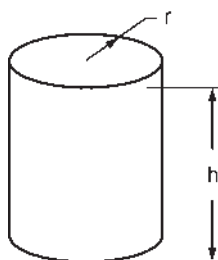
Circumference of a Circle



$$\text{Circumference} = 2\pi r = \pi d = 3.14159 d$$

$$\text{Area} = \pi r^2 = \pi \frac{d^2}{4} = .78539 d^2$$

Right Cylinder



r = radius
 h = length

$$\text{Volume} = \pi r^2 h$$

$$\text{Surface Area} = 2\pi r (r + h)$$

If end planes are parallel but not at 90° to h, the same formulas apply, but a slice at 90° through the cylinder must be used to determine r.

Bolt Tightening Sequence for Dixon Boss Clamps

1. The correct size Boss clamp must be used.
2. Bolts in Boss clamps are designed to bend as they are tightened. This allows the clamp to conform to the hose outside diameter.
3. Always tighten bolts to their specified torque value. This torque value can be found on the pages 99-100.
4. Periodic re-tightening of bolts is required due to "cold flow" phenomenon present in all rubber hoses.
5. Boss Clamps are for single use only! Once removed they are to be discarded.

2 Bolt Dixon Boss Clamp Bolt Tightening Sequence

Using a torque wrench, begin tightening the bolts as follows:

- a) First bolt (nut facing assembler) 1 full turn.
- b) Second bolt (opposite first bolt) 1 full turn.
- c) Repeat procedure "a" and "b" until both bolts have reached the recommended torque.
- d) Remove assembly from vise.

4 Bolt Dixon Boss Clamp Bolt Tightening Sequence

Using a torque wrench, begin tightening the bolts as follows:

- a) Back bolt (bolt with nut facing assembler that is furthest away from gripping finger) 1 full turn.
- b) Front bolt (bolt with nut facing assembler that is closest to gripping finger) 1 full turn.
- c) Snug by hand (if bolts are loose) nuts on opposite side of bolts just torqued.
- d) Opposite side back bolt (bolt with nut facing assembler furthest away from gripping finger) 1 full turn.
- e) Opposite side front bolt (bolt with nut facing assembler closest to gripping finger) 1 full turn.
- f) Snug by hand (if bolts are loose) nuts on opposite side of bolts just torqued.
- g) Repeat above procedure "a" through "f" until all of the bolts have reached the recommended torque.
- h) Remove assembly from vise.

6 Bolt Dixon Boss Clamp Bolt Tightening Sequence

Using a torque wrench, begin tightening the bolts as follows:

- a) Back bolt (bolt with nut facing assembler that is furthest away from gripping finger) having "X" near it one full turn.
- b) Front bolt (bolt with nut facing assembler that is closest to gripping finger) of same segment one full turn.
- c) Moving to clamp segment to the left of the one just tightened, snug bolts by hand (if bolts are loose).
- d) Back bolt to one full turn.
- e) Front bolt one full turn.
- f) Moving to clamp segment to the left of the one just tightened, snug bolts by hand (if bolts are loose).
- g) Back bolt one full turn.
- h) Front bolt one full turn.
- i) Repeat above procedure "a" through "h" until all of the bolts have reached the recommended torque.
- j) Remove assembly from vise.

Fraction - Decimal Conversion Chart

	<u>Inches</u>	<u>Millimeters</u>		<u>Inches</u>	<u>Millimeters</u>
$\frac{1}{32}$	$\frac{1}{64}$.015625	.3969	$\frac{17}{32}$	$\frac{33}{64}$.515625	13.0969
$\frac{1}{16}$	$\frac{3}{64}$.046875	1.1906	$\frac{9}{16}$	$\frac{35}{64}$.546875	13.8907
$\frac{3}{32}$	$\frac{5}{64}$.078125	1.9844	$\frac{19}{32}$	$\frac{37}{64}$.578125	14.6844
$\frac{1}{8}$	$\frac{7}{64}$.109375	2.7781	$\frac{5}{8}$	$\frac{39}{64}$.609375	15.4782
$\frac{5}{32}$	$\frac{9}{64}$.140625	3.5719	$\frac{21}{32}$	$\frac{41}{64}$.640625	16.2719
$\frac{3}{16}$	$\frac{11}{64}$.171875	4.3656	$\frac{11}{16}$	$\frac{43}{64}$.671875	17.0657
$\frac{7}{32}$	$\frac{13}{64}$.203125	5.1594	$\frac{23}{32}$	$\frac{45}{64}$.703125	17.8594
$\frac{1}{4}$	$\frac{15}{64}$.234375	5.9531	$\frac{3}{4}$	$\frac{47}{64}$.734375	18.6532
$\frac{9}{32}$	$\frac{17}{64}$.265625	6.7469	$\frac{25}{32}$	$\frac{49}{64}$.765625	19.4470
$\frac{5}{16}$	$\frac{19}{64}$.296875	7.5406	$\frac{13}{16}$	$\frac{51}{64}$.796875	20.2407
$\frac{11}{32}$	$\frac{21}{64}$.328125	8.3344	$\frac{27}{32}$	$\frac{53}{64}$.828125	21.0345
$\frac{3}{8}$	$\frac{23}{64}$.359375	9.1282	$\frac{7}{8}$	$\frac{55}{64}$.859375	21.8282
$\frac{13}{32}$	$\frac{25}{64}$.390625	9.9219	$\frac{29}{32}$	$\frac{57}{64}$.890625	22.6220
$\frac{7}{16}$	$\frac{27}{64}$.421875	10.7157	$\frac{15}{16}$	$\frac{59}{64}$.921875	23.4157
$\frac{15}{32}$	$\frac{29}{64}$.453125	11.5094	$\frac{31}{32}$	$\frac{61}{64}$.953125	24.2095
$\frac{1}{2}$	$\frac{31}{64}$.484375	12.3032	$\frac{1}{1}$	$\frac{63}{64}$.984375	25.0032
		12.7001			25.4001

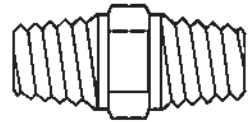
Identifying Threads

Pipe Threads

Pipe threads are either tapered or straight (parallel). The two styles may or may not be compatible. Refer to thread information chart on page 706.

Tapered threads

Tapered threads are the most common type of thread available. As the name implies, they have a slight taper. When mated together and tightened, the threads compress and may form a seal. Usually a thread sealant is required. The mating threads both hold the fitting in place and seal the connection. The most widely used pipe threads in North America are NPT (National Pipe Taper). Some confusion may result from the use of NPT, FPT, and MPT in describing threads. Both FPT and MPT are NPT threads, with FPT meaning female threads (internal) and MPT meaning male threads (external).

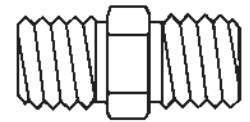


tapered threads

NPTF (Dryseal) threads are modified NPT threads, which are less likely to leak without a sealant. For a leak-free seal, we recommend using a sealant compound or PTFE tape. You can use NPTF threads with NPT threads, but you'll lose some of the leak-free characteristics.

Straight threads

Straight (parallel) threads are used for mechanical joining. They serve one purpose - to hold a fitting in place. As a result, an O-ring (elastomer), hard metal seal or a soft seat seal is required. Straight pipe threads include NPSM (National Pipe Straight Mechanical), and NPSH (National Pipe Straight Hose) Sizing and pitches may differ from the NPT threads



straight threads

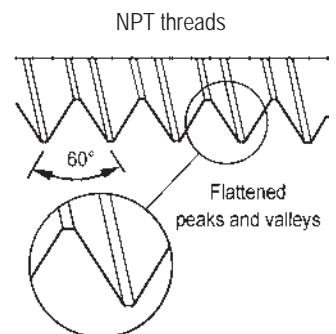
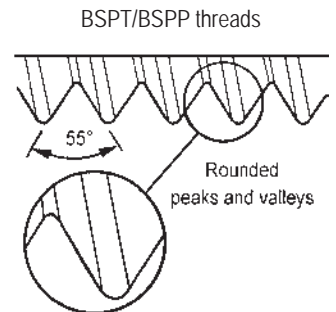
Less common straight threads are GHT (Garden Hose) and NST (fire hose coupling).

NPT vs. BSP (British Standard Pipe)

BSP threads are common in many countries outside the United States. BSP consists of two types of threads - BSPT (British Standard Pipe Taper) and BSPP (British Standard Pipe Parallel).

BSPT threads have a slight taper similar to NPT. BSPP threads are straight (parallel) threads and have the same thread angle, shape and threads per inch (pitch) as BSPT threads. *BSPT and BSPP threads should not be substituted for NPT threads.*

NPT and BSPT/BSPP threads have different angles, shape, and (in most cases) threads per inch (pitch). The thread angle is 60° for NPT threads; 55° for BSPT/BSPP threads. NPT threads are flattened at the peaks and valleys, while BSPT/BSPP threads are rounded.



Nominal Pipe Size	Threads per inch	
	NPT	BSPT / BSPP
1/16"	27	---
1/8"	27	28
1/4"	18	19
3/8"	18	19
1/2"	14	14
3/4"	14	14
1"	11½	11
1-1/4"	11½	11
1-1/2"	11½	11
2"	11½	11
2-1/2"	8	11
3"	8	11
3-1/2"	8	11
4"	8	11
5"	8	11
6"	8	11
8"	8	11

Identifying Threads

It is important to identify the threads required before ordering couplings.

Identifying threads can sometimes be the most difficult and frustrating part of coupling selection. However, without the right combination of threads, you may not provide a functional or safe connection.

The diameters, threads per inch (TPI) and thread pitch, etc. are necessary to completely identify a thread. Ring, plug and GO/NOGO gauges are required to accurately gauge or identify threads. In the field, in the absence of these gauges, thread leaf gauges can be used to identify the Threads Per Inch (TPI) and the thread pitch. On threads you have determined to be straight threads, a caliper can be used to measure the Outside Diameter of the male (ODM) or the Inside Diameter of the female (IDF). A caliper can also be used to take measurements of tapered thread diameters. However, these are more difficult to define because of the taper. Fortunately, there are few tapered threads to deal with and these can usually be identified from the nominal ODM and the TPI.

However, identifying the thread may not fully identify what is needed in a mating fitting. The application is the primary *limiting factor on the thread type used*. Dixon offers products with a wide variety of threads used with hose, pipe and hydraulics.

When attempting to choose a fitting, it is always advisable to first identify the thread to which it must connect. This may entail checking with a fitting or equipment manufacturer.

The fire hose thread specifications for some local municipal fire equipment and hydrants may vary according to local specifications. These can generally be most easily identified by contacting the local fire department responsible for the hydrant. The most common thread used on fire equipment is National Standard Thread (NST), also known as National Hose thread (NH).

When it is not possible to identify the thread:

1. Determine the number of threads per inch by measuring the distance from peak of thread to peak of thread across the largest number of whole threads. Then divide the number of threads by the measurement (this will provide the TPI).

2. Check to see if the thread is straight or tapered.

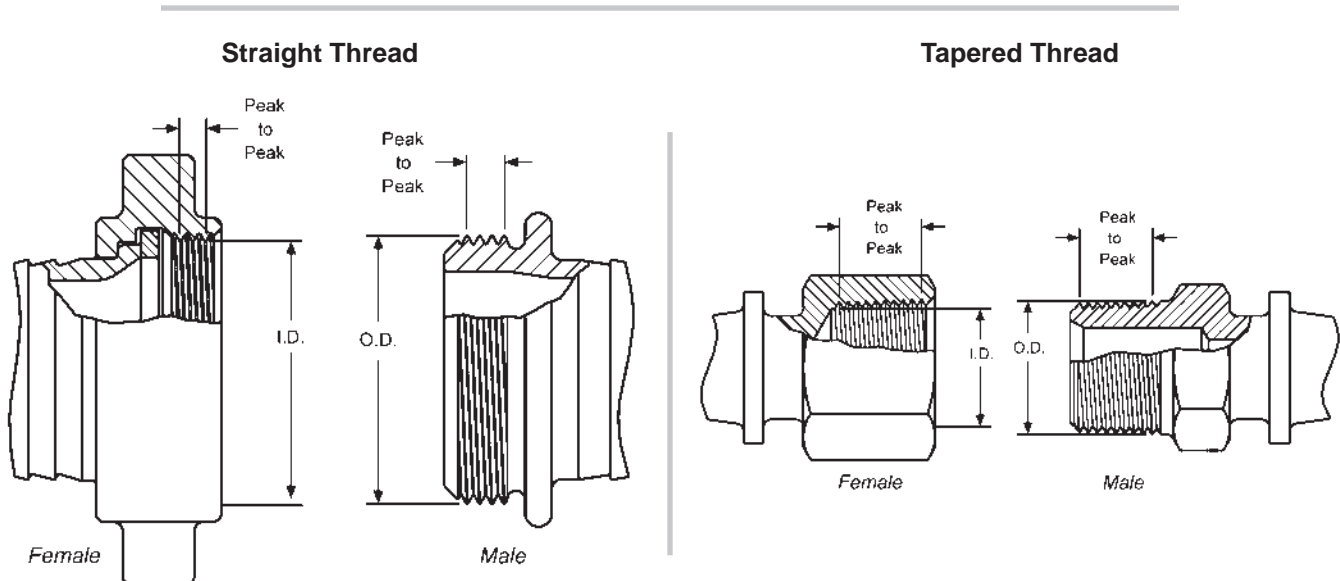
a) Straight Threads

Measure the Outside Diameter of the Male (ODM) or the Inside Diameter of the Female (IDF), from peak of thread to peak of thread.

b) Tapered Threads

Measure the Outside Diameter of the Male (ODM) at the large end and the small end, or the Inside Diameter of the Female (IDF) at the large end and the small end, from peak of thread to peak of thread. Then measure the Outside Diameter (OD) of the unthreaded pipe.

Once the application and these two pieces of information have been determined, the thread can generally be determined. When in doubt, call the Factory at 800.355.1991.



Threading Information

Abbreviation	System Name	Compatibility	Seal Method
BSPP	British Standard Pipe Parallel	male BSPP with female BSPP	washer
		female BSPP with male BSPP	washer
		female BSPP with male BSPT	washer
BSPTTr	British Standard Pipe Taper	male BSPTTr with female BSPTTr	thread
		male BSPTTr with female BSPP	washer
		female BSPTTr with male BSPTTr	
		<i>female BSPTTr not compatible with male BSPP</i>	thread
CHT	American Standard Fire Hose Thread (1" National Hose Thread is C hemical H ose T hread, also known as B ooster H ose T hread)	1" male NH (NST) with 1" female NH (NST)	washer
		1" female NH (NST) with 1" male NH (NST)	washer
		1" thread is used on both ¾" hose & 1" hose	not compatible
GHT	Garden Hose Thread	male GHT with female GHT	washer
		female GHT with male GHT	washer
		thread is same for all size hose	not compatible
IPS	Iron Pipe Straight Thread	generic name for Straight Pipe Thread <i>see NPSH for compatibility</i>	washer
IPT	Iron Pipe Thread	generic name for All Pipe Thread	more information required
JIC	Joint Industrial Committee	used with other mating JIC threads	mechanical
NH or NST	American Standard Fire Hose Coupling Thread (N ational H ose thread also known as N ational S tandard T hread)	male NH (NST) with female NH (NST)	washer
		female NH (NST) with male NH (NST) thread pitch and diameters of fire threads may vary according to local and municipal regulations <i>not compatible with other systems</i>	washer
NPT	American Standard Taper Pipe Thread (N ational P ipe T apered)	male NPT with female NPT	thread
		male NPT with female NPTF	thread
		male NPT with female NPSM	washer
		male NPT with female NPSH	washer
		female NPT with male NPT	thread
		female NPT with male NPTF <i>female NPT not compatible with male NPSM or male NPSH</i>	thread
NPTF	American Standard Taper Pipe Fuel Dryseal Thread (N ational P ipe T apered D ryseal)	male NPTF with female NPTF	thread
		male NPTF with female NPT	thread
		male NPTF with female NPSM	washer
		male NPTF with female NPSH	washer
		female NPTF with male NPTF	thread
		female NPTF with male NPT	thread
		female NPTF with male NPSM or NPSH <i>NPTF with NPTF threads do not require sealant for the initial use, after that, sealant is required</i>	not compatible
NPSH	American Standard Straight Pipe for Hose Couplings (N ational P ipe S traight H ose)	male NPSH with female NPSH	washer
		female NPSH with male NPSH	washer
		female NPSH with male NPT	washer
		female NPSH with male NPTF	washer
		female NPSH with male NPSM	washer
NPSM	American Standard Straight Mechanical Joints (N ational P ipe S traight M echanical)	male NPSM with female NPSM	Seal can be either mechanical or washer. Mating fittings must be of same type.
		male NPSM with female NPSH	
		female NPSM with male NPSM	
		female NPSM with male NPT	
		female NPSM with male NPTF	
SIPT	Straight Iron Pipe Thread	generic name for Straight Pipe Thread	washer
TIPT	Tapered Iron Pipe Thread	generic name for Tapered Pipe Thread	thread
NYC	NYC Fire Department	straight thread used in New York City	washer
Chicago	Chicago Fire Department	straight thread used in Chicago	washer

Thread Dimensions

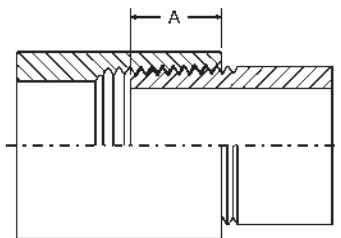
Nominal Dimensions of Standard Threads

- ODM = Outside Diameter of the Male
- IDF = Inside Diameter of the Female
- TPI = Threads Per Inch
- GHT (3/4") -- 1.0625 ODM, 11-1/2 TPI
- Female NPT (Tapered Pipe) thread is not available on hose swivel nuts.

