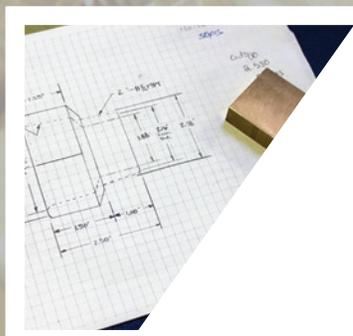
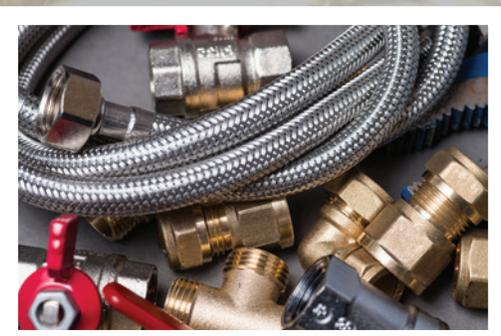




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2022



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LOG INTO

ACCOUNT MANAGER FOR:

- Get Account Information
- New Customer Profile
- Check Your Order History
- Access Your Invoices
- Download Current Pricing
- Print Bin Labels
- Check Backorders
- Print Invoices
- Pick A Preferred Warehouse
- Save Orders
- Manage Part Numbers
- Quick Order
- Upload Your Order
- And More...

The screenshot shows the Midland Industries Account Manager interface. At the top right, there is a 'Login or Open an Account' link and a search bar with a 'SEARCH' button and a shopping cart icon showing '1' item. Below the search bar is a navigation menu with links for HOME, ABOUT US, OUR SERVICES, CONTACT US, and BLOG. A secondary menu contains buttons for UPLOAD, SAVED ORDER, DOWNLOAD PRICING, BIN LABELS, and BRASS CATALOG SHOP. The main content area is divided into several sections: 'Speed Order' with a form for Part # and QTY; 'Survey' with a dropdown for 'What industries do you serve?' and a 'Submit' button; 'Check Price and Availability' with a 'Product Search' field; 'Account Links' with links for 'Orders' and 'Account'; 'Overview' with a table showing 'Orders (?)' and 'Invoices (?)' counts for 'Open' and 'Total' status; 'Your Preferred Warehouse' with a map of the United States; and 'Account Details' with fields for Account #, Company Name, Sales Rep, Multiplier, and Saved Orders.

LOG IN TO MIDLANDINDUSTRIES.COM

VISIT WWW.MIDLANDINDUSTRIES.COM AND LOGIN TO YOUR ACCOUNT USING YOUR CUSTOMER ID AND PASSWORD.

- View your price and available stock.
- View open orders and tracking information on all shipments.
- Download pricing files.
- Update your Customer Profile and Contacts
- For Purchasing, Accounts Payable, Sales, and Marketing.
- Check your message center to see the latest updates and specials.

CUSTOMER ID # :

PASSWORD :

MULTIPLIER :

FIND WHAT YOU NEED

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MIDLANDINDUSTRIES.COM

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THE BUILT TO SERVE ADVANTAGE

As a new family of companies working together we're building the most powerful platform our industry has ever seen.

Founded upon a legacy of customer service, our mission is to give you a distinct competitive advantage. As a leader in globally sourced and domestically manufactured products we're providing needed innovations to distributor supply chains with a variety of marketing and data driven initiatives.

Save time and money with the industry knowledge that comes from decades of experience and hard work. Building advantage means you gain access to our growing network of distribution centers across North America. Come see what the Midland Advantage can do for your business.

THE PERFECT FIT

For decades the Midland family has been the chosen manufacturer and supplier of fittings, valves, hose and accessories to distributors across North America. Today's Midland Industries and our family of companies are committed to helping our customer serve their customers better Experience simple, worry-free products and innovations that make doing business easier.



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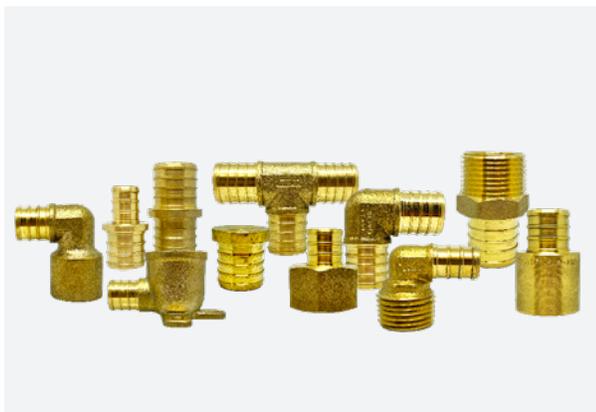
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NEW PRODUCTS



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ABC SUPPLY

CUSTOM CATALOG

Print custom catalogs with your brand, your pricing and your contact information.

A UNIQUE CATALOG AT A REASONABLE PRICE

Using Midland's newest catalog as a template, we can completely customize the look, contact information, and pricing to fit your company's needs. The process is simple and takes about a month to complete (times may vary due to the printer's schedule). Work with our designer to customize a catalog that is unique and properly represents your company.

Custom Catalogs have list prices so your sales team can use to sell to your customers.

OPTION A (FREE): CUSTOM DIGITAL

Our designers will work with you to create a cover that incorporates your branding. Choose between a Flip catalog, PDF or Both!

OPTION B: CUSTOM COVER CONTACT YOUR SALES REP FOR PRICING

Our designers will work with you to create a cover that incorporates your branding. Cover will be full color with black and white internal pages. No custom options for internal pages. No minimum quantity required.

OPTION C: BLACK & WHITE CUSTOMIZED CATALOG CONTACT YOUR SALES REP FOR PRICING

Your company logo and contact information will print on the footer of each page. Includes a full color custom cover with black and white internal pages. Minimum of 25 required.

OPTION D: FULL COLOR CUSTOMIZED CATALOG CONTACT YOUR SALES REP FOR PRICING

Your company logo and contact information will print on the footer of each page. Entire catalog is printed in full color. Minimum of 25 required.

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UNION TEE

Part #	Thread size NPTF	A	B	C	Approx. Wt. Lbs.	List Price
28-024	1/8"	0.55	0.55	0.56	0.08	8024
28-025	1/4"	0.78	0.78	0.68	0.17	8025
28-026	3/8"	0.84	0.84	0.81	0.22	8026
28-027	1/2"	1.09	1.09	1.00	0.43	8027
28-028	3/4"	1.16	1.16	1.25	0.64	8028

UNION FORGED TEE

Part #	Thread size NPTF	A & B	Body Width	Approx. Wt. Lbs.	List Price
28-032	1/8"	0.56	0.50	0.06	8032
28-033	1/4"	0.71	0.68	0.13	8033
28-034	3/8"	0.81	0.81	0.16	8034
28-035	1/2"	1.00	1.00	0.27	8035
28-036	3/4"	1.16	1.25	0.53	8036
28-023	1"	1.42	1.50	0.94	8023

www.abcsupplyz.com

Toll Free Phone 1-800-555-5555



IDENTIFICATION TAGS
 Tags and packing slips are printed with your company information.

SHIPPING
 Shipped in a blank box, with no reference to Midland anywhere.

GET STARTED TODAY
MidlandIndustries.com/marketing

PRIVATE LABELING

Private label shipments with your logo on boxes, packing slips and product labels.

SHIPPED HOW YOU WANT IT, TODAY!

Last year, Midland Industries shipped over 17,000 private labeled packages for our customers. Our customers trust Midland with their customers! Private-labeled packages are shipped in generic boxes with your return shipping information on the pack list and a generic UPS label; Midland isn't referenced anywhere on the shipment. Using this program you have access to an additional 40,000 items without investing in additional inventory. Drive up your profits-not your inventory costs-by using Midland Industries' Private Label Shipping.



PERSONALIZED

Print labels with pictures and barcodes.

SCAN

Using the Midland Metal mobile app you can scan the labels to check stock and place orders.

CUSTOMER SERVICE

Put your custom labels on your customer's bins.

GET STARTED TODAY

MidlandIndustries.com/marketing

BIN LABELS ON DEMAND

Now you can create and print personalized Bin Labels on demand for any product that Midland carries. Labels can be customized with your logo or name. Multiple sizes available.

BIN LABELS FOR MIDLAND PRODUCTS

Looking for a way to keep your foot in the door with your customers? Try labeling their bins. Using easy-to-follow steps, you're able print labels with pictures and barcodes. Then, using the Midland app, scan the labels on the bins to place orders. Not only will you save time with stock replenishment, you will improve your relationship with your customers as well.

4" x 2"

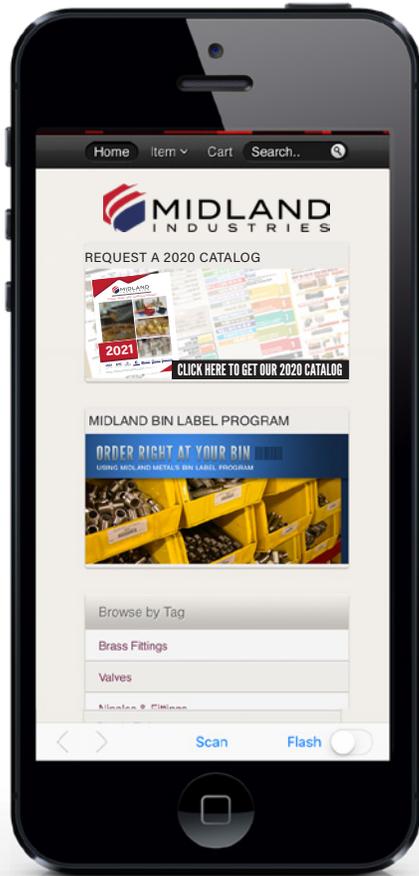


3.5" x 2"



2.625" x 1"





CHECK STOCK/PRICING

The mobile app gives you quick access to stock and pricing on your displayed items.

SEARCH

Search for products by part number or keyword. Browse by category or type.

CUSTOMER SERVICE

Manage your customer's inventory by using your custom bin labels. Scan for quick reordering.

GET STARTED TODAY

MidlandIndustries.com/marketing

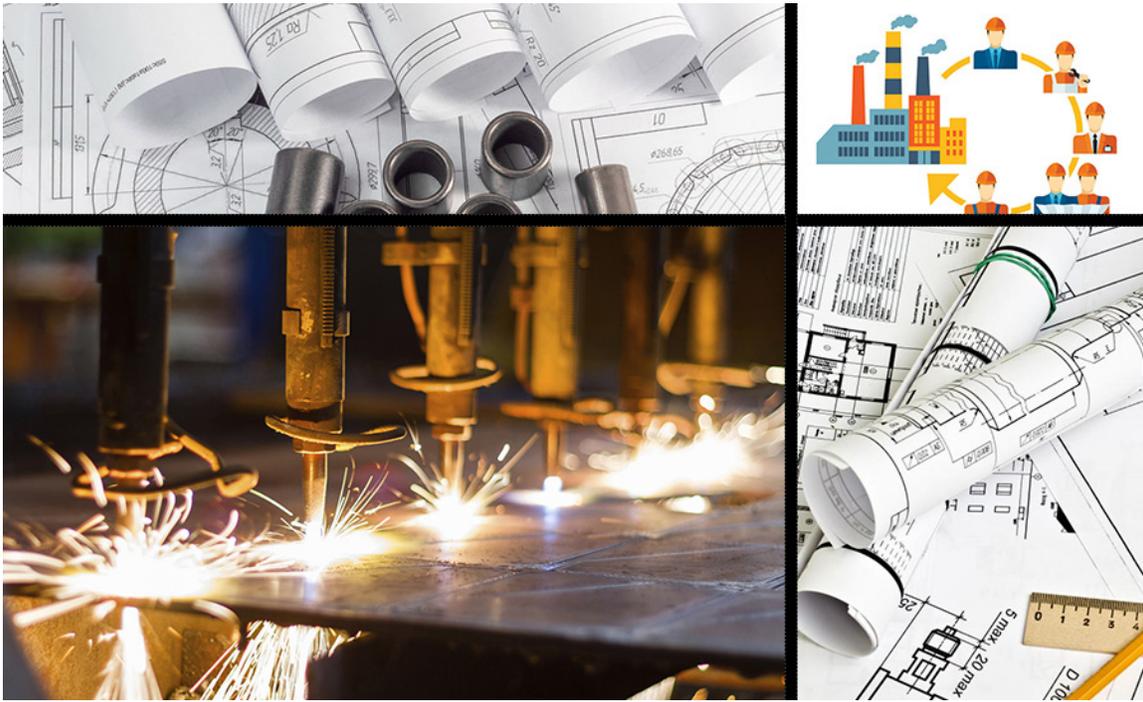
MOBILE APP

Use the app to scan bin labels on location to quickly re-order, check stock or pricing. Save orders to submit later.

SCAN BIN LABELS FOR EASY ACCESS

You can affix these bin labels on your bins and/or your customer's bins. Use the app on your smartphone to quickly scan labels for re-order or to save orders to place at the end of the day.





MIDLAND OEM SOLUTIONS

In an ever changing global business environment, all applications are not created equal. As an OEM partner, Midland can help the distributor work with Original Equipment Manufacturers and specify solutions in order to make informed purchasing decisions around technology, applications and relevant specification requirements.

Certain OEM applications require specific fittings, hoses, clamps and valves. For example, your application may require easier installation, a globally available product, or extended life among other critical features. No matter what the application, Midland is prepared to meet the demands of your end user business with our OEM solutions and equipment.

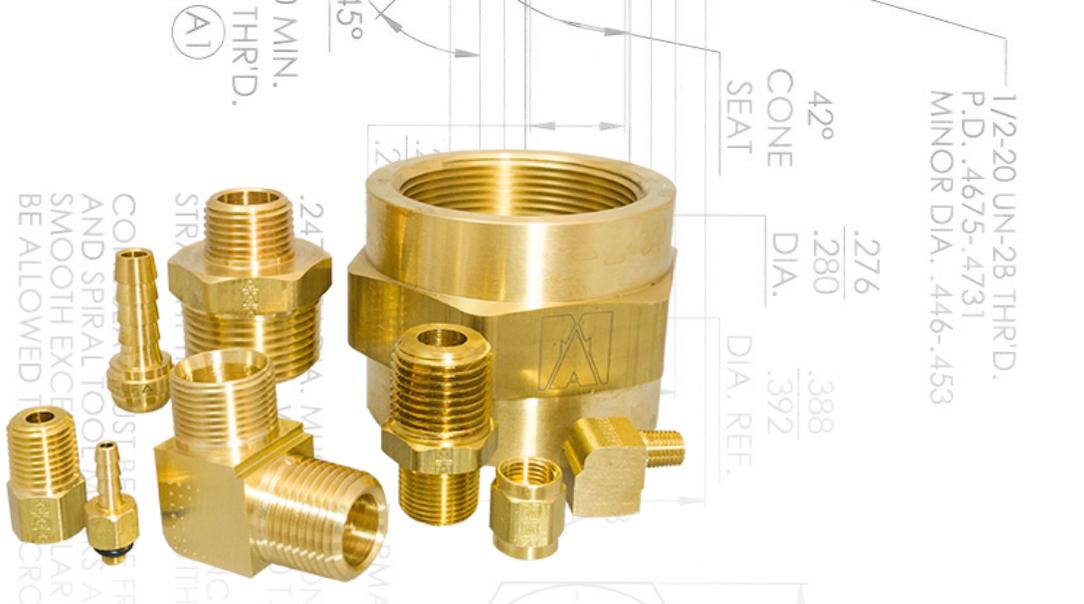
When you work with Midland, you are getting a Midland designed product made worldwide in our factories in the US, Asia and Europe, assembled by dedicated employees. Therefore, as an OEM wholesale partner, Midland Industries can promise premier customer service, high quality manufacturing standards, on-time delivery and a philosophy of continuous improvement. This allows the distributor to remain competitive in the marketplace and achieve growth objectives on new and existing projects.

As part of the Midland OEM program, you can expect increased co-marketing opportunities, better market planning with our sales force, and improved customer engagement with co-managed objectives.

INNOVATIVE THINKING. INNOVATIVE SOLUTIONS. PARTNERING FOR YOUR SUCCESS!

Ask about our OEM Solutions – contact specials@midlandindustries.com to get started today.

DD	8-8-72	Mid-America Fittings, Inc. 7604 Wedd Street Overland Park, KS 66204
CHT	8-9-72	
CHT	8-9-72	
DATE		PART DESCRIPTION: CONNECTOR- 5/16 INV. X 1/4 S
REDRAWN ON 10-31-2013 BY CAD/CAM		



DOMESTIC MANUFACTURING

Midland Industries is a leading manufacturer of our MAF™ brand of industrial fitting products for use by OEM's and wholesale distributors.

Midland Industries Engineering and Design team works closely with OEM's in the automotive, trucking, HVAC, industrial, consumer and commercial electronics and appliances and fluid industries. We take original design concepts, sometimes drawn on nothing more than a lid of a pizza box over lunch and move them seamlessly from CAD drawing phase, prototype phase, sample production phase and final production in a matter of weeks instead of months. This is done by using a variety of CNC machine tools and our facilities at our disposal. This includes "Miltronics Vertical Machining Center," "Okuma Turning Centers" and Miyano Machining Centers complete with "Live Tooling" on both long and short beds to create specialty custom parts. At the same time, we achieve maximum quality, efficiency and cost savings for the customer.

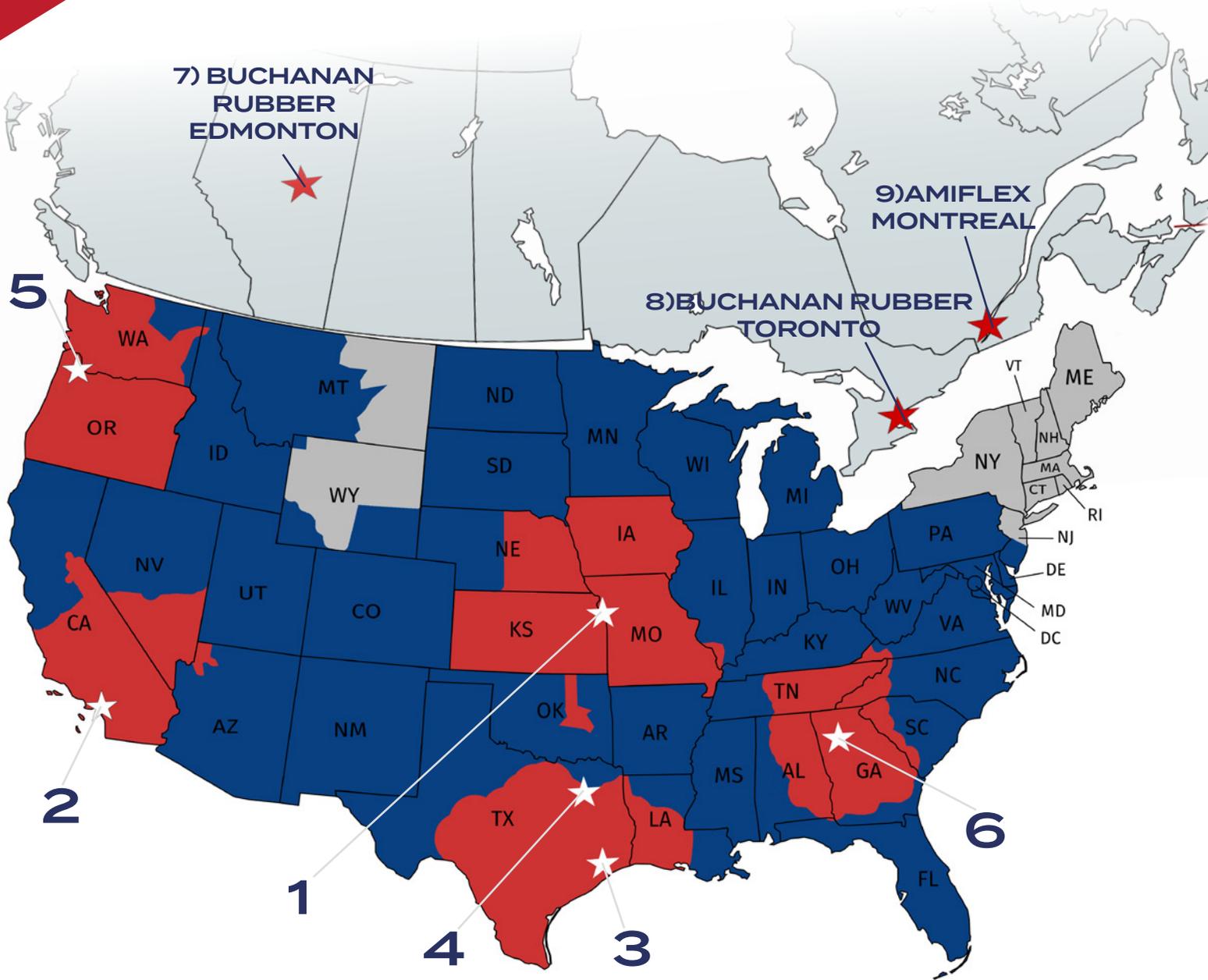
COMMITTED TO BEING AN INDUSTRY LEADER
IN ENVIRONMENTAL "BEST PRACTICES" AND WILL APPLY IT
TO ALL ASPECTS OF OUR BUSINESS.

In addition to our MAF™ brand brass fittings, Midland Industries is a major supplier of **chrome-plated** and **nickel-plated brass fittings** as well as **black and galvanized malleable iron pipe fittings, stainless steel pipe fittings, cast bronze fittings and red brass pipe nipples** along with a wide variety of plumbing installation and repair specialty products.

TO FIND OUT MORE OR TO HAVE YOUR SPECIALTY PARTS QUOTED VISIT:
MIDLANDINDUSTRIES.COM



MIDLAND INDUSTRIES DISTRIBUTION



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- NEXT DAY DELIVERY
- 3 DAY DELIVERY
- 2 DAY DELIVERY

*2 Day Delivery is determined by warehouse location and inventory at specified location.

* For detailed UPS Ground time in transit maps please visit www.UPS.com/maps

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Full Stocking Location

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Kansas Ciy, MO 64111

2) WEST COAST DISTRIBUTION

Full Stocking Location

659 E Ball Rd
Anahiem, CA 92805

3) TEXAS DISTRIBUTION

Full Stocking Location

5731 Harvey Wilson Dr
Houston, TX 77020

4) TEXAS DISTRIBUTION

Full Stocking Location

600 E. Centre Park
DeSoto, TX 75115

5) PACIFIC NORTH WEST DISTRIBUTION

Full Stocking Location

14015 NE Airport Way
Portland, OR 97230

6) EAST COAST DISTRIBUTION

Full Stocking Location

4221 Cantrell Rd NW
Acworth, GA 30101

MIDLAND INDUSTRIES CUSTOMER SERVICE

Phone: 800-821-5725 || Fax: 800-877-5391 || Email: Sales@MidlandIndustries.com

You can easily check stock and availability for products at these locations online using Account Manager. All accounting will be handled in Kansas City.

CANADIAN DISTRIBUTION

7) BUCHANAN RUBBER-EDMONTON

9547-12 Ave SW,
Edmonton, AB T6X-0C3
Phone: 1-888-775-4673
Fax: 1-888-990-4673
Sales@BuchananRubber.com

8) BUCHANAN RUBBER-TORONTO

50 Fasken Drive
(units 11-21),
Etobicoke, ON M9W-1K5
Phone: 1-888-775-4673
Fax: 1-888-990-4673
Sales@BuchananRubber.com

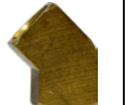
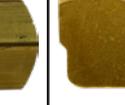
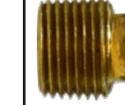
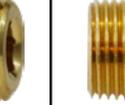
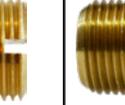
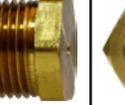
9) AMIFLEX-MONTREAL

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Fax: 1-888-990-4673
Sales@BuchananRubber.com

Canadian operations serviced through our Edmonton, Toronto & Montreal distribution centers. For more information call customer service at 1-800-775-HOSE (4673)

BRASS

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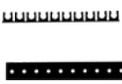
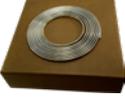
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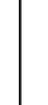
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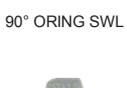
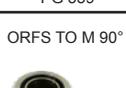
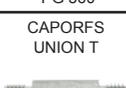
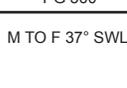
PRESSURE WASHER/ PNEUMATICS

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PNEUMATICS

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FE. PIPE TEE  PG 550	ST PIPE TEE  PG 549	FE. RUN PIPE T  PG 550	MALE PIPE TEE  PG 550	FE. PIPE TEE  PG 550	CROSS  PG 550	STEEL O-RING ADAPTERS PG 551	JIC TO O-RING  PG 551	O-RING TO PIPE  PG 551
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FLANGE PAD  PG 576	FLANGE HALF  PG 576	STAINLESS STEEL ADAPTERS PG 577	PIPE SWIVEL  PG 580	PIPE SWIVEL  PG 580	TUBE SLEEVE  PG 581	TUBE NUT  PG 581	CAP  PG 581	MALE ADAPTER  PG 582
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HYDRAULICS

PICTORIAL INDEX

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<p>PLUG</p>  <p>PG 587</p>	<p>BUSHING</p>  <p>PG 587</p>	<p>CAP</p>  <p>PG 588</p>	<p>STREET ELBOW</p>  <p>PG 588</p>	<p>MALE ELBOW</p>  <p>PG 588</p>	<p>45 STREET</p>  <p>PG 588</p>	<p>ALL MALE TEE</p>  <p>PG 589</p>	<p>ELBOW</p>  <p>PG 589</p>	<p>MALE RUN TEE</p>  <p>PG 589</p>
<p>TEE</p>  <p>PG 589</p>	<p>MORB X FIP</p>  <p>PG 590</p>	<p>BOSS X JIC SW</p>  <p>PG 590</p>	<p>MJIC X MORB</p>  <p>PG 590</p>	<p>PLUG</p>  <p>PG 591</p>	<p>PLUG</p>  <p>PG 591</p>	<p>MJICXFJIC ELBOW</p>  <p>PG 591</p>	<p>SW X MIP ELBOW</p>  <p>PG 591</p>	<p>45 SW ELBOW</p>  <p>PG 592</p>
<p>FIP X FJIC SWIVEL</p>  <p>PG 592</p>	<p>MIP X FJIC SWIVEL</p>  <p>PG 592</p>	<p>SWIVEL UNION</p>  <p>PG 592</p>	<p>MJIC X MORB ELL</p>  <p>PG 593</p>	<p>45 ELBOW</p>  <p>PG 593</p>	<p>SW X WELD ON</p>  <p>PG 593</p>	<p>MALE API</p>  <p>PG 594</p>	<p>JIC 90 SWIVEL</p>  <p>PG 594</p>	<p>JIC 45 SWIVEL</p>  <p>PG 595</p>
<p>MALE CRIMP</p>  <p>PG 595</p>	<p>FEMALE CRIMP</p>  <p>PG 595</p>							

PIPE FITTINGS



Pipe Size	1/16	1/8	1/4	3/8	1/2	3/4	1
Thread Size	1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11/2
Working Pressure	1200	1200	1200	1200	1200	1000	1000
Thread OD	1/4	3/8	1/2	5/8	3/4	1	1-1/4

Typical Application: Grease, fuels, LP and Natural gas (available on special order), refrigeration, instrumentation and hydraulic systems.

Pressure: Operating pressure up to 1200 PSI.

Vibration: Fair resistance.

Temperature Range:
-65°F to +250°F (-53°C to +121°C).

Used With: Brass, bronze, copper, steel, aluminum and iron pipe.

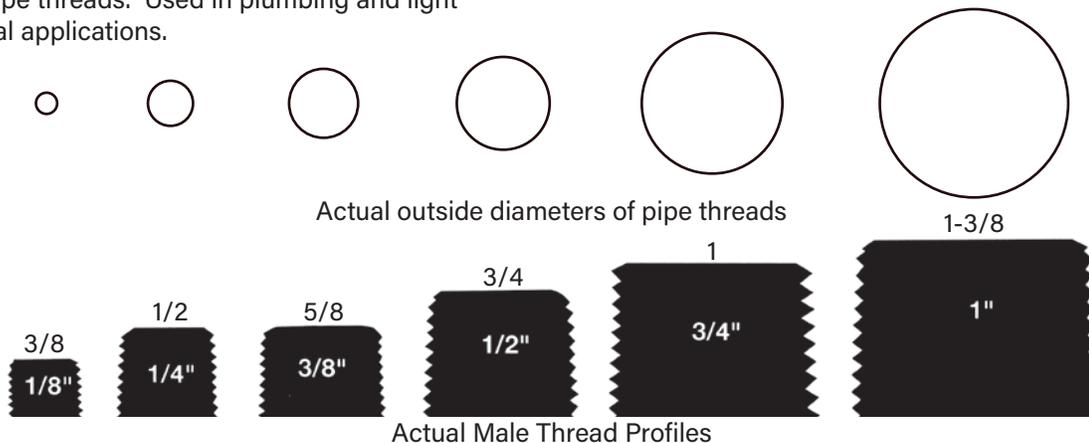
Tolerance : +/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

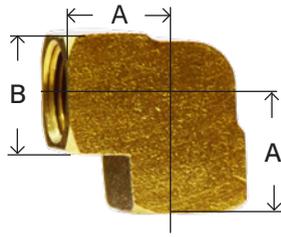
Conformance: Meets specifications and standards of ASA, ASME and SAE

- Not lead free
- **"L" at the end of a Part# means Light Pattern**
- these fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

• Assembly Instructions

- 1 - Tighten approximately 2-1/2 turns past hand tight.
- 2 - Fittings with Everseal tighten two turns past hand tight. Brittle materials require special cautions.

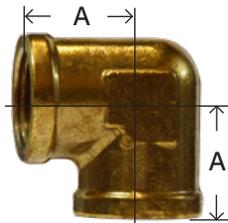


PIPE**BRASS FITTINGS****90° FEMALE ELBOW**

100
SAE# 130238

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28001	1/8"	0.55	0.56	0.09	---
28002	1/4"	0.78	0.68	0.13	---
28003	3/8"	0.84	0.81	0.16	---
28004	1/2"	1.09	1.00	0.34	---
28005	3/4"	1.16	1.25	0.60	---
28015B	3/8" x 1/4"	0.84	0.81	0.18	---
28053B	1/2" x 1/4"	1.09	1.00	0.37	---
28016B	1/2" x 3/8"	1.09	1.00	0.36	---

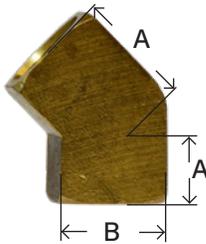
100 2200P 3500 302 200

90° FORGED FEMALE ELBOW

100F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28009	1/8"	0.57	0.50	0.04	---
28010	1/4"	0.70	0.68	0.10	---
28011	3/8"	0.81	0.81	0.12	---
28012	1/2"	1.00	1.00	0.23	---
28013	3/4"	1.13	1.25	0.42	---
28014	1/4" x 1/8"	0.72	0.65	0.12	---
28015	3/8" x 1/4"	0.81	0.81	0.15	---
28016	1/2" x 3/8"	1.00	1.00	0.28	---
28017	1"	1.42	1.50	0.75	---

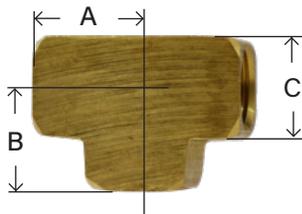
1200P E7 100AF 100B

45° FEMALE ELBOW

10045

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28018	1/8"	0.45	0.56	0.06	---
28019	1/4"	0.66	0.68	0.12	---
28020	3/8"	0.69	0.81	0.16	---
28021B	1/2"	0.94	1.00	0.25	---
28021					

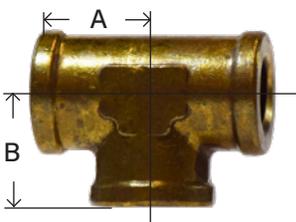
129 2201P 205 23355 45EZ 105 100-45A

UNION TEE

101
SAE# 130438

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28022	1/16"	0.55	0.55	0.58	0.11	---
28024	1/8"	0.55	0.55	0.56	0.08	---
28025	1/4"	0.78	0.78	0.68	0.17	---
28026	3/8"	0.84	0.84	0.81	0.22	---
28027	1/2"	1.09	1.09	1.00	0.43	---
28028	3/4"	1.16	1.16	1.25	0.64	---

311 101A 322 2203P 3700 203

UNION FORGED TEE

101F

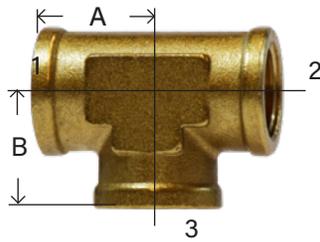
PART #	THREAD SIZE NPTF	A & B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28032	1/8"	0.56	0.50	0.06	---
28033	1/4"	0.71	0.68	0.13	---
28034	3/8"	0.81	0.81	0.16	---
28035	1/2"	1.00	1.00	0.27	---
28036	3/4"	1.16	1.25	0.53	---
28023	1"	1.42	1.50	.924	---

1203P LT7 101AF 101B

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

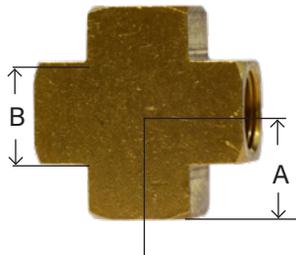
REDUCING FORGED TEES



101FR

PART #	1 NPT	2 NPT	3 NPT	A & B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28029	1/8"	1/8"	1/4"	0.72	0.69	0.16	---
28030	1/4"	1/4"	1/8"	0.72	0.69	0.14	---
28031	1/4"	1/4"	3/8"	0.81	0.81	0.21	---
28038	3/8"	1/4"	3/8"	0.81	0.81	0.18	---
28039	3/8"	3/8"	1/4"	0.81	0.81	0.18	---
28046	1/2"	1/2"	3/8"	1.00	1.00	0.30	---
28047	3/4"	1/2"	3/4"	1.20	1.25	0.59	---
28048	3/4"	3/4"	1/2"	1.16	1.25	0.59	---

CROSS

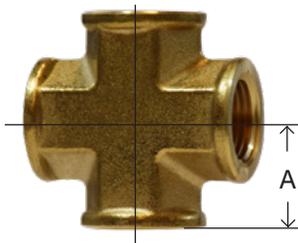


102

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28041	1/8"	0.55	0.56	0.10	---
28042	1/4"	0.78	0.68	0.21	---
28043	3/8"	0.84	0.81	0.25	---
28044	1/2"	1.09	1.00	0.51	---
28045	3/4"	1.16	1.25	0.75	---

2205P 3950 228 102A 102BE

FORGED CROSS



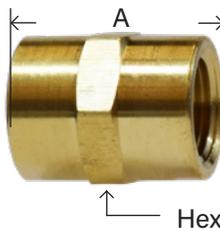
102F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28049	1/8"	0.56	0.50	0.06	---
28050	1/4"	0.72	0.69	0.15	---
28051	3/8"	0.81	0.81	0.18	---
28052	1/2"	1.00	1.00	0.34	---

C7 105 102AF 102B

COUPLING

SAE# 130138

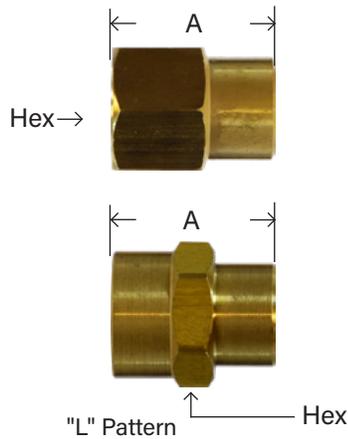


103

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28057	1/16"	0.75	0.44	0.02	---
28058L	1/8"	0.75	0.50	0.02	---
28058	1/8"	0.75	0.56	0.03	---
28059L	1/4"	0.88	0.63	0.03	---
28059	1/4"	1.12	0.75	0.09	---
28060L	3/8"	1.00	0.81	0.06	---
28060	3/8"	1.12	0.87	0.10	---
28061L	1/2"	1.19	0.93	0.09	---
28061	1/2"	1.50	1.06	0.19	---
28062L	3/4"	1.19	1.25	0.18	---
28062	3/4"	1.53	1.25	0.24	---
28063	1"	1.89	1.50	.357	---

207P 371 3300 103AH 103B

DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE CHECK WHEN DIMENSIONS ARE CRITICAL.