Size	Pipe OD	Tapered Threads		Straight Threads											
		NPT	BSPT _r	NPSH			NPSM			NST (NH)			BSPP		
		TPI	TPI	TPI	ODM (max)	IDF (min)	TPI	ODM (max)	IDF (min)	TPI	ODM (max)	IDF (min)	TPI	ODM (max)	IDF (min)
1/8"	.405	27.0	28				27.0	0.397	0.358					0.383	0.337
1/4"	.540	18.0	19				18.0	0.526	0.468					0.516	0.450
3/8"	.675	18.0	19				18.0	0.662	0.603					0.656	0.588
1/2"	.840	14.0	14	14.0	0.8248	0.7395	14.0	0.823	0.747					0.825	0.733
3/4"	1.050	14.0	14	14.0	1.0353	0.9500	14.0	1.034	0.958					1.041	0.950
1"	1.315	11.5	11	11.5	1.2951	1.1921	11.5	1.293	1.201	8.0	1.375	1.2246	11	1.309	1.193
1-1/4"	1.660	11.5	11	11.5	1.6399	1.5369	11.5	1.638	1.546				11	1.650	1.534
1-1/2"	1.900	11.5	11	11.5	1.8788	1.7758	11.5	1.877	1.785	9.0	1.990	1.8577	11	1.882	1.766
2"	2.375	11.5	11	11.5	2.3528	2.2498	11.5	2.351	2.259				11	2.347	2.231
2-1/2"	2.875	8.0	11	8.0	2.8434	2.6930	8.0	2.841	2.708	7.5	3.068	2.9104	11	2.960	2.844
3"	3.500	8.0	11				8.0	3.467	3.334	6.0	3.623	3.5306	11	3.460	3.344
4"	4.500	8.0	11				8.0	4.466	4.333	4.0	5.010	4.7111	11	4.450	4.334
4-1/2"										4.0	5.760	5.4611			
5"	5.563	8.0	11				8.0	5.528	5.395	4.0	6.260	5.9602	11	5.450	5.359
6"	6.625	8.0	11				8.0	6.585	6.452	4.0	7.025	6.7252	11	6.450	6.359
8"	8.625	8.0													
10"	10.750	8.0													
12"	12.750	8.0													

Normal Engagement Length of NPT Thread in Inches (A)

- Dimensions given do not allow for variations in tapping or threading.



Thread Size	Dimension A
1/8"	1/4"
1/4"	3/8"
3/8"	3/8"
1/2"	1/2"
3/4"	9/16"
1"	11/16"
1-1/4"	11/16"
1-1/2"	11/16"
2"	3/4"
2-1/2"	15/16"
3"	1"
4"	1-1/8"
5"	1-1/4"
6"	1-5/16"
8"	1-7/16"
10"	1-5/8"
12"	1-3/4"

Thread Sealing Tips

Thread Sealing Tips

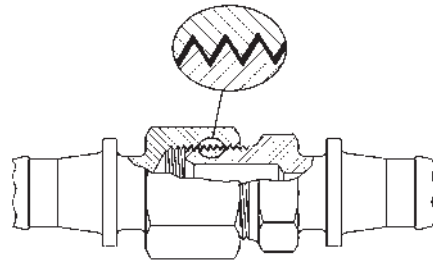
Sealing NPT threads can be an exasperating experience if certain techniques are not followed. The following tips will help alleviate many common problems in thread sealing:

1. Always use some type of sealant (tape or paste) and apply sealant to male thread only. If using a hydraulic sealant, allow sufficient curing time before system is pressurized.
2. When using tape sealant, wrap the threads in a clockwise motion starting at the first thread and, as layers are applied, work towards the imperfect (vanishing) thread. If the system that the connection being made to cannot tolerate foreign matter (i.e. air systems), leave the first thread exposed and apply the tape sealant as outlined above.
3. When using paste sealant, apply to threads with a brush, using the brush to work the sealant into the threads. Apply enough sealant to fill in all the threads all the way around.
4. When connecting one stainless steel part to another stainless steel part that will require future disassembly, use a thread sealant that is designed for stainless steel (see page 667). This stainless steel thread sealant is also useful when connecting aluminum to aluminum that needs to be disconnected in the future. These two materials gall easily, and if the correct sealant is not used, it can be next to impossible to disassemble.
5. When connecting parts made of dissimilar metals (i.e. steel and aluminum), standard tape or paste sealant performs satisfactory.
6. For sizes 2" and below, tape or paste performs satisfactory. When using thread tape, four wraps (covering all necessary threads) is usually sufficient.
7. For sizes 2½" and above, thread paste is recommended. If thread tape is used, eight wraps (covering all necessary threads) is usually sufficient. Apply more wraps if necessary.
8. For stubborn to seal threads, apply a normal coating of thread paste followed by a normal layer of thread tape.
9. For extremely stubborn to seal threads, apply a normal coating of thread paste followed by a single layer of gauze bandage followed by a normal layer of thread tape.

Caution!

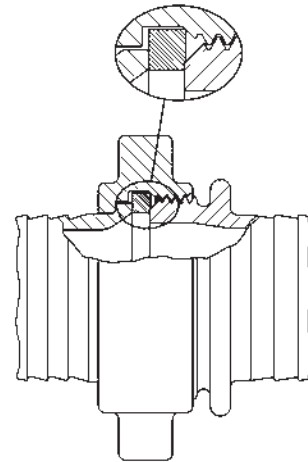
When this procedure is done, the connection becomes permanent. Extreme measures will be necessary to disconnect these components. *All other measures to seal the threads should be explored prior to use of this technique.*

10. Over-tightening threads can be just as detrimental as insufficient tightening. For sizes 2" and below, hand tighten the components and, with a wrench, tighten 3 full turns. For sizes 2½" and above, hand tighten the components and, with a wrench, tighten 2 full turns.



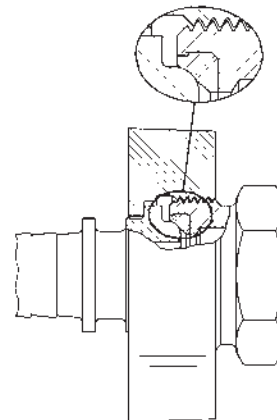
Thread Seal Type

- A seal is obtained by applying a sealant to the male thread before engaging.
- The sealant is used to prevent spiral leakage.
- Thread tape or paste is the preferred sealant in this type of application.
- Please refer to page 667 for thread tape options.



Washer Seal Type

- A seal is obtained when the male thread is tightened down onto the washer of the female assembly.
- The washer should be inspected regularly and replaced as needed to prevent leakage.
- Please refer to pages 273, 275 and 645 for replacement washers.



Mechanical Seal Type

- A seal is obtained through metal to metal contact or metal to seal contact, i.e. JIC couplings (page 380) have a metal to metal seal. Boss Ground Joint couplings (pages 94, 96) have a metal to seal contact, (shown above).
- The couplings should be retightened as needed to prevent leakage.

Force Chart

- For hose ID's from 1¼" to 12" the force in pounds is greater than the PSI.
- Force is the dynamic power which is exported longitudinally through a hose, towards the ends. To arrive at the number of pounds of force exerted, you merely multiply the area of the ID times the working pressure being used.
- Area of a circle: r^2 (PI [3.1416] times radius squared)
- Force = Area x Pressure

Force (In Pounds)

Hose ID	25 PSI	50 PSI	75 PSI	100 PSI	150 PSI	200 PSI	250 PSI	300 PSI	500 PSI	1000 PSI
1/4"	1	2	4	5	7	10	12	15	25	49
3/8"	3	6	8	11	17	22	28	33	55	110
1/2"	5	10	15	20	29	39	49	59	98	196
3/4"	11	22	33	44	66	88	110	133	221	442
1"	20	39	59	79	118	157	196	236	393	785
1-1/4"	31	61	92	123	184	245	307	368	614	1227
1-1/2"	44	88	133	177	265	353	442	530	884	1767
2"	79	157	236	314	471	628	785	942	1571	3142
2-1/2"	123	245	368	491	736	982	1227	1473	2454	4909
3"	177	353	530	707	1060	1414	1767	2121	3534	7069
4"	314	628	942	1257	1885	2513	3142	3770	6283	12566
5"	491	982	1473	1964	2945	3927	4909	5891	9818	19635
6"	707	1414	2121	2827	4241	5655	7069	8482	14137	28274
8"	1257	2513	3770	5027	7540	10053	12566	15080	25133	50266
10"	1964	3927	5891	7854	11781	15708	19635	23562	39270	78540
12"	2827	5655	8482	11310	16965	22620	28274	33929	56549	113098

Pressure - Temperature Ratings

- Ratings apply to all products covered by ANSI B16.5 valves conforming to the requirements of this standard must, in other respects, merit these ratings.
- All ratings are maximum allowable non-shock pressures (PSIG) at the tabulated temperatures (degree Fahrenheit). Temperatures are those on the inside of the pressure retaining structure.
- The use of these ratings requires gaskets conforming to the requirements of ANSI B16.5. The user is responsible for selecting gaskets of dimensions and materials to withstand the required bolt loading without injurious crushing, and suitable for the service conditions in all other respects.

Pressure Class	150	300
Test Pressure	425	1100
Service Temperature	Working Pressure	
-20 to 100	275	720
150	255	710
200	240	700
250	225	690
300	210	680
350	195	675
400	180	665
450	165	650
500	150	625
550	140	590
600	130	555
650	120	515
700	110	470
750	100	425

Pipe Dimensions

Dimensions of Seamless and Welded Steel Pipe ASA-B36.10 and B36.19

Nominal Pipe Size	OD (inches)	Pipe Schedule Wall Thickness												
		10	20	30	Stand.	40	60	Extra Strong	80	100	120	140	160	XXX Strong
1/8"	0.405	0.049	---	---	0.068	0.068	---	0.095	0.095	---	---	---	---	---
1/4"	0.540	0.065	---	---	0.088	0.088	---	0.119	0.119	---	---	---	---	---
3/8"	0.675	0.065	---	---	0.091	0.091	---	0.126	0.126	---	---	---	---	---
1/2"	0.840	0.083	---	---	0.109	0.109	---	0.147	0.147	---	---	---	0.188	0.294
3/4"	1.050	0.083	---	---	0.113	0.113	---	0.154	0.154	---	---	---	0.219	0.308
1"	1.315	0.109	---	---	0.133	0.133	---	0.179	0.179	---	---	---	0.250	0.358
1-1/4"	1.660	0.109	---	---	0.140	0.140	---	0.191	0.191	---	---	---	0.250	0.382
1-1/2"	1.900	0.109	---	---	0.145	0.145	---	0.200	0.200	---	---	---	0.281	0.400
2"	2.375	0.109	---	---	0.154	0.154	---	0.218	0.218	---	---	---	0.344	0.436
2-1/2"	2.875	0.120	---	---	0.203	0.203	---	0.276	0.276	---	---	---	0.375	0.552
3"	3.500	0.120	---	---	0.216	0.216	---	0.300	0.300	---	---	---	0.438	0.600
3-1/2"	4.000	0.120	---	---	0.226	0.226	---	0.318	0.318	---	---	---	---	---
4"	4.500	0.120	---	---	0.237	0.237	---	0.337	0.337	---	0.438	---	0.531	0.674
5"	5.563	0.134	---	---	0.258	0.258	---	0.375	0.375	---	0.500	---	0.625	0.750
6"	6.625	0.134	---	---	0.280	0.280	---	0.432	0.432	---	0.562	---	0.719	0.864
8"	8.625	0.148	0.250	0.277	0.322	0.322	0.406	0.500	0.500	0.594	0.719	0.812	0.906	0.873
10"	10.750	0.165	0.250	0.307	0.365	0.365	0.500	0.500	0.594	0.719	0.844	1.000	1.125	1.000
12"	12.750	0.180	0.250	0.330	0.375	0.406	0.562	0.500	0.688	0.844	1.000	1.125	1.312	1.000

Definitive Cross-Reference from NPS to DN Specification Sizes

Nominal Pipe Size	DN	OD (inches)	Pipe Schedule Wall Thickness													
			5S	5	10S	10	20	30	40S	40	60	80S	80	100	120	160
1/8"	6	0.405	---	0.035	---	0.049	---	0.057	---	0.068	---	---	0.095	---	---	---
1/4"	8	0.540	---	0.049	---	0.065	---	0.073	---	0.088	---	---	0.119	---	---	---
1/2"	15	0.840	---	0.065	---	0.083	---	0.095	---	0.109	---	---	0.147	---	0.170	0.188
3/4"	20	1.050	---	0.065	---	0.083	---	0.095	---	0.113	---	---	0.154	---	0.170	0.219
1"	25	1.315	---	0.065	---	0.109	---	0.114	---	0.133	---	---	0.179	---	0.200	0.250
1-1/4"	32	1.660	---	0.065	---	0.109	---	0.117	---	0.140	---	---	0.191	---	0.215	0.250
1-1/2"	40	1.900	---	0.065	---	0.109	---	0.125	---	0.145	---	---	0.200	---	0.225	0.281
2"	50	2.375	---	0.065	---	0.109	---	---	---	0.154	---	---	0.218	---	0.250	0.344
2-1/2"	65	2.875	---	0.083	---	0.120	---	---	---	0.203	---	---	0.276	---	0.300	0.375
3"	80	3.500	---	0.083	---	0.120	---	---	---	0.216	---	---	0.330	---	0.350	0.438
4"	100	4.500	---	0.083	---	0.120	---	---	---	0.237	0.281	---	0.377	---	0.437	0.531
5"	125	5.563	---	0.109	---	0.134	---	---	---	0.258	---	---	0.375	---	0.500	0.625
6"	150	6.625	---	0.109	---	0.134	---	---	---	0.280	---	---	0.432	---	0.562	0.719
8"	200	8.625	---	0.109	---	0.148	0.250	0.277	---	0.322	0.406	---	0.500	0.593	0.718	0.906
10"	250	10.750	0.134	0.134	0.165	0.165	0.250	0.307	0.365	0.365	0.500	0.500	0.593	0.718	0.843	---
12"	300	12.750	0.156	0.165	0.180	0.180	0.250	0.330	0.375	0.406	0.500	0.500	0.687	0.843	1.000	---



Replacement Washers for Hydrant Adapters and Fire Hose Nozzles

The "sw" swivel washer on page 538 replaces the gaskets in the following products:

- hydrant adapters: HA, RHA, AHA
- cam and groove hydrant adapter
- female x male hex nipples (FM series)
- brass fog nozzles (BFN series)
- brass electrical all-fog nozzles (BFNE series)
- heavy duty brass industrial fog nozzles (HFN series)
- higher pressure brass industrial fog nozzles (HPFN series)
- brass rack nozzles (BRN series)
- U/L play pipe
- tip for U/L play pipe
- aluminum ball shut off (ACPSO and FBSO series)

The "CFG" gaskets on page 529 replace the following:

- constant flow thermoplastic fog nozzles (CFB)
- blue thermoplastic refinery fog nozzles (RNB)

The "FNG" gaskets on page 530 replace the following:

- thermoplastic fog nozzles (PFNB, FNB, FN, SL)
- thermoplastic fog nozzles for electrical fires (FNBE)

The gaskets for the following parts have to special ordered, please contact customer service at 877.712.6179:

- Coast Guard approved water fog nozzle
- US Coast Guard approved fog nozzle
- aluminum tip for ball shut-off nozzles
- monitor nozzle
- steel FirePro nozzle
- Master Stream nozzle

Replacement Gasket Chart

Size	FNPT Threads ¹	FNST Threads	FNPSH Threads
1½"	---	SW150	SW150
2"	---	---	SW200
2½"	---	SW250	SW250
3"	---	SW300F	SW300F
4"	---	SW400F	SW400F
4½"	---	SW450F	---
5"	---	SW500F	---
6"	---	SW600F	---

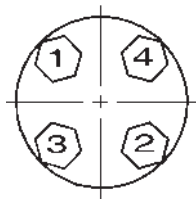
¹ FNPT threads - no gasket/seal by threads

Brass Plain Hose Nozzle Gaskets

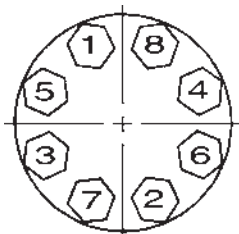
Nozzle	Gasket
BN6	KRW5
BN7	KRW5
BN10	KRW10
BN12	KRW15
BN15	KRW20
BN20	SW200
BN25	KRW35
BN10F	SW100F
BN15F	SW150
BN25F	SW250
BN15NYFD	SW150
BN25NYFD	SW250

Flange Information

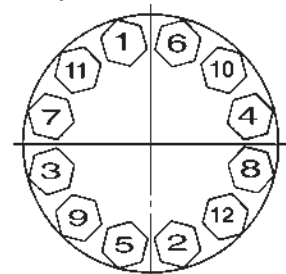
Flange Bolt Tightening Sequence (Use appropriate gaskets and bolts)