PIPE**BRASS FITTINGS****REDUCING COUPLING**

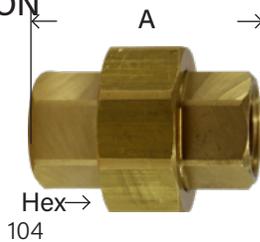
119

SAE# 130138

*Not to SAE specs

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28181L	1/4" x 1/8"	0.94	0.62	0.04	---
28181	1/4" x 1/8"	0.97	0.75	0.08	---
28182	3/8" x 1/8"	0.94	0.87	0.10	---
28182L	3/8" x 1/8"				
28183L	3/8" x 1/4"	1.00	0.81	0.06	---
28183	3/8" x 1/4"	1.16	0.87	0.12	---
28180*	1/2" x 1/8"	1.19	0.93	0.15	---
28184L	1/2" x 1/4"	1.11	1.00	0.10	---
28184	1/2" x 1/4"	1.28	1.06	0.20	---
28185L	1/2" x 3/8"	1.19	0.93	0.10	---
28185	1/2" x 3/8"	1.38	1.06	0.20	---
28186	3/4" x 1/8"				
28187	3/4" x 1/4"	1.19	1.19	0.17	---
28188*	3/4" x 3/8"	1.32	1.37	0.20	---
28189*	3/4" x 1/2"	1.19	1.18	0.14	---
28178	1" x 1/2"	1.50	1.56	0.41	---
28179	1" x 3/4"	1.56	1.56	0.39	---

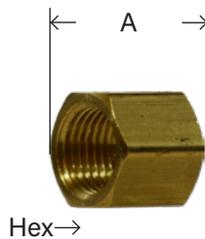
377 3300 208P 108 119B 119AH

UNION

104

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28067	1/8"	1.25	0.94	0.13	---
28068	1/4"	1.31	1.06	0.18	---
28069	3/8"	1.75	1.25	0.33	---
28070	1/2"	1.79	1.56	0.50	---
28071	3/4"	1.96	1.68	0.47	---

3250 212P 104A 104B

CAP

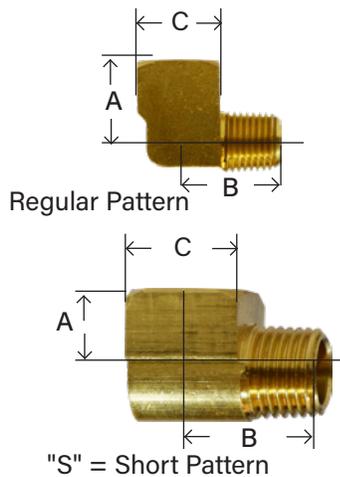
108

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28075	1/8"	0.47	0.56	0.03	---
28076	1/4"	0.60	0.68	0.04	---
28077	3/8"	0.69	0.81	0.06	---
28078	1/2"	0.78	0.93	0.08	---
28079	3/4"	0.94	1.25	0.16	---
28080	1"	1.13	1.50	0.23	---

3129 213P 23129 108A 108B

90° STREET ELBOW

SAE# 130239



116

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28161	1/16"	0.69	0.60	0.47	0.04	---
28156	1/8"	0.48	0.66	0.56	0.05	---
28156S	1/8" short	0.34	0.57	0.50	0.03	---
28157	1/4"	0.72	0.91	0.735	0.09	---
28157S	1/4" short	0.45	0.78	0.68	0.07	---
28158	3/8"	0.78	0.97	0.81	0.16	---
28158S	3/8"					
28159	1/2"	1.03	1.25	1.00	0.33	---
28159S	1/2"					
28160	3/4"	1.12	1.38	1.25	0.52	---

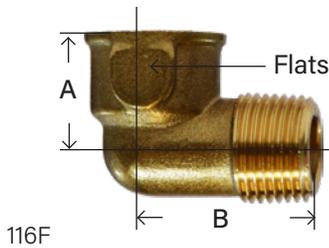
2202P 304 115 202 3400 116A

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE

BRASS FITTINGS

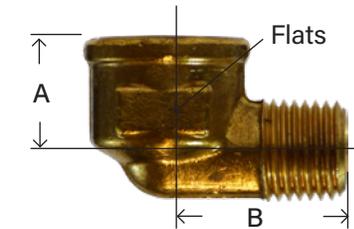
FORGED 90° STREET ELBOW



PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28165	1/8"	0.61	0.85	0.62	0.06	---
28166	1/4"	0.50	0.86	0.72	0.08	---
28167	3/8"	0.70	1.00	0.88	0.10	---
28168	1/2"	0.96	1.43	1.00	0.20	---
28169	3/4"	0.90	1.40	1.25	0.25	---

5E8 1202P 116AF 116B

FORGED REDUCING 90° STREET ELBOW



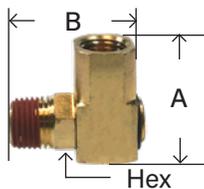
128

*Barstock

PART #	THREAD SIZE NPTF FXM	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28259*	1/8" x 1/16"					---
28260	1/8" x 1/4"	0.50	0.87	0.71	0.08	---
28261B*	1/4" x 1/8"	0.53	0.72	0.69	0.07	---
28261	1/4" x 1/8"	0.50	0.81	0.72	0.06	---
28262	1/4" x 3/8"	0.93	1.06	0.59	0.12	---
28263	3/8" x 1/4"	0.58	0.94	0.81	0.07	---
28264	3/8" x 1/2"	0.97	1.36	1.00	0.28	---
28265	1/2" x 3/8"	0.96	1.37	1.00	0.22	---
28265B*	1/2" x 3/8"	1.03	1.11	1.00	0.24	---

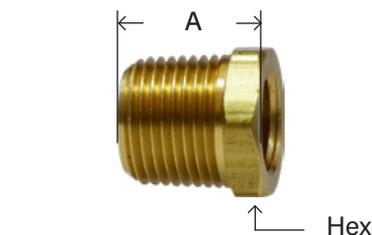
PIPE SWIVEL 90° STREET ELBOW

▪ Burst Pressure 1,200 PSI ▪ Working Pressure 300 PSI



PART #	MIP XFIP THREAD SIZE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
28430	1/4"	1.18	1.25	.625	0.22	---

HEX BUSHING



110

SAE# 130140

PART #	THREAD SIZE NPTF MXF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28101	1/8" x 1/16"				
28102L	1/4" x 1/8"	0.62	0.56	0.02	---
28102	1/4" x 1/8"	0.75	0.56	0.04	---
28103	3/8" x 1/8"	0.75	0.68	0.05	---
28104L	3/8" x 1/4"	0.69	0.68	0.03	---
28104	3/8" x 1/4"	0.75	0.75	0.05	---
28105L	1/2" x 1/8"	0.81	0.81	0.08	---
28105	1/2" x 1/8"	1.00	0.87	0.10	---
28106L	1/2" x 1/4"	0.81	0.81	0.08	---
28106	1/2" x 1/4"	1.00	0.87	0.11	---
28107L	1/2" x 3/8"	0.81	0.81	0.05	---
28107	1/2" x 3/8"	1.00	0.87	0.10	---
28108	3/4" x 1/8"	0.94	1.06	0.20	---
28109L	3/4" x 1/4"	0.94	1.06	0.18	---
28109	3/4" x 1/4"				
28110L	3/4" x 3/8"	0.94	1.06	0.15	---
28110	3/4" x 3/8"				
28111L	3/4" x 1/2"	0.94	1.06	0.11	---
28111	3/4" x 1/2"	1.00	1.12	0.14	---
28091	1" x 1/8"	1.15	1.37	0.29	---
28112	1" x 1/4"	1.15	1.37	0.32	---
28113	1" x 3/8"	1.12	1.37	0.30	---
28114	1" x 1/2"	1.31	1.44	0.29	---
28115	1" x 3/4"	1.31	1.37	0.20	---

373 3220 209P 110A 110B

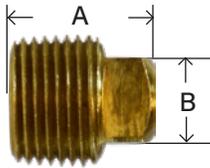
PIPE**BRASS FITTINGS****FACE BUSHING**

110F

PART #	THREAD SIZE NPTF MXF	A	APPROX. WT. LBS.	LIST PRICE
28121	1/4" x 1/8"	0.45	0.01	---
28122	3/8" x 1/8"	0.50	0.03	---
28116	3/8" x 1/4"	0.50	0.02	---
28090	1/2" x 1/8"	0.56	0.06	---
28128	1/2" x 1/4"	0.56	0.05	---
28117	1/2" x 3/8"	0.56	0.03	---
28129	3/4" x 1/4"	0.62	0.11	---
28130	3/4" x 3/8"	0.62	0.08	---
28118	3/4" x 1/2"	0.64	0.03	---
28120	1" x 1/2"	0.75	0.11	---
28119	1" x 3/4"	0.77	0.10	---

SQUARE HEAD PLUG

1/8 - 1/2 Solid



109

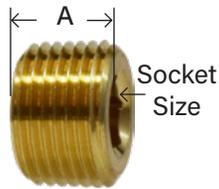
PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28084	1/8"	0.58	0.27	0.02	---
28085	1/4"	0.80	0.37	0.03	---
28086	3/8"	0.80	0.43	0.06	---
28087	1/2"	1.07	0.55	0.13	---
28088**	3/4"	1.09	0.61	0.20	---
28089**	1"	1.24	0.81	0.35	---

** Cored

3151 211P 109A 109B

COUNTERSUNK HEX PLUG

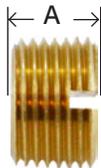
3/4" taper thread



109AL

PART #	THREAD SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	LIST PRICE
28092	1/16"	0.30	0.12	0.01	---
28093	1/8"	0.30	0.18	0.01	---
28094	1/4"	0.45	0.26	0.02	---
28095	3/8"	0.45	0.31	0.03	---
28096	1/2"	0.61	0.39	0.05	---
28097	3/4"	0.62	0.56	0.10	---

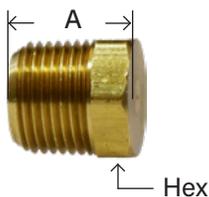
3153 219P 109CS 118

SLOTTED-HEAD PLUG

117

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	LIST PRICE
28174	1/8"	0.31	0.01	---
28175	1/4"	0.42	0.02	---
28176	3/8"	0.45	0.05	---

220P 3150 117A 117B

CORED HEX PLUGS

121

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28200	1/16"	0.48	0.38	0.01	---
28201	1/8"	0.55	0.43	0.01	---
28202	1/4"	0.62	0.56	0.02	---
28203	3/8"	0.72	0.68	0.06	---
28204	1/2"	0.81	0.87	0.09	---
28205	3/4"	0.94	1.06	0.16	---
28206	1"	1.16	1.37	0.28	---

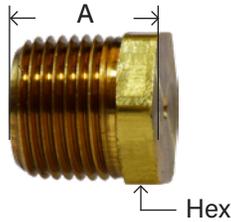
218P 3152 121A 103 121B PPH 218P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE

BRASS FITTINGS

SOLID HEX HEAD PLUGS



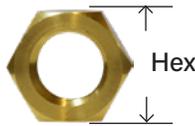
121S

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28201S	1/8"	0.55	0.43	0.02	---
28202S	1/4"	0.75	0.56	0.05	---
28203S	3/8"	0.66	0.68	0.07	---
28204S	1/2"	0.81	0.87	0.12	---
28205S	3/4"	0.92	1.06	0.24	---
28206S	1"	1.00	1.31	0.38	---

121AS

LOCKNUT

- Jam Nuts
- Straight pipe thread

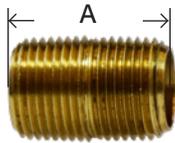


111

PART #	THREAD SIZE NPSL	HEX	THICKNESS	APPROX. WT. LBS.	LIST PRICE
28123	1/8"	0.68	0.19	0.02	---
28124	1/4"	0.87	0.25	0.04	---
28125	3/8"	1.00	0.31	0.04	---
28126	1/2"	1.125	0.25	0.04	---
28127	3/4"	1.38	0.38	0.09	---

210P 21102 111A 111B

CLOSE NIPPLE

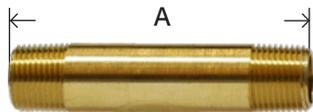


112

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.	LIST PRICE
28131	1/8"	0.75	0.01	---
28132	1/4"	0.88	0.02	---
28133	3/8"	1.00	0.05	---
28134	1/2"	1.12	0.06	---
28135	3/4"	1.31	0.11	---
28496	1"			---

165 215PN 3326 112A 112B

LONG NIPPLE



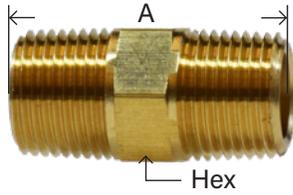
113

PART #	THREAD SIZE NPTF	A LENGTH	APPROX. WT. LBS.	LIST PRICE
28140	1/8"	1.50	0.03	---
28141	1/8"	2.00	0.04	---
28142	1/8"	2.50	0.06	---
28143	1/8"	3.00	0.06	---
28475	1/8"	3.50	0.07	---
28476	1/8"	4.00		
28144	1/4"	1.50	0.03	---
28145	1/4"	2.00	0.05	---
28146	1/4"	2.50	0.08	---
28147	1/4"	3.00	0.10	---
28481	1/4"	3.50	0.12	---
28482	1/4"	4.00		
28148	3/8"	1.50	0.06	---
28149	3/8"	2.00	0.10	---
28150	3/8"	2.50	0.10	---
28151	3/8"	3.00	0.13	---
28487	3/8"	3.50	0.17	---
28488	3/8"	4.00		
28152	1/2"	1.50	0.08	---
28153	1/2"	2.00	0.12	---
28154	1/2"	2.50	0.16	---
28155	1/2"	3.00	0.20	---
28493	1/2"	3.50	0.24	---
28136	3/4"	1.50	0.12	---
28497	3/4"	2.00	0.18	---
28498	3/4"	2.50	0.23	---
28499	3/4"	3.00	0.28	---

- NOTE: For longer lengths and larger diameters, see our red brass nipples section.



113B 113A 166 3327, 3328, 3329, 3330 3331 215PNL

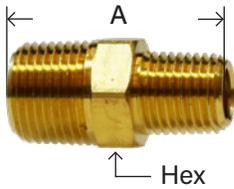
PIPE**BRASS FITTINGS****HEX NIPPLE**

122

SAE# 130137

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28210	1/16"	0.97	0.38	0.02	---
28211L	1/8"	0.91	0.43	0.02	---
28211	1/8"	0.97	0.43	0.03	---
28212L	1/4"	1.12	0.56	0.04	---
28212	1/4"	1.38	0.56	0.06	---
28213L	3/8"	1.25	0.68	0.07	---
28213	3/8"	1.41	0.68	0.07	---
28214L	1/2"	1.50	0.87	0.11	---
28214	1/2"	1.81	0.87	0.17	---
28215L	3/4"	1.55	1.07	0.17	---
28215	3/4"	1.96	1.13	0.23	---
28216L	1"	1.75	1.39	0.22	---
28216	1"	2.30	1.37	0.43	---

216P 3325 379 122AH 122B

REDUCING HEX NIPPLE

123

SAE# 130137

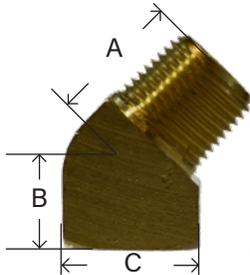
PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28218	1/8" x 1/16"	1.00	0.56	0.05	---
28220L	1/4" x 1/8"	1.00	0.56	0.04	---
28220	1/4" x 1/8"	1.19	0.56	0.04	---
28221L	3/8" x 1/8"	1.11	0.68	0.06	---
28221	3/8" x 1/8"	1.22	0.68	0.07	---
28222L	3/8" x 1/4"	1.19	0.68	0.06	---
28222	3/8" x 1/4"	1.41	0.68	0.07	---
28223L	1/2" x 1/4"	1.34	0.87	0.09	---
28223	1/2" x 1/4"	1.62	0.87	0.12	---
28224L	1/2" x 3/8"	1.41	0.87	0.11	---
28224	1/2" x 3/8"	1.62	0.87	0.12	---
28225L	3/4" x 1/2"	1.81	1.06	0.19	---
28225	3/4" x 1/2"	1.50	1.06	0.15	---
28227	1" x 3/4"	2.31	1.38	0.38	---

216P 3325 379 122AH 122B

45° STREET ELBOW

SAE# 130339

124

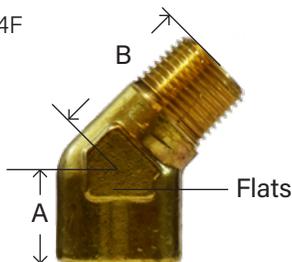


PART #	THREAD SIZE NPTF	B	A	C	APPROX. WT. LBS.	LIST PRICE
28230	1/8"	0.38	0.50	0.56	0.03	---
28231	1/4"	0.56	0.72	0.68	0.09	---
28232	3/8"	0.56	0.78	0.81	0.12	---
28233	1/2"	0.75	1.00	1.00	0.20	---
28234	3/4"	0.75	1.06	1.25	0.34	---

306 3350 2214P 224

450 FORGED STREET ELBOW

124F



PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	LIST PRICE
28238	1/8"	0.63	0.81	0.56	0.05	---
28239	1/4"	0.63	1.06	0.81	0.11	---
28240	3/8"	0.72	1.06	0.93	0.17	---

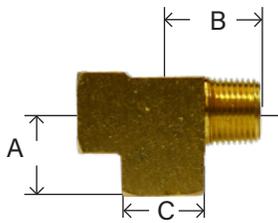
45E8 124B

PIPE

BRASS FITTINGS

STREET TEE/ SERVICE TEE/ MALE RUN TEE

SAE# 130424

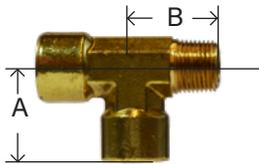


127

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28245	1/8"	0.55	0.66	0.56	0.08	---
28246	1/4"	0.78	0.91	0.68	0.17	---
28247	3/8"	0.84	0.97	0.81	0.22	---
28248	1/2"	1.09	1.25	1.00	0.40	---
28249	3/4"	1.16	1.39	1.25	0.60	---

225 2225P 3750 326 225 127A

FORGED STREET TEE



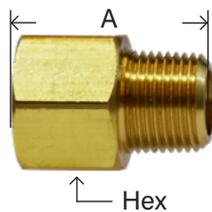
127F

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28253	1/8"	0.56	0.75	0.50	0.05	---
28254	1/4"	1.03	1.00	0.46	0.13	---
28255	3/8"	1.19	1.09	0.68	0.24	---
28256	1/2"	1.52	1.40	0.88	0.45	---

107 T8 127B

EXTENDER ADAPTER

SAE# 130139



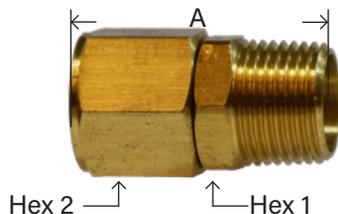
120

PART #	THREAD SIZE NPTF FXM	A	HEX	APPROX. WT. LBS.	LIST PRICE
28190L	1/8" x 1/8"	0.83	0.50	0.03	---
28190	1/8" x 1/8"	0.88	0.56	0.04	---
28191L	1/4" x 1/8"	0.94	0.62	0.04	---
28191	1/4" x 1/8"	1.06	0.75	0.07	---
28192L	1/4" x 1/4"	1.00	0.62	0.04	---
28192	1/4" x 1/4"	1.25	0.75	0.07	---
28198	3/8" x 1/8"	1.00	0.81	0.06	---
28193L	3/8" x 1/4"	1.12	0.81	0.08	---
28193	3/8" x 1/4"	1.25	0.87	0.09	---
28194L	3/8" x 3/8"	1.24	0.81	0.10	---
28194	3/8" x 3/8"	1.25	0.87	0.11	---
28197	1/2" x 1/8"	1.09	0.94	0.07	---
28199	1/2" x 1/4"	1.46	1.06	0.08	---
28199L	1/2" x 1/4"				
28195L	1/2" x 3/8"	1.19	0.93	0.09	---
28195	1/2" x 3/8"	1.47	1.06	0.18	---
28196L	1/2" x 1/2"	1.25	0.94	0.10	---
28196	1/2" x 1/2"	1.66	1.06	0.12	---
28207	3/4" x 3/8"	1.59	1.25	0.26	---
28207L	3/4" x 3/8"				
28208	3/4" x 1/2"	1.69	1.37	0.14	---
28208L	3/4" x 1/2"	1.22	1.25	0.13	---
28209	3/4" x 3/4"	1.69	1.37	0.34	---
28229	1" x 3/4"				

375 222P 3200 R1 120AH 120B

PIPE SWIVEL ADAPTER

*300 PSI all sizes



Male NPT x Female NPT

- 360° Turning
- Swivels



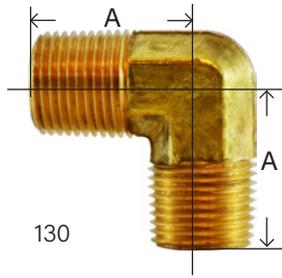
PART #	THREAD SIZE NPTF FXM	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
28424	1/8"	1.10	0.43	0.50	0.05	---
28425	1/4"	1.34	0.56	0.62	0.06	---
28426	3/8"	1.36	0.68	0.75	0.08	---
28427	1/2"	1.87	0.87	0.95	0.10	---

PART #	SIZE	LIST PRICE
320061	1/4	---

344R 3183

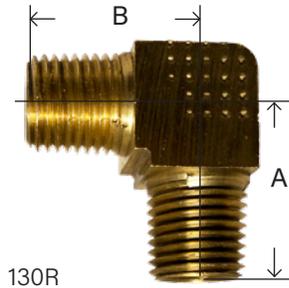
PIPE

BRASS FITTINGS

FORGED 90° MALE ELBOW

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28266	1/8"	0.79	0.38	0.04	---
28267	1/4"	0.87	0.45	0.06	---
28268	3/8"	1.06	0.59	0.12	---
28269	1/2"	1.38	0.78	0.21	---

LE5 3455 116AMF

BARSTOCK 90° MALE ELBOW

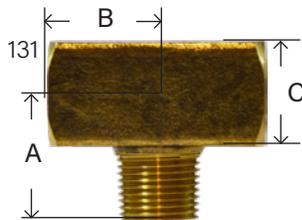
PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28266B	1/8"	0.69	0.56	0.08	---
28267B	1/4"	0.95	0.59	0.09	---
28268B	3/8"	1.01	0.71	0.15	---
28269B	1/2"	1.40	1.00	0.38	---
28270B	3/4"	1.50	1.25	0.55	---
28276B	1/2" x 3/8"	1.12	1.00	0.35	---

FORGED 90° MALE REDUCING ELBOW

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28274	1/4" x 1/8"	0.88	0.78	0.47	0.06	---
28275	3/8" x 1/4"	0.90	0.90	0.46	0.06	---
28276	1/2" x 3/8"	1.12	1.00	0.59	0.12	---

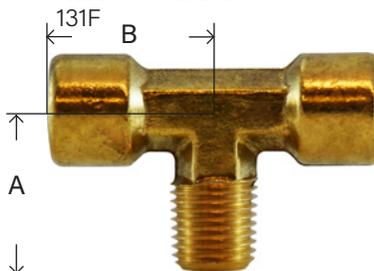
MALE BRANCH TEE

SAE# 130425



PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.	LIST PRICE
28281	1/8"	0.66	0.55	0.56	0.08	---
28282	1/4"	0.91	0.78	0.68	0.15	---
28283	3/8"	0.97	0.84	0.81	0.22	---
28284	1/2"	1.25	1.09	1.00	0.40	---
28285	3/4"	1.38	1.16	1.25	0.62	---

T9 X106 23601 3600 2224P 226 329 128

FORGED MALE BRANCH TEE

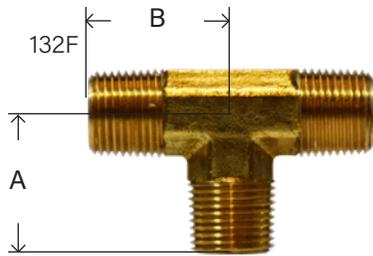
PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28281F	1/8"	0.75	0.56	0.50	0.06	---
28282F	1/4"	1.00	1.03	0.46	0.12	---

T9

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PIPE
BRASS FITTINGS

FORGED ALL MALE TEE

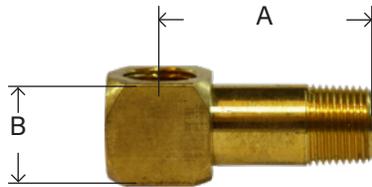


PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
28290	1/8"	0.75	0.75	0.43	0.06	---
28291	1/4"	0.86	0.86	0.43	0.08	---
28292	3/8"	1.09	1.09	0.60	0.16	---
28293	1/2"	1.22	1.22	0.68	0.22	---
28294	3/4"	1.43	1.43	0.87	0.38	---

T12 M101

LONG STREET ELLS

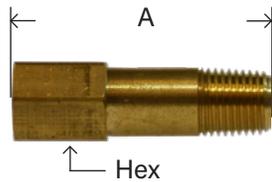
D.O.T. Approved



PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
28440	1/8"	1-3/16"	0.50	0.06	---
28441	1/8"	1-7/16"	0.50	0.06	---
28442	1/8"	1-11/16"	0.50	0.06	---
28443	1/8"	1-7/8"	0.50	0.16	---
28329	1/4"	1-7/16"	0.75	0.14	---
28330	1/4"	1-11/16"	0.75	0.15	---
28333	3/8"	1-3/4"	0.87	0.22	---

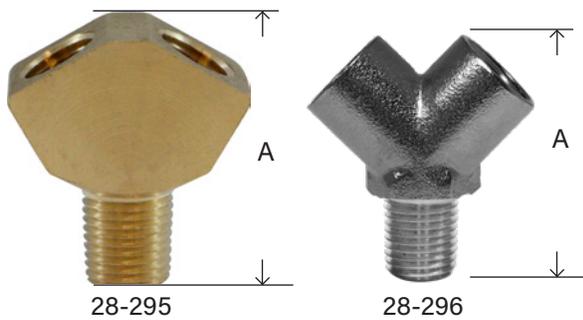
LONG EXTENSION ADAPTERS

D.O.T. Approved



PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
28335	1/8"	1-1/4"	0.50	0.04	---
28336	1/8"	1-3/4"	0.50	0.05	---
28337	1/8"	3"	0.50	0.09	---
28338	1/4"	1-9/16"	0.62	0.07	---
28339	1/4"	1-13/16"	0.62	0.08	---
28340	1/4"	2-1/16"	0.62	0.10	---

PIPE WYE FIP x MIP



PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	LIST PRICE
28295	1/4"	1.56	.15	---
28296	1/4 N/P	1.4	.12	---

PIPE WYE FIP x FIP - NICKEL PLATED



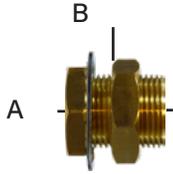
PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.	LIST PRICE
28298	1/4	1.4	.12	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

BULKHEAD FITTINGS

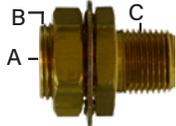
BRASS FITTINGS

BULKHEAD / ANCHOR / FRAME COUPLINGSFEMALE PIPE X
FEMALE PIPE

Part #	Female Pipe	Male Straight	Hole Size	Length (in.)	List Price
28299	1/8	5/8-18 UNS	5/8	0.96	---
28300	1/8	5/8-18 UNS	5/8	1-1/2	---
28301	1/4	3/4-16 UNS	3/4	15/16	---
28302	1/4	3/4-16 UNS	3/4	1-1/2	---
28315*	1/4	3/4-16 UNS	3/4	1-1/2	---
28303	3/8	1-14 UNS	1	1-5/16	---
28304	1/2	1-1/8-14 UNS	1-1/8	1-1/2	---
28305	1/2				
28311	3/4	1-5/16-12	1-5/16	1-1/2	---
28316**	1	1-5/8-14	1-5/8	1.68	---

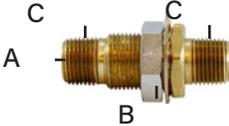
* Same as 28302 except with a larger mounting nut. **Without washer

FEMALE PIPE X MALE PIPE



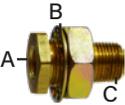
Part #	A	B	C		
28317	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-1/8	---
28318	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-11/16	---
28319	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-29/32	---

FEMALE PIPE X MALE PIPE



Part #	A	B	C		
28313	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-7/8	---

FEMALE PIPE X MALE PIPE



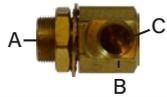
Part #	A	B	C		
28346	3/8-18 NPTF	1-14 UNS	1/2-14 NPTF	1-7/8	---
28347	1/2-14 NPTF	1-14 UNS	1/2-14 NPTF	2-3/8	---

TUBE X FEMALE PIPE



28321	1/2-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-5/16	---
28322	3/8-O.D. Tube	7/8-20 UNCF	3/8-18 NPTF	1-3/8	---

FEMALE PIPE X CLAMPING STUD ELBOW



28348	3/8-18 NPTF	7/8-20 UNEF	3/8-18 NPTF	2-5/16	---
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BRASS MARINE BULKHEAD



46540	5/16 Hose ID	----	----	2.37	---
46541	3/8 Hose ID	----	----	2.37	---

CROSSOVER NUMBERS

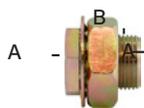
28-300	207x2	129A-A	50004	55207							1495B-A	ACBH207-2	207ACBH-2				
28-301	207X4	129AS-B		55611	S611	114-44	1345	382-44S	392C-94			ACBHS207-4					
28-302	207X4	129A-B	50005	55661		114B-44	1344	382-44L		035081		ACBH207-4	207ACBH-4		11306		90648
28-303	207X6	129A-C	50006	55607	S661/S607	114-66	1346	382-66		035087		ACBH207-6	207ACBH-6		11307	17709	
28-304	207X8	129A-D	50007	55807	S807	114-88	1351					ACBH207-8	207ACBH-8				
28-317				55615	S615	117-84											
28-318				55620	S620			381-86S							11304		
28-319			50001			115-86				035079	1496-DC						
28-313			50010	55600	S664	115-88	1342	380-84	5730	035021				11300	55X6		
28-346			50013	55613	S613												
28-347			50012	55629	S629					035039							
28-321						391-86/1347	S608										
28-322						391-66	S609										
28-348				55616													

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BULKHEAD FITTINGS

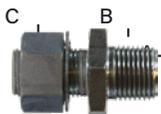
BRASS FITTINGS

STEEL BULKHEAD FITTINGS

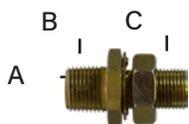


Part #	A	B	C	Length (in.)	List
28306	1/4-18 NPTF	3/4 - 16 UNS		0.94	---
28307	1/4-18 NPTF	3/4 - 16 UNS		1.50	---
28308	3/8-18 NPTF	1 - 14 UNS		1.31	---

FEMALE PIPE X MALE PIPE

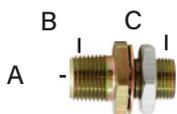


28309	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.16	---
28310	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2.53	---



28345	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2-5/32	---
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FEMALE PIPE X MALE PIPE



28325	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	1-11/16	---
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28312	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2.94	---
28320	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	3-15/16	---

STAINLESS STEEL BULKHEAD FITTINGS

- Temperature range: -20F°- 360F°
- Working pressure: 1450 - 2175PSI
- Washers are PA6 Nylon

BULKHEAD FITTINGS - STAINLESS STEEL 316L NPT (1/8-1/2")



PART #	SIZE	HOLE SIZE	HEX	LENGTH	LIST PRICE
28300SS	1/8"	0.701	0.866	0.748	---
28301SS	1/4"	0.858	1.063	0.748	---
28303SS	3/8"	1.055	1.260	1.102	---
28304SS	1/2"	1.173	1.417	1.378	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

HOSE BARB

BRASS FITTINGS

HOSE BARB FITTINGS



• Temperature and Working Pressure Ranges

From -40°F to + 160°F at 150 PSI maximum.

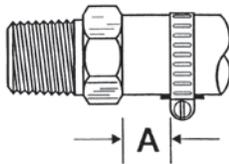
• Tolerance

+/- .02 on all dimensions. Dimension Data can change without notice. Please call us when dimensions are critical.

Note: These fittings are intended for use with hose clamp, similar type clamp or a crimped ferrule.

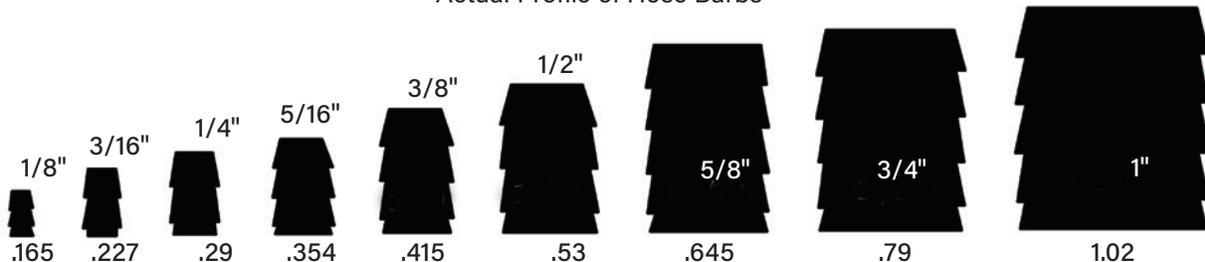
• Assembly Instructions

- 1- Cut hose cleanly and squarely to length.
- 2- Slide clamp on hose.
- 3- Lubricate hose. Push hose on fitting until hose bottoms against stop ring or hex.
- 4- Position hose clamp as shown below and secure with a screwdriver or wrench. Maintain "A" dimension noted below for proper clamp positioning.



Hose Size	A
3/16"	1/4"
1/4"	1/4"
5/16"	1/4"
3/8"	1/8"
1/2"	1/8"
5/8"	1/8"
3/4"	1/8"

Actual Profile of Hose Barbs



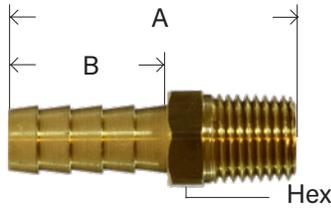
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB

BRASS FITTINGS

RIGID MALE ADAPTER

- These are not Lead Free



29
129

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32950	1/16" x 10/32"	0.90	0.45	0.38	0.01	---
32951	1/16" x 1/16"	0.91	0.48	0.38	0.01	---
32912	1/8" x 10/32"	0.92	0.48	0.38	0.01	---
32300	1/8" x 1/16"	0.93	0.48	0.38	0.01	---
32001	1/8" x 1/8"	1.19	0.69	0.43	0.02	---
32027	1/8" x 1/4"	1.16	0.46	0.56	0.02	---
32952	3/16" x 1/16"	1.20	0.75	0.38	0.02	---
32002	3/16" x 1/8"	1.19	0.75	0.43	0.02	---
32003	3/16" x 1/4"	1.37	0.69	0.56	0.04	---
32953	3/16" x 3/8"	1.44	0.69	0.68	0.04	---
32301	1/4" x 1/16"	1.44	0.88	0.43	0.02	---
32004	1/4" x 1/8"	1.47	0.97	0.43	0.02	---
32005	1/4" x 1/4"	1.72	0.97	0.56	0.04	---
32006	1/4" x 3/8"	1.72	0.97	0.68	0.05	---
32007	1/4" x 1/2"	1.72	0.81	0.87	0.10	---
32954	1/4" x 3/4"	1.86	0.96	1.06	0.15	---
32008	5/16" x 1/8"	1.47	0.97	0.43	0.02	---
32009	5/16" x 1/4"	1.72	0.97	0.56	0.04	---
32010	5/16" x 3/8"	1.76	0.97	0.68	0.06	---
32390	5/16" x 1/2"					
32011	3/8" x 1/8"	1.53	0.97	0.56	0.03	---
32012	3/8" x 1/4"	1.75	0.97	0.56	0.05	---
32013	3/8" x 3/8"	1.72	0.96	0.68	0.06	---
32014	3/8" x 1/2"	1.87	0.97	0.87	0.09	---
32026	3/8" x 3/4"	1.97	0.97	1.06	0.16	---
32956	7/16" x 1/4"	1.75	0.97	0.56	0.05	---
32957	7/16" x 3/8"	1.73	0.97	0.70	0.07	---
32958	7/16" x 1/2"	1.87	0.97	0.88	0.10	---
32302	1/2" x 1/8"	1.57	0.95	0.56	0.06	---
32015	1/2" x 1/4"	1.72	0.97	0.56	0.04	---
32016	1/2" x 3/8"	1.76	0.97	0.68	0.07	---
32017	1/2" x 1/2"	1.87	0.96	0.87	0.11	---
32018	1/2" x 3/4"	1.94	0.97	1.06	0.16	---
32303	1/2" x 1"	2.31	0.99	1.37	0.33	---
32304	5/8" x 1/4"	1.67	0.92	0.68	0.06	---
32019	5/8" x 3/8"	1.76	0.97	0.68	0.08	---
32020	5/8" x 1/2"	1.87	0.96	0.87	0.11	---
32021	5/8" x 3/4"	1.87	0.96	1.06	0.14	---
32305	5/8" x 1"	2.31	0.96	1.37	0.36	---
32915	3/4" x 1/4"	1.64	0.87	0.81	0.11	---
32306	3/4" x 3/8"	1.65	0.87	0.81	0.12	---
32022	3/4" x 1/2"	1.87	0.96	0.87	0.14	---
32023	3/4" x 3/4"	1.87	0.96	1.06	0.15	---
32316	3/4" x 1"	2.55	1.15	1.37	0.38	---
32918	7/8" x 3/4"					
32959	1" x 3/8"					
32307	1" x 1/2"	1.80	0.87	1.06	0.18	---
32024	1" x 3/4"	2.19	1.19	1.06	0.32	---
32025	1" x 1"	2.48	1.19	1.37	0.39	---
32919	1" x 1-1/4"					
32029	1-1/4" x 3/4"	2.37	1.19	1.37	0.35	---
32028	1-1/4" x 1"	2.55	1.19	1.37	0.46	---

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BRASS

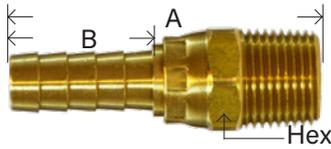
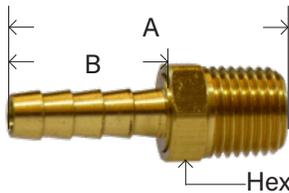
4244 PGH 101 102 201A 125HBL 105B-1 KF-PS MPB

HOSE BARB

BRASS FITTINGS

BRASS RIGID MALE BSPT BARB ADAPTER29SWV
29MS

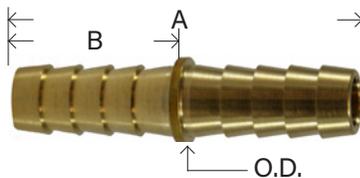
PART #	HOSE I.D. X MALE BSPT	LIST PRICE
32450	1/4" x 1/8"	---
32451	1/4" x 1/4"	---
32452	3/8" x 1/4"	---
32453	3/8" x 3/8"	---
32454	3/8" x 1/2"	---
32455	1/2" x 3/8"	---
32456	1/2" x 1/2"	---
32457	3/4" x 3/4"	---
32458	1" x 1"	---

SWIVEL MALE ADAPTERRotation 360°
NBR O-Ring

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32329	3/16" x 1/8"	2.00	0.78	0.56	0.06	---
32331	3/16" x 1/4"	1.95	0.78	0.56	0.06	---
32332	1/4" x 1/8"	2.19	0.97	0.56	0.06	---
32349	1/4" x 1/4"	2.12	0.97	0.56	0.06	---
32351	3/8" x 1/8"	2.12	0.97	0.56	0.07	---
32201	3/8" x 1/4"	2.12	0.97	0.56	0.07	---
32360	3/8" x 3/8"	2.12	0.97	0.69	0.08	---
32355	1/2" x 3/8"	2.12	0.97	0.68	0.10	---
32356	1/2" x 1/2"	2.33	0.97	0.87	0.14	---
32357	3/4" x 3/4"	2.33	0.97	1.06	0.20	---
32386	1" x 1"	2.88	1.19	1.38	0.40	---

SMS 103

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32200	1/4" x 1/4"	1.65	.89	0.56	0.04	---
32202	3/8" x 3/8"	1.75	1.00	0.68	0.08	---

MENDER/ SPLICER29S
129S

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	LIST PRICE
32091	1/8"	0.98	0.45	0.31	0.01	---
32092	3/16"	1.62	0.77	0.36	0.02	---
32093	1/4"	2.00	0.96	0.37	0.02	---
32079	1/4" x 1/8"	1.50	0.97	0.37	0.02	---
32094	5/16"	2.00	0.96	0.39	0.02	---
32090	5/16" x 1/4"	2.00	0.97	0.50	0.03	---
32095	3/8"	2.00	0.97	0.51	0.04	---
32960	3/8 x 1/8	1.58	1.00	0.50	0.03	---
32961	3/8 x 3/16	1.75	1.00	0.50	0.03	---
32080	3/8" x 1/4"	2.06	0.97	0.56	0.03	---
32375	3/8" x 5/16"	2.00	0.97	0.50	0.03	---
32096	1/2"	2.00	0.96	0.62	0.06	---
32087	1/2" x 3/8"	2.06	0.97	0.71	0.06	---
32097	5/8"	2.05	0.96	0.75	0.08	---
32088	5/8" x 3/8"	2.06	0.97	0.75	0.06	---
32376	5/8" x 1/2"	2.06	0.97	0.75	0.07	---
32098	3/4"	2.50	1.15	0.87	0.10	---
32089	3/4" x 1/2"	2.28	1.19	0.87	0.10	---
32379	3/4" x 5/8"	2.02	0.96	0.87	0.10	---
32380	1" x 3/4"	2.58	1.19	1.12	0.18	---
32099	1"	3.00	1.44	1.12	0.23	---

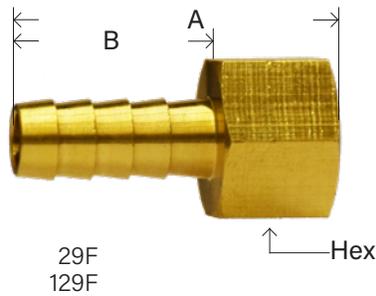
MSB 122HBL HM 129 178 73 108

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB

BRASS FITTINGS

RIGID FEMALE ADAPTER



PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32050	1/8" x 1/8"	0.96	0.46	0.50	0.02	---
32317	1/8" x 1/4"	1.15	0.46	0.62	0.04	---
32051	3/16" x 1/8"	1.10	0.68	0.50	0.02	---
32062	3/16" x 1/4"	1.44	0.75	0.62	0.04	---
32052	1/4" x 1/8"	1.35	0.93	0.50	0.02	---
32053	1/4" x 1/4"	1.60	0.97	0.62	0.06	---
32054	1/4" x 3/8"	1.65	1.03	0.75	0.04	---
32441	1/4" x 1/2"	1.66	0.97	0.93	0.08	---
32055	5/16" x 1/8"	1.47	0.97	0.56	0.04	---
32056	5/16" x 1/4"	1.66	0.97	0.62	0.04	---
32318	5/16" x 3/8"	1.66	0.97	0.75	0.06	---
32320	5/16" x 1/2"	1.67	0.96	0.93	0.08	---
32057	3/8" x 1/8"	1.47	0.97	0.56	0.04	---
32058	3/8" x 1/4"	1.61	0.97	0.62	0.06	---
32059	3/8" x 3/8"	1.63	1.00	0.81	0.08	---
32063	3/8" x 1/2"	1.72	0.94	0.93	0.12	---
32442	3/8" x 3/4"	1.97	0.97	1.18	0.20	---
32449	1/2" x 1/8"	1.51	0.98	0.56	0.06	---
32064	1/2" x 1/4"	1.66	0.96	0.62	0.08	---
32060	1/2" x 3/8"	1.66	0.97	0.75	0.08	---
32061	1/2" x 1/2"	1.76	0.96	0.93	0.12	---
32443	1/2" x 3/4"	1.97	0.97	1.18	0.26	---
32444	5/8" x 3/8"	1.66	0.97	0.75	0.08	---
32445	5/8" x 1/2"	1.66	0.97	0.93	0.10	---
32446	5/8" x 3/4"	1.97	0.97	1.18	0.21	---
32447	3/4" x 1/2"	1.88	1.19	0.93	0.13	---
32065	3/4" x 3/4"	2.19	1.21	1.18	0.22	---
32049	1" x 3/4"	2.19	1.19	1.18	0.26	---
32321	1" x 1"	2.32	1.19	1.44	0.35	---
32448	1-1/4" x 1"	2.32	1.19	1.43	0.44	---

209A 128 29A 29F 126HB 126 FPB 105B-2 KF-RS 104 144

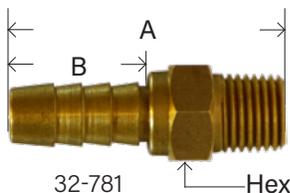
SWIVEL FEMALE ADAPTER NPTF



PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32470	1/4" x 1/4"	1.80	0.97	0.62	0.06	---
32472	3/8" x 1/4"	1.80	0.97	0.62	0.06	---
32473	3/8" x 3/8"	1.82	0.97	0.75	0.09	---
32475	1/2" x 3/8"	1.82	0.97	0.75	0.09	---
32476	1/2" x 1/2"	1.86	0.97	0.93	0.14	---

HIGH VOLUME MALE SWIVEL

• 300 PSI • Nitrile Buna (NBR) O-Ring



PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32781	3/8" x 1/4"	1.83	0.87	0.62	0.07	---

4065

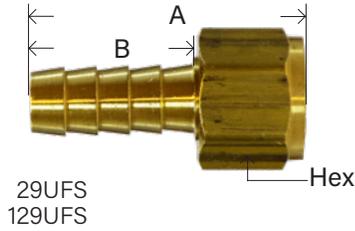
HOSE BARB

BRASS FITTINGS

SWIVEL FEMALE ADAPTER - With Gasket

- NPSM Thread

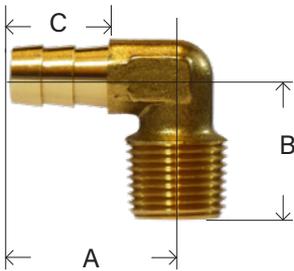
National Pipe Straight Gasket Seal Swivel



- Not recommend for water due to fiber gasket - for air service only.

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32132	3/16" x 1/8"	1.19	0.75	0.50	0.03	---
32133	3/16" x 1/4"	1.28	0.75	0.62	0.04	---
32120	1/4" x 1/8"	1.41	0.97	0.50	0.02	---
32121	1/4" x 1/4"	1.50	0.97	0.62	0.02	---
32129	1/4" x 3/8"	1.63	0.97	0.75	0.04	---
32122	3/8" x 1/4"	1.54	1.00	0.62	0.06	---
32123	3/8" x 3/8"	1.60	0.97	0.75	0.06	---
32354	3/8" x 1/2"	1.66	0.97	0.93	0.10	---
32124	1/2" x 3/8"	1.60	0.97	0.75	0.08	---
32125	1/2" x 1/2"	1.66	0.97	0.93	0.12	---
32117	1/2" x 3/4"	1.82	1.19	1.18	0.16	---
32118	5/8" x 3/4"	1.82	1.19	1.18	0.18	---
32119	3/4" x 3/4"	1.82	1.19	1.18	0.14	---

130 126 29F5G KF-RN NPSM Gasket Seat

FORGED HOSE BARB 90° ELBOW

29E
129E



32-330

**Square Barstock Body

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32308	3/16" x 1/8"	0.95	0.70	0.66	0.37	0.02	---
32391	3/16" x 1/4"	1.00	0.84	0.63	0.46	0.10	---
32038	1/4" x 1/8"	1.01	0.81	0.71	0.47	0.06	---
32039	1/4" x 1/4"	1.01	0.87	0.63	0.47	0.06	---
32309	1/4" x 3/8"	1.08	0.97	0.73	0.69	0.12	---
32036	5/16" x 1/8"	1.01	0.81	0.63	0.47	0.04	---
32040	5/16" x 1/4"	1.01	0.87	0.63	0.47	0.06	---
32310	5/16" x 3/8"	1.06	0.94	0.63	0.50	0.06	---
32046	3/8" x 1/8"	1.01	0.81	0.63	0.47	0.06	---
32041	3/8" x 1/4"	1.02	0.88	0.65	0.47	0.06	---
32042	3/8" x 3/8"	1.09	0.93	0.68	0.50	0.08	---
32047	3/8" x 1/2"	1.11	1.09	0.63	0.59	0.10	---
32048	1/2" x 1/4"	1.06	1.00	0.68	0.59	0.10	---
32043	1/2" x 3/8"	1.06	1.09	0.69	0.59	0.10	---
32311	1/2" x 1/2"	1.31	1.19	0.87	0.56	0.12	---
32044	5/8" x 3/8"	1.12	1.06	0.61	0.56	0.12	---
32045	5/8" x 1/2"	1.12	1.12	0.68	0.63	0.14	---
32312	5/8" x 3/4"	1.46	1.26	0.93	1.06	0.32	---
32313	3/4" x 1/2"	1.31	1.28	0.87	0.85	0.22	---
32314	3/4" x 3/4"	1.46	1.26	0.91	1.06	0.32	---
32330	3/4" x 1"	1.57	1.64	0.90	1.34	0.64	---
32315	1" x 3/4"	1.60	1.40	0.95	1.06	0.32	---
32319	1" x 1"	1.69	1.64	0.98	1.30	0.43	---

129 HBE1 KF-PS90 HE-1 29E 146

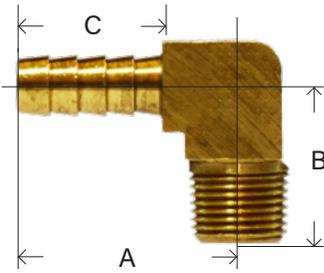
Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB

BRASS FITTINGS

BARSTOCK HOSE BARB 90° ELBOW

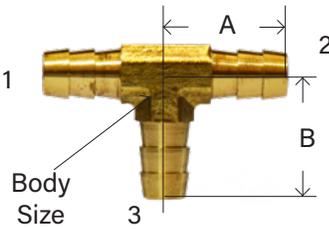


29EBS

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32038B	1/4" X 1/8"	1.00	0.75	0.75	0.50	0.02	---
32039B	1/4" X 1/4"	1.02	0.91	0.74	0.56	0.04	---
32309B	1/4" X 3/8"	1.19	0.84	0.76	0.58	0.09	---
32041B	3/8" X 1/4"	1.32	0.89	0.97	0.58	0.08	---
32042B	3/8" X 3/8"	1.50	1.06	0.97	0.75	0.14	---
32047B	3/8" X 1/2"	1.52	1.25	0.97	0.90	0.26	---
32043B	1/2" X 3/8"	1.53	1.07	0.97	0.72	0.16	---
32311B	1/2" X 1/2"	1.53	1.25	0.97	0.90	0.26	---
32314B	3/4" X 3/4"	1.33	1.27	0.97	1.10	0.32	---

129HB

HOSE BARB TEES

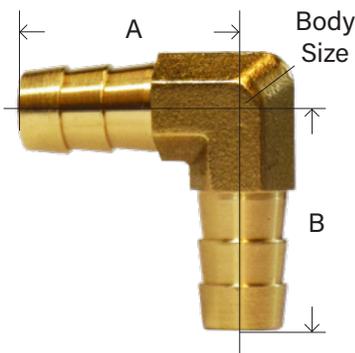


32-128

29T
129T

PART #	HOSE BARB SIZE (1 & 2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32367	1/8"	0.84	0.83	0.25	0.02	---
32368	3/16"	1.02	1.02	0.37	0.03	---
32365	1/4"	1.00	1.00	0.44	0.06	---
32350	(1/4") x 1/8"	0.94	0.94	0.44	0.04	---
32366	5/16"	1.00	1.00	0.44	0.06	---
32126	3/8"	1.01	1.01	0.43	0.06	---
32400	1/2"	1.02	1.00	0.43	0.08	---
32352	(1/2") x 3/8"	1.26	1.26	0.43	0.10	---
32361	5/8"	1.26	1.26	0.75	0.16	---
32363	3/4"	1.45	1.45	0.90	0.18	---
32353	(3/4") x 1/2"	1.41	1.41	0.88	0.23	---
32128	3/8" HB x 1/4" MIP	1.00	0.94	0.43	0.06	---

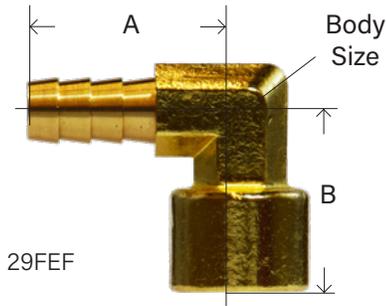
90° HOSE BARB ELBOW



PART #	HOSE I.D. X HOSE I.D.	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32429	1/8" x 1/8"	0.55	0.55	0.37	0.03	---
32433	3/16" x 3/16"	0.90	0.90	0.37	0.03	---
32412	1/4" x 1/8"	1.02	1.02	0.44	0.04	---
32413	1/4" x 1/4"	1.01	1.01	0.44	0.04	---
32425	5/16" x 5/16"	1.15	1.15	0.48	0.05	---
32414	3/8" x 1/8"	1.01	1.01	0.44	0.04	---
32415	3/8" x 1/4"	1.00	1.00	0.44	0.04	---
32416	3/8" x 3/8"	1.02	1.02	0.44	0.04	---
32417	3/8" x 1/2"	1.24	1.10	0.50	0.06	---
32418	1/2" x 1/4"	1.24	1.08	0.50	0.06	---
32419	1/2" x 3/8"	1.22	1.09	0.50	0.06	---
32420	1/2" x 1/2"	1.24	1.24	0.50	0.06	---
32434	5/8" x 5/8"	1.20	1.20	0.75	0.16	---
32435	3/4" x 1/2"	1.41	1.41	0.88	0.21	---
32436	3/4" x 3/4"	1.41	1.41	0.88	0.21	---

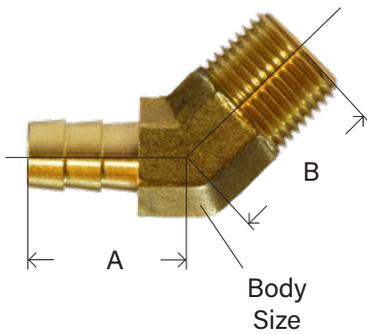
HOSE BARB

BRASS FITTINGS

90° FEMALE HOSE BARB ELBOW

29FEF

PART #	HOSE I.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32401	1/4" x 1/8"	1.01	0.82	0.47	0.06	---
32402	1/4" x 1/4"	1.13	0.91	0.56	0.10	---
32403	3/8" x 1/8"	1.01	0.82	0.47	0.06	---
32404	3/8" x 1/4"	1.15	0.91	0.56	0.10	---
32405	3/8" x 3/8"	1.15	1.11	0.68	0.14	---
32406	3/8" x 1/2"	1.26	1.39	0.75	0.20	---
32407	1/2" x 1/4"	1.26	0.91	0.56	0.10	---
32410	1/2" x 3/8"	1.24	1.11	0.68	0.14	---
32411	1/2" x 1/2"	1.37	1.39	0.75	0.20	---
32409	3/4" x 3/4"	1.52	1.75	0.81	0.50	---

45° ELBOW294S
1294S

PART #	HOSE I.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
32110	1/4" x 1/8"	0.91	0.62	0.53	0.04	---
32109*	1/4" x 1/4"	1.00	0.62	0.57	0.06	---
32108	5/16" x 1/8"					
32134	5/16" x 1/4"					
32111	3/8" x 1/8"	0.83	0.66	0.53	0.04	---
32112	3/8" x 1/4"	0.82	0.84	0.53	0.06	---
32113	3/8" x 3/8"	0.93	0.87	0.59	0.08	---
32346	1/2" x 1/4"	1.00	0.84	0.59	0.08	---
32114	1/2" x 3/8"	1.00	0.88	0.59	0.08	---
32116	1/2" x 1/2"	1.15	0.94	0.59	0.12	---
32115	5/8" x 3/8"	0.97	0.88	0.59	0.10	---
32345	3/4" x 1/2"	1.15	0.94	0.81	0.13	---

* Barstock

140 HE145 139HB KF-PS45 13945

CROSSES

PART #	HOSE ID	LIST PRICE
32608	1/4	---
32609	5/16	---
32610	3/8	---

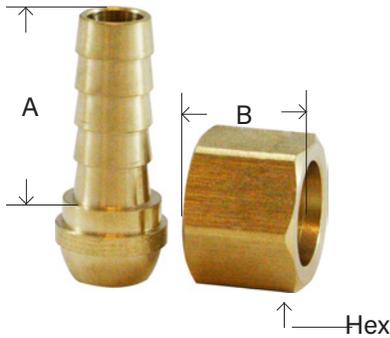
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



HOSE BARB

BRASS FITTINGS

BALL END SWIVEL NPSM - Ball seat type



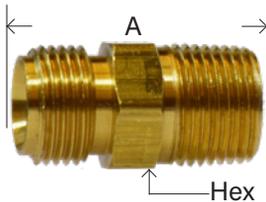
29FS
129FS

PART #	HOSE I.D. X NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32066	1/8" x 1/8"	0.46	0.44	0.50	0.03	---
32067	3/16" x 1/8"	0.75	0.44	0.50	0.03	---
32068	3/16" x 1/4"	0.75	0.52	0.62	0.04	---
32069	1/4" x 1/8"	0.97	0.44	0.50	0.04	---
32070	1/4" x 1/4"	0.97	0.53	0.62	0.06	---
32078	1/4" x 3/8"	0.97	0.63	0.75	0.06	---
32071	5/16" x 1/4"	0.97	0.52	0.62	0.05	---
32072	3/8" x 1/4"	0.97	0.53	0.62	0.06	---
32073	3/8" x 3/8"	0.97	0.59	0.75	0.08	---
32074	3/8" x 1/2"	0.97	0.69	0.94	0.14	---
32075	1/2" x 3/8"	0.97	0.59	0.75	0.08	---
32076	1/2" x 1/2"	0.97	0.69	0.94	0.10	---
32077	3/4" x 3/4"	0.97	0.70	1.12	0.14	---

128HBSLV 29FS 209AS 124 131

BALLSEAT MALE ADAPTER

Beveled seat

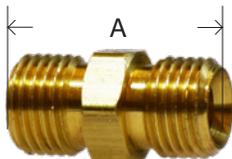


30° Seat

PART #	NPSM X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
32359	1/8" x 1/8"	0.94	0.43	0.03	---
32034	1/4" x 1/8"	1.06	0.56	0.04	---
32030	1/4" x 1/4"	1.25	0.56	0.06	---
32362	3/8" x 1/4"	1.28	0.68	0.08	---
32031	3/8" x 3/8"	1.30	0.68	0.08	---
32392	3/8" x 1/2"	1.47	0.88	0.13	---
32364	1/2" x 3/8"	1.35	0.87	0.10	---
32032	1/2" x 1/2"	1.53	0.87	0.14	---
32033	3/4" x 3/4"	1.53	1.06	0.20	---

172 134 127HB 122AS

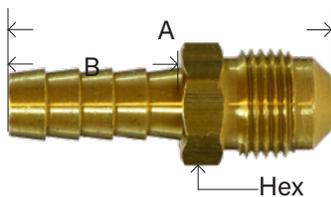
BALLSEAT UNION



30° Seat

PART #	NPSM X NPSM	A	HEX	APPROX. WT. LBS.	LIST PRICE
32460	1/8"	0.79	0.43	0.02	---
32461	1/4"	1.09	0.56	0.04	---
32462	3/8"	1.19	0.68	0.07	---
32463	1/2"	1.31	0.87	0.10	---

45° FLARE ADAPTER



29SAE
129SAE

PART #	HOSE I.D. X 45° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32322	3/16" x 1/4"	7/16-20	1.5	0.75	0.43	0.03	---
32081	1/4" x 1/4"	7/16-20	1.72	0.97	0.43	0.03	---
32082	1/4" x 3/8"	5/8-18	1.82	0.97	0.62	0.07	---
32083	5/16" x 5/16"	1/2-20	1.75	0.97	0.50	0.08	---
32084	3/8" x 3/8"	5/8-18	1.82	0.97	0.62	0.08	---
32085	3/8" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	---
32086	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	---

142 201BF KF-MS KDS

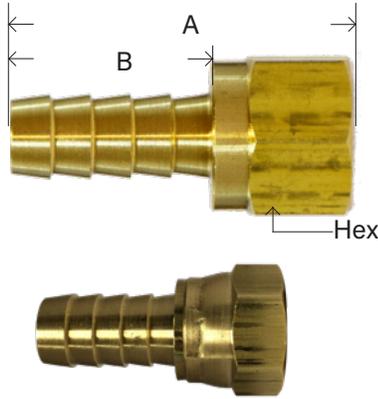
COMPRESSION ADAPTER - BARB X MALE COMPRESSION THREAD



PART #	SIZE	LIST PRICE
18534	1/4" x 1/4"	---

HOSE BARB

BRASS FITTINGS

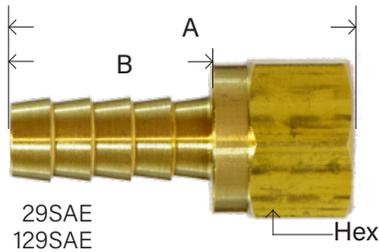
DUAL 45°/ 37° FLARE SWIVEL

CRIMP STYLE

PART #	HOSE ID X DUAL SEAT	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32107	3/16" x 1/4"	7/16-20	1.34	0.75	0.56	0.04	---
32107C**	3/16 X 1/4	7/16-20	1.42	0.78	0.56	0.04	---
32337	1/4" x 1/4"	7/16-20	1.56	0.97	0.56	0.04	---
32337C**	1/4" X 1/4"	7/16-20	1.60	0.97	0.56	0.04	---
32102	1/4" x 5/16"	1/2-20	1.61	0.97	0.62	0.06	---
32339	5/16" x 5/16"	1/2-20	1.60	0.97	0.62	0.06	---
32340	3/8" x 1/2"	3/4-16	1.68	0.97	0.87	0.10	---
32341	1/2" x 1/2"	3/4-16	1.68	0.97	0.87	0.10	---
32341C**	1/2" X 1/2"	3/4-16	1.75	0.97	0.87	0.09	---
32342	1/2" x 5/8"	7/8-14	1.76	0.97	1.00	0.12	---
32394**	5/8" x 5/8"	7/8-14	1.83	0.97	1.00	0.14	---
32394C	5/8" x 5/8"						

** Swivel crimp style

KDS

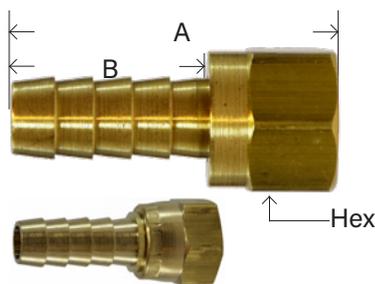
FEMALE 45° FLARE SWIVEL29SAE
129SAE

CRIMP STYLE

PART #	HOSE I.D. X FEMALE 45° FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32326	3/16" x 3/16"	3/8-24	1.19	0.75	0.43	0.04	---
30295**	3/16" x 3/8"	5/8-18	1.82	0.90	0.75	0.04	---
32101	1/4" x 1/4"	7/16-20	1.57	0.97	0.56	0.04	---
32103	1/4" x 3/8"	5/8-18	1.64	0.97	0.75	0.08	---
32104	5/16" x 5/16"	1/2-20	1.61	0.97	0.62	0.05	---
32327	5/16" x 3/8"	5/8-18	1.67	0.97	0.75	0.08	---
32105	3/8" x 3/8"	5/8-18	1.64	0.97	0.75	0.08	---
32105C**	3/8" x 3/8"	5/8-18	1.71	0.97	0.75	0.07	---
32106	3/8" x 1/2"	3/4-16	1.81	0.97	0.87	0.10	---
32100	1/2" x 1/2"	3/4-16	1.68	0.97	0.87	0.12	---
32328	3/4" x 3/4"	1-1/16-14	2.00	0.97	1.25	0.20	---

** Swivel crimp style (crimped on the outside of fitting)

29SAE 209ASF 146HBLFSV KF-NS 128 FSS 146 144

FEMALE 37° J.I.C. FLARE SWIVEL

CRIMP STYLE

PART #	HOSE ID X FEMALE 37° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32334	1/4" x 3/8"	9/16-18	1.60	0.97	0.68	0.06	---
32335	5/16" x 3/8"	9/16-18	1.60	0.97	0.68	0.06	---
32336	3/8" x 3/8"	9/16-18	1.60	0.97	0.68	0.10	---
32336C	3/8" X 3/8"	9/16-18	1.66	0.97	0.68	0.06	---
32338	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.20	---
32338SS	3/4" x 3/4"	1-1/16-12	2.00	0.97	1.25	0.24	---
32338C	3/4" x 3/4"	1-1/16-12	2.13	1.19	1.25	0.20	---
32397	1" x 1"	1-5/16-12	2.31	1.19	1.50	0.33	---
32397C	1" x 1"						

KJS

REUSABLE MALE FITTINGS

29RU17

PART #	HOSE ID	HOSE OD	MALE NPTF	LIST PRICE
32727	1/4"	1/2"	1/4"	---
32726	1/4"	5/8"	1/4"	---
32742	3/8"	5/8"	1/4"	---
32744	3/8"	11/16"	1/4"	---
32725	3/8"	3/4"	1/4"	---
32747	3/8"	5/8"	3/8"	---
32750	3/8"	11/16"	3/8"	---
32746	1/2"	7/8"	1/2"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HOSE BARB

BRASS FITTINGS

Typical Application: Low pressure air, fuel and oil applications. Generally used for automotive, light truck, and small engine fuel lines. Use with fuel hose SAE 30R7 & SAE 30R9.

Advantages: Easy to assemble, just push the fitting into the hose & clamp. Good selection of configurations at reasonable cost.

MALE CONNECTOR HOSE BARB X MALE PIPE



159
29SB

PART #	HOSE ID	MIP	IND #	LIST PRICE
38800	3/16	1/8	1541	---
38802	1/4	1/8	1537	---
32377	1/4	1/4	1581	---
38806	5/16	1/8	1551	---
38808	5/16	1/4	1555	---
38810	3/8	1/8	1565	---
32381	3/8	1/4	1564	---
32382	3/8	3/8	1566	---
32383	1/2	3/8		---
32384	1/2	1/2		---
32385	5/8	1/2	1431	---
32387	3/4	1/2	1430	---
32388	3/4	3/4		---

68HB

BUBBLE BARB MALE ADAPTER

BUBBLE X MIP



PART #	BUBBLE X MIP	LIST PRICE
32176	3/8 x 3/8	---
32177	1/2 x 1/4	---
32178	1/2 x 3/8	---
32179	1/2 x 1/2	---
32182	5/8 x 3/8	---
32183	5/8 x 1/2	---
32184	3/4 x 1/2	---
32180	3/4 x 3/4	---
32185	1 x 3/4	---
32181	1 x 1	---

INVERTED FLARE MALE CONNECTOR

HOSE BARB X INVERTED FLARE

159IN
291FSB



PART #	HOSE ID	INV. FLARE	IND #	LIST PRICE
38828	5/16	1/4	1598	---
38830	5/16	5/16	1560	---
38832	5/16	3/8	1561	---
38834	3/8	5/16	1568	---
38836	3/8	3/8	1570	---

269HB

90° MALE ELBOW

HOSE BARB X MALE PIPE

29ESB



PART #	HOSE ID	MIP	IND #	LIST PRICE
38860	1/4	1/8	1582	---
38862	5/16	1/8	1556	---
38864	5/16	1/4	1557	---
38866	3/8	1/8	1572	---
38868	3/8	1/4	1571	---

BUBBLE BARB

159E



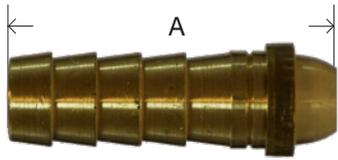
PART #	HOSE ID	MIP	LIST PRICE
32186	3/8	3/8	---
32194	1/2	1/4	---
32187	1/2	3/8	---
32191	1/2	1/2	---
32195	5/8	1/4	---
32188	5/8	3/8	---
32189	5/8	1/2	---
32190	3/4	1/2	---
32192	3/4	3/4	---

WELDED HOSE FITTINGS

BRASS FITTINGS

**INVERTED FLARE MALE SWIVEL 90° ELBOW
HOSE BARB X TUBE O.D.**

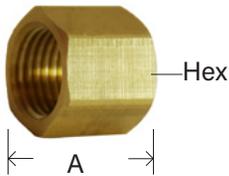
PART #	HOSE ID	INV. FLARE	IND #	LIST PRICE
38873	5/16	5/16	1405	---
38874	3/8	3/8	1407	---

STEM ONLY - WELDING HOSE CONNECTOR

PART #	HOSE I.D.	A	APPROX. WT. LBS.	LIST PRICE
30410	3/16"	1.43	0.02	---
30411	1/4"	1.43	0.02	---
30413	3/8"	1.43	0.04	---

Assemble with nuts below.

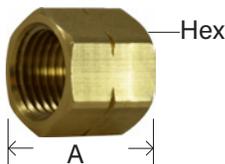
201RWA WRS WLS

RIGHT HAND 9/16 - 18 FOR OXYGEN LINE - WELDING HOSE NUT

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30420	R.H. Nut only	0.63	0.68	0.04	---

Assemble with stem above.

201RWA WRS KF-PE 152

LEFT HAND 9/16 - 18 FOR ACETYLENE LINE - WELDING HOSE NUT

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30421	L.H. Nut only	0.63	0.68	0.04	---

Assemble with stem above.

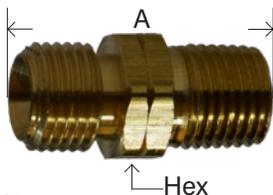
209LWA WLS 154 KF-RE

RIGHT HAND 9/16 - 18 #122RWA - WELDING HOSE CONNECTOR651
WH42R

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30401	1/4"-18	1.30	0.62	0.06	---
32437	3/8"-18	1.30	0.68	0.09	---
32438*	9/16"-18	1.25	0.68	0.07	---

* Right UNF thread

156

LEFT HAND 9/16 - 18 #122LWA - WELDING HOSE CONNECTOR652
WH42L

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30406	1/4"-18	1.30	0.62	0.06	---
32439	3/8"-18	1.30	0.68	0.09	---
32440*	9/16"-18	1.25	0.68	0.07	---

* Left UNF thread

158

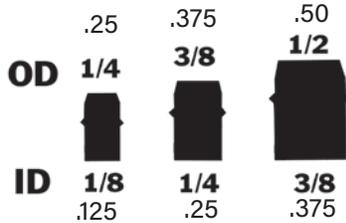
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BARBED FOR PLASTIC TUBING

BRASS FITTINGS

BRASS BARBS FOR POLYETHYLENE TUBING

- Quick connecting fittings that do not require tube preparations for hand assembly. Inexpensive with excellent resistance to vibration.
- All sizes are tube O.D. (I.D.)



UNION

29MBS



TUBE O.D. (TUBE I.D.) X TUBE O.D. (TUBE I.D.)

PART #	SIZE	LIST PRICE
21003	1/4(1/8) x 1/4(1/8)	---
21007	3/8(1/4) x 1/4(1/8)	---

1062 962

MALE ADAPTER

29MB



TUBE O.D. (TUBE I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21023	1/4(1/8) x 1/8	---
21025	1/4(1/8) x 1/4	---
21027	3/8(1/4) x 1/8	---

1068 968 688

BULKHEAD UNION

29MBHS



TUBE O.D. (TUBE I.D.)

PART #	SIZE	LIST PRICE
21082	1/4(1/8)	---

1074

UNION ELBOW

1065
965



29BEMB
TUBE O.D. (I.D.)

PART #	SIZE	LIST PRICE
21095	1/4(1/8)	---
21097	3/8(1/4)	---

MALE 90° ELBOW

29MBE



TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
21111	1/4(1/8) x 1/16	---
21113	1/4(1/8) x 1/8	---
21115	1/4(1/8) x 1/4	---
21117	3/8(1/4) x 1/8	---
21119	3/8(1/4) x 1/4	---
21121	1/2(3/8) x 3/8	---

1069 969 229

UNION TEE

29MBT



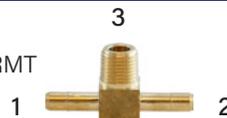
O.D. (I.D.) X O.D. (I.D.) X O.D. (I.D.)

PART #	SIZE	LIST PRICE
21151	1/4(1/8)	---
21155	3/8(1/4)	---
21161	1/2(3/8)	---

1064 964 224

MALE BRANCH TEE

29MRMT

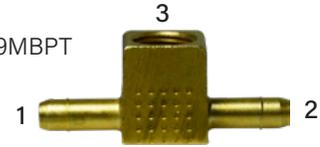


PART #	SIZE	LIST PRICE
21193	1/4(1/8) x 1/4(1/8) x 1/8	---
21195	3/8(1/4) x 3/8(1/4) x 1/8	---

1072 972 232

FEMALE BRANCH TEE

29MBPT



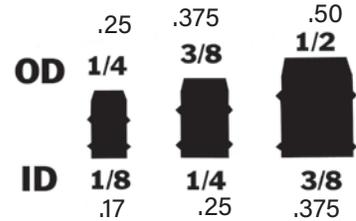
O.D. (I.D.) X O.D. (I.D.) X FEMALE PIPE

PART #	SIZE	LIST PRICE
21207	1/4(1/8) x 1/4(1/8) x 1/8	---

1077 978

TWO BARB FITTINGS

More Sizes Available - Please Ask!