4 Bolt



8 Bolt

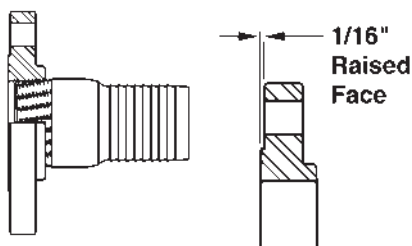


12 Bolt

See page 713 for drilling dimensions

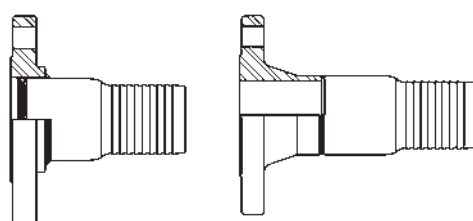
Flange Diagrams

Threaded Applications



Threaded Flange with raised face

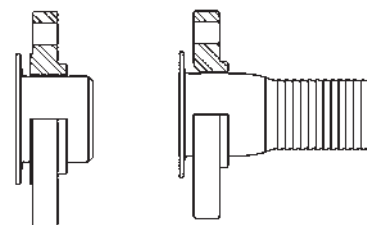
Welded Applications



Slip-On Flange with raised face

Weld Neck Flange with raised face

Floating Applications (flange free to swivel)



Slip-On Flange with raised face

Lap-Joint Flange

Flange Dimensions

Dimensions of 150 LB. ASA Steel Flanges

Nominal Pipe Size	Flange OD	Thickness ¹	OD of Raised Face	Diameter of Bolt Circle	Number of Bolts	Diameter of Bolt Holes	Diameter of Bolts
1"	4-1/4"	9/16"	2"	3-1/8"	4	5/8"	1/2"
1-1/2"	5"	11/16"	2-7/8"	3-7/8"	4	5/8"	1/2"
2"	6"	3/4"	3-5/8"	4-3/4"	4	3/4"	5/8"
2-1/2"	7"	7/8"	4-1/8"	5-1/2"	4	3/4"	5/8"
3"	7-1/2"	15/16"	5"	6"	4	3/4"	5/8"
4"	9"	15/16"	6-3/16"	7-1/2"	8	3/4"	5/8"
5"	10"	15/16"	7-5/16"	8-1/2"	8	7/8"	3/4"
6"	11"	1"	8-1/2"	9-1/2"	8	7/8"	3/4"
8"	13-1/2"	1-1/8"	10-5/8"	11-3/4"	8	7/8"	3/4"
10"	16"	1-3/16"	12-3/4"	14-1/4"	12	1"	7/8"
12"	19"	1 1/4"	15"	17"	12	1"	7/8"

¹ 1/16" raised face is included in the thickness

Dimensions of Tank Truck Flanges (TTMA Drilling)

Nominal Pipe Size	Flange OD	Thickness ¹	Diameter of Bolt Circle	Number of Bolts	Diameter of Bolt Holes	Diameter of Bolts
3"	5-5/8"	3/8"	4-7/8"	8	7/16"	3/8"
4"	6-5/8"	3/8"	5-7/8"	8	7/16"	3/8"
6"	8-7/8"	3/8"	8-1/8"	12	7/16"	3/8"

¹ listed thickness is for aluminum flanges

ANSI Flange Dimensions

150 lb. Standard

Nominal Pipe Size	Outside Diameter Flange	Flange Thickness	Drill Template		
			Number Holes	Diameter Bolts	Bolt Circle
1/2"	3-1/2"	7/16"	4	1/2"	2-3/8"
3/4"	3-7/8"	1/2"	4	1/2"	2-3/4"
1"	4-1/4"	9/16"	4	1/2"	3-1/8"
1-1/4"	4-5/8"	5/8"	4	1/2"	3-1/2"
1-1/2"	5"	11/16"	4	1/2"	3-7/8"
2"	6"	3/4"	4	5/8"	4-3/4"
2-1/2"	7"	7/8"	4	5/8"	5-1/2"
3"	7-1/2"	15/16"	4	5/8"	6"
3-1/2"	8-1/2"	15/16"	8	5/8"	7"
4"	9"	15/16"	8	5/8"	7-1/2"
5"	10"	15/16"	8	3/4"	8-1/2"
6"	11"	1"	8	3/4"	9-1/2"
8"	13-1/2"	1-1/8"	8	3/4"	11-3/4"
10"	16"	1-3/16"	12	3/4"	14-1/4"
12"	19"	1-1/4"	12	3/4"	17"

300 lb. Standard

Nominal Pipe Size	Outside Diameter Flange	Flange Thickness	Drill Template		
			Number Holes	Diameter Bolts	Bolt Circle
1/2"	3-3/4"	9/16"	4	1/2"	2-5/8"
3/4"	4-5/8"	5/8"	4	5/8"	3-1/4"
1"	4-7/8"	11/16"	4	5/8"	3-1/2"
1-1/4"	5-1/4"	3/4"	4	5/8"	3-7/8"
1-1/2"	6-1/8"	13/16"	4	3/4"	4-1/2"
2"	6-1/2"	7/8"	8	5/8"	5"
2-1/2"	7-1/2"	1"	8	3/4"	5-7/8"
3"	8-1/4"	1-1/8"	8	3/4"	6-5/8"
3-1/2"	9"	1-3/16"	8	3/4"	7-1/4"
4"	10"	1-1/4"	8	3/4"	7-7/8"
5"	11"	1-3/8"	8	3/4"	9-1/4"
6"	12-1/2"	1-7/16"	12	3/4"	10-5/8"
8"	15"	1-5/8"	12	7/8"	13"
10"	17-1/2"	1-7/8"	16	1"	15-1/4"
12"	20-1/2"	2"	16	1-1/8"	17-3/4"

600 lb. Standard

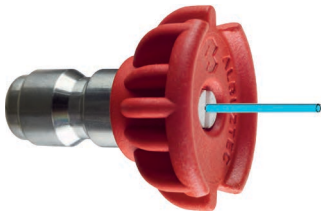
Nominal Pipe Size	Outside Diameter Flange	Flange Thickness	Drill Template		
			Number Holes	Diameter Bolts	Bolt Circle
1/2"	3-3/4"	9/16"	4	5/8"	2-5/8"
3/4"	4-5/8"	5/8"	4	3/4"	3-1/4"
1"	4-7/8"	11/16"	4	3/4"	3-1/2"
1-1/4"	5-1/4"	13/16"	4	3/4"	3-7/8"
1-1/2"	6-1/8"	7/8"	4	7/8"	4-1/2"
2"	6-1/2"	1"	8	3/4"	5"
2-1/2"	7-1/2"	1-1/8"	8	7/8"	5-7/8"
3"	8-1/4"	1-1/4"	8	7/8"	6-5/8"
3-1/2"	9"	1-3/8"	8	1"	7-1/4"
4"	10-7/5"	1-1/2"	8	1"	8-1/2"
5"	13"	1-3/4"	8	1-1/8"	10-1/2"
6"	14"	1-7/8"	12	1-1/8"	11-1/2"
8"	16-1/2"	2-3/16"	12	1-1/4"	13-3/4"
10"	20"	2-1/2"	16	1-3/8"	17"
12"	22"	2-5/8"	20	1-3/8"	19-1/4"

900 lb. Standard

Nominal Pipe Size	Outside Diameter Flange	Flange Thickness	Drill Template		
			Number Holes	Diameter Bolts	Bolt Circle
1/2"	4-3/4"	7/8"	4	7/8"	3-1/4"
3/4"	5-1/8"	1"	4	7/8"	3-1/2"
1"	5-7/8"	1-1/8"	4	1"	4"
1-1/4"	6-1/4"	1-1/8"	4	1"	4-3/8"
1-1/2"	7"	1-1/4"	4	1-1/8"	4-7/8"
2"	8-1/2"	1-1/2"	8	1"	6-1/2"
2-1/2"	9-5/8"	1-5/8"	8	1-1/8"	7-1/2"
3"	9-1/2"	1-1/2"	8	1"	7-1/2"
3-1/2"	11-1/2"	1-3/4"	8	1-1/4"	9-1/4"
4"	13-3/4"	2"	8	1-3/8"	11"
6"	15"	2-3/16"	12	1-1/4"	12-1/2"
8"	18-1/2"	2-1/2"	12	1-1/2"	15-1/2"
10"	21-1/2"	2-3/4"	16	1-1/2"	18-1/2"
12"	24"	3-1/8"	20	1-1/2"	21"

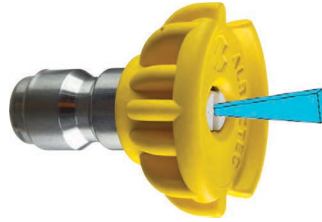


Spray Nozzle Selection Guidelines



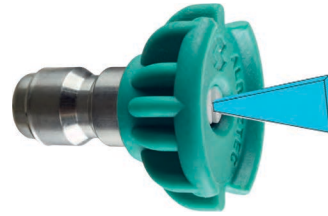
**RED 0°
BLASTING NOZZLE**

- Removing caked on mud from heavy construction, farm or lawn equipment.
- Cleaning tar, glue or stubborn stains from concrete
- Cleaning overhead areas
- Removing rust from steel and oxidation from aluminum



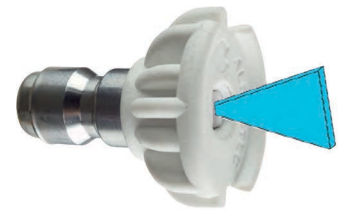
**YELLOW 15°
STRIPPING NOZZLE**

- Removing paint from wood, masonry or metal
- Removing grease or dirt from equipment
- Removing heavy mildew stains
- Removing marine growth from boats and marine equipment
- Removing rust from steel and oxidation from aluminum



**GREEN 25°
CLEANING NOZZLE**

- General cleaning of dirt, mud and grime
- Cleaning roofs, gutters and downspouts
- Removing light mildew stains
- Removing algae and bacteria build-up from pools
- Rinsing surfaces in preparation for painting



**WHITE 40°
WASHING NOZZLE**

- Light cleaning and washing
- Washing and rinsing of automobiles and boats
- Cleaning roofs, windows, patios and driveways

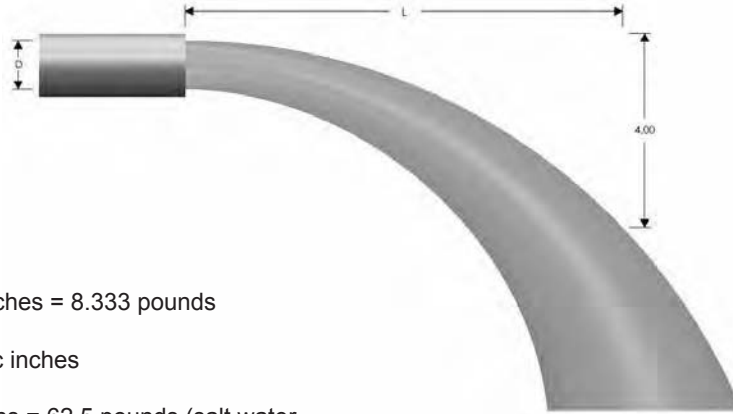


Caution: The spray force from these nozzles can cause injuries if pointed directly at yourself or others. Before observing directly always disconnect from spray wand. Make sure spray nozzle is properly locked in place with its quick coupler, if the collar is not in the locking position, the nozzle will become a dangerous projectile. The O-ring from your quick coupler socket will also be blown out of place.

Nozzle Spray Chart

Nozzle Orifice Size	→	1000 PSI	1200 PSI	1250 PSI	1300 PSI	1500 PSI	1800 PSI	2000 PSI	2100 PSI	2200 PSI	2300 PSI	2400 PSI	2500 PSI	3000 PSI	3200 PSI	3500 PSI	4000 PSI	5000 PSI
3.0	G a l l o n s P e r M i n u t e →	1.50	1.64	1.68	1.71	1.84	2.01	2.12	2.17	2.22	2.27	2.32	2.37	2.60	2.68	2.81	3.00	3.35
3.5		1.75	1.92	1.96	2.00	2.14	2.35	2.47	2.54	2.60	2.65	2.71	2.77	3.03	3.13	3.27	3.50	3.91
4.0		2.00	2.19	2.24	2.28	2.45	2.68	2.83	2.90	2.97	3.03	3.10	3.16	3.46	3.58	3.74	4.00	4.47
4.5		2.25	2.46	2.52	2.57	2.76	3.02	3.18	3.26	3.34	3.41	3.49	3.56	3.90	4.02	4.21	4.50	5.03
5.0		2.50	2.74	2.80	2.85	3.06	3.35	3.54	3.62	3.71	3.79	3.87	3.95	4.33	4.47	4.68	5.00	5.59
5.5		2.75	3.01	3.07	3.14	3.37	3.69	3.89	3.99	4.08	4.17	4.26	4.35	4.76	4.92	5.14	5.50	6.15
6.5		3.25	3.56	3.63	3.71	3.98	4.36	4.60	4.71	4.82	4.93	5.03	5.14	5.63	5.81	6.08	6.50	7.27
8.0		4.00	4.38	4.47	4.56	4.90	5.37	5.66	5.80	5.93	6.07	6.20	6.32	6.93	7.16	7.48	8.00	8.94
12.0		6.00	6.57	6.71	6.84	7.35	8.05	8.49	8.69	8.90	9.10	9.30	9.49	10.39	10.73	11.22	12.00	13.42
15.0		7.50	8.22	8.39	8.55	9.19	10.06	10.61	10.87	11.12	11.37	11.62	11.86	12.99	13.42	14.03	15.00	16.77

Water Data and Formulas



1 gallon water = 231 cubic inches = 8.333 pounds

1 pound of water = 27.7 cubic inches

1 cubic foot water = 7.5 gallons = 62.5 pounds (salt water weighs approximately 64.3 pounds per cubic foot)

Pounds per square inch at bottom of a column of water = height of column in feet x .434

1 miner's inch = 9 to 12 gallons per minute

Horsepower to Raise Water

If pumping liquid other than water, multiply the gallons per minute below by the liquids specific gravity

$$\text{Horsepower} = \frac{\text{gallons per minute} \times \text{total head in feet}}{3960}$$

Gallons Per Minute through a Pipe

GPM = .0408 x pipe diameter inches² x feet/minute water velocity

Weight of Water in a Pipe

Pounds water = pipe length feet x pipe diameter inches² x .34

L Distance (inches)	Gallons per Minute Discharge for a Given Nominal Pipe Diameter D (inches)				
	5	6	8	10	12
5	163	---	---	---	---
6	195	285	---	---	---
7	228	334	580	---	---
8	260	380	665	1060	---
9	293	430	750	1190	1660
10	326	476	830	1330	1850
11	360	525	915	1460	2020
12	390	570	1000	1600	2220
13	425	620	1080	1730	2400
14	456	670	1160	1860	2590
15	490	710	1250	2000	2780
16	520	760	1330	2120	2960
17	550	810	1410	2260	3140
18	590	860	1500	2390	3330
19	620	910	1580	2520	3500
20	650	950	1660	2660	3700
21	685	1000	1750	2800	3890
22	720	1050	1830	2920	4060
23	750	1100	1910	3060	4250
24	---	1140	2000	3200	4440

Water Discharge Table

This table is intended for general reference and general applicability only, and should not be relied upon as the sole or precise source of information available with respect to the subject covered. The user should also refer to and follow manufacturer's specific instructions and recommendations with regard to such information, where they exist.

Flow of water through 100 foot lengths of hose, Straight-Smooth Bore - US gallons per minute

PSI at Hose Inlet	Nominal Hose ID Diameters - Inches							
	1"	1¼"	1½"	2"	2½"	3"	4"	6"
20	26	47	76	161	290	468	997	2895
30	32	58	94	200	360	582	1240	3603
40	38	68	110	234	421	680	1449	4209
50	43	77	124	264	475	767	1635	4748
60	47	85	137	291	524	846	1804	5239
75	53	95	154	329	591	955	2035	5910
100	62	112	180	384	690	1115	2377	6904
125	70	126	203	433	779	1258	2681	7788
150	77	139	224	478	859	1388	2958	8593
200	90	162	262	558	1004	1621	3455	10038

Figures are to be used as a guide since the hose inside diameter tolerance, the type of fittings used, and orifice restriction all influence the actual discharge. Thus, variations plus or minus from the table may be obtained in actual service.

Conversion Table - Feet of Water to Inches of Mercury

Feet of Water	1	2	4	6	8	10	12	14	16	20	22	24	26	28	30	32	34
Inches of Mercury	0.9	1.8	3.5	5.3	7.1	8.8	10.6	12.4	14.1	17.7	19.4	21.2	23.0	24.8	26.5	28.3	30.0

Feet Head of Water to PSI

- One foot of water at 62°F = 0.433 PSI, to find the PSI for any feet head not given in the table, multiply the feet head by 0.433.

Feet Head	Pounds per Square Inch	Feet Head	Pounds per Square Inch	Feet Head	Pounds per Square Inch	Feet Head	Pounds per Square Inch
1	0.43	15	6.50	100	43.31	250	108.27
2	0.87	20	8.66	110	47.64	300	129.93
3	1.30	25	10.83	120	51.97	350	151.58
4	1.73	30	12.99	130	56.30	400	173.24
5	2.17	40	17.32	140	60.63	500	216.55
6	2.60	50	21.65	150	64.96	600	259.85
7	3.03	60	25.99	160	69.29	700	303.16
8	3.46	70	30.32	170	73.63	800	346.47
9	3.90	80	34.65	180	77.96	900	389.78
10	4.33	90	38.98	200	86.62	1000	433.00

Maximum Recommended Air Flow (SCFM) Through ANSI Standard Weight Schedule 40 Metal Pipe

- Flow values in the table below are based on a pressure drop of 10% of the applied pressure per 100 feet of pipe for 1/8", 1/4", 3/8", and 1/2" pipe sizes; and a pressure drop of 5% of the applied pressure per 100 feet of pipe for 3/4", 1", 1-1/4", 2", 2-1/2", 3" pipe sizes. The table gives recommended flows for pipe sizes at listed pressures and should be used to determine appropriate piping for air systems.