MALE ADAPTER PIPE



TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE	LIST PRICE
32150	1/4(1/8) x 1/8	---
32153	3/8(1/4) x 1/4	---

28

UNION TEE



PART #	TUBE O.D. (I.D.)	LIST PRICE
32159	1/4(1/8 ID)	---
32160	3/8(1/4 ID)	---

90° ELBOW



PART #	TUBE O.D. (I.D.)	LIST PRICE
32170	1/4(1/8 ID)	---
32171	3/8(1/4 ID)	---

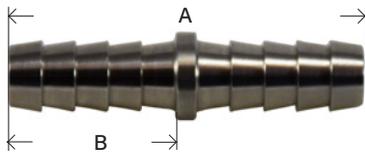
225

BARSTOCK/ CAST SS HOSE BARB

BRASS FITTINGS

**316 STAINLESS STEEL MACHINED RIGID
MALE ADAPTER**

PART #	HOSE I.D. X NPT	LIST PRICE
32001SS	1/8" x 1/8"	---
32002SS	3/16" x 1/8"	---
32003SS	3/16" x 1/4"	---
32004SS	1/4" x 1/8"	---
32005SS	1/4" x 1/4"	---
32006SS	1/4" x 3/8"	---
32008SS	5/16" x 1/8"	---
32009SS	5/16" x 1/4"	---
32010SS	5/16" x 3/8"	---
32011SS	3/8" x 1/8"	---
32012SS	3/8" x 1/4"	---
32013SS	3/8" x 3/8"	---
32014SS	3/8" x 1/2"	---
32015SS	1/2" x 1/4"	---
32016SS	1/2" x 3/8"	---
32017SS	1/2" x 1/2"	---
32018SS	1/2" x 3/4"	---
32019SS	5/8" x 3/8"	---
32020SS	5/8" x 1/2"	---
32021SS	5/8" x 3/4"	---
32022SS	3/4" x 1/2"	---
32023SS	3/4" x 3/4"	---
32024SS	1" x 3/4"	---

316 STAINLESS STEEL SPLICER

PART #	HOSE I.D. X HOSE I.D.	A	B	LIST PRICE
32091SS	1/8"			---
32093SS	1/4"	2.03	0.97	---
32094SS	5/16"			---
32095SS	3/8"	2.06	0.97	---
32096SS	1/2"	2.06	0.97	---
32098SS	3/4"	2.50	1.19	---

316 STAINLESS STEEL BARB ELBOW

PART #	HOSE I.D. X NPT	LIST PRICE
32038SS	1/4 x 1/8	---
32039SS	1/4 x 1/4	---
32041SS	3/8 x 1/4	---
32042SS	3/8 x 3/8	---
32043SS	1/2" x 3/8"	---
32311SS	1/2 x 1/2	---
32314SS	3/4" x 3/4"	---

304 STAINLESS STEEL HOSE NIPPLES

• Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
73951	1/4"	---
73952	3/8"	---
73953	1/2"	---
73954	3/4"	---
73955	1"	---
73956	1-1/4"	---
73957	1-1/2"	---
73958	2"	---
73959	2-1/2"	---
73960	3"	---

304 STAINLESS STEEL REDUCING HOSE NIPPLES

• Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
73970	1/4" X 1/8"	---
73971	3/8" X 1/4"	---
73972	1/2" X 3/8"	---
73973	1/2" X 1/4"	---
73974	3/4" X 1/2"	---
73975	1" X 3/4"	---
73976	1" X 1/2"	---
73977	1-1/4" X 1"	---
73979	1-1/2" X 1-1/4"	---
73980	1-1/2" X 1"	---
73981	2" X 1-1/2"	---
73982	2" X 1-1/4"	---

316 STAINLESS STEEL HOSE NIPPLES

• Cast

PART #	HOSE I.D. X MALE PIPE	LIST PRICE
973951	1/4"	---
973952	3/8"	---
973953	1/2"	---
973954	3/4"	---
973955	1"	---
973956	1-1/4"	---
973957	1-1/2"	---
973958	2"	---
973959	2-1/2"	---
973990	3"	---
973991	4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BEVERAGE FITTINGS

BRASS FITTINGS

BARB TO MALE PIPE ADAPTER



PART #	SIZE	LIST PRICE
34587	1/4" x 1/8"	---
34588	1/4" x 1/4"	---
34591	3/8" x 1/4"	---
34592	3/8" x 3/8"	---
34595	3/8" x 1/2"	---
34597	1/2" x 3/4"	---

FEMALE FLARE SWIVEL SETS



PART #	SIZE	LIST PRICE
34501	1/4" x 1/4"	---
34502	5/16" x 1/4"	---
34504	3/8" x 3/8"	---

ONE PIECE SWIVEL BARB X FE. FL



PART #	SIZE	LIST PRICE
34510	3/8" x 1/4"	---

HOSE SPLICER (STRAIGHT)



PART #	SIZE	LIST PRICE
34532	3/16"	---
34533	1/4"	---
34534	1/4" x 3/16"	---
34535	3/8"	---
34543	3/8" x 1/4"	---
34540	1/2" x 3/8"	---

PLUG



PART #	SIZE	LIST PRICE
34572	1/4"	---

U-BEND



PART #	SIZE	A	LIST PRICE
34633	3/8"	2	---

U-BEND W/MANIFOLD



THINWALL

PART #	SIZE	LIST PRICE
34621T	1/4"	---
34622T	3/8"	---

CROSS



CROSS - THINWALL

PART #	SIZE	LIST PRICE
34635T	1/4"	---
34638T	3/8"	---

Flo-Jet Fittings



PART #	SIZE	LIST PRICE
P-1520-000-TEE	1/4"	
P-1521-000-EL	1/4"	
P-1522-000	1/4"	

Y TEES



THINWALL

PART #	SIZE	A	LIST PRICE
34650T	1/4"	1-1/8	---
34652T	3/8"	1-1/4	---

BARB HOSE TEES



PART #	SIZE	LIST PRICE
34562	1/4"	---
34563	3/8"	---

REDUCING TEES

PART #	1&2	3	LIST PRICE
34567	1/4"	3/8"	---
34568	3/8"	1/4"	---

THINWALL TEES



PART #	SIZE	LIST PRICE
34562T	1/4"	---
34563T	3/8"	---
34564T	1/2"	---

90° BARB SPLICER



PART #	SIZE	LIST PRICE
34551	1/4"	---
34550	5/16"	---
34552	3/8"	---

PUSH ON HOSE BARB

BRASS FITTINGS

PUSH ON BARB FITTINGS

Typical Application: Low Pressure Air, Fuel, Lube, and Oil Lines

• Pressure determined by tube material and hardness. Our parts have been tested to max 150 PSI.

Advantages: Easy assembly. No clamps needed!!

• **Assembly Instructions**

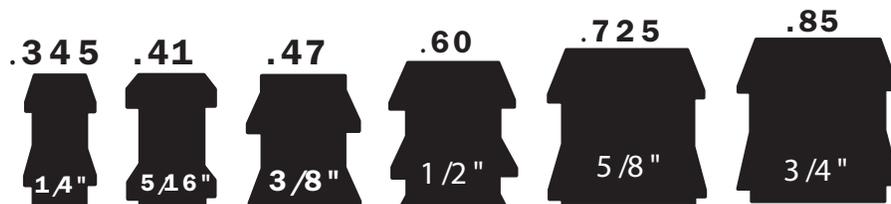
- 1- Lubricate insert.
- 2- Hold hose at angle as shown & push on and up over first barb.
- 3- Continue to push straight on until hose is seated under protective plastic cap. Keep hands back from hose end area so that hose can expand.

• **Disassembling Instructions**

- 1- Split hose. Do not cut completely through hose. Sealing edge of barb could be damaged.
- 2- Bend hose and remove with a quick pull.

See lead free section for lead free push-on barb fittings. **Stainless steel available at the end of this section.**

ACTUAL PROFILE OF PUSH ON BARBS

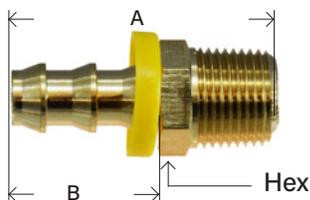


WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH-ON FITTINGS

BRASS FITTINGS

MALE ADAPTER

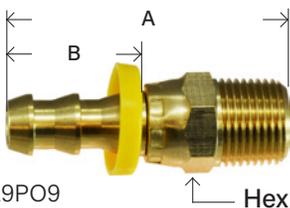


29PO1
129PO1

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30200	1/4" x 1/8"	1.43	0.87	0.50	0.04	---
30201	1/4" x 1/4"	1.66	0.87	0.56	0.06	---
30211	1/4" x 3/8"	1.66	0.87	0.68	0.06	---
30208	1/4" x 1/2"	1.83	0.88	0.88	0.10	---
30212	5/16" x 1/8"	1.42	0.77	0.43	0.04	---
30213	5/16" x 1/4"	1.66	0.87	0.56	0.06	---
30202	3/8" x 1/8"	1.53	0.97	0.50	0.04	---
30203	3/8" x 1/4"	1.69	0.89	0.56	0.07	---
30204	3/8" x 3/8"	1.76	0.97	0.68	0.08	---
30205	3/8" x 1/2"	1.97	0.97	0.87	0.10	---
30392	3/8" x 3/4"	1.97	0.92	1.06	0.16	---
30216	1/2" x 1/4"	1.76	0.97	0.68	0.08	---
30206	1/2" x 3/8"	1.76	0.97	0.68	0.09	---
30207	1/2" x 1/2"	1.97	0.97	0.87	0.14	---
30217	1/2" x 3/4"	1.97	0.97	1.06	0.16	---
30218	1/2" x 1"	2.29	0.97	1.37	0.34	---
30219	5/8" x 3/8"	2.34	1.50	0.75	0.12	---
30209	5/8" x 1/2"	2.45	1.45	0.87	0.16	---
30214	5/8" x 3/4"	2.45	1.45	1.06	0.18	---
30215	3/4" x 1/2"	2.45	1.45	0.87	0.21	---
30210	3/4" x 3/4"	2.45	1.45	1.06	0.20	---
30238	1" x 3/4"	2.93	1.50	1.25	0.43	---
30239	1" x 1"	3.11	1.50	1.37	0.49	---

301 P990A HLM 100B-1 KA-MB 272 29PO 725 625 BPN 941 30182

MALE SWIVEL

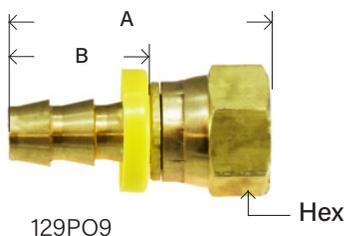


29PO9
129PO2

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30422	1/4" x 1/8"	2.07	0.87	0.56	0.06	---
30385	1/4" x 1/4"	2.02	0.87	0.56	0.06	---
30386	3/8" x 1/4"	2.12	0.97	0.56	0.08	---
30387	3/8" x 3/8"	2.12	0.97	0.68	0.08	---
30388	1/2" x 3/8"	2.12	0.97	0.68	0.10	---
30389	1/2" x 1/2"	2.33	0.97	0.87	0.14	---
30424	5/8" x 1/2"	2.80	1.45	0.88	0.18	---
30390	3/4" x 3/4"	2.80	1.45	1.06	0.24	---

921 HMS 285 31382

FEMALE GASKET SEAL SWIVEL - NPSM



129PO9

• Not recommend for water due to fiber gasket - for air service only. For water, replace with rubber gasket

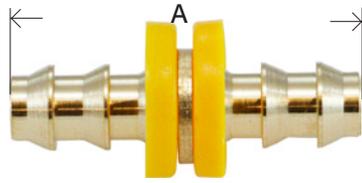
PART #	HOSE I.D. X GASKET SWIVEL (NPSM)	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30359	1/4" x 1/8"	1.39	0.77	0.50	0.03	---
30358	1/4" x 1/4"	1.47	0.82	0.68	0.06	---
30360	3/8" x 1/4"	1.61	1.00	0.68	0.06	---
30361	3/8" x 3/8"	1.77	0.97	0.81	0.08	---
30362	3/8" x 1/2"	1.80	0.92	0.93	0.09	---
30363	1/2" x 1/2"	1.90	1.02	0.93	0.11	---
30366	3/4" x 3/4"	2.36	1.55	1.18	0.32	---

280

Dimension data can change without notice. Please check when dimensions are critical.

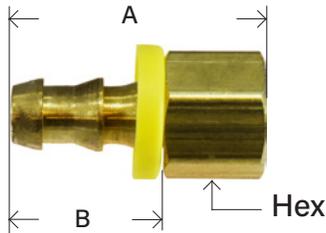
PUSH ON HOSE BARB

BRASS FITTINGS

HOSE SPLICER29P08
129PO14

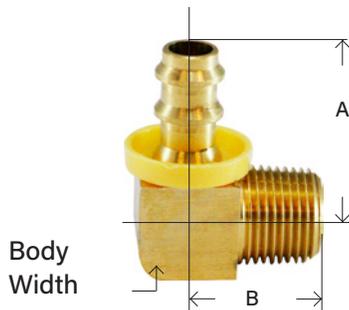
PART #	HOSE I.D.	A	APPROX. WT. LBS.	LIST PRICE
30300	1/4"	1.87	0.04	---
30305	5/16"	1.80	0.04	---
30301	3/8"	2.00	0.06	---
30302	1/2"	2.01	0.08	---
30303	5/8"	3.03	0.14	---
30304	3/4"	3.03	0.14	---
30306	1"	3.21	0.28	---

BPM 696 29SPO 296 915 729 100B-Y KA-RM MHL 296 38282

RIGID FEMALE ADAPTER29PO2
129PO7

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30220	1/4" x 1/8"	1.35	0.87	0.50	0.02	---
30221	1/4" x 1/4"	1.51	0.87	0.62	0.06	---
30384	1/4" x 3/8"	1.51	0.77	0.75	0.06	---
30222	5/16" x 1/4"	1.51	0.87	0.62	0.06	---
30393	3/8" x 1/8"	1.47	0.92	0.56	0.06	---
30224	3/8" x 1/4"	1.61	0.97	0.62	0.06	---
30225	3/8" x 3/8"	1.63	0.97	0.75	0.06	---
30394	3/8" x 1/2"	1.66	0.92	0.93	0.12	---
30223	1/2" x 1/4"	1.76	1.02	0.68	0.08	---
30226	1/2" x 3/8"	1.63	0.97	0.75	0.08	---
30227	1/2" x 1/2"	1.77	0.97	0.93	0.14	---
30396	1/2" x 3/4"	2.07	1.02	1.18	0.20	---
30229	5/8" x 1/2"	2.24	1.48	0.93	0.11	---
30399	3/4" x 1/2"	2.24	1.50	0.93	0.14	---
30395	3/4" x 3/4"	2.55	1.50	1.18	0.24	---
30402	1" x 1"	2.68	1.55	1.43	0.37	---

30282 29FPO HLF 626 274 726 940

MALE ELBOW29POE
129PO20

PART #	HOSE I.D. X MALE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.	LIST PRICE
30372	1/4" x 1/8"	0.98	0.75	0.50	0.04	---
30373	1/4" x 1/4"	1.04	0.95	0.56	0.06	---
30374	5/16" x 1/8"	1.02	0.94	0.50	0.06	---
30375	5/16" x 1/4"	1.09	0.94	0.56	0.08	---
30370	3/8" x 1/8"	1.11	0.75	0.50	0.10	---
30371	3/8" x 1/4"	1.13	0.90	0.56	0.10	---
30376	3/8" x 3/8"	1.21	0.92	0.70	0.12	---
30377	3/8" x 1/2"	1.30	1.19	0.87	0.22	---
30382	1/2" x 3/8"	1.32	1.02	0.70	0.13	---
30378	1/2" x 1/2"	1.50	1.19	0.87	0.22	---
30379	5/8" x 1/2"	1.98	1.19	0.87	0.26	---
30381	3/4" x 3/4"	2.07	1.28	1.06	0.34	---

100-C 29EPO 273

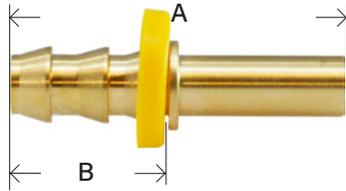
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



PUSH ON HOSE BARB

BRASS FITTINGS

RIGID TUBE ADAPTER

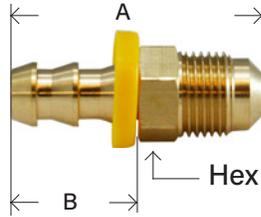


29PO1D
129PO15

PART #	HOSE I.D. X O.D. TUBE	A	B	APPROX. WT. LBS.	LIST PRICE
30290	1/4" x 3/16"	1.68	0.77	0.04	---
30291	1/4" x 1/4"	1.88	0.77	0.04	---
30292	1/4" x 5/16"	1.88	0.77	0.04	---
30293	5/16" x 5/16"	1.91	0.79	0.04	---
30294	3/8" x 3/8"	2.03	0.92	0.06	---
30297	1/2" x 1/2"	2.13	1.02	0.06	---

294 100B-X KA-RL 303 732 694

MALE SAE FLARE ADAPTER

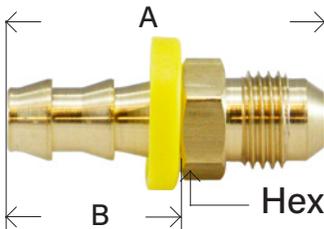


29PO3
129PO4

PART #	HOSE I.D. X 45° MALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30240	1/4" x 1/4"	7/16-20	1.45	0.75	0.43	0.04	---
30241	1/4" x 5/16"	1/2-20	1.59	0.84	0.50	0.04	---
30249	5/16" x 5/16"	1/2-20	1.60	0.80	0.50	0.06	---
30271	3/8" x 5/16"	1/2-20	1.64	0.86	0.50	0.08	---
30243	3/8" x 3/8"	5/8-18	1.83	0.92	0.62	0.08	---
30245	1/2" x 1/2"	3/4-16	1.98	1.02	0.875	0.10	---
30246	5/8" x 5/8"	7/8-14	2.73	1.50	0.87	0.19	---
30247	3/4" x 3/4"	1-1/16-14	2.98	1.50	1.06	0.32	---

100B-3 KA-MS 727 945 682 302 282

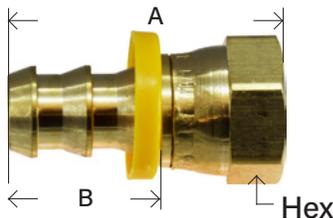
37° MALE JIC FLARE ADAPTER



29PO11
129PO6

PART #	HOSE I.D. X MALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
32900	1/4" x 1/4"	7/16-20	1.57	0.84	0.50	0.04	---
32901	1/4" x 5/16"	1/2-20	1.60	0.83	0.56	0.04	---
32906	1/4" x 3/8"	9/16-18	1.63	0.77	0.62	0.05	---
32902	3/8" x 3/8"	9/16-18	1.78	0.97	0.62	0.06	---
32903	1/2" x 1/2"	3/4-16	1.97	0.97	0.75	0.10	---
32907	5/8" x 5/8"	7/8-14	2.62	1.50	0.93	0.19	---
32905	3/4" x 3/4"	1-1/16-12	2.79	1.50	1.12	0.29	---

SAE/JIC DUAL 45°/37° FEMALE SWIVEL



29PO5
129PO10

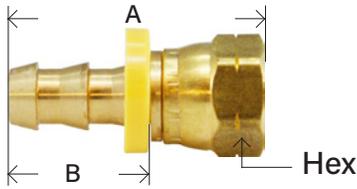
PART #	HOSE I.D. X DUAL SEAT	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30230	1/4" x 1/4"	7/16-20	1.53	0.87	0.56	0.06	---
30231	1/4" x 5/16"	1/2-20	1.53	0.87	0.62	0.04	---
30232	5/16" x 5/16"	1/2-20	1.56	0.87	0.62	0.04	---
30427	3/8" x 5/16"	1/2-20	1.74	0.87	0.62	0.06	---
30233	3/8" x 1/2"	3/4-16	1.79	0.97	0.87	0.10	---
30234	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.10	---
30235	1/2" x 5/8"	7/8-14	1.84	0.97	1.00	0.12	---
30236	5/8" x 1/2"	3/4-16	2.27	1.45	0.87	0.18	---
30237	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	---
30428	3/4" x 5/8"	7/8-14	2.33	1.45	1.00	0.20	---

29FDS 287 HDF 309 735 690 P990-K 305 935/934

Dimension data can change without notice. Please see our website when dimensions are critical.

PUSH ON HOSE BARB

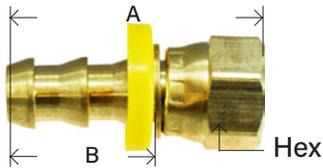
BRASS FITTINGS

45° SAE FLARE FEMALE SWIVEL

29P06
129PO14

PART #	HOSE I.D. X 45° FEMALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30250	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	---
30251	1/4" x 5/16"	1/2-20	1.57	0.87	0.62	0.04	---
30253	1/4" x 3/8"	5/8-18	1.63	0.87	0.75	0.06	---
30254	5/16" x 5/16"	1/2-20	1.58	0.87	0.68	0.06	---
30260	5/16" x 3/8"	5/8-18	1.63	0.87	0.75	0.08	---
30252	3/8" x 3/8"	5/8-18	1.73	0.97	0.75	0.10	---
30257	3/8" x 1/2"	3/4-16	1.85	0.87	0.87	0.10	---
30261	1/2" x 3/8"	5/8-18	1.92	1.05	0.75	0.10	---
30255	1/2" x 1/2"	3/4-16	1.77	0.97	0.87	0.12	---
30258	5/8" x 5/8"	7/8-14	2.35	1.45	1.00	0.14	---
30259	3/4" x 3/4"	1-1/16-14	2.42	1.45	1.25	0.22	---

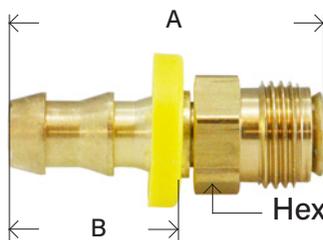
30882 728 P990-H 29AEPO 307 284 1005-4 KA-NS HSF 684 934

FEMALE 37° JIC FLARE SWIVEL

29P07
129PO12

PART #	HOSE I.D. X FEMALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30265	1/4" x 1/4"	7/16-20	1.54	0.87	0.56	0.04	---
30264	1/4" x 3/8"	9/16-18	1.57	0.87	0.68	0.06	---
30270	5/16" x 3/8"	9/16-18	1.60	0.82	0.68	0.06	---
30266	3/8" x 3/8"	9/16-18	1.70	0.97	0.68	0.08	---
30267	1/2" x 1/2"	3/4-16	1.78	0.97	0.87	0.10	---
30268	5/8" x 5/8"	7/8-14	2.33	1.45	1.00	0.14	---
30269	3/4" x 3/4"	1-1/16-12	2.40	1.45	1.25	0.22	---
30429	1" x 1"	1-5/16-12	2.60	1.45	1.50	0.39	---

JF 944/934 29J1CPO HJF 688 738 288 100B-6 308 P990-F 30682 KA-NJ

INVERTED FLARE MALE SWIVEL

29P016
129PO6

PART #	HOSE I.D. X MALE INV FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30275	1/4" x 3/16"	3/8-24	1.52	0.87	0.37	0.04	---
30276	1/4" x 1/4"	7/16-24	1.56	0.87	0.43	0.04	---
30277	1/4" x 5/16"	1/2-20	1.62	0.87	0.50	0.04	---
30278	5/16" x 1/4"						
30280	5/16" x 5/16"	1/2-20	1.62	0.87	0.50	0.06	---
30283	5/16" x 3/8"	5/8-18	1.63	0.87	0.62	0.06	---
30284	3/8" x 5/16"	1/2-20	1.72	0.97	0.50	0.06	---
30279	3/8" x 3/8"	5/8-18	1.76	0.97	0.62	0.06	---
30282	1/2" x 1/2"	3/4-18	1.84	0.97	0.75	0.10	---
30286	5/8" x 5/8"	7/8-18	2.50	1.57	0.87	0.14	---

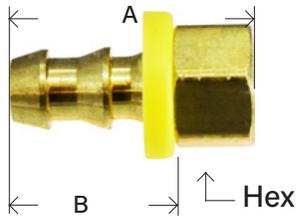
290 100B-B KA-MF 1MS 947

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PUSH ON HOSE BARB

BRASS FITTINGS

INVERTED FLARE FEMALE ADAPTER

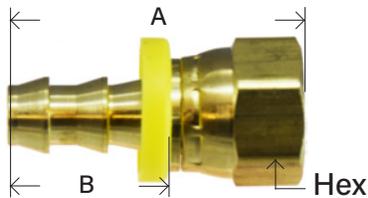


29P013
129P013

PART #	HOSE I.D. X FEMALE INV FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30310	1/4" x 3/16"	1.12	0.84	0.50	0.02	---
30311	1/4" x 1/4"	1.14	0.84	0.56	0.02	---
30312	1/4" x 5/16"	1.18	0.82	0.62	0.02	---
30316	5/16" x 5/16"	1.25	0.81	0.62	0.04	---
30313	3/8" x 5/16"	1.32	0.87	0.62	0.04	---
30314	3/8" x 3/8"	1.35	0.95	0.75	0.06	---
30315	1/2" x 1/2"	1.73	1.04	0.87	0.12	---

306 100B-A KA-NG 292 P990-J 736 692 946

FEMALE BALLSEAT SWIVEL

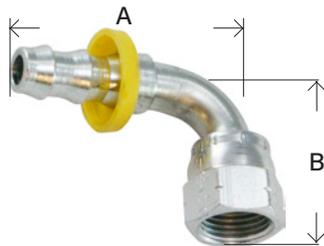


29P04
129P08

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30340	1/4" X 1/8"	1.39	0.85	0.50	0.06	---
30341	1/4" X 1/4"	1.47	0.82	0.68	0.06	---
30342	1/4" x 3/8"	1.40	0.77	0.68	0.09	---
30343	3/8" X 1/4"	1.61	0.97	0.68	0.08	---
30344	3/8" X 3/8"	1.75	0.95	0.81	0.10	---
30346	1/2" X 1/2"	1.88	1.09	0.93	0.12	---
30349	3/4" X 3/4"	2.36	1.55	1.18	0.22	---

628 278 295PO 731 NPSM

SAE/ JIC 37°/ 45° FEMALE SWIVEL 90° ZINC PLATED STEEL



PART #	HOSE I.D. X FEMALE 37°/45°	UNF THREAD	A	B	APPROX. WT. LBS.	LIST PRICE
30480	1/4"	7/16-20	1.55	0.83	.064	---
30482	3/8"	9/16-18	1.85	0.91	.095	---
30483*	3/8"	5/8-18	1.98	0.85	.095	---
30484	1/2"	3/4-16	2.33	1.09	.171	---
30485	5/8"					
30486	3/4"	1-1/16-12	3.26	1.81	.281	---

* SAE

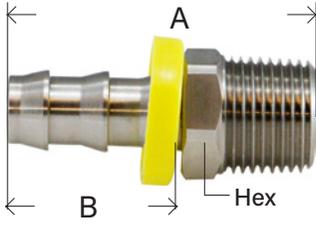
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

STAINLESS STEEL PUSH ON 316 HOSE BARB

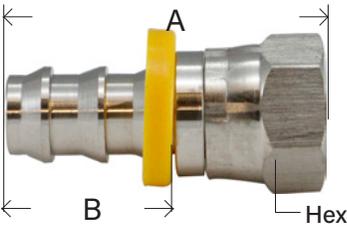
BRASS FITTINGS

316 STAINLESS STEEL MALE ADAPTERS



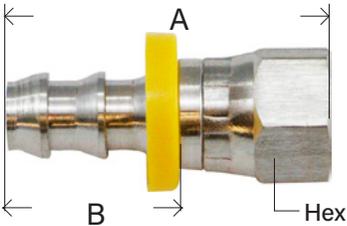
PART #	HOSE I.D. X NPT	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30200SS	1/4" x 1/8"	1.42	0.77	0.44	0.027	---
30201SS	1/4" x 1/4"	1.61	0.77	0.56	0.043	---
30203SS	3/8" x 1/4"	1.76	0.92	0.56	0.053	---
30204SS	3/8" x 3/8"	1.76	0.92	0.69	0.067	---
30206SS	1/2" x 3/8"	1.86	1.02	0.69	0.071	---
30207SS	1/2" x 1/2"	2.07	1.02	0.88	0.119	---
30215SS	3/4" x 1/2"	2.55	1.50	0.88	0.20	---
30210SS	3/4" x 3/4"	2.55	1.50	1.06	0.194	---

316 STAINLESS STEEL SAE/ JIC 45°/ 37° FEMALE SWIVEL



PART #	HOSE I.D. X FEMALE 45°/37°	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30230SS	1/4" x 1/4"	1.48	0.74	0.56	0.023	---
30234SS	1/2" x 1/2"	1.93	1.03	0.88	0.04	---

316 STAINLESS STEEL FEMALE 37° JIC FLARE SWIVEL



PART #	HOSE I.D. X FEMALE 37°	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30266SS	3/8" x 3/8"	1.75	.92	0.68	0.065	---
30269SS	3/4" x 3/4"	2.53	1.50	1.25	0.259	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE FITTINGS



• **Temperature and Working Pressure Ranges**

From +35°F to +100°F at 75 PSI maximum or the recommended working pressure of the garden hose. (Not to exceed 150 PSI.)

Note: All female connector ends should have a rubber washer inserted prior to usage.

FGH = Female Garden Hose threads

MGH = Male Garden Hose threads

Male garden hose threads are all 3/4" with an outside diameter of 1.0625 and 11-1/2" threads per inch.



Male Garden Hose Profile



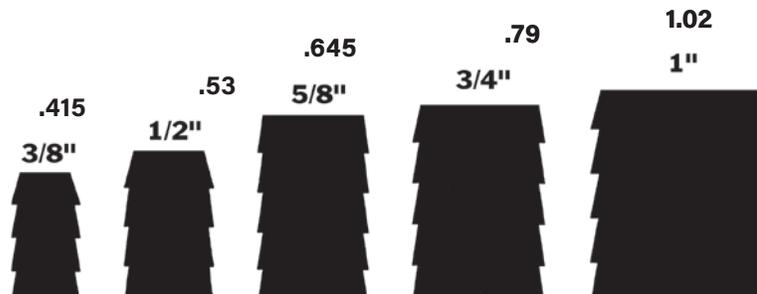
See Plastic section for Plastic Garden Hose Fittings



Lead free Garden Hose

Washers included are #30150B black washers.

ACTUAL PROFILE OF GARDEN HOSE BARBS

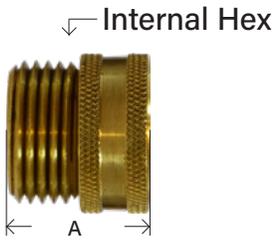


WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

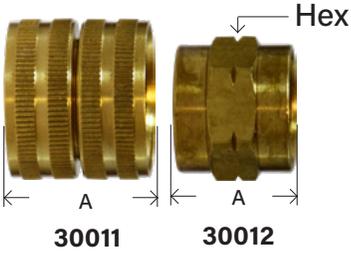
STAINLESS STEEL PUSH ON 316 HOSE BARB

BRASS FITTINGS

SWIVEL - MGH X FGH**.WASHER INCLUDED**

PART #	MGH X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30000**	3/4" x 3/4"	1.03	0.50*	0.26	---

* Internal Hex
 * Not a live swivel
 ** available in swivel crimp style

SWIVEL - FGH X FGH**.WASHER INCLUDED**

PART #	FGH X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30011	3/4" x 3/4"	1.03	1.18 O.D.	0.24	---
30012	No Swivel	1.08	1.19	0.24	---

HUS 91 203W GSU 101GH5V 22AS 506 FS66

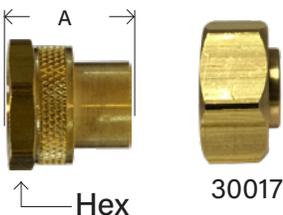
SWIVEL - FGH X FEMALE PIPE**.WASHER INCLUDED**

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30001	3/4" x 1/2"	1.20	1.00	0.11	---
30006	3/4" x 3/4"	1.11	1.12	0.11	---

S1 HSU11 91Z 197S 98GH5V 5AS 21517 502 FS65

EVAPORATIVE COOLER FITTINGS

PART #	SIZE	LIST PRICE
50016	MGH x 1/2" FIP	---
30013	1/2 MIP x 1/2 FIP x 1/8	---

RIGID - FGH X FEMALE PIPE**.WASHER INCLUDED**

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30016	3/4" x 1/8"	1.02	1.18	0.08	---
30017	3/4" x 1/4"	0.65	1.12	0.07	---
30018	3/4" x 3/8"	1.19	1.18	0.11	---

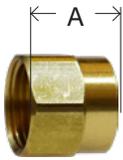
95GH 501

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GARDEN HOSE

BRASS FITTINGS

RIGID - FGH X FEMALE PIPE



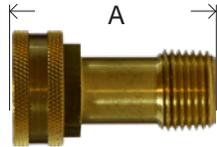
Hex

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30078	3/4" x 1/2"	1.06	1.18	0.10	---
30083	3/4" x 3/4"	1.06	1.18	0.12	---

FS67 198 HU11 21507 501 99GH 5A H15PP

SWIVEL - FGH X MALE PIPE

-WASHER INCLUDED



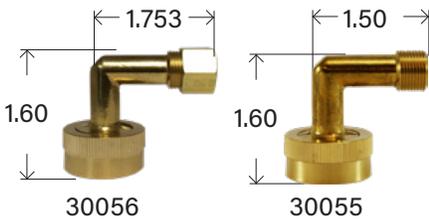
Hex

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30047	3/4" x 1/4"	2.04	0.75	0.13	---
30048	3/4" x 3/8"	2.06	0.75	0.14	---
30049	3/4" x 1/2"	2.06	0.87	0.18	---

504 89GH W1 62H4 88GH W1

3/8" Comp 3/4" FGH DISHWASHER 90° ELBOW

-WASHER INCLUDED



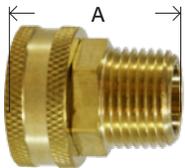
30056

30055

PART #	3/4 FEMALE GARDEN HOSE THREAD X 3/8 COMPRESSION	LIST PRICE
30055	3/4" x 3/8" Body Only	---
30056	3/4" x 3/8" w/ nut & sleeve	---

SWIVEL - FGH X MALE PIPE

-WASHER INCLUDED



30183 Hex

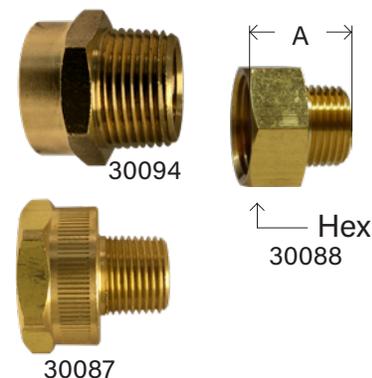


* Crimp style

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30181*	3/4" x 1/4"	1.43	1.18	0.13	---
30184*	3/4" x 3/8"	1.43	1.18	0.15	---
30183	3/4" x 1/2"	1.32	0.81	0.11	---
30182*	3/4" x 3/4"	1.43	1.18	0.14	---

RIGID - FGH X MALE PIPE

-WASHER INCLUDED



30094

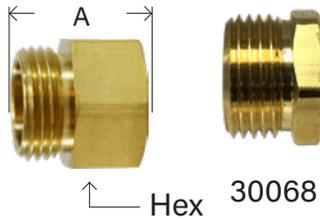
Hex
30088

30087

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30087	3/4" x 3/8"	1.37	1.18	0.11	---
30088	3/4" x 1/2"	1.06	1.18	0.09	---
30088S	3/4" x 1/2"(1/2"SWT)				
30093	3/4" x 3/4"	1.06	1.18	0.11	---
30094	3/4" x 3/4"(1/2" FIP)	1.17	1.18	0.11	---

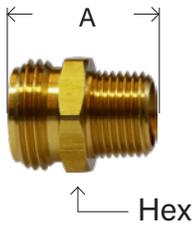
** 1/2 Swt = 5/8 O.D.

21505 503 83GH 20A HU21 199 H7

GARDEN HOSE**BRASS FITTINGS****RIGID - MGH X FEMALE PIPE**

PART #	MGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30066	3/4" x 1/4"	1.10	1.06	0.09	---
30067	3/4" x 3/8"	1.09	1.06	0.12	---
30068	3/4" x 1/2"	0.81	1.06	0.10	---
30073	3/4" x 3/4"	1.12	1.18	0.10	---
30074	3/4" x 1"	1.36	1.37	0.19	---

197 18R HU12 H11PP 18A 507 18H 81GH 21503 MF67

RIGID - MGH X MALE PIPE

No Tap

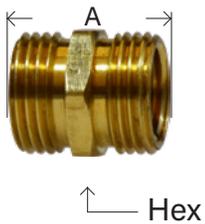
* (1/2 Swt = 5/8 O.D.)

** (Tapped 1/2 FIP)

*** (Tapped 1/2 FIP Both ends)

PART #	MGH X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
30054	3/4" x 1/4"	1.26	1.06	0.12	---
30053	3/4" x 3/8"	1.25	1.06	0.10	---
30058	3/4" x 1/2"	1.31	1.06	0.12	---
30058S*	3/4" x 1/2" SWT				
30063**	3/4" x 3/4" x 1/2"	1.31	1.06	0.13	---
30063BE***	3/4" x 3/4"	1.31	1.06	0.15	---
30063S	3/4" x 3/4" Short	1.10	1.06	0.10	---
30064	3/4" x 1"	1.88	1.37	0.35	---
30065	1" x 1"	1.88	1.37	0.26	---

19R 196 H530 21501 508 HU22 514 71GH 19A

RIGID - MGH X MGH

* 1-11-1/2

PART #	MGH X MGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30098	3/4" x 3/4" (1/2" FIP)	1.22	1.06	0.13	---
30099	3/4" x 3/4"	1.38	1.06	0.15	---
30100*	1" x 3/4"	1.31	1.37	0.21	---

21500 509 75GH 23A H8 19R

GARDEN HOSE NUT

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
30021	Knurled	0.61	1.37 O.D.	0.08	---
30022	Hex Nut	0.62	1.18	0.08	---

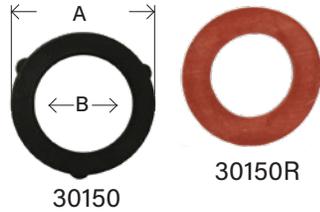
94GH GHN1 HNR 21514

Dimension data can change without notice. Please check when dimensions are critical.

GARDEN HOSE

BRASS FITTINGS

GARDEN HOSE WASHERS

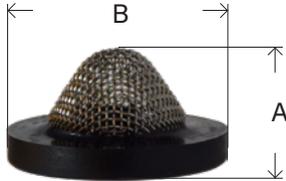


PART #	SIZE	A	B	THICKNESS	APPROX. WT. LBS.	LIST PRICE
30150	black*	0.98	0.68	0.13	0.01	---
30150R	red	1.00	0.68	0.13	0.01	---
30151	1"	1.27	0.86	0.16	0.01	---

GHW 901GH

* plasticized rubber

GARDEN HOSE FILTER WASHER



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
30180	30 Mesh	0.52	1.00	0.02	---
30180F	60 Mesh	0.52	1.00	0.02	---

LA662

• 300 Series Stainless Steel Screen

GARDEN HOSE CAP



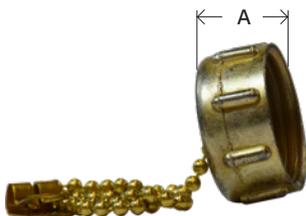
PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30103	3/4" Die Cast	0.58	0.04	---
30103B	3/4" Barstock	0.60	0.048	---

513 96GH GHN5 HC1 LA215 21518 200-W



• Garden hose washers sold separately

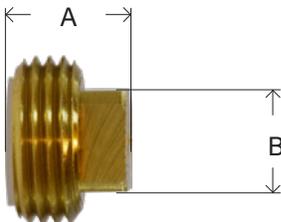
GARDEN HOSE CAP WITH CHAIN



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30142	3/4" w/ 12" Chain	0.58	0.06	---

* Zinc die cast

GARDEN HOSE PLUG



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
30026	3/4"	0.69	0.61	0.12	---

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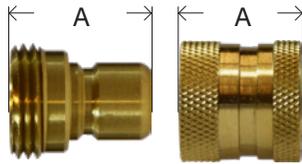
BRASS

GARDEN HOSE

BRASS FITTINGS

HOSE MENDERS - SOLID BARB X BARB

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.	LIST PRICE
32096	1/2"	2.00	0.96	0.62	0.06	---
32097	5/8"	2.05	0.96	0.75	0.08	---
32098	3/4"	2.50	1.15	0.87	0.10	---
32099	1"	3.00	1.44	1.02	0.23	---

QUICK DISCONNECT GARDEN HOSE COUPLERS**-WASHER INCLUDED**

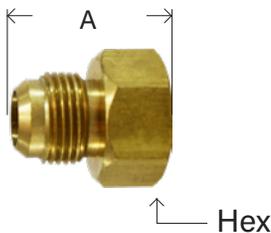
30452

30451

PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30450	Complete	1.70	0.24	---
30451	Female end	1.14	0.12	---
30452	Male end	1.26	0.12	---

LA73C

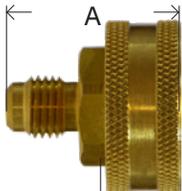
- Unvalved construction allows maximum Flow
- 150 PSI
- NBR Seals

MALE FLARE X FGH RIGID

Hex

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30123	3/8" x 3/4"	1.31	1.18	0.10	---
30128	1/2" x 3/4"	1.38	1.18	0.12	---
30133	5/8" x 3/4"	1.53	1.18	0.14	---

190 46WH HFU21

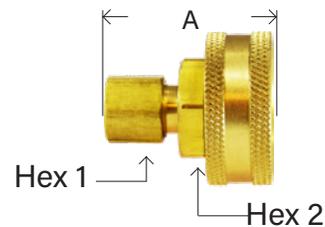
MALE FLARE x FGH SWIVEL**-WASHER INCLUDED**

Hex

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30052	1/4" x 3/4"	1.24	0.75	0.10	---
30138	3/8" x 3/4"	1.25	0.25*	0.12	---
30139	1/2" x 3/4"	1.49	0.81	0.14	---

50GHSV 51GHSV W1 68H 191

* Internal Hex

COMPRESSION X FGH**-WASHER INCLUDED**

Hex 1

Hex 2

PART #	SWIVEL COMPRESSION X FGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
30050	1/4" x 3/4"	1.02	0.50	0.75	0.09	---
30051	3/8" x 3/4"	1.04	0.62	0.75	0.12	---

PART #	NO SWIVEL COMPRESSION X MGH	A	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
30135	1/4" x 3/4"	1.45	0.50	0.625	0.14	---
30136	3/8" x 3/4"	1.525	0.625	0.62	0.15	---
30137	1/2" x 3/4"	1.8	0.815	0.685	0.19	---

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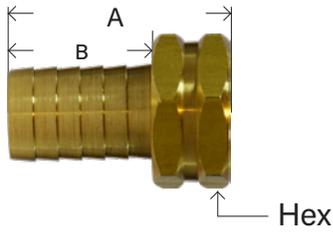
GARDEN HOSE

BRASS FITTINGS

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

-WASHER INCLUDED



29FGH
329F



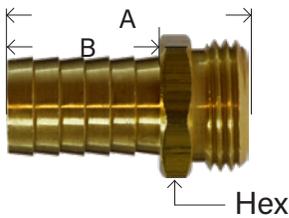
BRASS

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30031	3/8" x 3/4"	1.82	1.19	1.18	0.11	---
30032	1/2" x 3/4"	1.82	1.19	1.18	0.12	---
30033	5/8" x 3/4"	1.82	1.19	1.18	0.13	---
30034	3/4" x 3/4"	1.82	1.19	1.18	0.15	---
30044	1" x 3/4"	2.10	1.19	1.18	0.18	---
30035	1" x 1"	2.28	1.47	1.50	0.18	---

STAINLESS STEEL 316

30032SS	1/2" x 3/4"	1.82	1.19	1.18	0.12	---
30033SS	5/8" x 3/4"	1.82	1.19	1.18	0.13	---
30034SS	3/4" x 3/4"	1.82	1.19	1.18	0.15	---

MALE END ONLY



29MGH
329M



BRASS

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30039	3/8" x 3/4"	1.88	1.19	1.06	0.12	---
30040	1/2" x 3/4"	1.88	1.19	1.06	0.12	---
30041	5/8" x 3/4"	1.88	1.19	1.06	0.12	---
30042	3/4" x 3/4"	1.88	1.19	1.06	0.13	---
30045	1" x 3/4"	1.94	1.19	1.06	0.21	---
30043	1" x 1"	2.34	1.47	1.37	0.26	---

STAINLESS STEEL 316

30040SS	1/2" x 3/4"	1.88	1.19	1.06	0.12	---
30041SS	5/8" x 3/4"	1.88	1.19	1.06	0.12	---
30042SS	3/4" x 3/4"	1.88	1.19	1.06	0.13	---

GARDEN HOSE COUPLING

-WASHER INCLUDED



BRASS

PART #	HOSE BARB	LIST PRICE
30025	3/8"	---
30027	1/2"	---
30028	5/8"	---
30029	3/4"	---
30046	1"(3/4" threads)	---
30030	1"	---

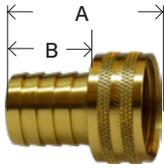
STAINLESS STEEL 316

30027SS	1/2"	---
30029SS	3/4"	---

Dimension data can change without notice. Please check when dimensions are critical.

GARDEN HOSE

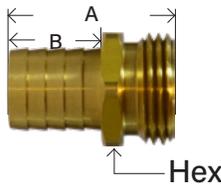
BRASS FITTINGS

FEMALE SWIVEL ONLY - Short Shank Knurled Nut

PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.	LIST PRICE
30464	1/4" x 3/4"	1.39	0.77	0.09	
30466	1/2" x 3/4"	1.50	0.88	0.08	---
30467	5/8" x 3/4"	1.50	0.88	0.09	---
30468	3/4" x 3/4"	1.47	0.88	0.10	---

FEMALE END ONLY - Short Shank w/ hex

PART #	HOSE X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30453	1/2" x 3/4"	1.63	1.00	1.18	0.11	---
30454	5/8" x 3/4"	1.63	1.00	1.18	0.11	---
30455	3/4" x 3/4"	1.63	1.00	1.18	0.13	---

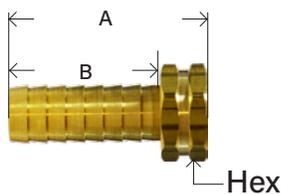
MALE END ONLY - Short Shank

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30469	1/4" x 3/4"	1.55	0.88	1.06	0.11	
30471	1/2" x 3/4"	1.55	0.88	1.06	0.11	---
30472	5/8" x 3/4"	1.56	0.88	1.06	0.12	---
30473	3/4" x 3/4"	1.56	0.88	1.06	0.13	---

GARDEN HOSE COUPLING SETS - Short Shank w/ hex nut

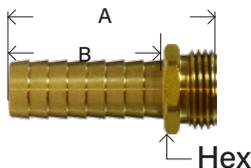
PART #	HOSE BARB	LIST PRICE
30457	1/2"	---
30458	5/8"	---
30459	3/4"	---

WITH KNURLED NUT		
30462	5/8"	
30463	3/4"	

FEMALE SWIVEL ONLY - 2" SHANK**-WASHER INCLUDED**

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30505	1/2" x 3/4"	2.55	2.04	1.18	0.13	---
30506	5/8" x 3/4"	2.56	2.04	1.18	0.16	---
30507	3/4" x 3/4"	2.67	2.04	1.18	0.17	---
30508	1" x 1"	2.84	2.03	1.43	0.29	---

GHFL 594

MALE END ONLY - 2" SHANK

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
30510	1/2" x 3/4"	2.72	2.04	1.06	0.16	---
30511	5/8" x 3/4"	2.72	2.04	1.06	0.17	---
30512	3/4" x 3/4"	2.72	2.04	1.06	0.20	---
30513	1" x 1"	2.90	2.03	1.37	0.28	---

GHML 593

GARDEN HOSE COUPLING SETS - 2" SHANK

PART #	HOSE X FGH	LIST PRICE
30516	1/2"	---
30517	5/8"	---
30518	3/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

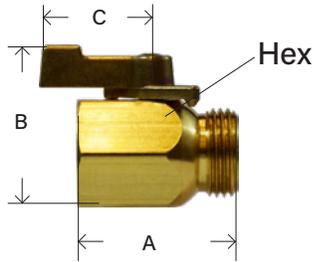


GARDEN HOSE VALVES/ FITTINGS

BRASS FITTINGS

GARDEN HOSE VALVES

ONE WAY BRASS BALL VALVE - FGH x MGH

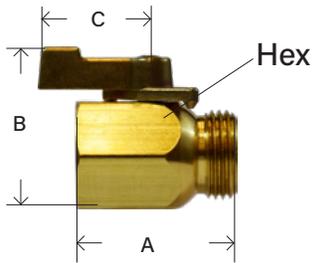


- WASHER INCLUDED

PART #	FGH X MGH	A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
30161	3/4" x 3/4"	1.87	1.89	1.31	1.06	0.42	---

• 500 PSI • 180°F

ONE WAY BRASS BALL VALVE - Female Pipe x MGH



PART #	FEMALE NPTF X MGH	A	B	C	HEX	APPROX. WT. LBS.	LIST PRICE
30162	3/4" x 3/4"	1.55	1.89	1.31	1.06	0.42	---

• 500 PSI • 180°F

ZINC ALLOY HOSE SHUT-OFF W/ ONE LEVER

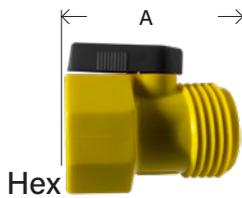
- WASHER INCLUDED



PART #	FGH X MGH	A	APPROX. WT. LBS.	LIST PRICE
30631	3/4" x 3/4"	1.67	0.08	---

PLASTIC GARDEN HOSE VALVE • CYCOLAC BODY & BALL

- WASHER INCLUDED



PART #	FGH X MGH	A	HEX	APPROX. WT. LBS.	LIST PRICE
30163	3/4" x 3/4"	1.75	1.25	0.04	---

LA450C

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

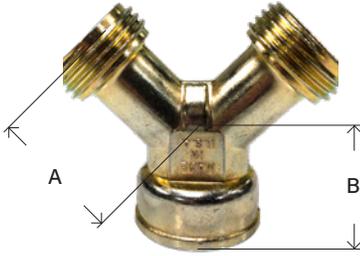
BRASS

GARDEN HOSE VALVES

BRASS FITTINGS

zinc alloy HOSE - "Y" CONNECTOR

- WASHER INCLUDED

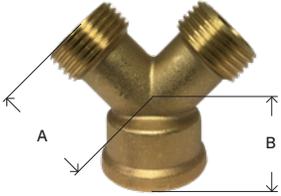


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30141	3/4"	1.70	0.57	1.5	

86Y 21A

cast BRASS HOSE - "Y" CONNECTOR

- WASHER INCLUDED



PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30140	3/4"	1.40	0.67	0.22	---

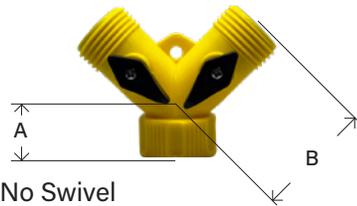
86Y 21A

86YRB
HY12

AVAILABLE IN LEAD FREE BRASS

PLASTIC, NON-CORROSIVE, 2-WAY HOSE SHUT-OFF "Gated wYe"

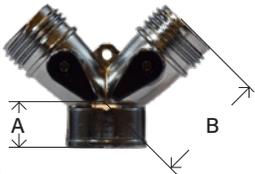
- WASHER INCLUDED



PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30160	3/4"	0.74	1.87	0.08	---

"Gated wYe" SHAPE ZINC ALLOY CONNECTOR W/ TWO LEVERS

- WASHER INCLUDED



No Swivel

PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.	LIST PRICE
30626	3/4"	0.60	1.66	0.10	---

"gated wYe" Shape Brass connector w/ 2-way shut off

- WASHER INCLUDED

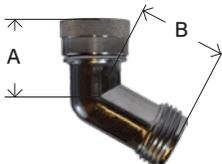


• Brass Levers

PART #	SIZE	DESCRIPTION FGH SWIVEL X MGH(2)	APPROX. WT. LBS.	LIST PRICE
30627	3/4"	3/4 Double Y valve, swivel inlet	0.56	---

AVAILABLE IN LEAD FREE BRASS

ZINC ALLOY SWIVEL HOSE CONNECTOR



PART #	SIZE FGH X MGH	A	B	APPROX. WT. LBS.	LIST PRICE
30629	3/4"	1.31	1.50	0.08	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

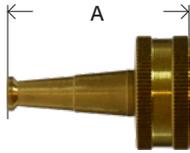


GARDEN HOSE NOZZLES

BRASS FITTINGS

2-1/2" BRASS NOZZLE

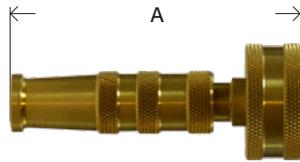
• WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30637	3/4"	2.50	0.14	---

3" CROSSED PATTERN BRASS NOZZLE

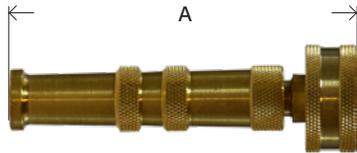
• WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30640	3/4"	2.89	0.25	---

4" CROSSED PATTERN BRASS NOZZLE

• WASHER INCLUDED



PART #	SIZE	A	APPROX. WT. LBS.	LIST PRICE
30638	3/4"	3.80	0.50	---

• WASHER INCLUDED

5-1/2

Adjustable Spray

PART #	SIZE	Zinc Alloy spray nozzle with insulated handle soft grip and front thread protector	LIST PRICE
30600	5-1/2"		---

• WASHER INCLUDED

4-1/4

Lead Free

PART #	SIZE	Zinc Alloy spray nozzle	LIST PRICE
30620	4-1/4"		---

• WASHER INCLUDED

5-1/4

Lead Free Adjustable Spray

PART #	SIZE	Zinc Alloy spray nozzle with easily adjustable brass head and plastic grip	LIST PRICE
30609	5-1/4"		---

• WASHER INCLUDED

4-1/2

PART #	SIZE	Plastic spray nozzle	LIST PRICE
30630	4-1/2"		---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



SAE 45° FLARE

BRASS FITTINGS

SAE 45° FLARE

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1-1/16-14

•Typical Application

LP and natural gas, flammable liquids, instrumentation, refrigeration, power steering, hydraulic and pneumatic systems.

•Working Pressure Ranges

Temperature and type of tubing used are important factors. However, the following table is a good guide for proper selection. Temperature 73°F with copper tubing:

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035
450	7/8	.035

•Vibration

Good resistance - use long nut when greater vibration resistance is required.

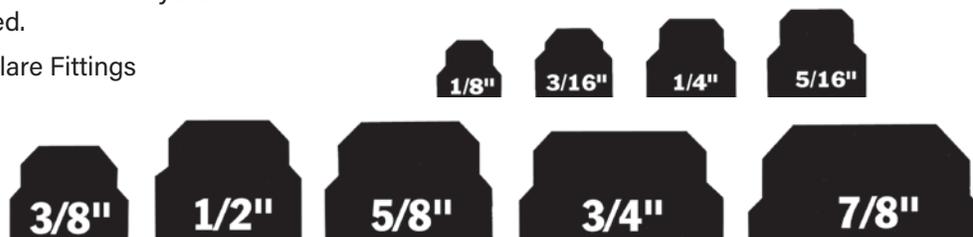
•Temperature Range

-65°F to +250°F (-53°C to +121°C) range at maximum operating pressures.

•Used With

Copper, brass, aluminum and steel hydraulic tubing that can be flared.

Actual O.D. of Flare Fittings

**• Tolerance**

+/- .03 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

•Conformance

Meets specifications and standards of ASA, ASME, SAE and MS (Military standards).

Assembly Instructions

1- Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.

2- Slide nut on tube. Threaded end "A" of nut must face out.

3- Flare end of tube with a 45° flaring tool.

a-Measure flare diameter.

b- Examine flare for excessive thin out.

4- Lubricate threads and assemble to fitting body.

Nut should be turned hand tight.

5- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.

Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.

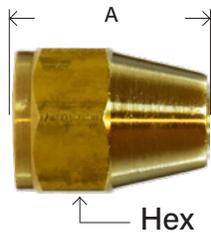


• See Lead Free Flare Fittings

SAE 45° FLARE

BRASS FITTINGS

SHORT ROD NUT

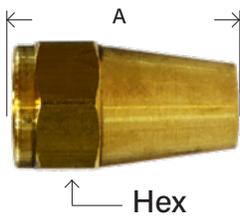


41S
411S
SAE# 010110

PART #	THREAD SIZE UNF	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
10013	1/8"	5/16-24	0.50	0.37	0.01	---
10014	3/16"	3/8-24	0.62	0.43	0.02	---
10015	1/4"	7/16-20	0.75	0.56	0.03	---
10015L	1/4"	7/16-20	0.75	0.50	0.03	---
10016	5/16"	1/2-20	0.88	0.62	0.04	---
10017L	3/8"	5/8-18	0.77	0.75	0.05	---
10017	3/8"	5/8-18	1.00	0.75	0.04	---
10018	7/16"	11/16-16	1.06	0.81	0.06	---
10019L	1/2"	3/4-16	0.93	0.87	0.06	---
10019	1/2"	3/4-16	1.12	0.87	0.09	---
10020L	5/8"	7/8-14	1.08	1.00	0.10	---
10020	5/8"	7/8-14	1.31	1.06	0.15	---
10021	3/4"	1-1/16-14	1.50	1.25	0.24	---
10022	7/8"	1-1/4-12	1.62	1.50	0.36	---
10026	1"	1-3/8-12	1.81	1.62	0.44	---

20910 41FS 1110 N1 41FX 441S 'L'

LONG ROD NUT



41L
SAE# 010111

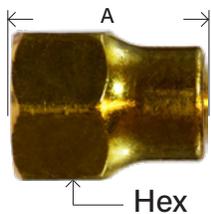
PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10001	1/8"	0.75	0.37	0.01	---
10002	3/16"	0.81	0.43	0.02	---
10003L	1/4"	0.98	0.55	0.03	---
10003	1/4"	0.94	0.56	0.03	---
10004	5/16"	1.12	0.62	0.04	---
10005	3/8"	1.31	0.75	0.06	---
10006	1/2"	1.62	0.87	0.12	---
10007	5/8"	1.88	1.06	0.20	---

41FL N2 241 441 41

"L" means light pattern.

These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

LONG FORGED NUT



640L
641L
SAE# 010167

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10028	1/4"	0.94	0.62	0.05	---
10030	3/8"	1.06	0.81	0.08	---
10031	1/2"	1.19	0.94	0.12	---
10032	5/8"	1.44	1.06	0.26	---

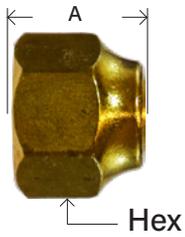
41FF 39 N4 14FL 641

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

SAE 45° FLARE

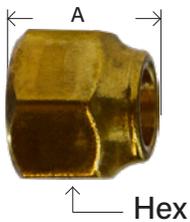
BRASS FITTINGS

SHORT FORGED NUT

641S
6401S
SAE# 010166

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10038	3/16"	0.56	0.50	0.02	---
10039	1/4"	0.60	0.62	0.04	---
10040	5/16"	0.66	0.69	0.04	---
10041	3/8"	0.70	0.81	0.06	---
10042	1/2"	0.82	0.94	0.08	---
10043	5/8"	0.95	1.06	0.12	---
10044	3/4"	1.16	1.31	0.22	---
10045	7/8"	1.18	1.38	0.30	---

14FS 41FFS 40 641-S 1116 NS4

EXTRA HEAVY SHORT FORGED NUT

641SH
6401SXH

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10046	1/4"	0.63	0.75	0.04	---
10047	3/8"	0.72	0.88	0.06	---
10048	1/2"	0.88	1.00	0.08	---
10049	5/8"	0.98	1.12	0.12	---

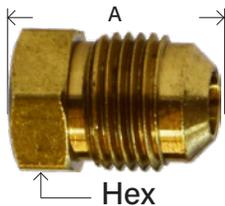
NSA

FORGED REDUCING NUT

660
662S

PART #	FEMALE FLARE X OD	A	HEX	APPROX. WT. LBS.	LIST PRICE
10052	3/8" x 1/4"	0.72	0.81	0.06	---
10054	1/2" x 3/8"	0.81	0.94	0.08	---
10056	5/8" x 1/2"	0.97	1.06	0.12	---
10058	3/4" x 5/8"	1.17	1.31	0.30	---

NSR4 14FS 41FRS 40R 662-S

FLARED PLUG

39
439

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10062	1/8"	0.53	0.34	0.01	---
10063	3/16"	0.59	0.50	0.02	---
10064	1/4"	0.69	0.43	0.02	---
10065	5/16"	0.78	0.50	0.04	---
10066	3/8"	0.88	0.62	0.06	---
10067	1/2"	1.06	0.75	0.10	---
10068	5/8"	1.19	0.87	0.14	---
10069	3/4"	1.32	1.06	0.22	---

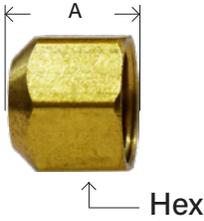
58 639F PF 57 P2 2229 439

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

FLARED CAP

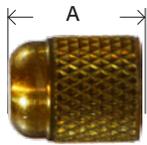


40
440

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10073	1/8"	0.46	0.37	0.02	
10074	3/16"	0.47	0.50	0.02	---
10075	1/4"	0.48	0.50	0.02	---
10075EH	1/4"	0.54	0.57	0.02	
10076	5/16"	0.62	0.62	0.04	---
10077	3/8"	0.58	0.75	0.03	---
10078	1/2"	0.69	0.81	0.14	---
10079	5/8"	0.81	0.94	0.20	---
10080	3/4"	1.17	1.37	0.30	---

640F 41FC 56 N5 2129 54 440

FINGER TIGHTENING CAP

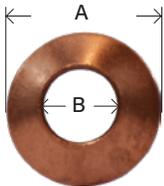


NFTS
FTC5
• Neoprene
• **O-Ring Included**

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10081	1/4"	0.62	0.02	---

NFT5

COPPER GASKET

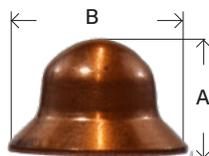


463
SAE# 010113

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
10084	3/16"	0.31	0.12	0.01	---
10085	1/4"	0.36	0.19	0.01	---
10086	5/16"	0.42	0.22	0.01	---
10087	3/8"	0.55	0.28	0.01	---
10088	1/2"	0.66	0.41	0.01	---
10089	5/8"	0.77	0.50	0.01	---
10090	3/4"	0.95	0.62	0.01	---

B2 2GF 6251 FG 157 59 46

COPPER BONNET



464
SAE# 010114

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
10095	1/4"	0.22	0.36	0.01	---
10097	3/8"	0.34	0.55	0.01	---
10098	1/2"	0.41	0.66	0.01	---
10099	5/8"	0.44	0.77	0.01	---

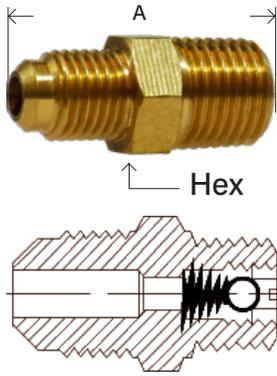
B1 3GF 64C 57 156 FB 695 464

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

SAE 45° FLARE

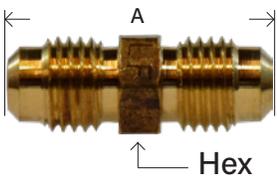
BRASS FITTINGS

MALE BALL CHECK CONNECTOR43
403

PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10131*	1/4" x 1/8"	1.06	0.43		---
10256WC	1/4" x 1/4"	1.24	0.6	0.04	---
10133*	3/8" x 1/4"	1.31	0.62	0.08	---

43A

* Note: Ball & Spring position may be reversed to change flow/check position. Min working pressure 3 PSI.

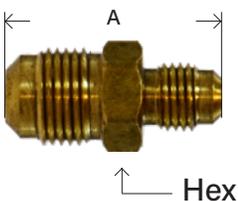
UNION42
402
SAE# 010101

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10104	1/8"	0.91	0.31	0.02	---
10105	3/16"	1.06	0.37	0.02	---
10106L	1/4"	1.19	0.43	0.03	---
10106	1/4"	1.19	0.43	0.03	---
10107	5/16"	1.34	0.50	0.05	---
10108L	3/8"	1.50	0.62	0.09	---
10108	3/8"	1.50	0.62	0.09	---
10109L	1/2"	1.67	0.75	0.12	---
10109	1/2"	1.81	0.75	0.14	---
10110L	5/8"	2.00	0.87	0.20	---
10110	5/8"	2.12	0.87	0.20	---
10111	3/4"	2.44	1.06	0.35	---
10112	7/8"	2.72	1.25	0.52	---

42F U2

 "L" means light pattern.

These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

REDUCING UNION42R
506

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10115	1/4" x 1/8"	1.11	0.44	0.03	---
10116	1/4" x 3/16"	1.12	0.44	0.03	---
10117	5/16" x 1/4"	1.28	0.50	0.04	---
10118	3/8" x 1/4"	1.38	0.62	0.06	---
10119	3/8" x 5/16"	1.44	0.62	0.08	---
10120	1/2" x 1/4"	1.53	0.75	0.10	---
10121	1/2" x 3/8"	1.69	0.75	0.10	---
10122	5/8" x 3/8"	1.88	0.87	0.17	---
10123	5/8" x 1/2"	1.87	0.87	0.14	---
10126	3/4" x 1/2"	2.18	1.06	0.26	---
10127	3/4" x 5/8"	2.20	1.06	0.27	---

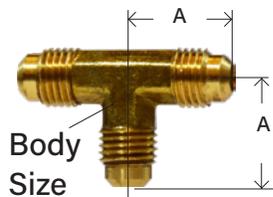
656F UR2 42-R

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

UNION TEE



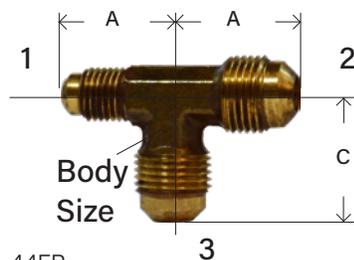
Forged Tee

44F
404
244
SAE# 010401

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10157	1/8"	0.67	0.36	0.04	---
10158	3/16"	0.75	0.36	0.06	---
10159	1/4"	0.78	0.36	0.06	---
10160	5/16"	0.91	0.44	0.10	---
10161	3/8"	1.00	0.44	0.12	---
10162	1/2"	1.16	0.59	0.19	---
10163	5/8"	1.41	0.69	0.30	---
10164	3/4"	1.64	0.88	0.53	---
10165	7/8"	1.75	1.25	0.93	---

244F T2 144F

REDUCING TEE 1 x 2 x 3

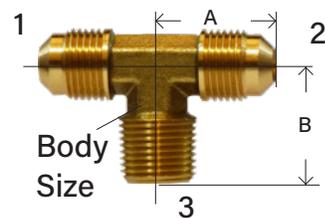


44FR
509

PART #	THREAD SIZE UNF 1X2X3	A	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10170	1/4" x 1/4" x 3/8"	0.91	1.00	0.44	0.10	---
10175	3/8" x 3/8" x 1/2"	1.00	1.19	0.59	0.14	---
10176	3/8" x 3/8" x 5/8"	1.16	1.44	0.69	0.16	---
10181	1/2" x 1/2" x 3/8"	1.16	1.12	0.59	0.19	---
10189	5/8" x 5/8" x 1/2"	1.38	1.28	0.69	0.28	---

144F TR2 659F 684F 44R

MALE BRANCH TEE



Forged Tee

45R
245
405
SAE# 010425

PART #	MALE FLARE X MALE NPT (1&2)X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10203	3/16" x 1/8"	0.75	0.75	0.36	0.10	---
10204	1/4" x 1/8"	0.78	0.75	0.36	0.05	---
10205	1/4" x 1/4"	0.88	0.88	0.44	0.08	---
10207	5/16" x 1/8"	0.89	0.78	0.44	0.08	---
10208	5/16" x 1/4"	0.94	0.94	0.44	0.08	---
10209	3/8" x 1/8"	1.00	0.91	0.44	0.14	---
10210	3/8" x 1/4"	1.00	0.94	0.44	0.12	---
10211	3/8" x 3/8"	1.00	1.00	0.47	0.13	---
10212	3/8" x 1/2"	1.12	1.22	0.69	0.22	---
10213	1/2" x 1/4"	1.16	1.00	0.59	0.20	---
10214	1/2" x 3/8"	1.16	1.14	0.59	0.19	---
10215	1/2" x 1/2"	1.22	1.22	0.69	0.24	---
10216	1/2" x 3/4"	1.38	1.41	0.88	0.22	---
10218	5/8" x 1/2"	1.41	1.31	0.69	0.29	---

T1 145F 45

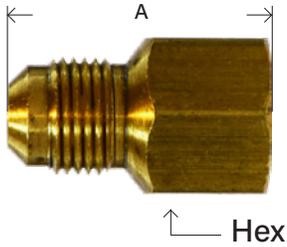
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

SAE 45° FLARE

BRASS FITTINGS

FEMALE ADAPTER



46
246
406

SAE# 010103

PART #	MALE FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10227	3/16" x 1/8"	0.97	0.56	0.03	---
10228L	1/4" x 1/8"	1.03	0.56	0.03	---
10228	1/4" x 1/8"	1.03	0.56	0.04	---
10229L	1/4" x 1/4"	1.06	0.68	0.06	---
10229	1/4" x 1/4"	1.23	0.68	0.07	---
10230	1/4" x 3/8"	1.18	0.81	0.08	---
10231	1/4" x 1/2"	1.31	0.94	0.06	---
10232	5/16" x 1/8"	1.06	0.56	0.05	---
10233	5/16" x 1/4"	1.28	0.68	0.08	---
10234	3/8" x 1/8"	1.09	0.62	0.08	---
10235L	3/8" x 1/4"	1.25	0.68	0.08	---
10235	3/8" x 1/4"	1.31	0.81	0.08	---
10236L	3/8" x 3/8"	1.25	0.81	0.08	---
10236	3/8" x 3/8"	1.25	0.81	0.10	---
10237L	3/8" x 1/2"	1.31	0.94	0.08	---
10237	3/8" x 1/2"	1.60	1.00	0.16	---
10238	3/8" x 3/4"	1.41	1.18	0.11	---
10239	1/2" x 1/4"	1.37	0.75	0.10	---
10240L	1/2" x 3/8"	1.38	0.81	0.12	---
10240	1/2" x 3/8"	1.50	0.81	0.14	---
10241L	1/2" x 1/2"	1.42	0.94	0.10	---
10241	1/2" x 1/2"	1.75	1.00	0.12	---
10242L	1/2" x 3/4"	1.40	1.10	0.16	---
10242	1/2" x 3/4"	1.60	1.12	0.16	---
10243	5/8" x 3/8"	1.24	0.87	0.12	---
10244L	5/8" x 1/2"	1.51	0.86	0.15	---
10244	5/8" x 1/2"	1.62	0.94	0.12	---
10245	5/8" x 3/4"	1.65	1.12	0.17	---
10246	3/4" x 1/2"	1.74	1.18	0.32	---
10247	3/4" x 3/4"	1.75	1.18	0.22	---
10248	7/8" x 3/4"	1.94	1.31	0.26	---

 **"L" means light pattern.**

These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

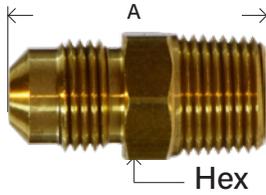
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