Applied Pressure PSI	Nominal Standard Pipe Size										
	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"
5	0.5	1.2	2.7	4.9	6.6	13	27	40	80	135	240
10	0.8	1.7	3.9	7.7	11.0	21	44	64	125	200	370
20	1.3	3.0	6.6	13.0	18.5	35	75	110	215	350	600
40	2.5	5.5	12.0	23.0	34.0	62	135	200	385	640	1100
60	3.5	8.0	18.0	34.0	50.0	93	195	290	560	900	1600
80	4.7	10.5	23.0	44.0	65.0	120	255	380	720	1200	2100
100	5.8	13.0	29.0	54.0	80.0	150	315	470	900	1450	2600
150	8.6	20.0	41.0	80.0	115.0	220	460	680	1350	2200	3900
200	11.5	26.0	58.0	108.0	155.0	290	620	910	1750	2800	5000
250	14.5	33.0	73.0	135.0	200.0	370	770	1150	2200	3500	6100

Air Supply Requirements (operating pressure - 90 PSI)

Tool	Class	Typical Air Consumption (CFM)	Hose Size (inches)		
			0-10 ft.	10-50 ft.	50-200 ft.
Paving Breakers	25 lb.	45	1/2	1/2	3/4
	35 lb.	50	1/2	3/4	3/4
	60 lb.	65	1/2	3/4	1
	80 lb.	80	3/4	3/4	1
Claydiggers		45	1/2	1/2	3/4
Hand Drills	8 lb.	20	3/8	3/8	1/2
	15 lb.	32	3/8	1/2	1/2
Rock (Sinker) Drills	45 lb.	105	3/4	3/4	1
	55 lb.	130	3/4	1	1
Tampers	5" butt	20	3/8	1/2	1/2
	6" butt	30	1/2	1/2	3/4
Sump Pump Sludge Pump	3 HP	100	3/4	3/4	1
	Ejector	90	1	1	1
Vibrators	2-1/2"	60	1	1	1
	3"	60	1	1	1
Chipping Hammers		25	3/8	1/2	1/2
Impact Wrenches	3/8" sq. dr.	10	5/16	3/8	3/8
	1/2"	15	5/16	3/8	1/2
	3/4"	25	3/8	1/2	1/2
	1"	50	1/2	3/4	3/4
Drills	1/4" - 1/2"	22	3/8	3/8	1/2
Grinders	die/burr	20	3/8	3/8	1/2
	small angle	20	3/8	3/8	1/2
	3 HP vertical	75	1/2	3/4	1

CFM vs PSI for Nozzles

- PSI = pounds/square inch
- CFM = cubic feet/minute

Gauge PSI	CFM Free Air Flow @ Nozzle Diameter (Inch)							
	1/64	1/32	3/64	1/16	3/32	1/8	3/16	1/4
1	.03	.11	.2	.4	1.0	1.7	3.9	6.8
5	.06	.24	.5	1.0	2.2	3.9	8.7	15.4
10	.08	.34	.8	1.4	3.1	5.4	12.3	21.8
15	.10	.42	.9	1.6	3.7	6.6	15.0	26.7
20	.12	.48	1.1	1.9	4.2	7.7	17.1	30.8
25	.13	.54	1.2	2.2	4.7	8.6	19.4	34.5
30	.16	.63	1.4	2.5	5.6	10.0	22.5	40.0
40	.19	.77	1.7	3.1	6.8	12.3	27.5	49.1
50	.22	.91	2.0	3.6	8.2	14.5	32.8	58.2
60	.26	1.05	2.3	4.2	9.4	16.8	37.5	67.0
70	.29	1.19	2.7	4.8	10.7	19.0	43.0	76.0
80	.33	1.33	3.0	5.3	11.9	21.2	47.5	85.0
90	.36	1.47	3.3	5.9	13.1	23.5	52.5	94.0
100	.40	1.61	3.7	6.4	14.5	25.8	58.3	103.0
110	.43	1.76	3.9	7.0	15.7	28.0	63.0	112.0
120	.47	1.90	4.30	7.6	17.0	30.2	68.0	121.0
130	.50	2.04	4.6	8.1	18.2	32.4	73.0	130.0
140	.54	2.17	4.9	8.7	19.5	34.5	78.0	138.0
150	.57	2.33	5.2	9.2	20.7	36.7	83.0	147.0
175	.66	2.65	5.9	10.6	23.8	42.1	95.0	169.0
200	.76	3.07	6.9	12.2	27.5	48.7	110.0	195.0

Formulas

Air Velocity in a Pipe

Using the equation and typical values of V, D and L explained to the right approximate values of P are computed as follows:

Velocity Ft/Sec	Pipe Diameter in Inches, 10' long				
	1	2	4	6	10
1	.0004	.0002	.0001	.00007	.00004
2	.0016	.0008	.0004	.00030	.00016
5	.0100	.0050	.0025	.00170	.0010
10	.0400	.0200	.0100	.00670	.0040
15	.0900	.0450	.0225	.01500	.0090
20	.1600	.0800	.0400	.02700	.0160
25	.2500	.1250	.0625	.04170	.0250
30	.3600	.1800	.0900	.06000	.0360

$$V = \sqrt{\frac{25,000 DP}{L}}$$

- V = air velocity in feet per second
- D = pipe inside diameter in inches
- L = length of pipe in feet
- P = pressure loss due to air friction in ounces/square inch

formula from B.F.Sturtevant Company

Air Volume Discharged from Pipe

- CFM = air volume in cubic feet per minute
- V = air velocity in feet per second as determined in the equation at the top of this page
- A = cross section area of pipe in square feet

$$CFM = 60VA$$

Boyle's Law

If temperature is kept constant, the volume of a given mass of gas is inversely proportional to the pressure which is exerted upon it.

$$\frac{\text{Initial Pressure}}{\text{Final Pressure}} = \frac{\text{Final Volume}}{\text{Initial Volume}}$$

Suggested Pipe Size for Compressed Air Flow at 100 PSI Length of Run, Feet

SCFM Air Flow	25	50	75	100	150	200	300	500	1000	Compressor HP
4	½	½	½	½	½	½	½	¾	¾	1
12	½	½	½	¾	¾	½	¾	1	1	3
20	¾	¾	¾	¾	1	¾	1	1¼	1¼	5
30	¾	¾	1	1	1	1	1¼	1¼	1¼	7½
40	¾	1	1	1	1¼	1	1¼	1½	1½	10
60	1	1	1¼	1¼	1¼	1¼	1½	1½	2	15
80	1	1¼	1¼	1¼	1½	1¼	1½	2	2	20
100	1¼	1¼	1½	1½	1½	1½	2	2	2½	25
120	1¼	1½	1½	1½	2	1½	2	2½	2½	30
160	1¼	1½	1½	2	2	1½	2½	2½	3	40
200	1½	2	2	2	2	2	2½	3	3	50
240	1½	2	2	2	2½	2	2½	3	3	60
300	2	2	2	2½	2½	2	3	3	3½	75
400	2	2½	2½	2½	3	2½	3	3½	4	100
500	2	2½	2½	3	3	2½	3½	3½	4	125

On a compressed air distribution system, pressure losses greater than 3% are considered excessive, and a well-designed system having a steady rate of air flow is usually designed for not more than a 1% loss or 1 PSI for a 100 PSI system. The pipe size depends not only on the volume of air flow but how far it must be carried. To hold the distribution loss to 1 PSI, pipes of larger diameter must be used on longer runs to carry the same flow that can be handled by smaller pipes on shorter runs.

Figures in the body of the chart above are pipe sizes recommended on a 100 PSI system to carry air with less than 1 PSI loss. When measuring lengths of runs, add 5' of length for each pipe fitting. If carrying 120 PSI pressure these sizes will carry slightly more air than shown, or pressure loss will be slightly less than 1 PSI. If carrying 80 PSI pressure these pipes will carry slightly less air at 1 PSI pressure loss than shown in the chart.

The left column of the chart shows the volume of air to be carried. It is difficult to estimate the air flow volume to be carried in each leg of the distribution system. This varies with the application. On some applications, like in a large plant with many legs in the distribution system serving dozens of air-operated machines, the air usage may be at a fairly steady rate. Other applications, usually on small systems, may have to carry a high surge of air if several machines happen to be operated at the same time. Then there may be a period with almost no flow.

To make a realistic estimate of air flow volume, the far right column of the chart showing compressor HP may be used. On steady pumping, a compressor will produce a minimum of 4 SCFM air flow for each 1 HP of capacity. This is a conservative figure, as most compressors will produce 5 or 6 SCFM.

For example, a 25 HP compressor will produce at least 100 SCFM of air as shown in the far left column on the same line as 25 HP.

excerpted from *Industrial Fluid Power*, Volume 1, third edition, 1984

Air Receiver Capacities

Tank Size (inches)	Tank Size (gallons)	Gauge Pressure on Tank (PSI)			
		0	100	150	200
Cubic Feet Tank Capacity					
12 x 24	10	1.3	11	15	19
14 x 36	20	2.7	21	30	39
16 x 36	30	4.0	31	45	59
20 x 48	60	8.0	62	90	117
20 x 63	80	10.7	83	120	156
24 x 68	120	16.0	125	180	234
30 x 84	240	32.0	250	360	467

If your tank is not listed in the table to the left, use the following formula to calculate the tank size (gallons) and then estimate the cubic feet tank capacity at a given pressure from the table above.

$$\text{Tank Gallons} = \frac{\text{Tank Height} \times (\text{Tank Radius})^2}{73.53}$$

Height and Radius are in inches

Air Hose Friction

- PSI = pressure in pounds/square inch
- CFM = air flow in cubic feet/minute

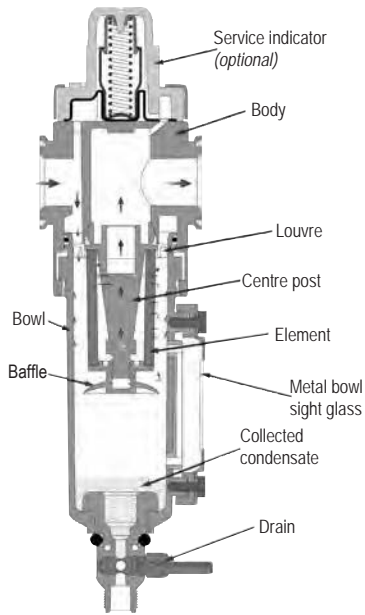
Hose Size (inches)	CFM thru 50' Hose	Gauge Pressure - Pounds/sq inch			
		50	70	90	110
PSI Loss Over 50' Hose Length					
1/2"	20	1.8	1.0	.8	.6
	30	5.0	3.4	2.4	2.0
	40	10.1	7.0	5.4	4.3
	50	18.1	12.4	9.5	7.6
	60	+	20.0	14.8	12.0
	70	+	28.4	22.0	17.6
	80	+	+	30.5	24.6
	90	+	+	41.0	33.3
	10	+	+	+	44.5
	110	+	+	+	+
3/4"	20	.04	.2	.2	.1
	30	.08	.5	.4	.3
	40	1.5	.9	.7	.5
	50	2.4	1.5	1.1	.9
	60	3.5	2.3	1.6	1.3
	70	4.4	3.2	2.3	1.8
	80	6.5	4.2	3.1	2.4
	90	8.5	5.5	4.0	3.1
	100	11.4	7.0	5.0	3.9
	110	14.2	8.8	6.2	4.9
	120	+	11.0	7.5	5.9
	130	+	+	9.0	7.1
1"	20	.1	0	0	0
	30	.2	.1	.1	.1
	40	.3	.2	.2	.2
	50	.5	.4	.3	.2
	60	.8	.5	.4	.3
	70	1.1	.7	.6	.4
	80	1.5	1.0	.7	.6
	90	2.0	1.3	.9	.7
	100	2.6	1.6	1.2	.9
	110	3.5	2.0	1.4	1.1
	120	4.8	2.5	1.7	1.3
	130	7.0	3.1	2.0	1.5

+ pressure loss is too great and therefore the combination of hose size, CFM, and gauge pressure is not recommended. Gauge pressures the indicated air pressure in pounds/square inch, at the source (i.e. the air compressor receiver tank)



Simple Filter Troubleshooting

General Purpose Filter

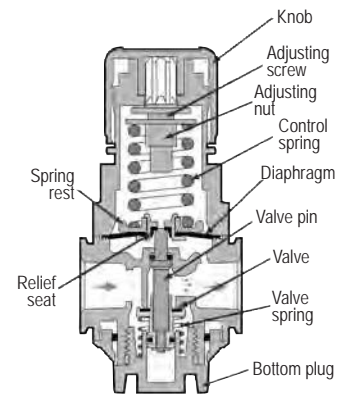


Malfunction	Possible cause	Remedy
Excessive pressure drop	Micron rating of element too small. Filter element blocked. Flow requirement greater than filter capacity.	Use larger micron element size for application. 1. Clean element (not coalescing element). 2. Replace with new element. Use larger filter.
Dirt passing through filter	Element seals missing or defective (N.B. Seals not required on some units). Damaged element.	1. Replace seal. 2. Tighten element. Replace element.
Water passing through filter	Water level in bowl above baffle. Flow capacity of filter exceeded.	Drain water. Maintain flow within capacity of filter or change to filter capable of handling desired flows.
Crazing of polycarbonate bowl or milky appearance	Bowl has been cleaned with incompatible fluid. Bowl is being used in an area containing fumes or vapors in-compatible with polycarbonate. Compressor oil vapor may be causing problem. Air intake to compressor may contain fumes or vapor in-compatible with polycarbonate.	Replace bowl. (Clean only with clean warm water and soap.) Replace bowl. Eliminate source of problem or convert from plastic to metal bowls. Replace bowl. Eliminate source of problem or convert from plastic to metal bowls. Replace bowl. Eliminate source of problem or convert from plastic to metal bowls.
Water beyond the filter	Inlet air has a high temperature and as it cools downstream, moisture condenses to water.	Fit dryer, pre-cool air or fit filter immediately prior to application.

Simple Regulator Troubleshooting

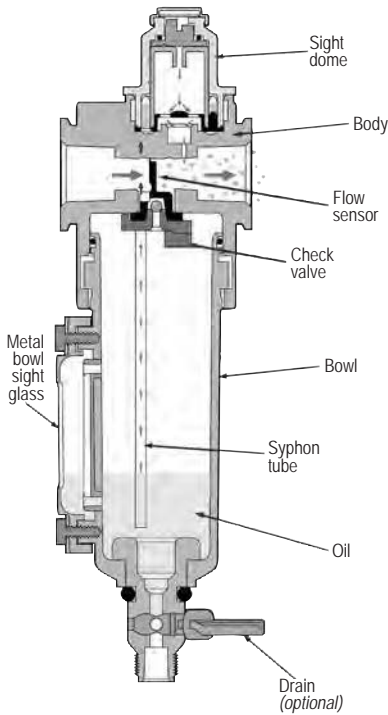
Malfunction	Possible cause	Remedy
Regulator creep (increase in secondary pressure due to leak from primary)	Dirty or cut valve elastomers. Nick in valve seat.	Replace or clean valve. If body or valve seat is damaged it can be replaced on some models. On others replacement of complete regulator is required.
Won't relieve secondary pressure	Non-relieving diaphragm assembly.	If this feature is required, replace with relieving type diaphragm assembly.
Won't reach desired pressure	Regulating spring with low spring rate.	Use regulating spring with spring rate designed to cover desired range.
Excessive leak from relief hole	Damaged relief seat. Ruptured diaphragm. Leakage past valve causing secondary to increase somewhat and open relief seat.	Replace diaphragm assembly. Replace or clean valve.
Regulator chatter	A resonant condition is generally only encountered under a certain set of conditions of flow and pressure and then only in some applications in which regulator couples with other system components.	Replace spring with a higher pressure range spring. Replace with a piston type regulator since they have less tendency to chatter.
Regulator difficult to adjust	Adjusting screw or knob locking device in locked position. Contaminants in adjusting screw threads.	Pull to unlock knob and adjust; push knob to lock. Threaded adjusting screws: loosen lock nut, remove adjusting screw, clean thread and lubricate. Place some lubricant on tip of screw.

General Purpose Regulator



Simple Lubricator Troubleshooting

Oil-Fog Lubricator



Malfunction	Possible cause	Remedy
No Drip Rate	Oil adjustment knob fully clockwise Low oil level Airflow through lubricator too low Blocked oil filter screen Air leaks	Readjust knob. Check oil level. Use smaller size lubricator. Remove bowl and sight feed adjustment dome and clear syphon tube. Remove sight feed adjustment dome and clean or replace screen located in dome assembly. Check bowl, filler plug and sight dome seals. Tighten if necessary.
Oil Foaming	Over aeration	Check bowl seals for slight leaks.
Oil Emulsified	Water in lubricator	Fit filter immediately upstream.
Drip Rate changes after setting	Fade	Readjust drip rate.

Setting Lubricator Drip Rates

What is the correct drip rate setting?

The drip rate will depend on the application, the amount of lubrication required, the flow through the lubricator and the lubricator type. In micro-fog lubricators only 10% of the droplets in the sight dome are carried downstream. The drip rate in micro-fog lubricators therefore tends to be much higher. The following table can be used to estimate drip rate for required flow. This is very much a rule of thumb. In practice it is necessary to fine tune the oil drip rate in each application.