46 U3

SAE 45° FLARE

BRASS FITTINGS

MALE ADAPTER



48
248
408

SAE# 010102

PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10253	1/8" x 1/8"	0.92	0.43	0.02	---
10254	3/16" x 1/8"	1.00	0.43	0.03	---
10255L	1/4" x 1/8"	1.06	0.43	0.03	---
10255	1/4" x 1/8"	1.06	0.43	0.04	---
10256L	1/4" x 1/4"	1.15	0.56	0.03	---
10256	1/4" x 1/4"	1.25	0.56	0.04	---
10257	1/4" x 3/8"	1.31	0.68	0.06	---
10258	1/4" x 1/2"	1.44	0.87	0.11	---
10259L	5/16" x 1/8"	1.15	0.50	0.04	---
10259	5/16" x 1/8"	1.16	0.50	0.04	---
10260L	5/16" x 1/4"	1.31	0.56	0.06	---
10260	5/16" x 1/4"	1.34	0.56	0.06	---
10261	5/16" x 3/8"	1.38	0.68	0.08	---
10262	3/8" x 1/8"	1.25	0.62	0.07	---
10262L	3/8" x 1/8"				
10263L	3/8" x 1/4"	1.31	0.62	0.06	---
10263	3/8" x 1/4"	1.44	0.62	0.08	---
10263SS	3/8" x 1/4"				
10264L	3/8" x 3/8"	1.37	0.68	0.09	---
10264	3/8" x 3/8"	1.42	0.68	0.09	---
10264SS	3/8" x 3/8"				
10265L	3/8" x 1/2"	1.44	0.89	0.12	---
10265	3/8" x 1/2"	1.69	0.87	0.14	---
10266	3/8" x 3/4"	1.81	1.06	0.18	---
10267	1/2" x 1/4"	1.60	0.75	0.11	---
10268L	1/2" x 3/8"	1.46	0.75	0.10	---
10268	1/2" x 3/8"	1.62	0.75	0.12	---
10269L	1/2" x 1/2"	1.62	0.87	0.13	---
10269	1/2" x 1/2"	1.79	0.87	0.15	---
10270	1/2" x 3/4"	1.75	1.06	0.22	---
10271	5/8" x 1/4"	1.81	0.87	0.14	---
10272L	5/8" x 3/8"	1.67	0.87	0.14	---
10272	5/8" x 3/8"	1.81	0.87	0.18	---
10273L	5/8" x 1/2"	1.80	0.87	0.11	---
10273	5/8" x 1/2"	2.00	0.87	0.20	---
10274	5/8" x 3/4"	1.85	1.06	0.21	---
10275	3/4" x 1/2"	2.19	1.06	0.28	---
10276	3/4" x 3/4"	2.08	1.06	0.28	---
10277	7/8" x 1/2"	2.22	1.25	0.52	---
10278	7/8" x 3/4"	2.35	1.25	0.41	---
10279	1" x 3/4"	2.44	1.43	0.53	---
10280	1" x 1"	2.44	1.43	0.53	---

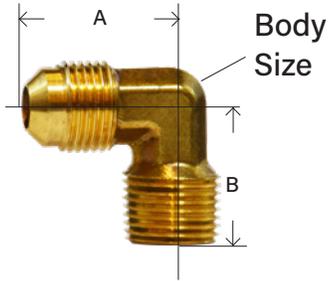
U1 48

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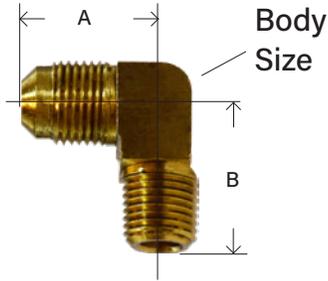
BRASS

SAE 45° FLARE

BRASS FITTINGS

90° MALE ELBOW

Forged Elbow



*Barstock Elbow

49
249
409
SAE# 010202

PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10283	1/8" x 1/8"	0.63	0.73	0.37	0.04	---
10283B*	1/8" x 1/8"	0.62	0.69	0.43	0.04	---
10284	3/16" x 1/8"	0.75	0.75	0.38	0.04	---
10284B*	3/16" x 1/8"	0.75	0.75	0.43	0.06	---
10285	3/16" x 1/4"	0.81	0.88	0.44	0.08	---
10286	1/4" x 1/8"	0.84	0.78	0.38	0.04	---
10286L	1/4" x 1/8"	0.96	0.80	0.37	0.04	---
10286B*	1/4" x 1/8"	0.81	0.78	0.47	0.05	---
10287	1/4" x 1/4"	0.81	0.88	0.44	0.05	---
10287B*	1/4" x 1/4"	0.91	0.93	0.59	0.08	---
10288	1/4" x 3/8"	0.91	0.91	0.47	0.08	---
10289	1/4" x 1/2"	1.03	1.09	0.59	0.10	---
10290	5/16" x 1/8"	0.91	0.88	0.44	0.06	---
10290B*	5/16" x 1/8"	0.91	0.78	0.52	0.06	---
10291	5/16" x 1/4"	0.98	0.96	0.44	0.08	---
10291B*	5/16" x 1/4"	0.95	0.92	0.62	0.08	---
10292	5/16" x 3/8"	1.06	1.09	0.59	0.08	---
10293	3/8" x 1/8"	1.00	0.91	0.53	0.08	---
10293B*	3/8" x 1/8"	1.03	0.91	0.65	0.08	---
10294	3/8" x 1/4"	1.01	0.89	0.48	0.08	---
10294B*	3/8" x 1/4"	0.97	1.04	0.68	0.11	---
10295	3/8" x 3/8"	1.00	0.88	0.47	0.10	---
10295L	3/8" x 3/8"	0.95	0.89	0.46	0.11	---
10295B*	3/8" x 3/8"	1.06	1.09	0.69	0.12	---
10296	3/8" x 1/2"	1.10	1.09	0.59	0.12	---
10297	3/8" x 3/4"	1.25	1.31	0.81	0.12	---
10298	1/2" x 1/4"	1.19	1.00	0.59	0.12	---
10298B*	1/2" x 1/4"	1.22	1.19	0.81	0.12	---
10299	1/2" x 3/8"	1.10	1.00	0.59	0.13	---
10299B*	1/2" x 3/8"	1.22	1.12	0.77	0.18	---
10300	1/2" x 1/2"	1.16	1.13	0.59	0.14	---
10300B*	1/2" x 1/2"	1.26	1.26	0.94	0.26	---
10301	1/2" x 3/4"	1.42	1.25	0.81	0.24	---
10311	5/8" x 1/4"	1.34	1.13	0.72	0.28	---
10302	5/8" x 3/8"	1.35	1.22	0.72	0.20	---
10302B*	5/8" x 3/8"	1.41	1.25	0.94	0.20	---
10303	5/8" x 1/2"	1.35	1.22	0.72	0.20	---
10303L	5/8" x 1/2"	1.29	1.11	0.70	0.20	---
10303B*	5/8" x 1/2"	1.41	1.38	0.94	0.20	---
10304	5/8" x 3/4"	1.44	1.31	0.81	0.25	---
10305	3/4" x 1/2"	1.67	1.50	0.88	0.34	---
10306	3/4" x 3/4"	1.67	1.63	0.88	0.30	---
10307	7/8" x 3/4"	1.75	1.68	1.00	0.44	---

249F 49 E1 149F

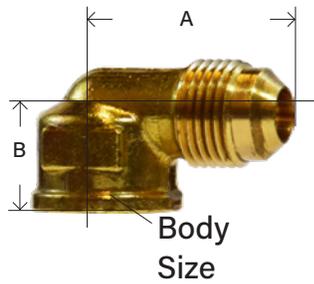
Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

90° FEMALE ELBOW



Forged Elbow

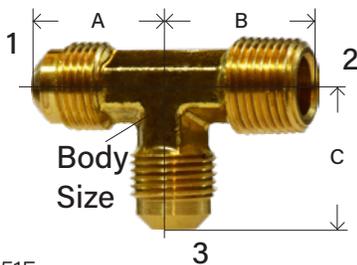


50F
250
500
SAE# 010203
* Barstock

PART #	MALE FLARE X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10312	3/16" x 1/8"	0.81	0.44	0.56	0.05	---
10313	1/4" x 1/8"	0.90	0.46	0.56	0.06	---
10314	1/4" x 1/4"	0.97	0.59	0.75	0.08	---
10315	1/4" x 3/8"	1.03	0.57	0.81	0.09	---
10333	1/4" x 1/2"	1.08	0.66	1.00	0.12	---
10316	5/16" x 1/8"	0.94	0.88	0.45	0.08	---
10317	5/16" x 1/4"	1.03	0.58	0.75	0.06	---
10318	3/8" x 1/8"	1.00	0.88	0.47	0.10	---
10319	3/8" x 1/4"	1.06	0.59	0.75	0.09	---
10320	3/8" x 3/8"	1.06	0.57	0.81	0.10	---
10320B*	3/8" x 3/8"	1.10	0.75	0.82	0.16	---
10321	3/8" x 1/2"	1.16	0.66	1.00	0.14	---
10321L	3/8" x 1/2"	1.21	0.42	0.96	0.13	---
10322	3/8" x 3/4"	1.28	0.72	1.25	0.12	---
10323	1/2" x 1/4"	1.25	0.70	0.88	0.13	---
10324	1/2" x 3/8"	1.25	0.70	0.88	0.12	---
10325	1/2" x 1/2"	1.29	0.72	1.00	0.18	---
10325L	1/2" x 1/2"	1.24	0.71	0.98	0.17	---
10326	1/2" x 3/4"	1.41	0.72	1.25	0.20	---
10327	5/8" x 3/8"	1.35	1.22	0.72	0.22	---
10328	5/8" x 1/2"	1.38	0.75	1.00	0.20	---
10329	5/8" x 3/4"	1.50	0.76	1.25	0.28	---
10330	3/4" x 1/2"	1.63	1.06	1.06	0.42	---
10331	3/4" x 3/4"	1.88	1.06	1.31	0.40	---

E3 50 150F

FORGED MALE RUN TEE



51F
501

PART #	MALE FLARE X MALE NPTF (1&3) X 2	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10343	3/16" x 1/8"	0.75	0.75	0.75	0.37	0.05	---
10344	1/4" x 1/8"	0.78	0.75	0.78	0.37	0.06	---
10345	1/4" x 1/4"	0.88	0.88	0.88	0.44	0.08	---
10350	3/8" x 1/4"	1.00	0.94	1.00	0.44	0.12	---
10351	3/8" x 3/8"	1.00	1.00	1.00	0.47	0.10	---
10352	3/8" x 1/2"	1.12	1.22	1.12	0.69	0.12	---
10354	1/2" x 3/8"	1.16	1.09	1.16	0.59	0.18	---
10355	1/2" x 1/2"	1.22	1.22	1.22	0.69	0.22	---

T3 151F 51

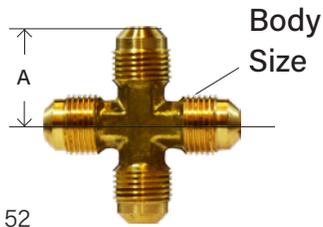
Dimension data can change without notice. Please see our website when dimensions are critical.



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

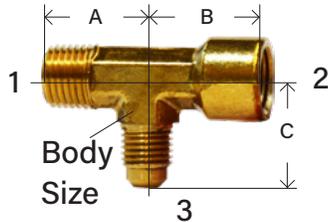
BRASS FITTINGS

FORGED FLARE CROSS

52
502
SAE# 010501

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10373	1/4"	0.88	0.44	0.10	---
10375	3/8"	1.00	0.44	0.16	---
10376	1/2"	1.16	0.59	0.24	---

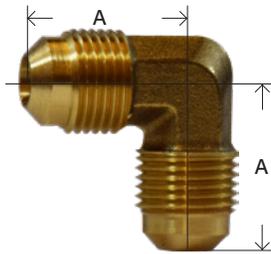
455 C1 147F 52

FORGED ADAPTER TEE / SERVICE TEE

53
503

PART #	SIZE 1 X 2 X 3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10382	1/8" x 1/8" x 1/4"	0.72	0.53	0.80	0.47	0.08	---
10383	1/4" x 1/4" x 1/4"	0.88	1.00	0.91	0.47	0.11	---

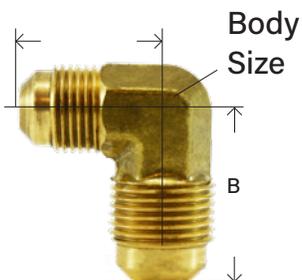
T17 53

FORGED 90° FLARE ELBOW

55F
505
* Barstock

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10405	3/16"	0.75	0.06	---
10406	1/4"	0.81	0.08	---
10407	5/16"	0.91	0.10	---
10408	3/8"	1.00	0.10	---
10409	1/2"	1.16	0.14	---
10410	5/8"	1.41	0.22	---
10411	3/4"	1.66	0.68	---
10412	7/8"	1.81	0.82	---

E2 155F

FORGED REDUCING ELBOW

55R
507

PART #	MALE FLARE X MALE FLARE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10416	3/8" x 1/4"	1.00	0.88	0.47	0.08	---
10419	1/2" x 3/8"	1.19	1.02	0.59	0.14	---
10421	5/8" x 1/2"	1.34	1.23	0.72	0.21	---

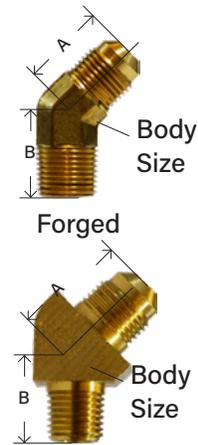
ER2 657F 55R

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SAE 45° FLARE

BRASS FITTINGS

45° ELBOW



Barstock

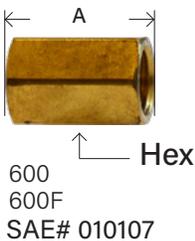
54
4945
40945
SAE# 010302
* Barstock

PART #	MALE FLARE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10448	1/4" x 1/8"	0.67	0.64	0.41	0.04	---
10448B*	1/4" x 1/8"	0.67	0.64	0.44	0.04	---
10449	1/4" x 1/4"	0.75	0.86	0.53	0.07	---
10449B	1/4" x 1/4"					
10450	5/16" x 1/8"	0.78	0.64	0.53	0.06	---
10451	5/16" x 1/4"	0.81	0.86	0.53	0.07	---
10452	3/8" x 1/4"	0.91	0.86	0.53	0.09	---
10452B*	3/8" x 1/4"	0.89	0.86	0.64	0.12	---
10453	3/8" x 3/8"	0.93	0.94	0.59	0.11	---
10453B	3/8" x 3/8"					
10454	3/8" x 1/2"	0.99	1.17	0.75	0.19	---
10455	1/2" x 3/8"	1.07	0.88	0.59	0.12	---
10455B*	1/2" x 3/8"	1.06	0.94	0.76	0.18	---
10456	1/2" x 1/2"	1.12	1.18	0.75	0.20	---
10456B	1/2" x 1/2"					
10460	5/8" x 3/8"	1.13	0.95	0.81	0.22	---
10457	5/8" x 1/2"	1.12	1.17	0.78	0.18	---
10458	3/4" x 1/2"	1.28	1.16	0.88	0.26	---
10459	3/4" x 3/4"	1.41	1.20	0.88	0.31	---

E145 54 159F 654F 59FF 254 47 4945

FEMALE 45° FLARE FITTINGS

UNION



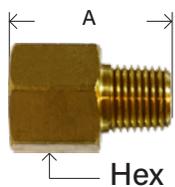
600
600F
SAE# 010107

PART #	FEMALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10135	1/4"	1.00	0.62	0.06	---
10136	3/8"	1.25	0.81	0.14	---
10137	1/2"	1.43	0.94	0.18	---
10138	5/8"	1.69	1.07	0.24	---
10139	3/4"	2.00	1.31	0.42	---

• Use with Copper Gasket

2310 U4 660HD 32

FEMALE FLARE ADAPTER



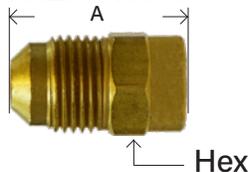
664
SAE# 010106

PART #	FEMALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10440	1/4" x 1/8"	0.91	0.62	0.05	---
10441	1/4" x 1/4"	1.01	0.62	0.06	---
10442	3/8" x 1/4"	1.28	0.81	0.10	---
10438	3/8" x 1/2"				
10443	1/2" x 3/8"	1.36	0.94	0.14	---
10444	1/2" x 1/2"	1.46	0.94	0.14	---

U5 664FHD 33 48-FF

FLARE REDUCER

SAE# 010105



601

PART #	MALE FLARE X FEMALE FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
10462	1/4" x 3/8"	1.22	0.81	0.10	---
10461	1/4" x 1/2"	1.36	0.94	0.14	---
10463	3/8" x 1/4"	1.12	0.62	0.06	---
10464	3/8" x 1/2"	1.44	0.94	0.14	---
10473	3/8" x 5/8"	1.63	1.12	0.16	---
10467	1/2" x 3/8"	1.41	0.81	0.13	---
10468	1/2" x 5/8"	1.68	1.06	0.20	---
10469	5/8" x 1/2"	1.63	1.00	0.17	---
10470	5/8" x 3/4"	1.97	1.31	0.31	---

* Available in Stainless Steel. Add SS to the part#

UR3 661FHD 227 46-FF

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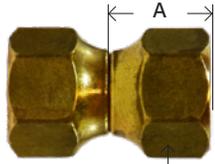
BRASS

SAE 45° FLARE

BRASS FITTINGS

BRASS FLARE SWIVEL FITTINGS

FORGED SWIVEL

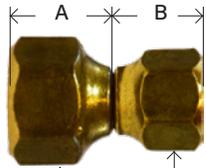
700
SAE# 010108

Hex

PART #	FEMALE FLARE UNF	A	HEX	APPROX. WT. LBS.	LIST PRICE
10481	1/4"	0.59	0.62	0.04	---
10482	5/16"	0.62	0.68	0.06	---
10483	3/8"	0.69	0.81	0.10	---
10483L	3/8"	0.63	0.80		---
10484	1/2"	0.81	0.94	0.16	---
10484L	1/2"	0.82	0.92		---
10485	5/8"	0.94	1.06	0.24	---
10486	3/4"	1.12	1.31	0.34	---

1350 US4 14FSV 34

REDUCING SWIVELS



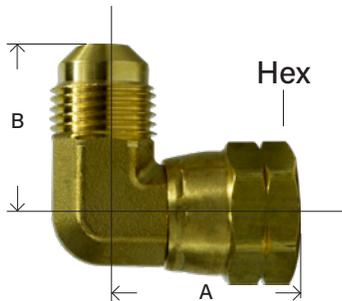
Hex 1

Hex 2

700R

PART #	FEMALE FLARE UNF	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
10487	3/8" x 1/4"	0.72	0.60	0.81	0.62	0.08	---
10488	1/2" x 3/8"	0.84	0.70	0.94	0.81	0.12	---
10489	5/8" x 1/2"	0.98	0.82	1.03	0.94	0.22	---

FORGED SWIVEL ELBOWS



Hex

701

PART #	MALE FLARE X FEMALE FLARE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
10493	1/4"	0.93	0.86	.563	0.12	---
10494	3/8"	1.13	1.1	.75	0.20	---
10495	1/2"	1.29	1.20	.88	0.25	---
10496	5/8"	1.50	1.30	1.00	0.37	---
10497	3/4"	1.83	1.60	1.25	0.54	---

ES4

FLARE SWEAT FITTINGS



PART #	FLARE X SWEAT	LIST PRICE
10600	1/4" x 1/4"	---
10612	3/8" x 3/8"	---

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POL FITTINGS

BRASS FITTINGS

TEE CONNECTION

2000



PART #	PIPE SIZE	LIST PRICE
34001	1/4" Inverted flare x 1/4" MPT	---

41-1-390-0014 2000

TAILPIECE WITH FLATS

2001A

1/4 NPT



PART #	DESCRIPTION	LIST PRICE
34011	2.34 w/ wrench Flats	---
34012	2.13 w/ Hex	---

1001AUL 21605 M-2001-A 2002A 2001AHN

STANDARD NUT

7/8" Hex

2001B



PART #	PIPE SIZE	LIST PRICE
34016	.880-14 LH	---

2001B

TAILPIECE & NUT ASSEMBLY

2002AB



PART #	PIPE SIZE	LIST PRICE
34022	1/4	---

2002AB

POL CAP

2004



PART #	PIPE SIZE	LIST PRICE
34031	.880-14LH	---

ME1699 POL2004 1004A M-2004

POL PLUG WITH CHAIN

2014



PART #	DESCRIPTION	LIST PRICE
34141	POL PLUG WITH CHAIN	---

ME1691-1

SINGLE PIECE POL ADAPTER

2008



PART #	DESCRIPTION	LIST PRICE
34130	MALE POL X 1/4 FPT	---
34131	MALE POL X 1/2 FPT	---

ME351 ME357

ADAPTERS

35792
35810



PART #	PIPE SIZE	LIST PRICE
34041	3/8 Flare x .880-14LH	---
34046	1/2 Flare x .880-14LH	---
34051	5/8 Flare x .880-14LH	---

ME3510 2906E 2007

Plug



PART #	PIPE SIZE	LIST PRICE
34036		

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BRASS

JIC 37° FLARE STRAIGHTS

BRASS FITTINGS

STRAIGHT TUBE UNION

PART #	TUBE OD	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28966	1/4	7/16-20	1.35	0.49	3250 psi	---
28969	3/8	9/16-18	1.41	0.63	3250 psi	---
28970	1/2	3/4-16	1.62	0.81	3250 psi	---

SBC 132403 HTXB

FEMALE STRAIGHT ADAPTER

PART #	TUBE OD	PIPE	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28957	1/4	1/8-27	7/16-20	1.19	0.56	3250 psi	---
28958	1/4	1/4-18	7/16-20	1.40	0.75	3250 psi	---
28959	3/8	1/4-18	9/16-18	1.40	0.75	3250 psi	---
28960	3/8	3/8-18	9/16-18	1.40	0.88	3250 psi	---
28961	1/2	3/8-18	3/4-16	1.56	0.88	3250 psi	---
28962	1/2	1/2-14	3/4-16	1.79	1.13	3250 psi	---
28963	5/8	1/2-14	7/8-14	1.87	1.13	3250 psi	---
28964	3/4	3/4-1/4	1-1/16-12	2.06	1.38	2600 psi	---

STRAIGHT

PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28701	1/4	1/8-27	7/16-20	1.22	0.45	3250 psi	---
28702	1/4	1/4-18	7/16-20	1.37	0.56	3250 psi	---
28703	1/4	3/8-18	7/16-20	1.42	0.75	3250 psi	---
28704	5/16	1/8-27	1/2-20	1.41	0.56	3250 psi	---
28705	5/16	1/4-18	1/2-20	1.42	0.56	3250 psi	---
28706	3/8	1/8-27	9/16-18	1.24	0.63	3250 psi	---
28707	3/8	1/4-18	9/16-18	1.43	0.63	3250 psi	---
28708	3/8	3/8-18	9/16-18	1.38	0.75	3250 psi	---
28709	3/8	1/2-14	9/16-18	1.69	0.88	3250 psi	---
28710	1/2	1/4-18	3/4-16	1.53	0.81	3250 psi	---
28711	1/2	3/8-18	3/4-16	1.53	0.81	3250 psi	---
28712	1/2	1/2-14	3/4-16	1.79	0.88	3250 psi	---
28713	1/2	3/4-14	3/4-16	1.85	1.13	2600 psi	---
28714	5/8	3/8	7/8-14	1.84	0.94	3250 psi	---
28715	5/8	1/2-14	7/8-14	1.89	0.94	3250 psi	---
28716	5/8	3/4-14	7/8-14	1.95	1.13	2600 psi	---
28748	3/4	1/2-14	1 1/16-12	2.06	1.13	2925 psi	---
28717	3/4	3/4-14	1 1/16-12	2.06	1.13	2600 psi	---
28749	3/4	1-11 1/2	1 1/16-12	2.25	1.38	1950 psi	---
28719	1	3/4-14	1 5/16-12	2.06	1.13	2275 psi	---
28718	1	1-11 1/2	1 5/16-12	2.3	1.38	1950 psi	---

B2404 SB FTXB

STRAIGHT SWIVEL ADAPTER

PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE	LIST PRICE
28752	1/4	1/4-18	7/16-20	1.389	.563	3250 psi	---
28753	3/8	1/4-18	9/16-18	1.6	.563	3250 psi	---
28754	3/8	3/8-18	9/16-18	1.574	.690	2925 psi	---
28756	1/2	1/2-14	3/4-16	1.706	.875	2600 psi	---

B6505 SJS

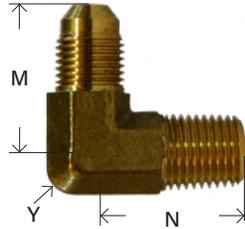
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



JIC 37° SHAPES

BRASS FITTINGS

90° FORGED ELBOW

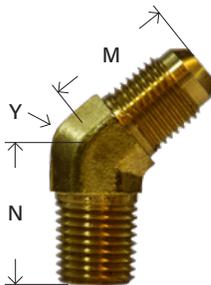


• Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST PRICE
28760F	1/4	7/16-20	1/8-27	0.89	0.78	0.5	2160 psi	---
28762F	1/4	7/16-20	1/4-18	1.05	1.03	0.53	1846 psi	---
28766F	5/16	1/2-20	1/4-18	1.10	1.10	0.55	3905 psi	---
28768F	3/8	9/16-18	1/8-27	1.06	1.00	0.56	3128 psi	---
28770F	3/8	9/16-18	1/4-18	1.06	1.09	0.54	1564 psi	---
28772F	3/8	9/16-18	3/8-18	1.15	1.22	0.74	1464 psi	---
28774F	1/2	3/4-16	3/8-18	1.25	1.22	0.81	1467 psi	---
28777F	1/2	3/4-16	1/2-14	1.31	1.47	0.90	1265 psi	---
28778F	1/2	3/4-16	3/4-14	1.4	1.59	0.89	2061 psi	---
28780F	5/8	7/8-14	1/2-14	1.45	1.47	0.88	1265 psi	---
28783F	3/4	1 1/16-12	3/4-14	1.66	1.59	1.06	1084 psi	---

DL3B2 3F69CL GGL6A1 F23L2 EE48D3 EE46B2 FF45A2 F48C3 FF22C3 D49B1 D25B1 3F47C1

45° FORGED ELBOW



• Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE	LIST PRICE
28724F	1/4	7/16-20	1/4-18	0.81	0.84	0.53	3750 psi	---
28731F	3/8	9/16-18	1/4-18	0.83	0.86	0.63	3128 psi	---
28733F	3/8	9/16-18	3/8-18	0.91	0.95	0.81	3100 psi	---
28736F	1/2	3/4-16	3/8-18	0.98	0.95	0.75	2938 psi	---
28738F	1/2	3/4-16	1/2-14	1.13	1.17	0.86	2826 psi	---
28742F	3/4	1 1/16-12	3/4-14	1.28	1.2	1.13	2442 psi	---

B2503 FBC-F VTXB

THREAD CHART	
SIZE	JIC THREAD
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
1	1-5/16-12

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BRASS

INVERTED FLARE

BRASS FITTINGS

INVERTED FLARE FITTINGS

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
Thread O.D. threads per inch	5/16-28	3/8-24	7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1-1/16-16	1-3/16-16	1-5/16-16

- Typical Application

Hydraulic brake, power steering, fuel lines and transmission cooler lines, LP and natural gas.

- Working Pressure Ranges

Temperature and type of tubing used are important factors. However, the following table is a

PSI	Tube O.D. (in.)	Tube Wall (in.)
2800	1/8	.030
1900	3/16	.030
1400	1/4	.030
1200	5/16	.032
1000	3/8	.032
750	1/2	.032
650	5/8	.035
550	3/4	.035

good guide for proper selection. Temperature 730F with copper tubing:

- Vibration

Excellent resistance.

- Temperature Range

-650F to +2500F (-530C to +1210C) range at maximum operating pressures.

- Used With

Copper, brass, aluminum and steel hydraulic tubing that can be flared.

- Advantages

Very low cost and reusable. Seats and threads are internal and protected. Compact, excellent vibration life. Short nut affords very close tube bends.

tube nut.

- Tolerance

+/- .03 on all dimensions.

- Conformance

Meets specifications and standards of ASA, ASME, SAE and MS (Military Standards).

- Assembly Instructions

1-Cut tubing to desired length. Make sure all burrs are removed and the ends are cut square.

2- Slide nut on tube. Threaded end "A" of nut must face out.

3- Flare end of tube with a 45° flaring tool.

a- Measure flare diameter.

b- Examine flare for excessive thin out.

c- On thin wall, welded or brazed tubing, use double flare to prevent pinch-off and cracked flares.

4- Lubricate threads and assemble to fitting body. Nut should be turned hand tight.

5- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.

Note: Do not over-torque as it may damage the fitting or split the tubing at the flare.

STANDARD METRIC THREADS

DESCRIPTION TUBE SIZE	THREAD O.D.	CREST (PITCH)	THREAD DESCRIPTION
Japanese 3/16"	10mm	1.0mm	M10 x 1.0
European 3/16"	10mm	1.0mm	M10 x 1.0
GM 6mm	12mm	1.0mm	M12 x 1.0
Fuel 5/16"	14mm	1.5mm	M14 x 1.5
Fuel 3/8"	16mm	1.5mm	M16 x 1.5

Measuring Metric Threads: Measure the O.D. of the threads and the crest to crest distance (pitch) in millimeters between threads.

Actual O.D. of male inverted flare threads

5/16"-28 2800 PSI 3/8"-24 1900 PSI 7/16"-24 1400 PSI 1/2"-20 1200 PSI 5/8"-18 1000 PSI

3/4"-18 750 PSI

7/8"-18 650 PSI

1-1/16"-16 550 PSI

1/8"

3/16"

1/4"

5/16"

3/8"

1/2"

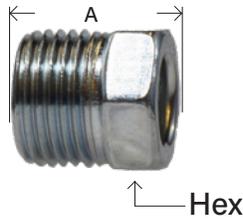
5/8"

3/4"

INVERTED FLARE

BRASS FITTINGS

ZINC CHROMATE STEEL NUT

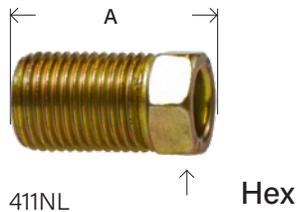


411FS
411NS
SAE# 040110

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
12001	1/8"	5/16-28	0.52	0.31	0.01	---
12002	3/16"	3/8-24	0.56	0.37	0.02	---
12018	3/16"	7/16-24	0.56	0.43	0.02	---
12003	1/4"	7/16-24	0.56	0.43	0.02	---
12004	5/16"	1/2-20	0.62	0.50	0.02	---
12005	3/8"	5/8-18	0.66	0.62	0.03	---
12011	3/8"	11/16-18	0.66	0.68	0.05	---
12006	1/2"	3/4-18	0.74	0.75	0.08	---
12007	5/8"	7/8-18	0.80	0.87	0.10	---
12008	3/4"	1-1/16-16	0.88	1.06	0.10	---

121XXX 2105 411FS 105 41W

LONG STEEL NUT



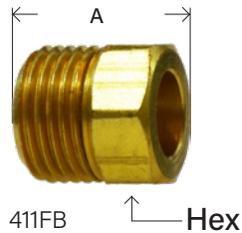
411NL

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12009	3/16"	0.84	0.37	0.02	---
12010	1/4"	0.81	0.43	0.02	---

for Domestic lines

7896

INVERTED FLARE BRASS NUT



411FB
411NB

• More sizes available

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12012	1/8"	0.52	0.31	0.01	---
12013	3/16"	0.56	0.37	0.01	---
12014	1/4"	0.56	0.43	0.02	---
12015	5/16"	0.62	0.50	0.03	---
12016	3/8"	0.66	0.62	0.04	---
12017	1/2"	0.74	0.75	0.05	---

SAE# 040110

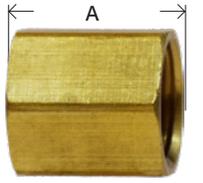
2100 411F 100 411B



PART #	TUBESIZE	THREAD	REF#	LIST PRICE
12260	3/16 British	3/8-24 Bubble	---	---
12261	3/16 European	M10 x 1.0 Bubble	276110	---
12262	3/16 Japanese	M10 x 1.0 Inv.	121050	---
12263	3/16 Domestic	1/2 x 20 Inv.	---	---
12264	3/16 Domestic	9/16 - 18 Inv.	121039	---
12265	3/16 Imported	M11 x 1.5 Bubble	276011	---
12266	3/16 Imported	M12 x 1.0 Bubble	276012	---
12268	1/4 Domestic	9/16 x 18 Inv.	121049	---
12269	1/4 Domestic	1/2 x 20 Inv.	121045	---
12270	6mm Imported	M12 x 1.0 Bubble		---
12271	6mm GM	M12 x 1.0 Bubble		---
12274	5/16 Domestic	M14 x 1.5 Surface Seal	121069	---
12275	3/8 Domestic	M16 x 1.5 Surface Seal	121070	---

INVERTED FLARE

BRASS FITTINGS

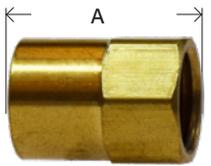
UNION INTERNAL

421F
421N
Hex

SAE# 040101

PART #	INV. FLARE X INV. FLARE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12022	1/8"	0.59	0.40	0.02	---
12023	3/16"	0.62	0.43	0.02	---
12024	1/4"	0.62	0.50	0.03	---
12025	5/16"	0.70	0.56	0.04	---
12026	3/8"	0.80	0.75	0.08	---
12027	1/2"	0.91	0.90	0.10	---
12028	5/8"	1.31	1.06	0.22	---

302 2300 42IFHD

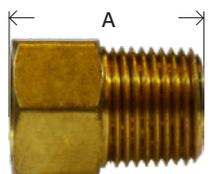
FEMALE ADAPTER

461N
461N
Hex

SAE# 040103

PART #	INV. FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
12029	1/8" x 1/8"	0.716	0.50	0.03	---
12032	3/16" x 1/8"	0.75	0.50	0.02	---
12033	1/4" x 1/8"	0.75	0.53	0.02	---
12030	1/4" x 1/4"	1.01	0.751	0.11	---
12034	5/16" x 1/8"	0.78	0.59	0.04	---
12035	3/8" x 1/4"	1.03	0.75	0.08	---
12031	7/16" x 1/4"	1.06	0.81	0.11	---
12037	1/2" x 1/4"	1.09	0.90	0.12	---
12036	1/2" x 3/8"	1.10	0.90	0.12	---
12039	5/8" x 1/2"	1.32	1.065	0.19	---
12099	3/4" x 3/4"	1.50	1.25	0.36	---

46IFHD 252 46W

MALE ADAPTER

Hex

481N
481F

SAE# 040102

PART #	INV. FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
12041	1/8" x 1/8"	0.63	0.40	0.02	---
12042	3/16" x 1/8"	0.70	0.43	0.02	---
12053	3/16" x 1/4"	0.72	0.56	0.04	---
12043	1/4" x 1/8"	0.74	0.50	0.03	---
12044	1/4" x 1/4"	0.89	0.56	0.04	---
12045	5/16" x 1/8"	0.79	0.56	0.03	---
12046	5/16" x 1/4"	0.98	0.56	0.05	---
12055	5/16" x 3/8"	1.01	0.75	0.07	---
12047	3/8" x 1/8"	0.88	0.72	0.05	---
12048	3/8" x 1/4"	1.02	0.75	0.06	---
12049	3/8" x 3/8"	1.02	0.75	0.08	---
12104	7/16" x 1/4"	1.05	0.81	0.06	---
12038	1/2" x 1/4"	0.97	0.87	0.10	---
12050	1/2" x 3/8"	1.06	0.87	0.08	---
12051	1/2" x 1/2"	1.06	0.87	0.11	---
12052	5/8" x 1/2"	1.32	1.06	0.15	---
12105	3/4" x 1/2"	1.38	1.25	0.18	---
12040	3/4" x 3/4"	1.39	1.25	0.24	---

2200 48IFHD 202 48W 200

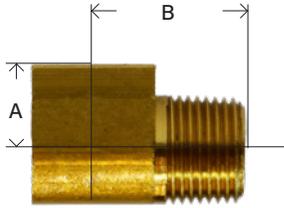
Dimension data can change without notice. Please check when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INVERTED FLARE

BRASS FITTINGS

ELBOW



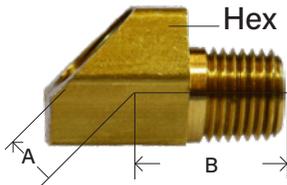
491N
491F

SAE# 040202

PART #	INV. FLARE X MALE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
12057	1/8" x 1/8"	0.26	0.59	0.03	---
12058	3/16" x 1/8"	0.26	0.61	0.03	---
12059	1/4" x 1/8"	0.33	0.65	0.04	---
12060	1/4" x 1/4"	0.28	0.82	0.06	---
12061	5/16" x 1/8"	0.47	0.68	0.05	---
12062	5/16" x 1/4"	0.45	0.85	0.08	---
12082	5/16" x 3/8"	0.47	0.86	0.12	---
12063	3/8" x 1/8"	0.54	0.76	0.14	---
12064	3/8" x 1/4"	0.53	0.92	0.14	---
12065	3/8" x 3/8"	0.50	0.94	0.12	---
12114	1/2" x 1/4"	0.72	1.08	0.14	---
12066	1/2" x 3/8"	0.59	1.03	0.16	---
12067	1/2" x 1/2"	0.66	1.22	0.25	---
12056	5/8" x 3/8"	0.67	1.09	0.20	---
12068	5/8" x 1/2"	0.67	1.29	0.18	---
12081	1" x 1"	1.02	1.69	0.60	---

400 2400 249IFHD 402 249IF 49W

45° ELBOW



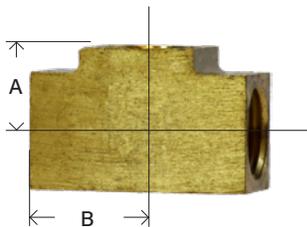
591F
941N

SAE# 040302

PART #	INV. FLARE X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
12070	1/8" x 1/8"	0.22	0.48	0.50	0.03	---
12072	3/16" x 1/8"	0.25	0.55	0.53	0.02	---
12073	1/4" x 1/8"	0.27	0.58	0.56	0.04	---
12074	5/16" x 1/8"	0.36	0.56	0.62	0.06	---
12075	5/16" x 1/4"	0.23	0.83	0.62	0.06	---
12115	3/8" x 1/8"	0.34	0.87	0.87	0.09	---
12076	3/8" x 1/4"	0.51	0.84	0.78	0.09	---
12077	1/2" x 3/8"	0.38	0.91	0.84	0.11	---
12079	5/8" x 1/2"	0.44	1.00	1.06	0.21	---

154 2352 259IFHD 352 94W

UNION TEE



441F
441N

SAE# 040401

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
12085	1/8"	0.33	0.47	0.04	---
12086	3/16"	0.39	0.55	0.04	---
12087	1/4"	0.42	0.56	0.08	---
12088	5/16"	0.45	0.63	0.09	---
12089	3/8"	0.56	0.74	0.17	---
12090	1/2"	0.67	0.88	0.24	---

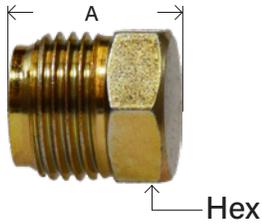
244IFHD 702 44I

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

INVERTED FLARE

BRASS FITTINGS

STEEL PLUG

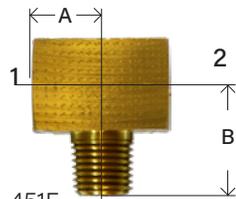
391N 391N
391F 391F



PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
12091	3/16"	0.53	0.37	0.01	---
12092	1/4"	0.54	0.43	0.02	---
12093	5/16"	0.59	0.50	0.03	---
12094	3/8"	0.66	0.62	0.04	---
BRASS					
12095	3/8"	0.66	0.63	0.04	---
12096	1/2"	0.82	0.75	0.07	---
12097	5/8"	0.90	0.87	0.10	---
12098	3/4"	0.95	1.07	0.17	---

• cored

106 41IP 131 2131

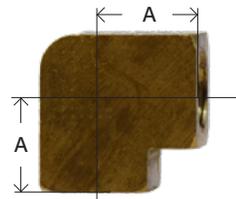
MALE BRANCH TEE

451F
451N 3

SAE# 040425

PART #	INV. FLARE X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
12100	3/16" x 1/8"	0.41	0.60	0.04	---
12101	1/4" x 1/8"	0.42	0.64	0.06	---
12102	5/16" x 1/8"	0.47	0.68	0.07	---
12103	3/8" x 1/4"	0.58	0.93	0.15	---

145 245IFHD 602 2600 600

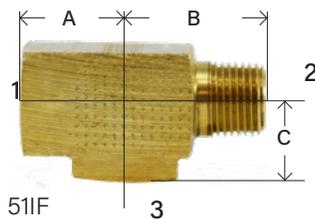
FEMALE ELBOW

501F
501N

SAE# 040203

PART #	INV. FLARE X FEMALE NPTF	A	APPROX. WT. LBS.	LIST PRICE
12110	1/4" x 1/8"	0.55	0.07	---
12111	5/16" x 1/8"	0.51	0.08	---
12112	3/8" x 1/4"	0.68	0.10	---

450

MALE RUN TEE

511F
511N

SAE# 040424

PART #	INV. FLARE X MALE NPTF (1&3)X2	A	B	C	APPROX. WT. LBS.	LIST PRICE
12118	3/16" x 1/8"	0.53	0.72	0.39	0.06	---
12119	1/4" x 1/8"	0.56	0.75	0.42	0.08	---
12120	5/16" x 1/8"	0.62	0.85	0.45	0.10	---
12121	3/8" x 1/4"	0.75	1.08	0.56	0.14	---

251IFHD 752 550 151

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION

BRASS FITTINGS

COMPRESSION FITTINGS



These are NOT Lead Free
See Lead Free Section for Lead Free products

TUBE O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
THREAD SIZE-B	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18
WORKING PRESSURE	400	400	300	300	200	200	200	150	100	75

• Typical Application

Use with copper, aluminum and thermoplastic tubing. Not recommended for steel tubing. Manufactured for low and medium pressure tubing connection work where excessive vibration or tube movement is not involved. Not recommended for application using gaseous media.