Typical Drip Rate per Minute Micro-Fog	Typical Drip Rate per Oil-Fog	Approximate Flow SCFM (dm ³ /s)
20	2	10 (5)
40	4	20 (10)
60	6	30 (15)
80	8	40 (20)
100	10	50 (25)
120	12	60 (30)

Can the drip rate be shut off?

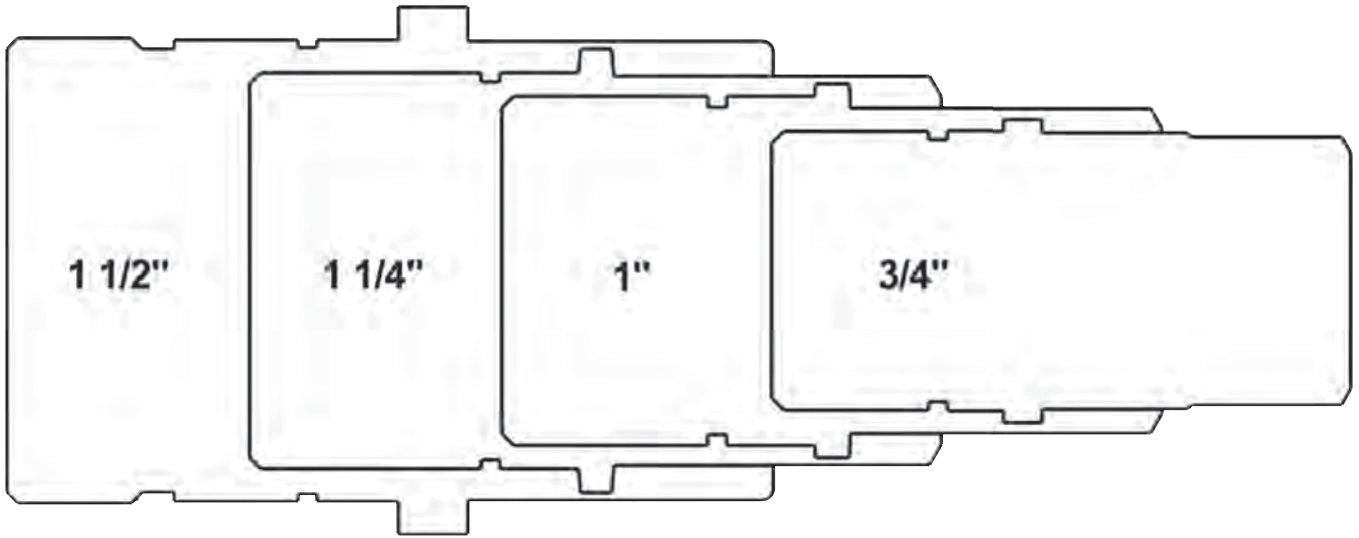
In lubricators with needle valve type sight dome, yes.
Some sight domes use a felt pad which is soaked in oil at the point where the drops are formed. With this type of sight dome the oil droplets cease once the felt pad dries out. With the new style dome (L72/73/74 and L07) complete shut off is not possible. Minimum adjustment for the drip rate is around 1 drop per minute.

Hydraulic Plug Profile Chart

Industry/Competitor Interchange

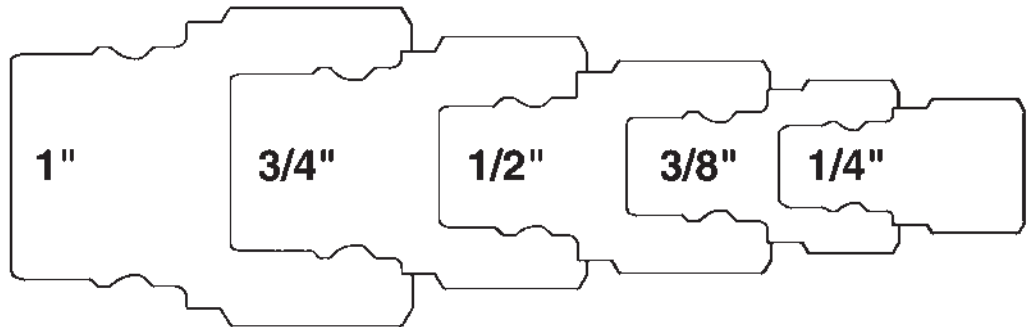
Perfecting W Series
Aeroquip 5100
Parker 6100

Dixon 7800 Series, page 366



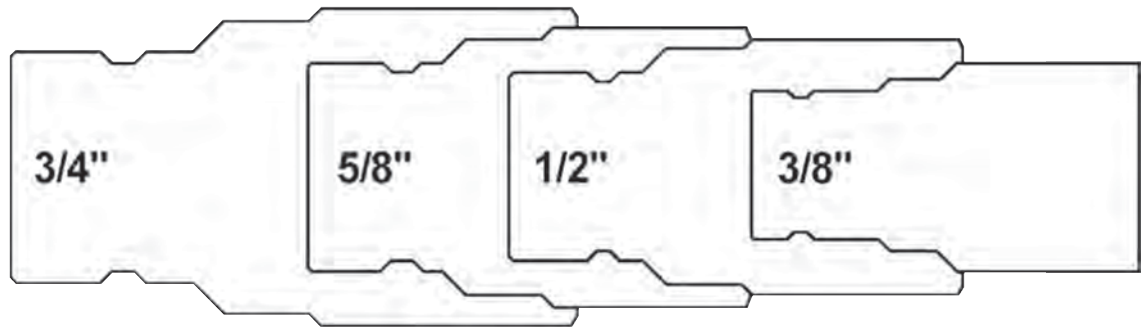
Dixon VH Series, page 370

Perfecting V Series
Snap-tite H
Faster TNV



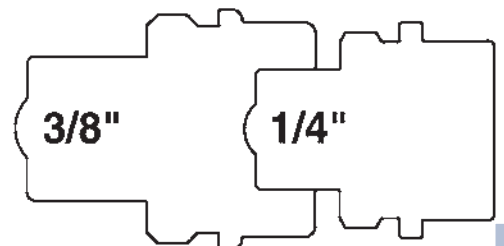
Dixon Flush Face Fittings, page 368

Perfecting HT Series
Aeroquip FD49
HTMA Parker FF



Dixon 3000 Series, page 363

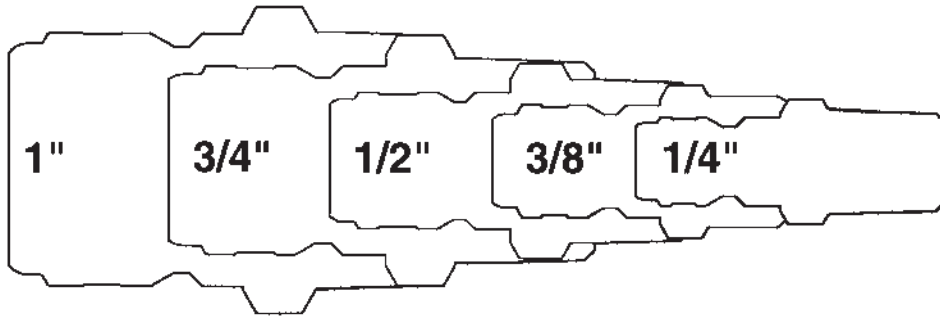
Perfecting T Series
Parker 3000
Enerpac C604



Hydraulic Plug Profile Chart

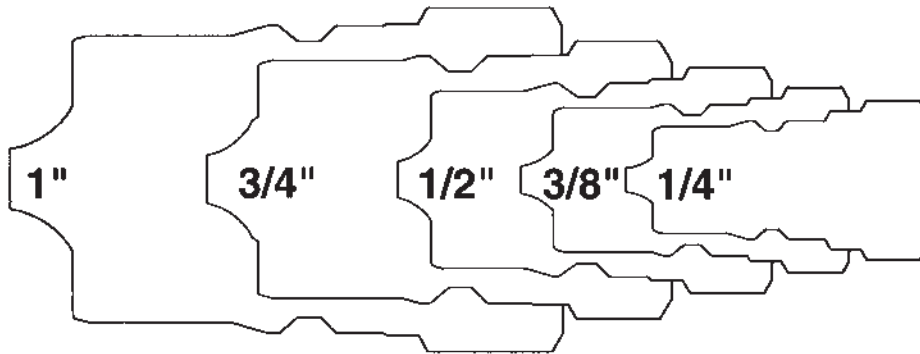
Industry/Competitor
Interchange

Dixon Straight Thru Fittings, pages 296-297



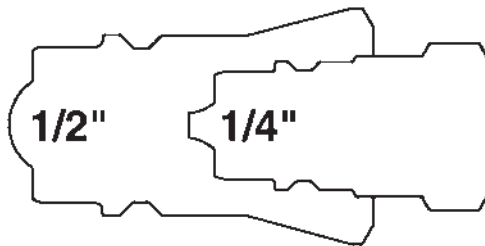
Perfecting E Series
Parker ST
Hansen ST

Dixon Industrial Fittings, page 362



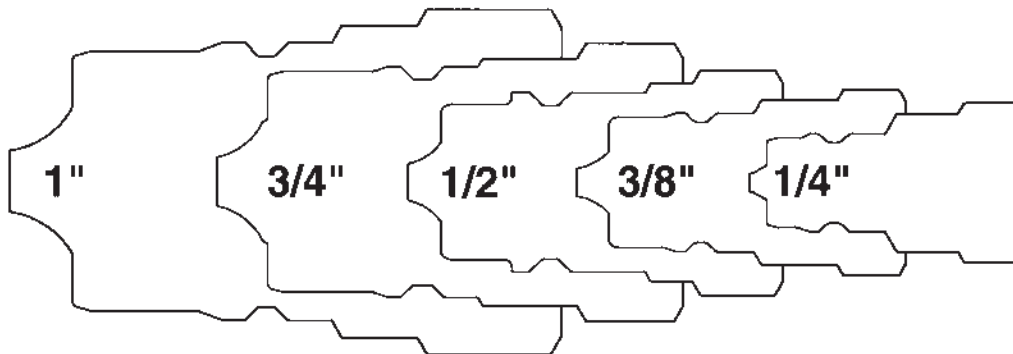
ISO 7241-B
Perfecting H Series
Hansen HK
Aeroquip FD45
Parker 60

Dixon Agricultural Fittings, page 365



Perfecting R Series
Aeroquip FD76
Parker/Pioneer 4000
Safeway S20

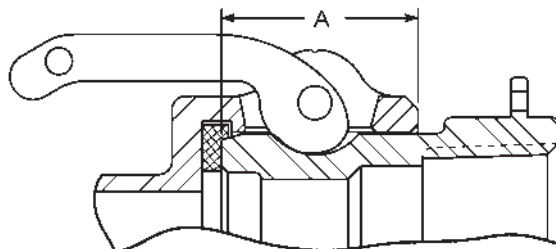
Dixon 5600 Series, page 364



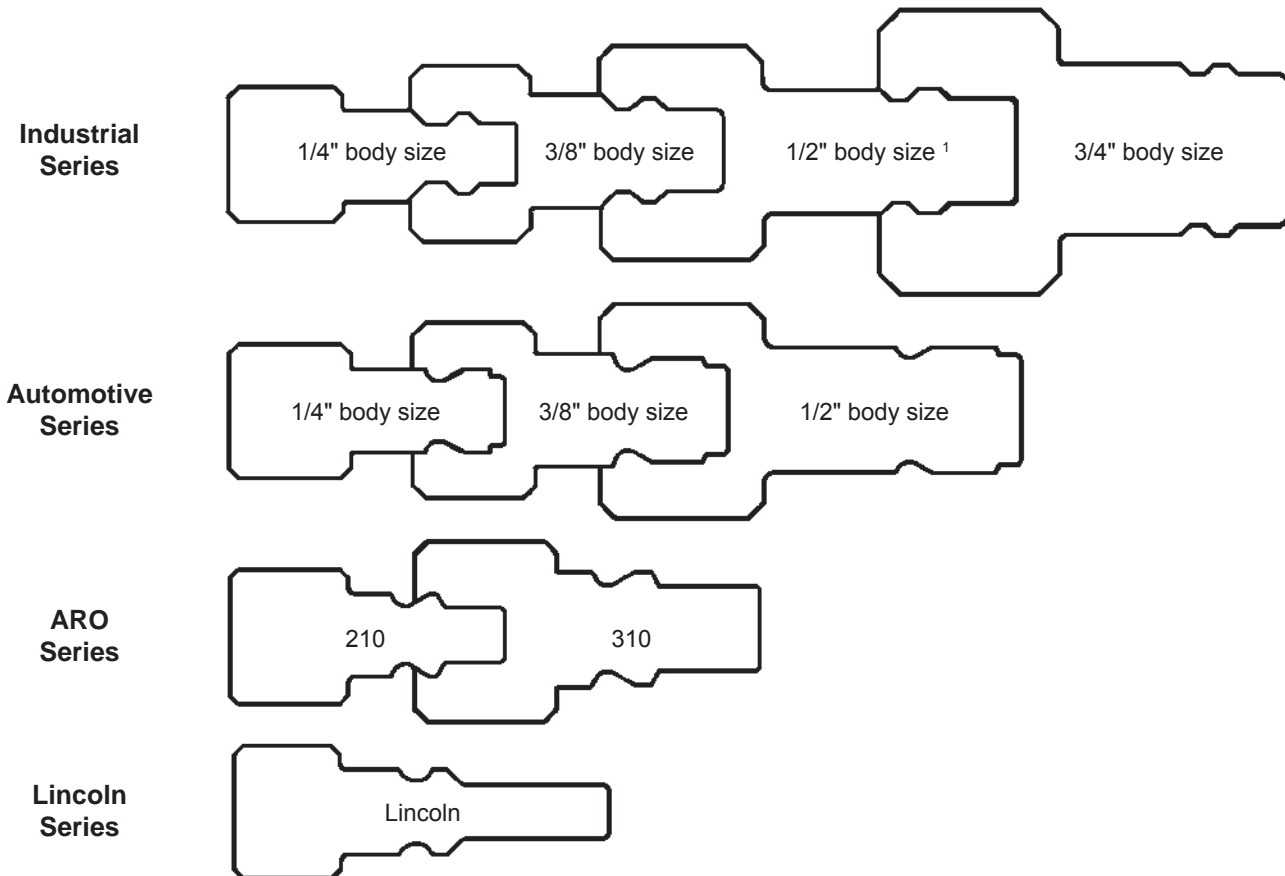
ISO 7241-A
Perfecting K Series
Aeroquip 5600
Parker 6600

Cam and Groove Nominal Take-Up Lengths

Coupling Size	Dimension A
1/2"	0.97"
3/4"	0.97"
1"	1.20"
1 1/4"	1.44"
1 1/2"	1.50"
2"	1.81"
2 1/2"	1.82"
3"	1.78"
4"	1.84"
5"	2.00"
6"	2.13"
8"	2.06"
8"	3.22"



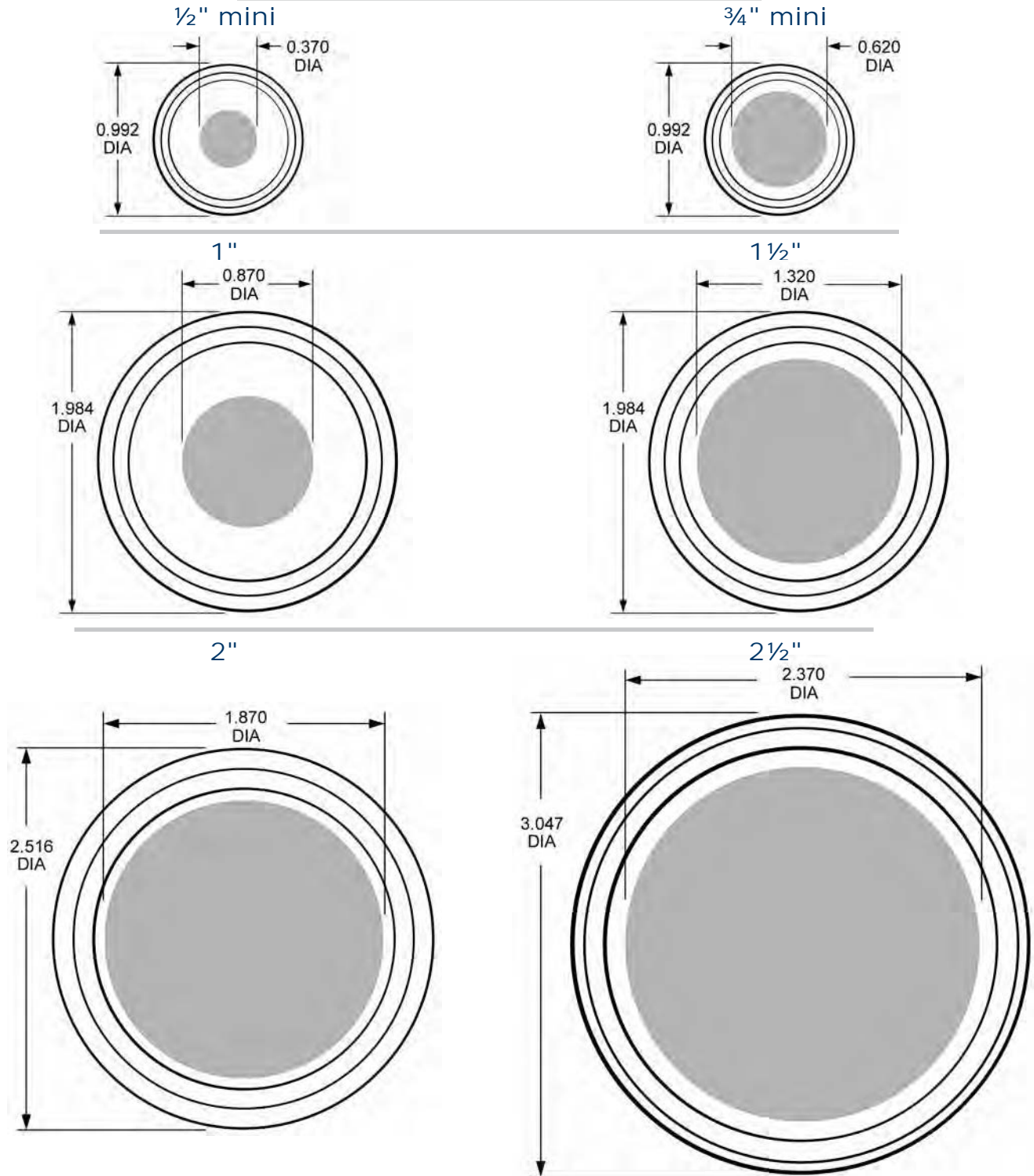
Air Chief Actual Size Profile Chart



¹ 1/2" Industrial Series may also interchange with 1/2" Automotive Series.

Sanitary Sizing Guide

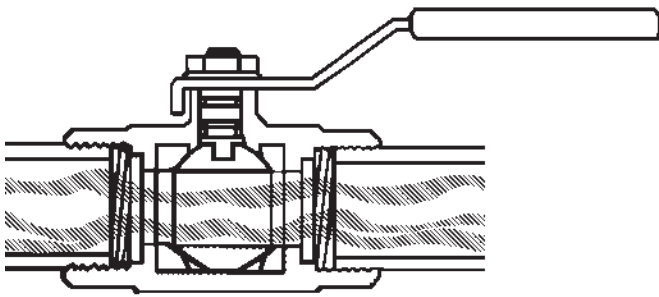
- actual size diagrams are provided to eliminate sizing errors when specifying sanitary fittings
- outside diameters are the same for 1/2" and 3/4" (0.992 OD) and 1" and 1 1/2" (1.984 OD)
- sizes 2" and above have specific outside diameter dimensions
- Diagrams are not available for 3" and above, reference the table below for information



Sanitary Size	OD of clamp end	ID of fitting	Sanitary Size	OD of clamp end	ID of fitting
1/2"	0.992	0.370	3"	3.579	2.870
3/4"	0.992	0.620	4"	4.682	3.834
1"	1.984	0.870	6"	6.562	5.782
1 1/2"	1.984	1.320	8"	8.602	7.760
2"	2.516	1.870	10"	10.570	9.782
2 1/2"	3.047	2.370	12"	12.570	11.760

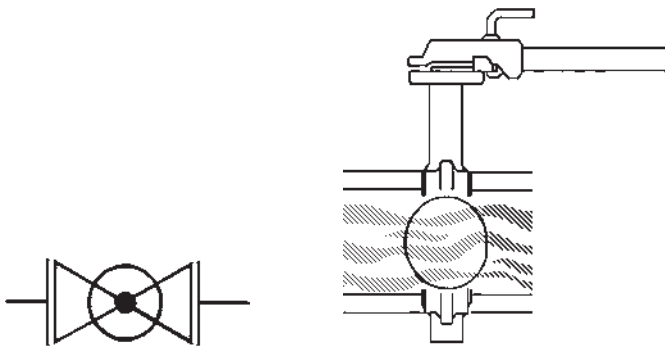
Valve Selection Guide

Ball Valve



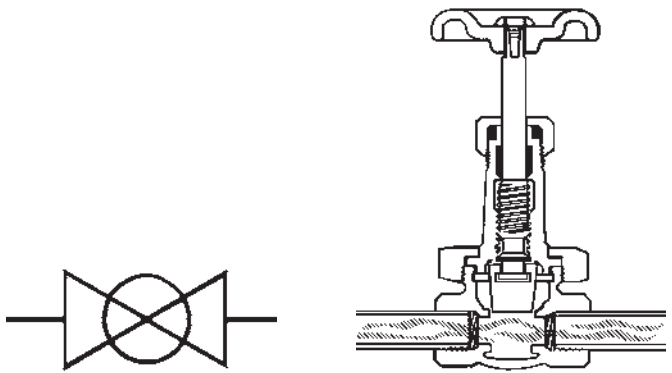
- can be used for on and off service or throttling
- when positive shut-off is necessary
- where a low valve profile is necessary
- only 90° rotation from open to fully closed (quick opening)
- Handle position is a quick indication of whether valve is open or closed.
- full port ball valves do not resist flow

Butterfly Valve



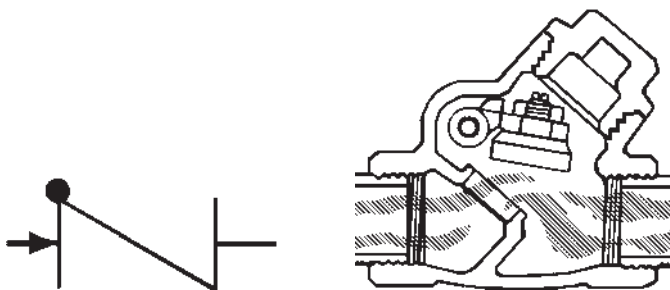
- where positive shut-off is necessary
- primarily for fully open or fully closed applications
- may be used for throttling
- only 90° rotation from open to fully closed
- lightweight
- easy to install
- less costly than an iron body gate valve

Gate Valve



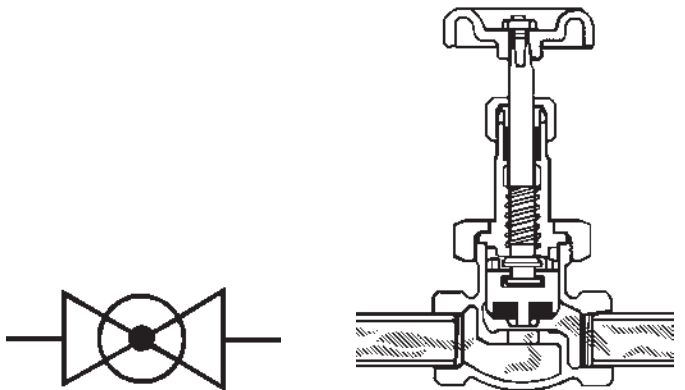
- for fully open or fully closed service - not for throttling
- for minimum line pressure drop
- for minimum fluid entrapment in the line
- for relatively infrequent operation

Check Valve



- To control the direction of flow and for quick, automatic reactions to flow change. Swing check valves are used when a minimum resistance to flow is required.
- Swing check valves are recommended for use in conjunction with gate valves. They should not be used in a rapid recycling system such as reciprocating pumps or air compressor service where they could cause chatter and damaging vibration.

Globe Valve

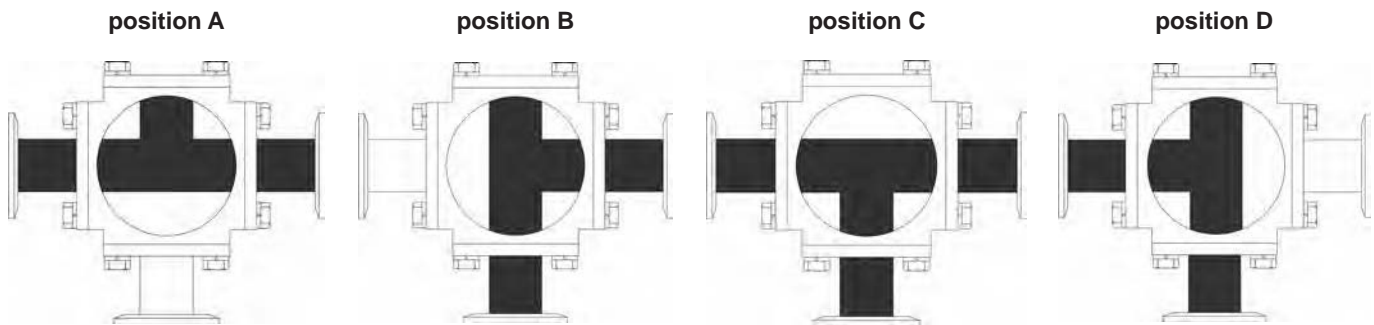


- for regulation (throttling) of flow
- for frequent operation; short stem travel reduces operator's time
- where some line resistance is acceptable

3-Way Ball Valve Flow Options

'T' Pattern, Side Entry

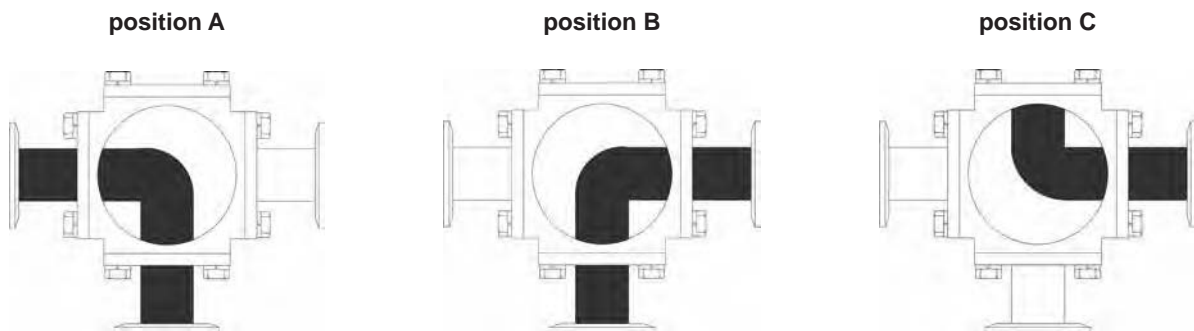
Top view



Number	Rotation	Flow Plan Options
1	90°	A, B
2	90°	B, C
3	90°	C, D
4	90°	A, D
5	180°	A, B, C
6	180°	B, C, D
7	180°	A, C, D
8	180°	A, B, D

'L' Pattern, Side Entry

Top view



Number	Rotation	Flow Plan Options
1	90°	A, B
2	180°	A, B, C

Crimp Recommendations

The crimp recommendation charts on pages 729-740 are only guides. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety. Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot. These inconsistencies coupled with the inherent differences between textile or wire braid, hard or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules. Therefore, it's imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.

Crimp Dix-Lock and Dual-Lock Recommendation Guide

• see pages 112-114 and 115-116 for the Dix-Lock and Dual-Lock products

Hose ID	Part #	Hose OD		Crimp Diameter (±0.005)	Crimp Length		% Reduction
		Fractional	Decimal		QM/QB	PHL	
1/2"	QM3WF QB3WF QM22WF QB22WF QM33WF QB33WF PHL8WF	54/64	0.844	0.925	1-1/8	1-1/4	18.9
		55/64	0.859	0.940	1-1/8	1-1/4	18.1
		56/64	0.875	0.950	1-1/8	1-1/4	18.9
		57/64	0.891	0.965	1-1/8	1-1/4	18.4
		58/64	0.906	0.975	1-1/8	1-1/4	19.0
		59/64	0.922	0.990	1-1/8	1-1/4	18.5
		60/64	0.938	1.005	1-1/8	1-1/4	18.0
		61/64	0.953	1.015	1-1/8	1-1/4	18.5
		62/64	0.969	1.030	1-1/8	1-1/4	18.1
		63/64	0.984	1.040	1-1/8	1-1/4	18.6
		1	1.000	1.055	1-1/8	1-1/4	18.2
		1-1/64	1.016	1.065	1-1/8	1-1/4	18.8
		1-2/64	1.031	1.080	1-1/8	1-1/4	18.3
		3/4"	QM4WF QB4WF QM23WF QB23WF QM44WF QB44WF PHL12WF	1-10/64	1.156	1.220	1-1/4
1-11/64	1.171			1.235	1-1/4		18.0
1-12/64	1.187			1.244	1-1/4		18.7
1-13/64	1.203			1.260	1-1/4		18.1
1-14/64	1.218			1.270	1-1/4		18.8
1-15/64	1.234			1.285	1-1/4		18.2
1-16/64	1.250			1.295	1-1/4		18.8
1-17/64	1.265			1.310	1-1/4		18.4
1-18/64	1.281			1.320	1-1/4		18.8
1-19/64	1.296			1.335	1-1/4		18.5
1-20/64	1.312			1.345	1-1/4		19.0
1-21/64	1.328			1.360	1-1/4		18.5
1-22/64	1.343			1.370	1-1/4		19.0

Crimp 3500 Nipple Recommendation Guide

• see page 117 for the 3500 nipples

Hose ID	Part #	Hose OD		Crimp Diameter (±0.005)	Crimp Length	% Reduction
		Fractional	Decimal			
1/2"	3512WF	54/64	0.844	0.906	1-1/4	21.1
		55/64	0.859	0.906	1-1/4	24.5
		56/64	0.875	0.938	1-1/4	19.3
		57/64	0.891	0.938	1-1/4	22.6
		58/64	0.906	0.969	1-1/4	17.8
		1-10/64	1.156	1.218	1-7/16	17.8
3/4"	3514WF	1-11/64	1.171	1.218	1-7/16	20.7
		1-12/64	1.187	1.218	1-7/16	23.6
		1-13/64	1.203	1.250	1-7/16	19.4
		1-14/64	1.218	1.250	1-7/16	22
		1-30/64	1.468	1.500	1-15/16	23
1"	3518WF	1-31/64	1.484	1.531	1-15/16	19
		1-32/64	1.500	1.531	1-15/16	21.6
		1-33/64	1.515	1.563	1-15/16	17.9
		1-34/64	1.531	1.563	1-15/16	20.3



Crimp Air King Recommendation Guide

• see page 107 for Air King products

Hose ID	Part #	Hose OD		Crimp Diameter (±0.005)	Crimp Length	% Reduction		
		Fractional	Decimal					
½"	AM1WF	54/64	0.843	0.906	1-1/4	18.3		
		55/64	0.859	0.937	1-1/4	13.2		
		56/64	0.875	0.937	1-1/4	16.9		
		57/64	0.890	0.968	1-1/4	12.1		
		58/64	0.906	0.968	1-1/4	15.5		
		59/64	0.921	1.000	1-1/4	11.1		
		60/64	0.937	1.000	1-1/4	14.4		
		61/64	0.953	1.000	1-1/4	17.2		
		62/64	0.968	1.031	1-1/4	13.4		
		63/64	0.984	1.031	1-1/4	16.1		
		1	1.000	1.062	1-1/4	12.7		
		1-1/64	1.015	1.062	1-1/4	15.3		
		1-2/64	1.031	1.093	1-1/4	12.0		
¾"	AM6WF RAM6WF	1-4/64	1.062	1.156	1-1/4	13.4		
		1-5/64	1.078	1.156	1-1/4	17.3		
		1-6/64	1.093	1.187	1-1/4	11.9		
		1-7/64	1.109	1.187	1-1/4	15.8		
		1-8/64	1.125	1.218	1-1/4	11.2		
		1-9/64	1.140	1.218	1-1/4	14.6		
		1-10/64	1.156	1.218	1-1/4	17.5		
		1-11/64	1.171	1.250	1-1/4	13.0		
		1-12/64	1.187	1.250	1-1/4	16.2		
		1-13/64	1.203	1.281	1-1/4	12.3		
		1-14/64	1.218	1.281	1-1/4	15.1		
		1-15/64	1.234	1.312	1-1/4	11.5		
		1-16/64	1.250	1.312	1-1/4	14.4		
		1-17/64	1.265	1.312	1-1/4	16.9		
		1-18/64	1.281	1.343	1-1/4	13.5		
		1-19/64	1.296	1.343	1-1/4	15.9		
		1-20/64	1.312	1.375	1-1/4	12.6		
		1-21/64	1.328	1.375	1-1/4	15.0		
		1-22/64	1.343	1.406	1-1/4	12.1		
		1"	AM11WF-1	1-18/64	1.281	1.375	1-1/2	16.7
				1-19/64	1.296	1.375	1-1/2	20.5
				1-20/64	1.312	1.406	1-1/2	15.0
1-21/64	1.328			1.406	1-1/2	18.6		
1-22/64	1.343			1.437	1-1/2	13.7		
1-23/64	1.359			1.437	1-1/2	17.5		
1-24/64	1.375			1.468	1-1/2	12.8		
1-25/64	1.390			1.468	1-1/2	16.1		
1-26/64	1.406			1.500	1-1/2	11.5		
1-27/64	1.421			1.500	1-1/2	14.7		
1-28/64	1.437			1.500	1-1/2	17.6		
1-29/64	1.453			1.531	1-1/2	13.9		
AM11WF-1 AM11WF	1-30/64		1.468	1.531	1-1/2	16.8		
	1-31/64		1.484	1.562	1-1/2	12.8		
	1-32/64		1.500	1.562	1-1/2	15.4		
	1-33/64		1.515	1.593	1-1/2	12.0		
	1-34/64		1.531	1.593	1-1/2	14.7		
	AM11WF		1-35/64	1.546	1.625	1-1/2	11.1	
1-36/64			1.562	1.625	1-1/2	13.7		
1-37/64			1.578	1.625	1-1/2	15.9		
1-38/64			1.593	1.656	1-1/2	12.9		
1-39/64			1.609	1.656	1-1/2	15.1		
1-40/64			1.625	1.687	1-1/2	12.4		
1-41/64			1.640	1.687	1-1/2	14.5		
1-42/64			1.656	1.718	1-1/2	11.8		
1-43/64			1.671	1.718	1-1/2	14.0		
1-44/64			1.687	1.750	1-1/2	11.3		
1-45/64			1.703	1.750	1-1/2	13.3		
1-46/64			1.718	1.750	1-1/2	15.1		