• Pressure

See table above for working pressures at 73oF.

• Vibration

Fair resistance - use long nut when greater vibration resistance is needed.

• Temperature Range

-65oF to +250oF (-53oC to +121oC) range at maximum operating pressures. (Refer to tubing temperature range.)

• Used With

Aluminum, copper, brass and plastic tubing. Plastic tubing requires insert. Not recommended for steel tubing.

• Tolerance

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

• Conformance

Meets specifications and standards of ASA, ASME and SAE.

• Assembly Instructions

- 1- Cut tubing to desired length.
- 2- Slide nut and then sleeve on tube. Threaded end "A" of nut must face toward fitting.
- 3- Insert tubing into fitting body. Be sure tubing is bottomed on fitting shoulder.
- 4- Lubricate threads and assemble nut to fitting body.
- 5- Tighten nut hand tight. From that point, tighten with a wrench the number of turns indicated in the chart below.

TUBE SIZE	ADDITIONAL TURNS FROM HAND TIGHT
1/8" thru 1/4"	1-1/4"
5/16"	1-3/4"
3/8" thru 1"	2-1/4"

• "L" at the end of a Part# means Light Pattern -These fittings are completely interchangeable with full pattern fittings, but have been modified in some way. This modification is usually in the length of the pipe threads. Used in plumbing and light industrial applications.

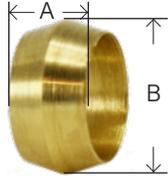
Actual Profile of Compression Threads



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION

BRASS FITTINGS

BRASS SLEEVE

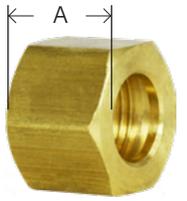
60

• FERRULES

SAE# 060115

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18001	1/8"	0.19	0.19	0.01	---
18002	3/16"	0.22	0.27	0.01	---
18003	1/4"	0.25	0.34	0.01	---
18004	5/16"	0.25	0.41	0.01	---
18005	3/8"	0.25	0.47	0.02	---
18006	7/16"	0.31	0.53	0.02	---
18007	1/2"	0.38	0.59	0.02	---
18008	5/8"	0.38	0.71	0.03	---
18009	3/4"	0.44	0.87	0.03	---
18010	7/8"	0.41	0.99	0.03	---
18011	1"	0.55	1.16	0.03	---

60 260

BRASS NUT

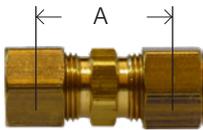
61

Hex

SAE# 060110

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
18033	1/8"	5/16-24	0.38	0.37	0.01	---
18034	3/16"	3/8-24	0.41	0.43	0.01	---
18035L	1/4"	7/16-24	0.44	0.50	0.02	---
18035	1/4"	7/16-24	0.44	0.50	0.02	---
18036	5/16"	1/2-24	0.44	0.56	0.02	---
18037L	3/8"	9/16-24	0.47	0.62	0.04	---
18037	3/8"	9/16-24	0.47	0.62	0.04	---
18038	7/16"	5/8-24	0.50	0.68	0.04	---
18039L	1/2"	11/16-20	0.56	0.75	0.04	---
18039	1/2"	11/16-20	0.62	0.81	0.04	---
18040L	5/8"	13/16-18	0.56	0.87	0.06	---
18040	5/8"	13/16-18	0.62	0.94	0.06	---
18041	3/4"	1-18	0.68	1.12	0.08	---
18042	7/8"	1-1/8 - 18	0.62	1.25	0.10	---
18043	1"		0.94	1.38	0.15	---

61 261

UNION62
262

Hex

SAE# 060101BA

PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18062	1/8"	0.64	0.31	0.03	---
18063	3/16"	0.75	0.37	0.04	---
18064L	1/4"	0.79	0.43	0.06	---
18064	1/4"	0.81	0.43	0.06	---
18065	5/16"	0.88	0.50	0.06	---
18066L	3/8"	0.96	0.56	0.09	---
18066	3/8"	0.98	0.56	0.10	---
18067	7/16"	1.02	0.62	0.12	---
18068L	1/2"	1.06	0.68	0.16	---
18068	1/2"	1.25	0.68	0.16	---
18069L	5/8"	1.43	0.81	0.24	---
18069	5/8"	1.25	0.81	0.26	---
18070	3/4"	1.41	1.00	0.35	---
18071L	7/8"	1.03	1.12	0.34	---
18071	7/8"	1.00	1.12	0.36	---

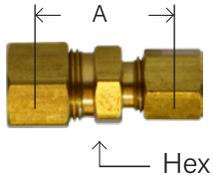
M-62

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPRESSION

BRASS FITTINGS

REDUCING UNION

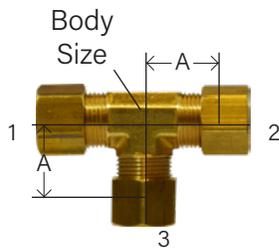


62R

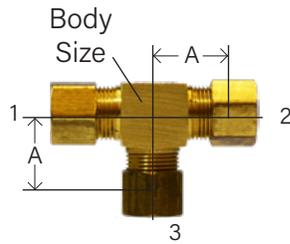
PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
18076	1/4" x 1/8"	0.73	0.44	0.04	---
18077	1/4" x 3/16"	0.78	0.44	0.06	---
18078	5/16" x 1/4"	0.81	0.50	0.06	---
18079	3/8" x 1/4"	0.90	0.56	0.10	---
18080	3/8" x 5/16"	0.94	0.56	0.10	---
18081	1/2" x 3/8"	1.03	0.68	0.12	---
18082	5/8" x 3/8"	1.03	0.81	0.15	---
18083	5/8" x 1/2"	1.16	0.81	0.18	---
18084	7/8" x 5/8"	1.23	1.18	0.20	---

62-R

TEE



Forged



Barstock

64

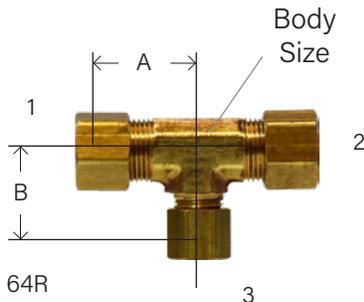
SAE# 060401

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18101	1/8"	0.61	0.37	0.04	---
18101B*	1/8"	0.62	0.33	0.04	---
18102	3/16"	0.59	0.36	0.08	---
18103	1/4"	0.63	0.36	0.10	---
18103B*	1/4"	0.62	0.49	0.10	---
18104	5/16"	0.72	0.50	0.13	---
18105	3/8"	0.75	0.50	0.16	---
18105B*	3/8"	0.73	0.59	0.16	---
18106	1/2"	0.94	0.59	0.22	---
18107	5/8"	1.06	0.69	0.28	---
18108	3/4"	1.22	0.88	0.32	---
18109	7/8"	1.25	0.94	0.34	---

* Barstock

64 264C

FORGED REDUCING TEE



64R

PART #	SIZE 1 X 2 X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18110	1/4" x 1/4" x 3/8"	0.69	0.75	0.50	0.14	---
18115	3/8" x 3/8" x 1/4"	0.75	0.69	0.50	0.14	---
18116	1/2" x 1/2" x 1/4"	0.94	0.81	0.59	0.16	---
18117	1/2" x 1/2" x 3/8"	0.94	0.81	0.59	0.24	---
18118	5/8" x 5/8" x 3/8"	1.06	0.94	0.69	0.28	---
18119	5/8" x 5/8" x 1/2"	1.06	1.06	0.69	0.30	---

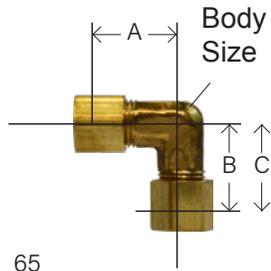
64-R

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BRASS

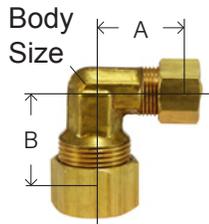
COMPRESSION

BRASS FITTINGS

UNION ELBOW SAE# 06020165
Forged Barstock

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18122B*	1/8"	0.62	0.35	0.04	---
18123	3/16"	0.61	0.37	0.06	---
18124	1/4"	0.66	0.38	0.08	---
18124B	1/4"				
18125	5/16"	0.69	0.47	0.09	---
18126	3/8"	0.72	0.43	0.12	---
18127	1/2"	0.94	0.59	0.19	---
18128	5/8"	1.06	0.72	0.26	---
18129	3/4"	1.19	0.94	0.48	---
18130	7/8"	1.25	0.94	0.44	---

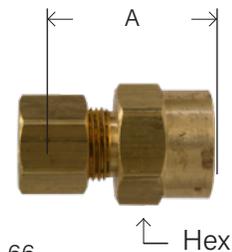
65 BSE2 165C 265C

REDUCING ELBOW - Forged

65R

PART #	SIZE	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18135	3/8" x 1/4"	0.69	0.75	0.47	0.12	---
18136	1/2" x 3/8"	0.88	0.94	0.59	0.15	---

65-R

FEMALE ADAPTER66
SAE# 060103

PART #	COMP. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18142	1/8" x 1/8"	0.75	0.56	0.02	---
18143	3/16" x 1/8"	0.78	0.56	0.04	---
18143L	3/16" x 1/4"				
18144	3/16" x 1/4"	0.96	0.68	0.04	---
18145L	1/4" x 1/8"	0.84	0.50	0.05	---
18145	1/4" x 1/8"	0.78	0.56	0.05	---
18146L	1/4" x 1/4"	0.88	0.62	0.09	---
18146	1/4" x 1/4"	1.03	0.68	0.09	---
18148	1/4" x 1/2"	1.02	0.87	0.12	---
18149	5/16" x 1/8"	0.81	0.56	0.05	---
18150	5/16" x 1/4"	0.91	0.62	0.06	---
18152	3/8" x 1/8"	0.88	0.56	0.06	---
18153L	3/8" x 1/4"	0.97	0.62	0.08	---
18153	3/8" x 1/4"	1.06	0.68	0.08	---
18154L	3/8" x 3/8"	1.03	0.75	0.08	---
18154	3/8" x 3/8"	1.06	0.81	0.10	---
18155	3/8" x 1/2"	1.12	1.00	0.08	---
18156	3/8" x 3/4"	1.19	1.16	0.14	---
18157	1/2" x 1/4"	1.09	0.68	0.10	---
18158L	1/2" x 3/8"	0.94	0.81	0.12	---
18158	1/2" x 3/8"	1.12	0.81	0.12	---
18159L	1/2" x 1/2"	1.19	1.00	0.12	---
18159	1/2" x 1/2"	1.31	1.00	0.12	---
18162L	5/8" x 1/2"	1.20	0.94	0.18	---
18162	5/8" x 1/2"	1.38	1.00	0.18	---
18163	5/8" x 3/4"	1.20	1.12	0.22	---
18164	3/4" x 1/2"	1.25	1.06	0.26	---
18165	3/4" x 3/4"	1.28	1.19	0.28	---
18166	7/8" x 3/4"	1.31	1.12	0.34	---

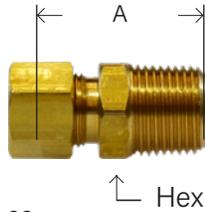
• More sizes available

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COMPRESSION

BRASS FITTINGS

MALE ADAPTER



68

SAE# 060102

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
18175	1/8" x 1/16"	0.78	0.37	0.02	---
18176	1/8" x 1/8"	0.78	0.43	0.04	---
18177	3/16" x 1/8"	0.84	0.43	0.04	---
18178	3/16" x 1/4"	0.94	0.56	0.06	---
18179L	1/4" x 1/8"	0.88	0.56	0.04	---
18179	1/4" x 1/8"	0.88	0.43	0.04	---
18180L	1/4" x 1/4"	0.94	0.56	0.05	---
18180	1/4" x 1/4"	1.06	0.56	0.06	---
18181	1/4" x 3/8"	1.03	0.68	0.08	---
18182	1/4" x 1/2"	1.09	0.81	0.10	---
18183	5/16" x 1/8"	0.91	0.50	0.05	---
18184L	5/16" x 1/4"	1.01	0.56	0.06	---
18184	5/16" x 1/4"	1.09	0.56	0.06	---
18185	5/16" x 3/8"	1.06	0.68	0.07	---
18186	5/16" x 1/2"	1.14	0.87	0.10	---
18187L	3/8" x 1/8"	0.94	0.56	0.06	---
18187	3/8" x 1/8"	0.97	0.56	0.06	---
18188L	3/8" x 1/4"	1.03	0.56	0.06	---
18188	3/8" x 1/4"	1.16	0.56	0.07	---
18189L	3/8" x 3/8"	1.09	0.68	0.08	---
18189	3/8" x 3/8"	1.14	0.69	0.08	---
18190L	3/8" x 1/2"	1.19	0.88	0.12	---
18190	3/8" x 1/2"	1.34	0.87	0.13	---
18191	3/8" x 3/4"	1.29	1.06	0.16	---
18192	7/16" x 1/4"	1.06	0.62	0.10	---
18204	7/16" x 3/8"	1.10	0.68	0.12	---
18193L	1/2" x 1/4"	1.09	0.69	0.11	---
18193	1/2" x 1/4"	1.22	0.68	0.11	---
18194L	1/2" x 3/8"	1.16	0.68	0.12	---
18194	1/2" x 3/8"	1.16	0.69	0.12	---
18195L	1/2" x 1/2"	1.09	0.81	0.12	---
18195	1/2" x 1/2"	1.41	0.87	0.19	---
18196	1/2" x 3/4"	1.38	1.06	0.22	---
18216	5/8" x 1/4"	1.21	0.87	0.22	---
18197	5/8" x 3/8"	1.22	0.87	0.24	---
18198	5/8" x 1/2"	1.12	0.81	0.24	---
18199	5/8" x 3/4"	1.31	1.06	0.26	---
18200	3/4" x 1/2"	1.44	1.00	0.26	---
18201	3/4" x 3/4"	1.50	1.06	0.26	---
18202	7/8" x 1/2"	1.18	1.12	0.26	---
18203	7/8" x 3/4"	1.22	1.12	0.28	---
18205	7/8" x 1"	1.67	1.37	0.32	---
18207	1" x 1"	2.00	1.38	0.48	---

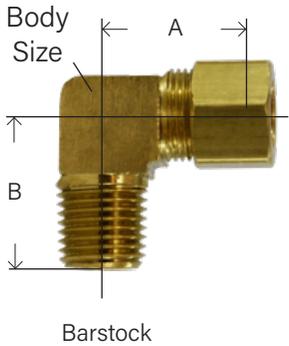
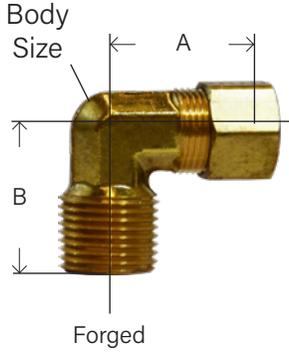
68

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COMPRESSION

BRASS FITTINGS

MALE ELBOW

69

SAE# 060202

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18219	1/8" x 1/16"	0.59	0.73	0.34	0.02	---
18220	1/8" x 1/8"	0.59	0.75	0.34	0.02	---
18220B*	1/8" x 1/8"	0.60	0.67	0.43	0.04	---
18221	3/16" x 1/8"	0.63	0.72	0.34	0.04	---
18221B*	3/16" x 1/8"	0.62	0.69	0.43	0.06	---
18223	3/16" x 1/4"	0.60	0.81	0.39	0.05	---
18224	1/4" x 1/8"	0.60	0.75	0.37	0.06	---
18224B*	1/4" x 1/8"	0.62	0.75	0.43	0.06	---
18225	1/4" x 1/4"	0.65	0.94	0.36	0.08	---
18225B*	1/4" x 1/4"	0.61	0.81	0.56	0.08	---
18226	1/4" x 3/8"	0.75	0.91	0.47	0.08	---
18227	1/4" x 1/2"	0.81	1.13	0.56	0.12	---
18228	5/16" x 1/8"	0.66	0.75	0.47	0.06	---
18228B*	5/16" x 1/8"	0.62	0.75	0.42	0.06	---
18229	5/16" x 1/4"	0.66	0.81	0.47	0.07	---
18229B*	5/16" x 1/4"	0.69	0.84	0.57	0.08	---
18230	5/16" x 3/8"	0.75	0.91	0.47	0.10	---
18232	3/8" x 1/8"	0.72	0.66	0.39	0.06	---
18232B*	3/8" x 1/8"	0.69	0.69	0.57	0.06	---
18233	3/8" x 1/4"	0.75	0.82	0.46	0.08	---
18233B*	3/8" x 1/4"	0.75	0.94	0.57	0.08	---
18234	3/8" x 3/8"	0.81	0.94	0.46	0.10	---
18234B*	3/8" x 3/8"	0.71	0.83	0.69	0.10	---
18235	3/8" x 1/2"	0.87	1.12	0.56	0.14	---
18235B*	3/8" x 1/2"	0.88	1.16	0.94	0.14	---
18248	3/8" x 3/4"	1.03	1.19	0.81	0.18	---
18247	7/16" x 1/4"	0.84	1.00	0.56	0.14	---
18236	1/2" x 1/4"	0.88	0.97	0.56	0.14	---
18237	1/2" x 3/8"	0.88	1.03	0.56	0.19	---
18237B*	1/2" x 3/8"	0.94	1.12	0.70	0.19	---
18238	1/2" x 1/2"	0.94	1.13	0.59	0.17	---
18238B*	1/2" x 1/2"	0.94	1.31	0.86	0.17	---
18239	1/2" x 3/4"	1.16	1.25	0.81	0.18	---
18240	5/8" x 3/8"	1.06	1.12	0.68	0.18	---
18241	5/8" x 1/2"	1.06	1.16	0.68	0.20	---
18241B*	5/8" x 1/2"	1.06	1.31	0.86	0.20	---
18242	5/8" x 3/4"	1.16	1.31	0.81	0.24	---
18243	3/4" x 1/2"	1.19	1.31	0.94	0.26	---
18245	3/4" x 3/4"	1.19	1.38	0.94	0.30	---
18246	7/8" x 3/4"	1.25	1.38	0.94	0.35	---

* Barstock

69 269C BSE1 169C

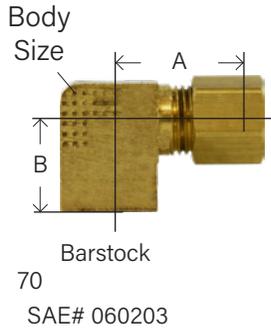
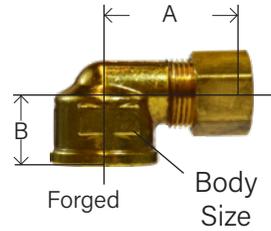
Dimension data can change without notice. Please check when dimensions are critical.

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COMPRESSION

BRASS FITTINGS

FEMALE ELBOW

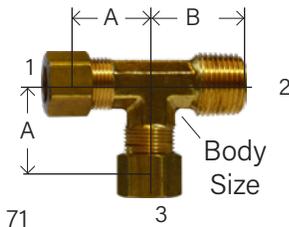


PART #	COMP. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18251	1/8" x 1/8"	0.69	0.56	0.56	0.04	---
18252	3/16" x 1/8"	0.69	0.47	0.56	0.04	---
18253	1/4" x 1/8"	0.69	0.47	0.56	0.06	---
18253B*	1/4" x 1/8"	0.69	0.56	0.56	0.06	---
18254	1/4" x 1/4"	0.75	0.50	0.72	0.08	---
18267	1/4" x 3/8"	0.81	0.58	0.81	0.08	---
18268	1/4" x 1/2"	0.89	0.66	1.00	0.10	---
18255	5/16" x 1/8"	0.72	0.84	0.47	0.08	---
18256	5/16" x 1/4"	0.78	0.50	0.72	0.09	---
18257	3/8" x 1/8"	0.75	0.84	0.47	0.10	---
18258	3/8" x 1/4"	0.84	0.59	0.75	0.10	---
18259	3/8" x 3/8"	0.88	0.58	0.81	0.12	---
18260	3/8" x 1/2"	0.97	0.66	1.00	0.14	---
18261	1/2" x 1/4"	1.06	0.70	0.88	0.18	---
18262	1/2" x 3/8"	1.00	0.70	0.88	0.16	---
18263	1/2" x 1/2"	1.03	0.72	1.00	0.20	---
18264	5/8" x 1/2"	1.09	0.77	1.00	0.22	---
18265	5/8" x 3/4"	1.22	0.77	1.25	0.24	---

* Barstock

70 270C BSE3 170C

FORGED MALE RUN TEE

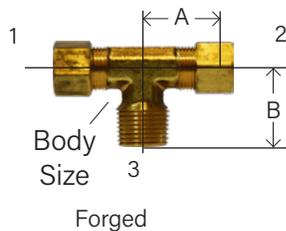


SAE#060424BA

PART #	COMP. X MALE NPTF (1&3) X 2	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18273	3/16" x 1/8"	0.63	0.69	0.36	0.07	---
18274	1/4" x 1/8"	0.63	0.75	0.36	0.08	---
18275	1/4" x 1/4"	0.69	0.88	0.44	0.10	---
18276	5/16" x 1/8"	0.72	0.75	0.50	0.10	---
18280	3/8" x 3/8"	0.88	1.00	0.47	0.20	---
18281	1/2" x 3/8"	0.94	1.09	0.59	0.24	---
18282	1/2" x 1/2"	0.97	1.19	0.69	0.26	---

71 171C BST3

MALE BRANCH TEE



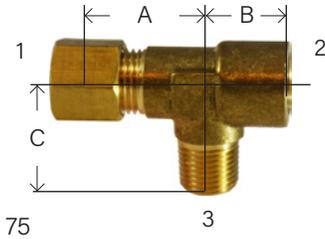
SAE# 060425

PART #	COMP. X MALE NPTF (1&2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18290	3/16" x 1/8"	0.63	0.69	0.36	0.08	---
18291	1/4" x 1/8"	0.62	0.75	0.36	0.10	---
18292	1/4" x 1/4"	0.69	0.86	0.44	0.10	---
18293	5/16" x 1/8"	0.72	0.75	0.50	0.11	---
18294	5/16" x 1/4"	0.75	0.88	0.44	0.12	---
18295	3/8" x 1/8"	0.75	0.75	0.50	0.14	---
18296	3/8" x 1/4"	0.78	0.88	0.44	0.16	---
18297	3/8" x 3/8"	0.78	0.97	0.47	0.18	---
18298	3/8" x 1/2"	0.88	1.22	0.69	0.20	---
18299	1/2" x 3/8"	0.94	1.12	0.59	0.24	---
18300	1/2" x 1/2"	0.97	1.19	0.69	0.30	---
18301	5/8" x 1/2"	1.06	1.31	0.69	0.32	---
18302	3/4" x 1/2"	1.22	1.34	0.88	0.50	---

72 BST1 172C

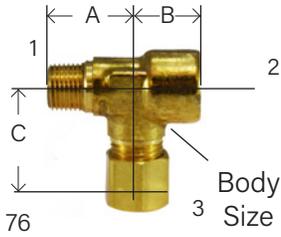
COMPRESSION

BRASS FITTINGS

FORGED TEE

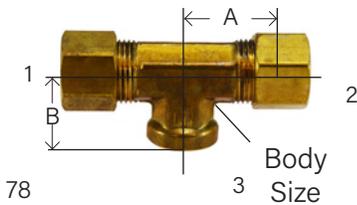
PART #	COMP. X FEMALE NPTF X MALE NPTF 1X(2&3)	A	B	C	APPROX. WT. LBS.	LIST PRICE
18307	1/4" x 1/8"	0.72	0.53	0.72	0.20	---

BST3

ADAPTER TEE

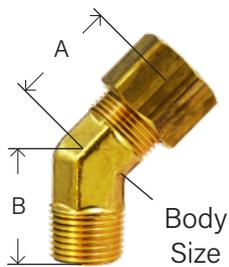
PART #	MALE NPTF X FEMALE NPTF X COMP. (1&2)X3	A	B	C	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18314	1/8" x 1/4"	0.72	0.53	0.72	0.47	0.08	---
18316	1/4" x 3/8"	0.84	0.97	0.81	0.47	0.10	---

76 176C

FEMALE BRANCH FORGED TEE

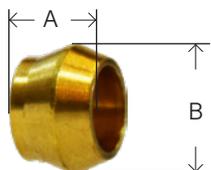
PART #	COMP. X FEMALE NPTF (1&2)X3	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18328	1/4" x 1/4"	0.78	0.75	0.44	0.12	---
18325	3/8" x 1/8"	0.75	0.63	0.50	0.12	---

78 BST4 77 177C 2908

45° ELBOW6945
SAE# 060302

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
18329	3/16" x 1/8"	0.40	0.63	0.41	0.04	---
18330	1/4" x 1/8"	0.40	0.61	0.41	0.04	---
18336	1/4" x 1/4"	0.59	0.84	0.53	0.06	---
18331	5/16" x 1/8"	0.59	0.65	0.53	0.06	---
18332	5/16" x 1/4"	0.59	0.83	0.53	0.08	---
18333	3/8" x 1/4"	0.62	0.83	0.53	0.08	---
18338	3/8" x 3/8"	0.75	0.95	0.59	0.10	---
18334	1/2" x 3/8"	0.75	0.88	0.59	0.14	---
18339	1/2" x 1/2"	0.94	1.14	0.75	0.14	---
18335	5/8" x 1/2"	0.78	1.14	0.78	0.14	---

6945 45BSE1 74 179C 273 77

COMPRESSION PLUG60CP
60CSP

PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
18028	1/4"	0.30	0.34	0.01	---
18029	3/8"	0.31	0.47	0.04	---
18030	1/2"	0.34	0.59	0.06	---

CSP

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

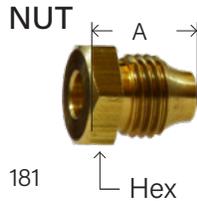
DOUBLE COMPRESSION

BRASS FITTINGS

DOUBLE COMPRESSION THREADED SLEEVE FITTINGS

- Use with aluminum and copper tubing or plastic tubing with internal tube support. Not recommended for steel tubing.
- Easy to assemble, no flaring, two piece construction.
- For use on oil, air, water and grease lubrication systems.
- When design makes a dimension critical, contact us for information.

TUBE OD	1/8	3/16	1/4	5/16	3/8
THREAD	5/16-24	3/8-24	7/16-24	1/2-20	9/16-20
WORKING PRESSURE	500	500	500	250	250



PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
16001	1/8"	0.50	0.37	0.02	---
16002	3/16"	0.53	0.43	0.02	---
16003	1/4"	0.56	0.50	0.04	---
16004	5/16"	0.61	0.56	0.04	---

181 6100 11

MALE ADAPTER

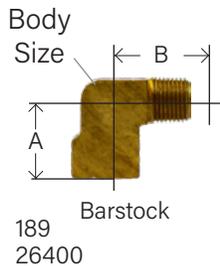


PART #	THRD SLEEVE X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
16117	1/8" x *	0.62	0.43	0.02	---
16118	1/8" x 1/8"	0.62	0.43	0.02	---
16119	3/16" x 1/8"	0.69	0.43	0.02	---
16121	1/4" x 1/8"	0.75	0.50	0.04	---
16122	5/16" x 1/8"	0.89	0.56	0.04	---
16123	3/8" x 1/4"	0.84	0.62	0.06	---

* 1/4 - 28 Male Thread Tapered.

188 6200 12

90° ELBOW



PART #	THRD SLEEVE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
16127	1/8" x *	0.50	0.52	0.41	0.02	---
16128	1/8" x 1/8"	0.50	0.66	0.43	0.02	---
16130	1/4" x 1/8"	0.52	0.62	0.50	0.04	---

* 1/4 - 28 Male Thread Tapered

189 6400 15

BREAK-AWAY NUT



PART #	SIZE	A	HEX	APPROX. WT. LBS.	LIST PRICE
16009	1/8"	0.66	0.31	0.02	---
16090	3/16"	0.57	0.37	0.02	---
16010	1/4"	0.62	0.43	0.02	---
16011	5/16"	0.77	0.50	0.04	---

• 1-Piece Fiting

181-BA 21604 99LB 81LB

181SP
21604

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

SPLIT SLEEVE FITTINGS

BRASS FITTINGS

BRASS SPLIT SLEEVE D.O.T. FITTINGS (5/32 O.D.)**TRANSMISSION BRASS FITTINGS**

APPLICATIONS: Used with SAE J844 Type A nylon tube in pressure protected air transmission applications.
 TECHNICAL DATA: Maximum working pressure up to 150 PSI. Fittings will withstand variations from -40°F to +220°F (-40°C to + 104°C)

Ideally suited for use in passive protected air transmission applications. A specially designed slotted sleeve helps eliminate notch stress related to over torque. **25 prefix parts do not have a stake, use 38 part # with white sealant only.**

COLLET

PART #	TUBE O.D.	LIST PRICE
38711	5/32"	---
25001	1/8"	---

1460 90791 280 90946

NUT

PART #	TUBE O.D.	LIST PRICE
38732	5/32"	---
25033	1/8"	---

1461 90790 281 90885

DOUBLE END UNION

PART #	TUBE O.D.	LIST PRICE
38761	5/32"	---
25062	1/8"	---

1462 90792 283 90891

CONNECTOR WITH NUT AND SLEEVE

PART #	TUBE O.D.	PIPE THREAD	LIST PRICE
38769	5/32"	1/16"	---
38770	5/32"	1/8"	---
25175	1/8"	1/16"	---
25176	1/8"	1/8"	---

• Shipped with nut and split sleeve, picture shows insert

1468 90794 282 90985

ELBOW

PART #	TUBE O.D.	PIPE THREAD	LIST PRICE
38715	5/32"	1/16"	---
38718	5/32"	1/8"	---
25220	1/8"	1/8"	---
25219	1/8"	1/16"	---
25221	3/16"	1/8"	---

284

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FLARELESS FITTINGS

Flareless Brass Tube Fittings are Interchangeable with Poly-Flo®, Poly-Tite® and Poly-Line® and Poly-Fit®



Built-in SS
Tube Support

TUBE O.D.	1/8	3/16	1/4	5/16	3/8	1/2
THREAD SIZE-B	5/16-24	3/8-24	3/8-24	7/16-24	1/2-24	1 1/16-20

•Typical Application

Pneumatic instrumentation circuits, lubricant and cooling lines.

•Working Pressure and Temperature Ranges

Up to 150 PSI from 0oF to + 150oF with thermoplastic tubing. Up to 300 PSI from 0oF to + 175oF with soft metal tubing.

•Maximum allowable metal tube wall thickness for use with Poly-Tite fittings:

1/8", 3/16" O.D. --no limitation,
1/4" O.D.--.035 5/16", 3/8", 1/2" O.D.--.049

•Vibration

Excellent Resistance.

•Temperature Range

Depends on tubing used. -65oF to +250oF (-53oC to +121oC) with brass sleeve, -40oF to +150oF (-40oC to +66oC) with plastic sleeve. (Refer to tubing temperature range.)

•Used With

Aluminum & copper tubing. Hard plastic tubing requires brass sleeve. Not recommended for steel tubing.

•Tolerance

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

•Advantages

No flaring of tubing required. Easy installation, captive sleeve, pre-assembled for installation and can be reas-

sembled. Nuts rotate around the sleeve during tightening, preventing twisting of tubing.

•Assembly Instructions

- 1- Cut tubing to desired length.
- 2- Slide nut/sleeve assembly on tube. Threaded end "A" of nut must face toward fitting.
- 3- Bottom tubing into fitting.
- 4- Plastic sleeve - Tighten nut hand tight.
Brass Sleeve - Tighten nut hand tight, then an additional 3/4 turn.