Crimp Global Air King Recommendation Guide

- see page 106-107 for Global Air King products

1/2" Global Air King

Hose ID	Stem Part #	Ferrule Part #	Hose OD		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
1/2"	GAM1	CCF0906	54/64	0.8438	0.840	15
		CCF0906	55/64	0.8594	0.853	15
		CCF0906	56/64	0.8750	0.867	15

3/4" Global Air King

Hose ID	Stem Part #	Ferrule Part #	Hose OD		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
3/4"	GAM6	CCF1120	1-5/64	1.0781	1.082	20
		CCF1120	1-6/64	1.0938	1.094	20
		CCF1149	1-7/64	1.1094	1.107	20
		CCF1149	1-8/64	1.1250	1.119	20
		CCF1190	1-9/64	1.1406	1.122	20
		CCF1190	1-10/64	1.1563	1.134	20
		CCF1218	1-11/64	1.1719	1.147	20
		CCF1218	1-12/64	1.1875	1.159	20
		CCF1246	1-13/64	1.2031	1.182	20
		CCF1246	1-14/64	1.2188	1.194	20

1" Global Air King

Hose ID	Stem Part #	Ferrule Part #	Hose OD		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
1"	GAM7	CCF1438	1-25/64	1.3906	1.388	20
		CCF1438	1-26/64	1.4063	1.400	20
		CCF1469	1-27/64	1.4219	1.413	20
		CCF1469	1-28/64	1.4375	1.425	20
		CCF1500	1-29/64	1.4531	1.438	20
		CCF1500	1-30/64	1.4688	1.450	20
		CCF1531	1-31/64	1.4844	1.463	20
		CCF1531	1-32/64	1.5000	1.475	20



Crimp Surelock Recommendation Guide

• see page 110 for Surelock products

Hose ID	Part #	Hose OD		Crimp Diameter (±0.005)	Crimp Length	% Reduction		
		Fractional	Decimal					
½"	SL050CR	54/64	0.843	0.969	1-1/4	16.6		
		55/64	0.859	0.969	1-1/4	20.2		
		56/64	0.875	0.969	1-1/4	23.5		
		57/64	0.890	1.000	1-1/4	18.6		
		58/64	0.906	1.000	1-1/4	21.7		
		59/64	0.921	1.031	1-1/4	17.2		
		60/64	0.937	1.031	1-1/4	20.2		
		61/64	0.953	1.032	1-1/4	23.0		
		62/64	0.968	1.063	1-1/4	18.8		
		63/64	0.984	1.063	1-1/4	21.5		
		1	1.000	1.094	1-1/4	17.7		
		1-1/64	1.015	1.094	1-1/4	20.2		
		1-2/64	1.031	1.094	1-1/4	22.5		
		¾"	SL075CR	1-4/64	1.062	1.156	1-1/4	18.8
1-5/64	1.078			1.156	1-1/4	22.7		
1-6/64	1.093			1.188	1-1/4	17.1		
1-7/64	1.109			1.188	1-1/4	20.7		
1-8/64	1.125			1.188	1-1/4	24.0		
1-9/64	1.140			1.219	1-1/4	19.0		
1-10/64	1.156			1.219	1-1/4	22.2		
1-11/64	1.171			1.250	1-1/4	17.6		
1-12/64	1.187			1.250	1-1/4	20.6		
1-13/64	1.203			1.250	1-1/4	23.3		
1-14/64	1.218			1.281	1-1/4	19.2		
1-15/64	1.234			1.281	1-1/4	21.8		
1-16/64	1.250			1.313	1-1/4	18.0		
1-17/64	1.265			1.313	1-1/4	20.5		
1-18/64	1.281			1.313	1-1/4	22.8		
1-19/64	1.296			1.344	1-1/4	19.3		
1-20/64	1.312			1.344	1-1/4	21.6		
1-21/64	1.328			1.375	1-1/4	18.3		
1-22/64	1.343			1.375	1-1/4	20.4		
1"	SL100CR			1-30/64	1.468	1.500	1-1/2	21.9
				1-31/64	1.484	1.531	1-1/2	18.0
				1-32/64	1.500	1.531	1-1/2	20.6
		1-33/64	1.515	1.531	1-1/2	23.0		
		1-34/64	1.531	1.563	1-1/2	19.3		
		1-35/64	1.546	1.563	1-1/2	21.7		
		1-36/64	1.562	1.594	1-1/2	18.3		
		1-37/64	1.578	1.594	1-1/2	20.5		
		1-38/64	1.593	1.625	1-1/2	17.3		
		1-39/64	1.609	1.625	1-1/2	19.4		
		1-40/64	1.625	1.625	1-1/2	21.4		
		1-41/64	1.640	1.656	1-1/2	18.5		
		1-42/64	1.656	1.656	1-1/2	20.4		
		1-43/64	1.671	1.688	1-1/2	17.6		
		1-44/64	1.687	1.688	1-1/2	19.5		
		1-45/64	1.703	1.688	1-1/2	21.3		
		1-46/64	1.718	1.719	1-1/2	18.6		
		1½"	SL150CR	2-1/64	2.015	2.094	2-7/8	19.9
2-2/64	2.031			2.094	2-7/8	22.3		
2-3/64	2.046			2.125	2-7/8	18.8		
2-4/64	2.062			2.125	2-7/8	21.1		
2-5/64	2.078			2.125	2-7/8	23.2		
2-6/64	2.093			2.156	2-7/8	20.0		
2-7/64	2.109			2.156	2-7/8	22.0		
2-8/64	2.125			2.188	2-7/8	19.0		
2"	SL200CR	2-41/64	2.640	2.718	3	20.1		
		2-42/64	2.656	2.750	3	17.3		
		2-43/64	2.671	2.750	3	19.2		
		2-44/64	2.687	2.750	3	21.0		
		2-45/64	2.703	2.781	3	18.3		
		2-46/64	2.718	2.781	3	20.1		
		2-47/64	2.734	2.813	3	17.6		
		2-48/64	2.750	2.813	3	19.3		

Crimp Sanitary Recommendation Guide

• see page 411 for Crimp Sanitary products

1", 1½" and 3" Crimped Sanitary Fittings

Hose ID	Stem Part #	Ferrule Part #	Hose OD		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
1"	CSSR100 CBSR100	F16G-1453	1-26/64	1.406	1.565	23%
			1-27/64	1.422	1.577	23%
			1-28/64	1.438	1.589	23%
		F16G-1500	1-29/64	1.453	1.601	23%
			1-30/64	1.469	1.613	23%
			1-31/64	1.484	1.625	23%
		F16G-1547	1-32/64	1.500	1.637	23%
			1-33/64	1.516	1.649	23%
			1-34/64	1.531	1.661	23%
		F16G-1594	1-35/64	1.547	1.673	23%
			1-36/64	1.563	1.685	23%
			1-37/64	1.578	1.697	23%
		F16G-1641	1-38/64	1.594	1.709	23%
			1-39/64	1.609	1.721	23%
			1-40/64	1.625	1.733	23%
1½"	CSSR150 CBSR150 CILR150 CTER150	F24G-1969	1-58/64	1.906	2.063	23%
			1-59/64	1.922	2.075	23%
			1-60/64	1.938	2.087	23%
			1-61/64	1.953	2.099	23%
		F24G-2031	1-62/64	1.969	2.111	23%
			1-63/64	1.984	2.123	23%
			2	2.000	2.135	23%
			2-1/64	2.016	2.147	23%
		F24G-2094	2-2/64	2.031	2.159	23%
			2-3/64	2.047	2.171	23%
			2-4/64	2.063	2.183	23%
			2-5/64	2.078	2.195	23%
		F24G-2156	2-6/64	2.094	2.207	23%
			2-7/64	2.109	2.219	23%
			2-8/64	2.125	2.231	23%
2-9/64	2.141		2.243	23%		
2"	CSSR200 CBSR200 CILR200 CTER200	F32G-2531	2-30/64	2.469	2.611	23%
			2-31/64	2.484	2.623	23%
			2-32/64	2.500	2.635	23%
			2-33/64	2.516	2.647	23%
		F32G-2594	2-34/64	2.531	2.659	23%
			2-35/64	2.547	2.671	23%
			2-36/64	2.563	2.683	23%
			2-37/64	2.578	2.695	23%
		F32G-2656	2-38/64	2.594	2.707	23%
			2-39/64	2.609	2.719	23%
			2-40/64	2.625	2.731	23%
			2-41/64	2.641	2.743	23%
		F32G-2719	2-42/64	2.656	2.755	23%
			2-43/64	2.672	2.767	23%
			2-44/64	2.688	2.779	23%
2-45/64	2.703		2.791	23%		
3"	CSSR300 CBSR300 CILR300 CTER300	F48G-3625	3-36/64	3.563	3.683	23%
			3-37/64	3.578	3.695	23%
			3-38/64	3.594	3.707	23%
			3-39/64	3.609	3.719	23%
		F48G-3688	3-40/64	3.625	3.731	23%
			3-41/64	3.641	3.743	23%
			3-42/64	3.656	3.755	23%
			3-43/64	3.672	3.767	23%
		F48G-3750	3-44/64	3.688	3.779	23%
			3-45/64	3.703	3.791	23%
			3-46/64	3.719	3.803	23%
			3-47/64	3.734	3.815	23%
		F48G-3813	3-48/64	3.750	3.828	23%
			3-49/64	3.766	3.840	23%
			3-50/64	3.781	3.852	23%
3-51/64	3.797		3.864	23%		
F48G-3875	3-52/64	3.813	3.876	23%		
	3-53/64	3.828	3.888	23%		
	3-54/64	3.844	3.900	23%		
	3-55/64	3.859	3.912	23%		
F48G-3938	3-56/64	3.875	3.924	23%		
	3-57/64	3.891	3.936	23%		
	3-58/64	3.906	3.948	23%		
	3-59/64	3.922	3.960	23%		



Crimp Sanitary Recommendation Guide

• see page 411 for Crimp Sanitary products

4" Crimped Sanitary Fittings

Hose ID	Stem Part #	Ferrule Part #	Hose OD		Crimp Diameter (±0.005)	% Reduction
			Fractional	Decimal		
4"	CSSR400 CBSR400 CILR400 CTER400	F64G-4688	4-40/64	4.625	4.857	23%
			4-41/64	4.641	4.869	23%
			4-42/64	4.656	4.881	23%
			4-43/64	4.672	4.893	23%
		F64G-4750	4-44/64	4.688	4.905	23%
			4-45/64	4.703	4.917	23%
			4-46/64	4.719	4.929	23%
			4-47/64	4.734	4.941	23%
		F64G-4813	4-48/64	4.750	4.954	23%
			4-49/64	4.766	4.966	23%
			4-50/64	4.781	4.978	23%
			4-51/64	4.797	4.990	23%
		F64G-4875	4-52/64	4.813	5.002	23%
			4-53/64	4.828	5.014	23%
			4-54/64	4.844	5.026	23%
			4-55/64	4.859	5.038	23%
		F64G-4938	4-56/64	4.875	5.050	23%
			4-57/64	4.891	5.062	23%
			4-58/64	4.906	5.074	23%
			4-59/64	4.922	5.086	23%

Crimp Recommendation Guide

• see pages 12-21 for Crimp products

Hose ID	Cam & Groove Coupler Part #	Cam & Groove Adapter Part #	King Combination Nipple Part #	Sleeve & Ferrule Part #	Hose Range		Hose OD	Crimp Diameter (± 0.005)
					From	To		
1"	100-C-AL 100-C-BR 100-C-SS RC100EZCR G100-C-ALCR G100-C-BRCR G100-C-SSCR	100-E-AL 100-E-BR 100-E-SS G100-E-ALCR G100-E-BRCR G100-E-SSCR	STC10CS RST10CS STV10CS RSTV10CS STB10CS RSTB10CS	CS100-1xx CF100-1xx	1-13/64	1-16/64	1 13/64	1.266
							1 14/64	1.278
							1 15/64	1.290
							1 16/64	1.303
				CS100-2xx CF100-2xx	1-17/64	1-20/64	1 17/64	1.317
							1 18/64	1.329
							1 19/64	1.342
							1 20/64	1.354
				CS100-3xx CF100-3xx	1-21/64	1-24/64	1 21/64	1.366
							1 22/64	1.378
							1 23/64	1.390
							1 24/64	1.403
				CS100-4xx CF100-4xx	1-25/64	1-28/64	1 25/64	1.419
							1 26/64	1.431
							1 27/64	1.443
							1 28/64	1.456
				CS100-5xx CF100-5xx	1-29/64	1-32/64	1 29/64	1.468
							1 30/64	1.480
							1 31/64	1.493
							1 32/64	1.505
				CS100-6xx CF100-6xx	1-33/64	1-36/64	1 33/64	1.517
							1 34/64	1.530
							1 35/64	1.542
							1 36/64	1.554
				CS100-7xx CF100-7xx	1-37/64	1-40/64	1 37/64	1.567
							1 38/64	1.579
							1 39/64	1.591
							1 40/64	1.604
				CS100-8xx CF100-8xx	1-41/64	1-44/64	1 41/64	1.616
							1 42/64	1.628
							1 43/64	1.641
							1 44/64	1.653
				CS100-9xx CF100-9xx	1-45/64	1-48/64	1 45/64	1.665
							1 46/64	1.678
							1 47/64	1.690
							1 48/64	1.703
				CS100-10xx CF100-10xx	1-49/64	1-52/64	1 49/64	1.715
							1 50/64	1.727
							1 51/64	1.740
							1 52/64	1.752



Crimp Recommendation Guide

• see pages 12-21 for Crimp products

Hose ID	Cam & Groove Coupler Part #	Cam & Groove Adapter Part #	King Combination Nipple Part #	Sleeve & Ferrule Part #	Hose Range		Hose OD	Crimp Diameter (± 0.005)				
					From	To						
1½"	150-C-AL 150-C-BR 150-C-SS RC150EZCR G150-C-ALCR G150-C-BRCR G150-C-SSCR	150-E-AL 150-E-BR 150-E-SS G150-E-ALCR G150-E-BRCR G150-E-SSCR	STC20CS RST20CS STV20CS RSTV20CS STB20CS RSTB20CS FST20CS RFST20CS	CS150-1xx CF150-1xx	1-41/64	1-44/64	1 41/64	1.726				
							1 42/64	1.738				
							1 43/64	1.749				
											1 44/64	1.761
								CS150-2xx CF150-2xx	1-45/64	1-48/64	1 45/64	1.778
											1 46/64	1.790
											1 47/64	1.802
											1 48/64	1.815
								CS150-3xx CF150-3xx	1-49/64	1-52/64	1 49/64	1.829
											1 50/64	1.841
											1 51/64	1.854
											1 52/64	1.866
								CS150-4xx CF150-4xx	1-53/64	1-56/64	1 53/64	1.878
											1 54/64	1.890
											1 55/64	1.902
											1 56/64	1.915
								CS150-5xx CF150-5xx	1-57/64	1-60/64	1 57/64	1.931
											1 58/64	1.943
											1 59/64	1.955
											1 60/64	1.968
								CS150-6xx CF150-6xx	1-61/64	2	1 61/64	1.980
											1 62/64	1.992
											1 63/64	2.005
											2	2.017
								CS150-7xx CF150-7xx	2-1/64	2-4/64	2 1/64	2.029
											2 2/64	2.042
											2 3/64	2.054
											2 4/64	2.066
								CS150-8xx CF150-8xx	2-5/64	2-8/64	2 5/64	2.079
											2 6/64	2.091
											2 7/64	2.103
											2 8/64	2.116
								CS150-9xx CF150-9xx	2-9/64	2-12/64	2 9/64	2.128
											2 10/64	2.140
											2 11/64	2.153
											2 12/64	2.165
								CS150-10xx CF150-10xx	2-13/64	2-16/64	2 13/64	2.177
											2 14/64	2.190
											2 15/64	2.202
											2 16/64	2.215
								CS150-11xx CF150-11xx	2-17/64	2-20/64	2 17/64	2.227
											2 18/64	2.239
											2 19/64	2.252
											2 20/64	2.264
								CS150-12xx CF150-12xx	2-21/64	2-24/64	2 21/64	2.276
											2 22/64	2.289
											2 23/64	2.301
											2 24/64	2.313

Crimp Recommendation Guide

• see pages 12-21 for Crimp products

Hose ID	Cam & Groove Coupler Part #	Cam & Groove Adapter Part #	King Combination Nipple Part #	Sleeve & Ferrule Part #	Hose Range		Hose OD	Crimp Diameter (± 0.005)				
					From	To						
2"	200-C-AL 200-C-BR 200-C-SS RC200EZCR G200-C-ALCR G200-C-BRCR G200-C-SSCR	200-E-AL 200-E-BR 200-E-SS G200-E-ALCR G200-E-BRCR G200-E-SSCR	STC25CS RST25CS STV25CS RSTV25CS STB25CS RSTB25CS FST25CS RFST25CS	CS200-1xx CF200-1xx	2-13/64	2-16/64	2 13/64	2.278				
							2 14/64	2.290				
							2 15/64	2.302				
											2 16/64	2.315
								CS200-2xx CF200-2xx	2-17/64	2-20/64	2 17/64	2.329
											2 18/64	2.341
											2 19/64	2.354
											2 20/64	2.366
								CS200-3xx CF200-3xx	2-21/64	2-24/64	2 21/64	2.378
											2 22/64	2.390
											2 23/64	2.402
											2 24/64	2.415
								CS200-4xx CF200-4xx	2-25/64	2-28/64	2 25/64	2.431
											2 26/64	2.443
											2 27/64	2.455
											2 28/64	2.468
								CS200-5xx CF200-5xx	2-29/64	2-32/64	2 29/64	2.480
											2 30/64	2.492
											2 31/64	2.505
											2 32/64	2.517
								CS200-6xx CF200-6xx	2-33/64	2-36/64	2 33/64	2.529
											2 34/64	2.542
											2 35/64	2.554
											2 36/64	2.566
								CS200-7xx CF200-7xx	2-37/64	2-40/64	2 37/64	2.579
											2 38/64	2.591
											2 39/64	2.603
											2 40/64	2.616
								CS200-8xx CF200-8xx	2-41/64	2-44/64	2 41/64	2.628
											2 42/64	2.640
											2 43/64	2.653
											2 44/64	2.665
								CS200-9xx CF200-9xx	2-45/64	2-48/64	2 45/64	2.677
											2 46/64	2.690
											2 47/64	2.702
											2 48/64	2.715
								CS200-10xx CF200-10xx	2-49/64	2-52/64	2 49/64	2.727
											2 50/64	2.739
											2 51/64	2.752
											2 52/64	2.764
								CS200-11xx CF200-11xx	2-53/64	2-56/64	2 53/64	2.776
											2 54/64	2.789
											2 55/64	2.801
											2 56/64	2.813
								CS200-12xx CF200-12xx	2-57/64	2-60/64	2 57/64	2.826
											2 58/64	2.838
											2 59/64	2.850
											2 60/64	2.863



Crimp Recommendation Guide

• see pages 12-21 for Crimp products

Hose ID	Cam & Groove Coupler Part #	Cam & Groove Adapter Part #	King Combination Nipple Part #	Sleeve & Ferrule Part #	Hose Range		Hose OD	Crimp Diameter (± 0.005)						
					From	To								
3"	300-C-AL 300-C-BR 300-C-SS RC300EZCR G300-C-ALCR G300-C-BRCR G300-C-SSCR	300-E-AL 300-E-BR 300-E-SS G300-E-ALCR G300-E-BRCR G300-E-SSCR	STC35CS RST35CS STV35CS RSTV35CS STB35CS RSTB35CS FST35CS RFST35CS	CS300-1xx CF300-1xx	3-13/64	3-16/64	3 13/64	3.333						
							3 14/64	3.345						
											3 15/64	3.357		
											3 16/64	3.370		
								CS300-2xx CF300-2xx	3-17/64	3-20/64	3 17/64	3.384		
													3 18/64	3.396
													3 19/64	3.409
											3 20/64	3.421		
								CS300-3xx CF300-3xx	3-21/64	3-24/64	3 21/64	3.433		
													3 22/64	3.445
													3 23/64	3.457
											3 24/64	3.470		
								CS300-4xx CF300-4xx	3-25/64	3-28/64	3 25/64	3.486		
													3 26/64	3.498
													3 27/64	3.510
											3 28/64	3.523		
								CS300-5xx CF300-5xx	3-29/64	3-32/64	3 29/64	3.535		
													3 30/64	3.547
													3 31/64	3.560
											3 32/64	3.572		
								CS300-6xx CF300-6xx	3-33/64	3-36/64	3 33/64	3.584		
													3 34/64	3.597
													3 35/64	3.609
											3 36/64	3.621		
								CS300-7xx CF300-7xx	3-37/64	3-40/64	3 37/64	3.634		
													3 38/64	3.646
													3 39/64	3.658
											3 40/64	3.671		
								CS300-8xx CF300-8xx	3-41/64	3-44/64	3 41/64	3.683		
													3 42/64	3.695
													3 43/64	3.708
											3 44/64	3.720		
								CS300-9xx CF300-9xx	3-45/64	3-48/64	3 45/64	3.732		
													3 46/64	3.745
													3 47/64	3.757
											3 48/64	3.770		
								CS300-10xx CF300-10xx	3-49/64	3-52/64	3 49/64	3.782		
													3 50/64	3.794
													3 51/64	3.807
											3 52/64	3.819		
								CS300-11xx CF300-11xx	3-53/64	3-56/64	3 53/64	3.831		
													3 54/64	3.844
													3 55/64	3.856
											3 56/64	3.868		
								CS300-12xx CF300-12xx	3-57/64	3-60/64	3 57/64	3.881		
													3 58/64	3.893
													3 59/64	3.905
											3 60/64	3.918		
				CS300-13xx CF300-13xx	3-61/64	4	3 61/64	3.930						
									3 62/64	3.942				
									3 63/64	3.955				
							4	3.967						
				CS300-14xx CF300-14xx	4-1/64	4-4/64	4 1/64	3.979						
									4 2/64	3.992				
									4 3/64	4.004				
							4 4/64	4.016						
				CS300-15xx CF300-15xx	4-5/64	4-8/64	4 5/64	4.029						
									4 6/64	4.041				
									4 7/64	4.053				
							4 8/64	4.066						
				CS300-16xx CF300-16xx	4-9/64	4-12/64	4 9/64	4.078						
									4 10/64	4.090				
									4 11/64	4.103				
							4 12/64	4.115						

Crimp Recommendation Guide

• see pages 12-21 for Crimp products

Hose ID	Cam & Groove Coupler Part #	Cam & Groove Adapter Part #	King Combination Nipple Part #	Sleeve & Ferrule Part #	Hose Range		Hose OD	Crimp Diameter (± 0.005)
					From	To		
4"	400-C-AL 400-C-BR 400-C-SS RC400EZCR G400-C-ALCR G400-C-BRCR G400-C-SSCR	400-E-AL 400-E-BR 400-E-SS G400-E-ALCR G400-E-BRCR G400-E-SSCR	STC40CS RST40CS STV40CS RSTV40CS STB40CS RSTB40CS FST40CS RFST40CS	CS400-1xx CF400-1xx	4-13/64	4-16/64	4 13/64	4.333
							4 14/64	4.345
							4 15/64	4.357
							4 16/64	4.370
				CS400-2xx CF400-2xx	4-17/64	4-20/64	4 17/64	4.384
							4 18/64	4.396
							4 19/64	4.409
							4 20/64	4.421
				CS400-3xx CF400-3xx	4-21/64	4-24/64	4 21/64	4.433
							4 22/64	4.445
							4 23/64	4.457
							4 24/64	4.470
				CS400-4xx CF400-4xx	4-25/64	4-28/64	4 25/64	4.486
							4 26/64	4.498
							4 27/64	4.510
							4 28/64	4.523
				CS400-5xx CF400-5xx	4-29/64	4-32/64	4 29/64	4.535
							4 30/64	4.547
							4 31/64	4.560
							4 32/64	4.572
				CS400-6xx CF400-6xx	4-33/64	4-36/64	4 33/64	4.584
							4 34/64	4.597
							4 35/64	4.609
							4 36/64	4.621
				CS400-7xx CF400-7xx	4-37/64	4-40/64	4 37/64	4.634
							4 38/64	4.646
							4 39/64	4.658
							4 40/64	4.671
				CS400-8xx CF400-8xx	4-41/64	4-44/64	4 41/64	4.683
							4 42/64	4.695
							4 43/64	4.708
							4 44/64	4.720
				CS400-9xx CF400-9xx	4-45/64	4-48/64	4 45/64	4.732
							4 46/64	4.745
							4 47/64	4.757
							4 48/64	4.770
				CS400-10xx CF400-10xx	4-49/64	4-52/64	4 49/64	4.782
							4 50/64	4.794
							4 51/64	4.807
							4 52/64	4.819
				CS400-11xx CF400-11xx	4-53/64	4-56/64	4 53/64	4.831
							4 54/64	4.844
							4 55/64	4.856
							4 56/64	4.868
				CS400-12xx CF400-12xx	4-57/64	4-60/64	4 57/64	4.881
							4 58/64	4.893
							4 59/64	4.905
							4 60/64	4.918
				CS400-13xx CF400-13xx	4-61/64	5	4 61/64	4.930
							4 62/64	4.942
							4 63/64	4.955
							5	4.967
CS400-14xx CF400-14xx	5-1/64	5-4/64	5 1/64	4.979				
			5 2/64	4.992				
			5 3/64	5.004				
			5 4/64	5.016				
CS400-15xx CF400-15xx	5-5/64	5-8/64	5 5/64	5.029				
			5 6/64	5.041				
			5 7/64	5.053				
			5 8/64	5.066				
CS400-16xx CF400-16xx	5-9/64	5-12/64	5 9/64	5.078				
			5 10/64	5.090				
			5 11/64	5.103				
			5 12/64	5.115				



Crimp Recommendation Guide

• see pages 12-21 for Crimp products

Hose ID	Cam & Groove Coupler Part #	Cam & Groove Adapter Part #	King Combination Nipple Part #	Sleeve & Ferrule Part #	Hose Range		Hose OD	Crimp Diameter
					From	To		(± 0.005)
6"	600-C-AL 600-C-BR 600-C-SS RC600EZCR G600-C-ALCR G600-C-BRCR G600-C-SSCR	600-E-AL 600-E-BR 600-E-SS G600-E-ALCR G600-E-BRCR G600-E-SSCR	STC60CS RST60CS STV60CS RSTV60CS STB60CS RSTB60CS FST60CS RFST60CS	CS600-1xx CF600-1xx	6-21/64	6-28/64	6 21/64	6.504
							6 22/64	6.516
							6 23/64	6.528
							6 24/64	6.541
							6 25/64	6.553
							6 26/64	6.565
							6 27/64	6.577
				6 28/64	6.589			
				CS600-2xx CF600-2xx	6-29/64	6-36/64	6 29/64	6.606
							6 30/64	6.618
							6 31/64	6.631
							6 32/64	6.643
							6 33/64	6.655
							6 34/64	6.668
							6 35/64	6.680
				CS600-3xx CF600-3xx	6-37/64	6-44/64	6 36/64	6.692
							6 37/64	6.705
							6 38/64	6.717
							6 39/64	6.729
							6 40/64	6.742
							6 41/64	6.754
							6 42/64	6.766
				CS600-4xx CF600-4xx	6-45/64	6-52/64	6 43/64	6.779
							6 44/64	6.791
							6 45/64	6.803
							6 46/64	6.816
							6 47/64	6.828
							6 48/64	6.841
							6 49/64	6.853
				CS600-5xx CF600-5xx	6-53/64	6-60/64	6 50/64	6.865
							6 51/64	6.878
							6 52/64	6.890
							6 53/64	6.902
							6 54/64	6.915
							6 55/64	6.927
							6 56/64	6.939
				CS600-6xx CF600-6xx	6-61/64	7-4/64	6 57/64	6.952
							6 58/64	6.964
							6 59/64	6.976
							6 60/64	6.989
							6 61/64	7.001
							6 62/64	7.013
							6 63/64	7.026
				CS600-7xx CF600-7xx	7-5/64	7-12/64	7	7.038
							7 1/64	7.050
							7 2/64	7.063
							7 3/64	7.075
							7 4/64	7.087
							7 5/64	7.100
							7 6/64	7.112
				CS600-8xx CF600-8xx	7-13/64	7-20/64	7 7/64	7.124
							7 8/64	7.137
7 9/64	7.149							
7 10/64	7.161							
7 11/64	7.174							
7 12/64	7.186							
7 13/64	7.198							
CS600-9xx CF600-9xx	7-21/64	7-28/64	7 14/64	7.211				
			7 15/64	7.223				
			7 16/64	7.236				
			7 17/64	7.248				
			7 18/64	7.260				
			7 19/64	7.273				
			7 20/64	7.285				
7 21/64	7.297							
7 22/64	7.310							
7 23/64	7.322							
7 24/64	7.334							
7 25/64	7.347							
7 26/64	7.359							
7 27/64	7.371							
7 28/64	7.384							

Glossary of Terms

A

ANSI	American National Standards Institute, Inc.
API	American Petroleum Institute
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
Anodize	A process for aluminum, similar to zinc or chrome plating steel, in which an aluminum part is electrically charged then, dipped in various chemicals to produce various colors and/or surface hardness.

B

Burst Pressure	The pressure at which rupture occurs.
-----------------------	---------------------------------------

C

Chamfer	To cut an angle on the hose tube to aid in stem insertion and to prevent the hose end from flaring when a stem is inserted.
Clamp	A metal fitting, band or wire used around the outside of a hose end to secure a coupling, fitting or nipple.
Cold Flow	Continued deformation or movement of rubber under stress.
Compression Set	The deformation that remains in rubber after it has been subjected to and released from stress such as a clamp. The longer the stress is maintained the more definitive the deformation.
Coupling	A device at the end or ends of a length of hose that allows a connection to be made.
Crimping	The act of forming the metal sleeve or ferrule of a hose fitting with a surrounding series of die segments to compress the hose within the fitting. The crimping process changes the shape of the entire circumference and length simultaneously. Often interchanged with the term "swaged".

D

Durometer	An instrument for measuring the hardness of rubber.
Durometer Hardness	A numerical value which indicates the resistance to indentation of the blunt indenter of the durometer.

E

Elastomer	Any of various elastic substances resembling rubber.
Expansion Ring	Typically refers to a type of fire hose couplings that are attached by expanding a sleeve (usually brass) outward to compress the hose against the wall of the bowl of the coupling.
External Swage (Swaging)	A ferrule is passed through a reducing die, usually split, to bring the ferrule OD down to a predetermined size (for proper coupling retention) forcing the hose tube down into the stem serrations.

F

Ferrule	A collar placed over a hose end to attach the fitting to the hose. The ferrule may be crimped swaged, forcing the hose against the shank of the coupling, or the shank may be expanded, forcing the hose out against the ferrule, or both.
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Glossary of Terms

G	
Gripping Finger	The part of the clamp that goes over and behind the stem collar to aid in clamp retention.
H	
Hard Coat	An anodizing process in which the surface hardness of aluminum becomes similar to or greater than that of case hardened steel.
I	
Internal Expansion (IX)	A plug (or bullet) is pulled through a stem or a set of blades (fingers) increase the stem ID to the plug OD or a predetermined setting when using expansion blades (fingers). This forces the stem serrations into the hose tube and the hose cover into the serrations of the ferrule.
J	
JIC	Joint Industrial Committee
JIC Thread	Typically refers to the threads on hydraulic fittings having 37° conical sealing surfaces.
M	
MSHA	Mine Safety and Health Administration
N	
NSF/ANSI Standard 61	Drinking Water System Components was published in 1988 to establish minimum requirements for the control of potential adverse human health effects from products that contact drinking water.
Nipple	The section of the fitting that is inserted into the hose. Also known as the shank of a coupling.
Nominal	A dimensional value assigned for the purpose of convenient designation.
O	
Operating Pressure	The pressure at which system functions, also known as Working Pressure
P	
PSI	Pounds per square inch
PSIG	Pounds per square inch gauge
Permanent Fitting	The type of fitting which, after it is applied, cannot be removed for reuse.
Polymer	A macromolecular material formed by the chemical combination of monomers having the same or different chemical composition.
Proof Pressure	A specified pressure which exceeds the hose assemblies rated working pressure to indicate its reliability at normal working pressure. Follow RMA's testing guidelines for specific pressures and duration's for various types of hose.
PTFE	Versatile polymer, polytetrafluoroethylene
R	
RMA	Rubber Manufacturers Association
Reusable Fitting	The type of fitting that is designed to be removed from a hose and recoupled on another hose.

Glossary of Terms

S

SAE	Society of Automotive Engineers
SAE Threads	Similar to JIC except 45° conical sealing surfaces
SCFM	Standard Cubic Feet per Minute. Typically refers to the amount of compressed air a compressor can produce.
Safety Factor	A ratio used to establish the working pressure of a hose based upon the burst pressure. Typical Safety Factors are as follows: <ol style="list-style-type: none"> 1. Water hose up to 150 psi WP: 3 to 1 2. Hose for all other liquids, solid materials suspended in liquids or air and water hose over 150 psi WP: 4 to 1 3. Hose for compressed air and other gases: 4 to 1 4. Hose for liquid media that immediately changes into gas under standard atmospheric conditions: 5 to 1 5. Steam hose: 10 to 1
Serration	The part of the shank (stem) that grips the hose tube.
Shank	The section of the fitting or coupling that is inserted into the hose.
Sintered	Process in which powdered metal is formed in a mold under extreme pressure to form a finished part.
Styrene Butaline Rubber	Also known as SBR
Surge	A rapid rise and decrease of internal pressure.

T

Torque	Amount of force required to turn an object. Usually measured in inch pounds (in. lbs.) or foot pounds (ft. lbs.)
Tube	The innermost part of the hose that's purpose is to contain the media being transported. Usually, rubber compounds or plastics are blended to give the tube specific properties so that it is compatible with certain media.

U

UHMW	Ultra High Molecular Weight. Next generation of chemical hoses after cross-linked polyethylene having a thin tube liner made from extremely dense material giving it excellent chemical resistance properties.
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V

Victaulic Groove	A style of couplings that has a groove cut near the end of the stem where threads would typically be. The couplings are attached using a "C" shaped clamp that fits into the grooves on the stem.
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W

WOG	Water, Oil, Gas. Pressure rating for valves handling these products. This does not include steam.
WP	Working Pressure
Working Pressure	The maximum pressure to which a hose assembly will be subjected to including pressure surges.

X

XLPE	Cross-Linked Polyethylene tube material that has good chemical resistance properties.
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