* Note: 1/8 and 3/16 sizes have brass sleeves

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BRASS

FLARELESS

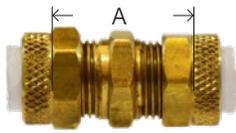
BRASS FITTINGS

NUT AND PLASTIC SLEEVE ASSEMBLY

↑ Hex
MP61P
261PF

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.	LIST PRICE
20211	1/4"	3/8-24	0.34	0.43	0.02	---
20212	5/16"	7/16-24	0.45	0.50	0.02	---
20213	3/8"	1/2-24	0.38	0.56	0.04	---
20214	1/2"	11/16-20	0.42	0.81	0.04	---

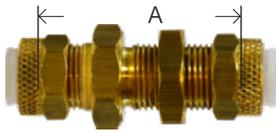
261PF 1261 61PN 261U

UNION

MP62
262PF ↑ Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20240	1/8"	0.66	0.31	0.02	---
20242	1/4"	0.69	0.37	0.04	---
20243	5/16"	0.69	0.44	0.04	---
20244	3/8"	0.72	0.50	0.10	---
20200	3/8" x 1/4"	0.72	0.50	0.08	---
20245	1/2"	0.84	0.69	0.14	---

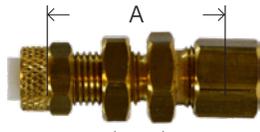
262PF 1262 62P 262P

BULKHEAD UNION

MP82
282PF ↑ Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20337	1/4"	1.25	0.56	0.06	---

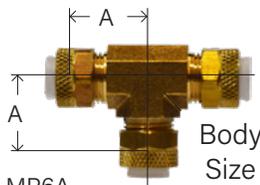
62PBH 329P 282P

BULKHEAD UNION - FLARELESS X COMPRESSION

MP827
282PFC ↑ Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20333	1/4"	1.31	0.56	0.07	---

1274

UNION TEE

MP6A
264PF

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20248	1/8"	0.62	0.31	0.02	---
20250	1/4"	0.73	0.44	0.06	---
20251	5/16"	0.62	0.37	0.08	---
20252	3/8"	0.86	0.56	0.08	---
20253	1/2"	0.81	0.62	0.24	---

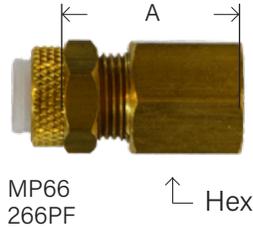
1264 164P 264P

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FLARELESS

BRASS FITTINGS

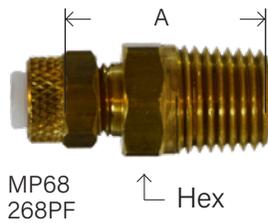
FEMALE CONNECTOR



PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20256	1/8" x 1/8"	0.75	0.56	0.03	---
20259	1/4" x 1/8"	0.76	0.50	0.04	---
20260	1/4" x 1/4"	1.08	0.62	0.05	---
20261	5/16" x 1/8"	0.75	0.50	0.03	---
20262	3/8" x 1/4"	0.94	0.62	0.05	---
20263	1/2" x 3/8"	1.00	0.81	0.12	---

1266 66P 266P

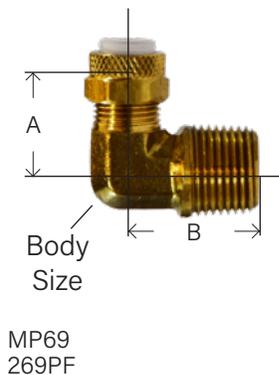
MALE CONNECTOR



PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20268	1/8" x 1/8"	0.80	0.34	0.04	---
20269	3/16" x 1/8"	0.86	0.44	0.04	---
20270	1/4" x 10/32"				
20271	1/4" x 1/8"	0.82	0.44	0.03	---
20272	1/4" x 1/4"	1.00	0.56	0.05	---
20273	1/4" x 3/8"	1.03	0.69	0.08	---
20274	5/16" x 1/8"	0.81	0.44	0.04	---
20275	5/16" x 1/4"	1.00	0.56	0.05	---
20276	3/8" x 1/8"	1.00	0.56	0.06	---
20277	3/8" x 1/4"	1.03	0.56	0.08	---
20278	3/8" x 3/8"	1.03	0.69	0.10	---
20279	1/2" x 3/8"	1.09	0.69	0.16	---
20282	1/2" x 1/2"	1.33	0.88	0.18	---

1268 68P 268P

MALE ELBOW



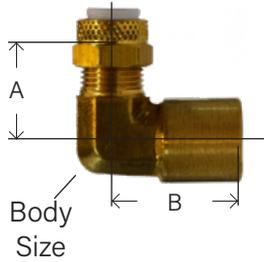
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20287	1/8" x 1/8"	0.62	0.69	0.31	0.02	---
20289*	1/4" x 1/8"	0.53	0.73	0.50	0.04	---
20290	1/4" x 1/4"	0.66	0.94	0.37	0.06	---
20291	1/4" x 3/8"	0.75	1.03	0.50	0.10	---
20292	5/16" x 1/8"	0.62	0.75	0.41	0.04	---
20293	3/8" x 1/8"	0.79	0.73	0.37	0.08	---
20294	3/8" x 1/4"	0.72	0.94	0.44	0.10	---
20295	3/8" x 3/8"	0.78	1.03	0.50	0.14	---
20296	1/2" x 3/8"	1.09	1.10	0.73	0.16	---

* Barstock

1269 169P 269P

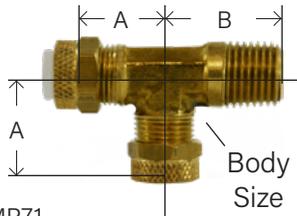
FLARELESS

BRASS FITTINGS

FEMALE ELBOWMP70
270PF

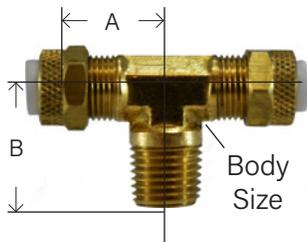
PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20302	1/4" x 1/8"	0.62	0.75	0.37	0.08	---
20303	1/4" x 1/4"	0.72	0.88	0.50	0.10	---
20304	3/8" x 1/4"	0.72	0.88	0.50	0.12	---

1270 170P 270P

MALE RUN TEEMP71
271PF

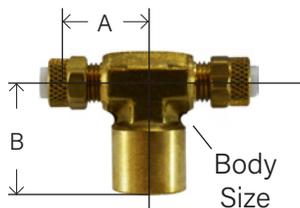
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20310	1/4" x 1/8"	0.62	0.75	0.37	0.08	---
20311	1/4" x 1/4"	0.66	0.94	0.37	0.10	---
20313	3/8" x 1/4"	0.66	0.94	0.44	0.10	---

1271 171P 271P

MALE BRANCH TEEMP72
272PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20319	1/4" x 1/8"	0.63	0.75	0.37	0.07	---
20320	1/4" x 1/4"	0.66	0.94	0.37	0.09	---
20322	3/8" x 1/8"	0.63	0.75	0.44	0.08	---
20323	3/8" x 1/4"	0.66	0.94	0.44	0.11	---
20324	1/2" x 3/8"	0.81	1.06	0.63	0.21	---

1272 172P 272P

FEMALE BRANCH TEEMP77
277PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20327	1/4" x 1/8"	0.66	0.94	0.37	0.12	---
20328	1/4" x 1/4"	0.84	1.16	0.56	0.16	---

1277 177P 277P

Dimension data can change without notice. Please check when dimensions are critical.

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

PUSH-IN/ PUSH-TO-CONNECT FITTINGS

BRASS PUSH-IN



NICKEL PLATED BRASS PUSH-IN



DOT COMPOSITE PUSH-IN



METRIC N/P BRASS PUSH-IN



COMPOSITE BODY PUSH-IN



COMPOSITE BODY METRIC PUSH-IN



FDA PLASTIC PUSH-IN



DOT BRASS PUSH-IN



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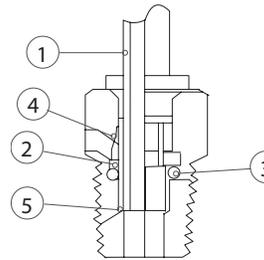
BRASS

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

BRASS PUSH-IN FITTINGS**ENGINEERING AND DESIGN**

- **QUICK CONNECT**, simply push tubing in, no tools. Saves up to 75% of assembly time of standard compression fittings.
- **QUICK DISCONNECT**, hold two fingers on insert and pull tubing out, no tools required.
- **REUSEABLE**, connect and disconnect numerous times.
- **FULL FLOW DESIGN**, provides up to 60% more flow area than conventional fittings with internal tube supports.
- **POSITIVE SEAL**, no leaks. After tubing is inserted, seal is made.
- **VERSATILE**, BunaN "O" rings standard. Other materials of "O" rings available.
- **SECURE TUBE RETENTION**, pulling on tubing only serves to tighten the connection.
- **SELF CONTAINED ASSEMBLY**, no loose parts, brass body and insert.
- **BRASS CONSTRUCTION**, elbows and tees are forged brass.
- **CHOICE** of convenient swivel of economical stationary elbows and tees.
- **STRAIGHT CONNECTORS** have interior hex for Allen key tightening where space is limited...no need to use a wrench.
- **PRE-APPLIED TEFLON**® based pipe sealant on all male pipe threads, saving customer additional labor.
- **METRIC SIZES AVAILABLE**: Metric tube sizes from 2mm through 12mm in both standard NPT and metric pipe sizes are available on a special order basis.
- **WORKING TEMPERATURE**:
-100F to 2000F (other ranges available on request).
- **PIPE THREAD**: NPTF with Teflon® based sealant pre-applied.



When tubing (1) is inserted into the fitting, it first passes through the gripping teeth (2). Just beyond the gripping teeth is the o-ring (3) which provides the leak proof seal against the OD of the tube. The gripping teeth grab the tube, which expands the insert. Pulling back on the tube only tightens the grip as the insert moves onto the camming surface (4). Pressure through the tube also serves to tighten the grip. The tube bottoms against a positive tube stop (5) in a cavity providing tube support to prevent leakage.

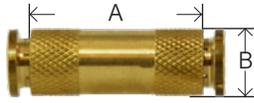
- **Tolerance**
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

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BRASS PUSH-IN FITTINGS

BRASS FITTINGS

Union Connector

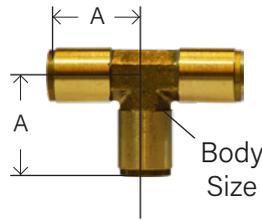


AQ62P
MQ62

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20017	1/8"	1.07	0.38	0.03	---
20018	5/32"	1.07	0.38	0.03	---
20019	1/4"	1.50	0.44	0.05	---
20001	3/16"				
20022	3/8" x 1/4"	1.46	0.56	0.05	---
20015	5/16"				
20020	3/8"	1.44	0.56	0.06	---
20021	1/2"	1.63	0.81	0.18	---

AQ62 6580 3106 62PL KQH 12-020 50-562 262-OF 1162 262PP

UNION TEE



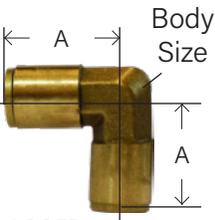
AQ64P
MQ64

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20025	1/8"	0.65	0.31	0.04	---
20026	5/32"	0.67	0.31	0.04	---
20027	3/16"	0.75	0.37	0.06	---
20028	1/4"	0.92	0.37	0.09	---
20031*	5/16"	0.89	0.49	0.10	---
20029	3/8"	0.98	0.50	0.13	---
20030	1/2"	1.16	0.62	0.24	---

* Nickel Plated

KQT 12-060 50-564 264OF 264PP 1164 AQ64 6540 3140 164PL

UNION ELBOW

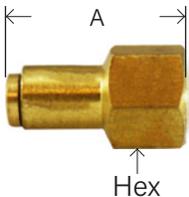


AQ65P
MQ65

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20150	1/8"	0.65	0.31	0.02	---
20151	5/32"	0.67	0.31	0.04	---
20152	1/4"	0.87	0.37	0.06	---
20153	3/8"	0.97	0.50	0.09	---
20154	1/2"	1.15	0.62	0.18	---

AQ65 6550 3102 165PL KQL 12-040 50-565 265-OF

FEMALE CONNECTOR



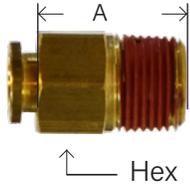
AQ66P

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20032	1/8" x 1/8"	0.96	0.56	0.04	---
20038	1/8" x 1/4"	1.04	0.67	0.04	---
20012	5/32" x 1/8"	1.09	0.56	0.05	---
20034	1/4" x 1/8"	1.23	0.56	0.06	---
20035	1/4" x 1/4"	1.42	0.75	0.09	---
20036	3/8" x 1/4"	1.32	0.75	0.09	---
20037	3/8" x 3/8"	1.31	0.87	0.12	---

266PP AQ66 6463 3114 66PL 12-426 50-566 266-OF 1166

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

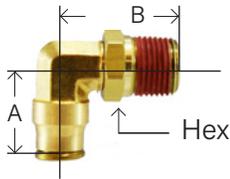
MALE CONNECTOR

AQ68P
MQ68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20045	1/8" x 1/16"	0.68	0.37	0.02	---
20048	1/8" x 1/8"	0.61	0.43	0.02	---
20023	1/8" x 1/4"	0.98	0.56	0.04	---
20049*	5/32" x 10-32"*	0.67	0.37	0.02	---
20050	5/32" x 1/8"	0.67	0.43	0.03	---
20046	5/32" x 1/4"	0.85	0.56	0.05	---
20051*	3/16" x 10-32"*	0.80	0.37	0.02	---
20052	3/16" x 1/8"	0.93	0.43	0.03	---
20053*	1/4" x 10-32"*	0.70	0.43	0.03	---
20039	1/4" x 1/16"	0.92	0.43	0.06	---
20054	1/4" x 1/8"	0.93	0.43	0.06	---
20055	1/4" x 1/4"	0.93	0.56	0.10	---
20056	1/4" x 3/8"	0.94	0.68	0.08	---
20530	5/16" x 1/8"	1.07	0.56	0.05	---
20531	5/16" x 1/4"	0.98	0.56	0.10	---
20532	5/16" x 3/8"	1.06	0.75	0.08	---
20057	3/8" x 1/8"	1.10	0.56	0.06	---
20058	3/8" x 1/4"	1.11	0.56	0.05	---
20059	3/8" x 3/8"	1.02	0.68	0.08	---
20062	3/8" x 1/2"	1.02	0.87	0.08	---
20060	1/2" x 1/4"	1.36	0.81	0.11	---
20061	1/2" x 3/8"	1.30	0.81	0.12	---
20063	1/2" x 1/2"	1.23	0.87	0.14	---

* Furnished with gaskets

268PP AQ68 6510 3115 68PL KQH 12-425 50-568 268-OF 1168

SWIVEL MALE ELBOW

AQ69PS
MQ69S

* Nickel Plated

** Furnished with gaskets

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20079	1/8" x 1/8"	0.69	0.98	0.43	0.07	---
20535*	1/8" x 1/4"	0.76	0.87	0.56	0.06	---
20076**	5/32" x 10-32"	0.67	0.71	0.37	0.04	---
20080	5/32" x 1/8"	0.68	0.89	0.43	0.05	---
20077	5/32" x 1/4"	0.68	1.08	0.56	0.07	---
20078**	1/4" x 10-32"	0.86	0.79	0.31	0.05	---
20081	1/4" x 1/8"	0.90	0.93	0.37	0.08	---
20082	1/4" x 1/4"	0.90	0.99	0.56	0.10	---
20086	1/4" x 3/8"	0.98	1.14	0.68	0.09	---
20538*	5/16" x 1/4"	0.91	0.85	0.56	0.07	---
20539*	5/16" x 3/8"	0.91	0.87	0.75	0.08	---
20087	3/8" x 1/8"	1.00	1.06	0.43	0.09	---
20083	3/8" x 1/4"	0.99	1.15	0.56	0.10	---
20084	3/8" x 3/8"	1.00	1.24	0.68	0.20	---
20088	3/8" x 1/2"	1.00	1.54	0.87	0.19	---
20085	1/2" x 3/8"	1.16	1.34	0.68	0.18	---
20092	1/2" x 1/2"	1.16	1.51	0.87	0.24	---

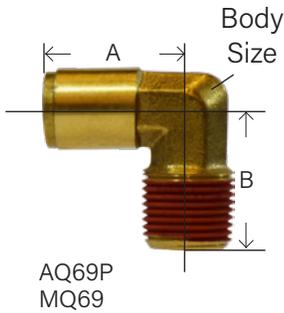
aq69-ps 56520 3109 169pl kql 12-447 50-579 269-OF5 11695

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS PUSH-IN FITTINGS

BRASS FITTINGS

FIXED MALE ELBOW

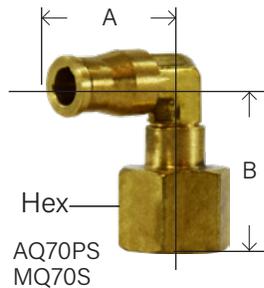


Dimension data can change without notice. Please check when dimensions are critical.

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20065	1/8" x 1/8"	0.69	0.69	0.31	0.03	---
20066	5/32" x 1/8"	0.68	0.68	0.31	0.03	---
20067	3/16" x 1/8"	0.75	0.71	0.37	0.04	---
20068	1/4" x 1/8"	0.89	0.75	0.37	0.06	---
20069	1/4" x 1/4"	0.95	0.96	0.37	0.08	---
20070	1/4" x 3/8"	1.00	0.98	0.50	0.10	---
20072	3/8" x 1/4"	0.98	0.98	0.50	0.09	---
20073	3/8" x 3/8"	0.97	0.98	0.50	0.12	---
20074	1/2" x 1/4"	1.15	1.05	0.62	0.15	---
20075	1/2" x 3/8"	1.18	1.05	0.62	0.22	---
20064	1/2" x 1/2"	1.16	1.66	0.62	0.20	---

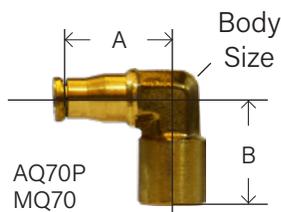
269PP AQ69-P 6500 169PLNS 12-445 1169

FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	LIST PRICE
20089S	1/4" x 1/8"	0.98	1.08	0.56	---
20090S	1/4" x 1/4"	0.98	1.26	0.75	---

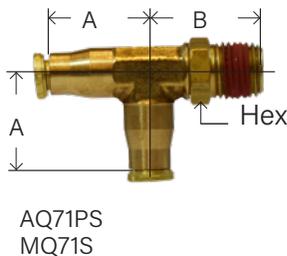
FEMALE ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20192	1/8" x 1/8"	0.78	0.82	0.31	0.02	---
20089	1/4" x 1/8"	0.91	0.75	0.37	0.06	---
20090	1/4" x 1/4"	1.03	1.03	0.50	0.11	---
20091	3/8" x 1/4"	0.98	0.95	0.50	0.16	---

AQ70-P 3009

SWIVEL MALE RUN TEE

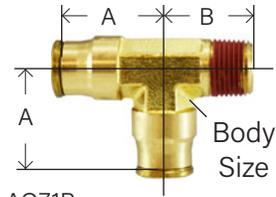


PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20161	5/32" x 1/8"	0.67	1.04	0.43	0.09	---
20162	1/4" x 1/8"	0.92	1.04	0.44	0.09	---
20163	1/4" x 1/4"	0.92	1.13	0.56	0.11	---
20164	3/8" x 1/4"	0.94	1.19	0.56	0.11	---
20165	3/8" x 3/8"	0.96	1.24	0.50	0.12	---
20166	1/2" x 3/8"	1.14	1.31	0.68	0.14	---
20167	1/2" x 1/2"	1.14	1.61	0.87	0.16	---
20168	1/4" x 3/8"					

AQ71-PS 56440 3103 171PL KQY 12-468 50-571 271-OFS 11715

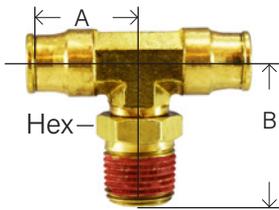
BRASS PUSH-IN FITTINGS

BRASS FITTINGS

FIXED MALE RUN TEEAQ71P
MQ71

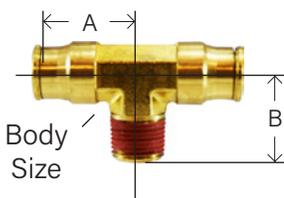
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20095	1/8" x 1/8"	0.65	0.72	0.31	0.04	---
20098	1/4" x 1/8"	0.92	0.74	0.37	0.08	---
20093	1/4" x 1/4"	0.92	0.92	0.43	0.10	---
20099	3/8" x 1/8"	0.94	0.82	0.50	0.14	---
20100	3/8" x 1/4"	0.98	0.98	0.50	0.12	---
20101	3/8" x 3/8"	1.05	1.05	0.62	0.10	---
20102	1/2" x 3/8"	1.14	1.05	0.62	0.18	---

AQ71-P

SWIVEL MALE BRANCH TEEAQ72PS
MQ72S

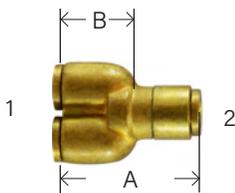
PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20103	1/8" x 1/8"	0.65	0.81	0.31	0.04	---
20104*	5/32" x 10-32"*	0.65	0.71	0.31	0.04	---
20109	5/32" x 1/8"	0.67	0.94	0.37	0.06	---
20105	1/4" x 1/8"	0.92	0.97	0.43	0.08	---
20106	1/4" x 1/4"	0.92	1.09	0.55	0.10	---
20107	3/8" x 1/4"	0.96	1.14	0.56	0.18	---
20108	3/8" x 3/8"	0.96	1.23	0.69	0.16	---
20110	1/2" x 3/8"	1.16	1.34	0.69	0.24	---
20111	1/2" x 1/2"	1.16	1.64	0.87	0.28	---

* Furnished with gaskets

FIXED MALE BRANCH TEEAQ72P
MQ72

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20113	5/32" x 1/8"	0.69	0.65	0.31	0.04	---
20115	1/4" x 1/8"	0.92	0.74	0.37	0.12	---
20116	1/4" x 1/4"	0.91	0.91	0.43	0.10	---
20117	3/8" x 1/8"	0.98	0.80	0.50	0.08	---
20118	3/8" x 1/4"	0.98	0.97	0.50	0.12	---
20119	3/8" x 3/8"	0.98	0.97	0.50	0.14	---
20120	1/2" x 3/8"	1.16	1.05	0.62	0.18	---

AQ72-P

UNION "Y"

AQ89P

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.	LIST PRICE
20551	5/32" x 5/32"	1.36	0.81	0.11	---
20552	1/4" x 1/8"	1.61	1.06	0.12	---
20553	1/4" x 1/4"	1.81	1.16	0.14	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

NICKEL PLATED PUSH-IN FITTINGS WITH GLOBAL THREAD

• NPTF • BSPP • BSPT • ISO 7 • ISO 228 • G THREAD • J THREAD



- Saves time and money
- No stripped threads
- No stripped parts
- Reduce inventory

- Completely reusable
- Quick installation
- No pitch identification

Component Parts and Materials	
Body	Brass - Nickel Plated
Thrust Ring	Acetalic Resin/ Glass filled Nylon
Sleeve	Brass - Nickel Plated
Gripper Collet	Stainless Steel
Safety Ring	PA66
Lip Seal (1/8 O-Ring Seal)	NBR 70
Thread Seal	NBR 70

Max Operating Pressure: Vacuum to 290PSI.
Min Temperature: -4°F
Max Temperature: 176°F
Tubing: Nylon, Polyethylene, Polyurethane.
- For best results use 95 Durometer
Media: Compressed air, water, vacuum

- Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

GLOBAL THREAD Works With Inch or Metric Threads



“Global Thread” fittings can be assembled with female threads produced to the following standards:

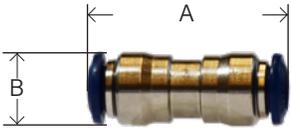
Tapered NPTF
Parallel (BSPP, BSP, ISO 7)
Tapered (BSPT, PT, ISO 7, ISO 228)

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

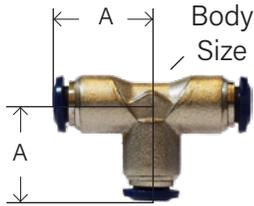
NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

NICKEL PLATED PUSH-IN FITTINGS**UNION CONNECTOR**

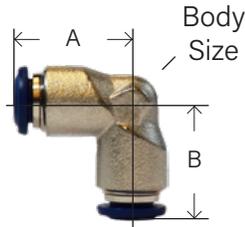
PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20017N	1/8"	1.06	0.34	0.03	---
20018N	5/32"	1.20	0.41	0.03	---
20016N	5/32" x 1/4"	1.20	0.40	0.04	---
20019N	1/4"	1.38	0.49	0.05	---
20015N	5/16"	1.46	0.57	0.06	---
20020N	3/8"	1.69	0.69	0.06	---
20022N	3/8" x 1/4"	1.69	0.68	0.06	---
20021N	1/2"	1.93	0.81	0.18	---
20024N	1/2" x 3/8"	1.84	0.80	0.17	---

62PL 88040

UNION TEE

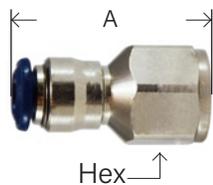
PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20025N	1/8"	0.67	0.35	0.04	---
20026N	5/32"	0.67	0.35	0.04	---
20028N	1/4"	0.83	0.43	0.09	---
20031N	5/16"	0.87	0.51	0.10	---
20029N	3/8"	1.04	0.63	0.13	---
20030N	1/2"	1.20	0.74	0.24	---

164PL 88230

UNION ELBOW

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20150N	1/8"	0.67	0.35	0.02	---
20151N	5/32"	0.67	0.35	0.04	---
20152N	1/4"	0.83	0.43	0.06	---
20155N	5/16"	0.87	0.51	0.08	---
20153N	3/8"	1.04	0.63	0.09	---
20154N	1/2"	1.20	0.75	0.18	---

165PL 88130

FEMALE CONNECTOR

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
20032N	1/8" x 1/8"	0.93	0.51	0.04	---
20038N	1/8" x 1/4"	1.14	0.63	0.04	---
20034N	1/4" x 1/8"	1.06	0.51	0.06	---
20035N	1/4" x 1/4"	1.26	0.63	0.09	---
20036N	3/8" x 1/4"	1.38	0.71	0.09	---
20037N	3/8" x 3/8"	1.38	0.79	0.12	---

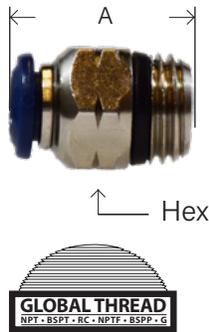
66PL 88030

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

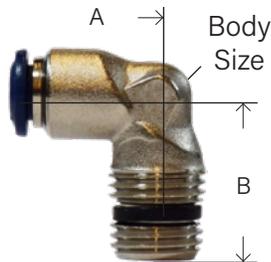
BRASS FITTINGS

MALE CONNECTOR



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.	LIST PRICE
20047N	1/8" x 10-32"	0.75	0.31	0.02	---
20048N	1/8" x 1/8"	0.77	0.43	0.02	---
20023N	1/8" x 1/4"	0.97	0.55	0.04	---
20049N*	5/32" x 10-32"	0.83	0.39	0.02	---
20050N*	5/32" x 1/8"	0.83	0.43	0.03	---
20046N*	5/32" x 1/4"	0.98	0.55	0.05	---
20053N*	1/4" x 10-32"	0.97	0.51	0.03	---
20054N*	1/4" x 1/8"	0.98	0.51	0.06	---
20055N*	1/4" x 1/4"	0.98	0.55	0.10	---
20056N	1/4" x 3/8"	0.98	0.71	0.08	---
20530N*	5/16" x 1/8"	0.98	0.55	0.05	---
20531N*	5/16" x 1/4"	1.08	0.55	0.10	---
20532N	5/16" x 3/8"	1.08	0.71	0.08	---
20057N	3/8" x 1/8"	1.38	0.67	0.06	---
20058N*	3/8" x 1/4"	1.32	0.67	0.05	---
20059N*	3/8" x 3/8"	1.32	0.71	0.08	---
20062N	3/8" x 1/2"	1.32	0.87	0.08	---
20841N	1/2" x 1/8"	1.03	0.79	0.12	---
20060N	1/2" x 1/4"	1.54	0.79	0.11	---
20061N*	1/2" x 3/8"	1.42	0.79	0.12	---
20063N*	1/2" x 1/2"	1.58	0.87	0.14	---

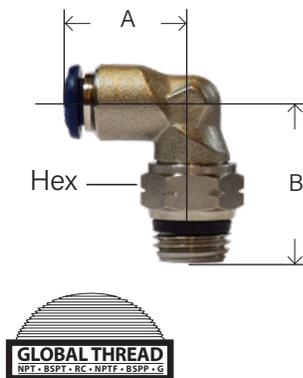
FIXED MALE ELBOW



PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
20068N	1/4" x 1/8"	0.83	0.73	0.43	0.06	---
20069N	1/4" x 1/4"	0.83	0.91	0.43	0.08	---
20072N	3/8" x 1/4"	1.04	1.04	0.63	0.09	---
20073N	3/8" x 3/8"	1.04	1.00	0.63	0.12	---

W169PLNS 8100

SWIVEL MALE ELBOW



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20079N	1/8" x 1/8"	0.67	0.78	0.51	0.07	---
20535N	1/8" x 1/4"	0.67	0.95	0.59	0.06	---
20076N*	5/32" x 10-32"	0.67	0.95	0.59	0.04	---
20080N*	5/32" x 1/8"	0.67	0.79	0.51	0.05	---
20848N*	5/32" x 1/4"	0.67	1.00	0.59	0.05	---
20081N*	1/4" x 1/8"	0.83	0.87	0.51	0.08	---
20082N*	1/4" x 1/4"	0.83	0.98	0.59	0.10	---
20086N	1/4" x 3/8"	0.83	1.10	0.67	0.09	---
20537N*	5/16" x 1/8"	0.91	0.98	0.51	0.06	---
20538N*	5/16" x 1/4"	0.89	1.02	0.59	0.07	---
20539N	5/16" x 3/8"	0.87	1.10	0.67	0.08	---
20087N	3/8" x 1/8"	1.04	1.02	0.51	0.09	---
20083N*	3/8" x 1/4"	1.04	1.10	0.59	0.10	---
20084N*	3/8" x 3/8"	1.04	1.18	0.67	0.20	---
20088N*	3/8" x 1/2"	1.04	1.30	0.83	0.19	---
20184N	1/2" x 1/4"	1.24	1.30	0.59	0.17	---
20085N*	1/2" x 3/8"	1.20	1.24	0.59	0.18	---
20092N*	1/2" x 1/2"	1.20	1.42	0.83	0.24	---

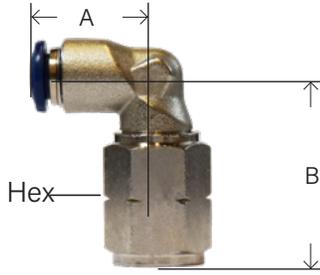
W169PL 87110

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

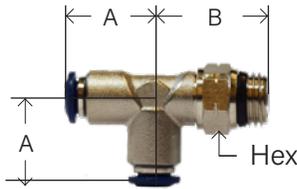
BRASS FITTINGS

FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX	LIST PRICE
20094N	5/32" x 1/8"	0.669	0.994	0.354	---
20089N	1/4" x 1/8"	0.826	1.023	0.433	---
20762N	3/8" x 1/8"	0.885	1.082	0.511	---
20091N	3/8" x 1/4"	0.885	1.240	0.511	---

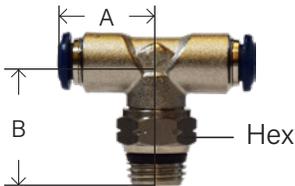
SWIVEL MALE RUN TEE



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20162N	1/4" x 1/8"	0.83	0.87	0.51	0.09	---
20163N	1/4" x 1/4"	0.83	0.98	0.59	0.11	---
20168N	3/8" x 1/4"	1.04	1.10	0.59	0.12	---
20165N	3/8" x 3/8"	1.04	1.18	0.67	0.12	---
20166N	1/2" x 3/8"	1.20	1.30	0.67	0.14	---
20167N	1/2" x 1/2"	1.20	1.42	0.83	0.17	---

W171PL 87222

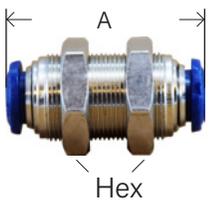
SWIVEL MALE BRANCH TEE



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
20103N	1/8" x 1/8"	0.67	0.78	0.51	0.04	---
20109N	5/32" x 1/8"	0.70	0.79	0.51	0.06	---
20105N	1/4" x 1/8"	0.83	0.87	0.51	0.08	---
20106N	1/4" x 1/4"	0.83	0.98	0.59	0.10	---
20156N	1/4" x 3/8"	1.043	1.10	0.59	0.18	---
20157N	3/8" x 1/8"	1.04	1.08	0.59	0.18	---
20107N	3/8" x 1/4"	1.04	1.10	0.59	0.18	---
20108N	3/8" x 3/8"	1.04	1.18	0.67	0.16	---
20158N	3/8" x 1/2"	1.04	1.30	0.82	0.18	---
20110N	1/2" x 3/8"	1.20	1.30	0.67	0.24	---
20111N	1/2" x 1/2"	1.20	1.42	0.82	0.28	---

W172PL 87210

BULKHEAD UNION



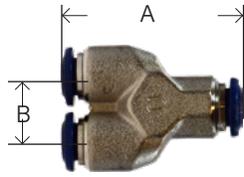
PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
20124N	1/8"	1.03	0.55	0.04	---
20125N*	5/32"	1.22	0.67	0.05	---
20127N*	1/4"	1.38	0.67	0.06	---
20123N*	5/16"	1.45	0.74	0.08	---
20128N*	3/8"	1.69	0.94	0.13	---
20129N*	1/2"	1.93	1.02	0.15	---

62PLBH 88050

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

UNION "Y"



PART #	TUBE O.D.	A	B	APPROX. WT. LBS.	LIST PRICE
20553N	1/4" x 1/4"	1.44	0.53	0.14	---

662PL 88310

REDUCER



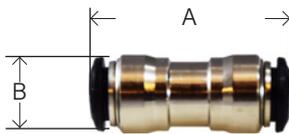
PART #	TUBE O.D. 2	TUBE O.D. 1	A	LIST PRICE
20510N	1/4"	1/8"	1.142	---
20511N	1/4"	5/32"	1.181	---
20512N	3/8"	1/4"	1.496	---
20513N	1/2"	1/4"	1.693	---
20514N	1/2"	3/8"	1.693	---

67PPL 88700

Also available: Nylon plug || Single banjo || Double banjo || Push fit cartridges and tools

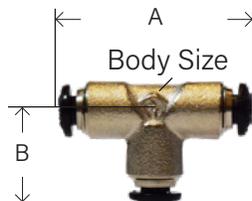
NICKEL PLATED METRIC PUSH-IN FITTINGS

UNION



PART #	TUBE O.D. (MM)	TUBE O.D. (MM)	A	B	LIST PRICE
20600N	4		1.190	0.410	---
20724N	5		1.287	0.449	---
20725N	6	4	1.248	0.488	---
20601N	6		1.326	0.488	---
20726N	8	6	1.365	0.566	---
20727N	8		1.404	0.566	---
20728N	10	8	1.638	0.683	---
20603N	10		1.638	0.683	---
20729N	12	10	1.833	0.800	---
20604N	12		1.833	0.800	---
20730N	14		1.911	0.839	---

UNION TEE



PART #	TUBE O.D. (MM)	A	B	BODY SIZE	LIST PRICE
20610N	4	1.326	0.663	0.351	---
20611N	6	1.638	0.819	0.429	---
20612N	8	1.755	0.878	0.507	---
20613N	10	2.067	1.034	0.624	---
20614N	12	2.379	1.190	0.741	---
20743N	14	2.379	2.535	0.741	---

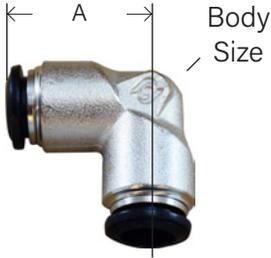
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



NICKEL PLATED METRIC PUSH-IN FITTINGS

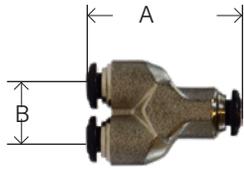
BRASS FITTINGS

UNION ELBOW



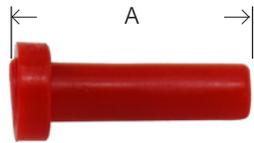
PART #	TUBE O.D. (MM)	A	BODY SIZE	LIST PRICE
20206N	4	0.663	0.351	---
20660N	6	0.780	0.429	---
20661N	8	0.878	0.507	---
20807N	10	1.034	0.624	---
20808N	12	1.190	0.741	---

UNION Y



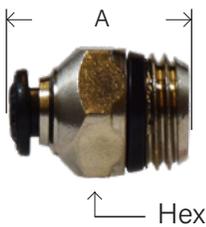
PART #	TUBE O.D. (MM)	B	A	LIST PRICE
20813N	4	0.429	1.248	---
20814N	6	0.527	1.424	---
20815N	8	0.605	1.599	---
20746N	10	0.728	1.890	---

PLUG



PART #	TUBE O.D. (MM)	A	LIST PRICE
20748N	4	0.917	---
20749N	5	0.956	---
20750N	6	0.956	---
20751N	8	1.014	---
20752N	10	1.112	---
20753N	12	1.190	---

METRIC TUBE STRAIGHT MALE



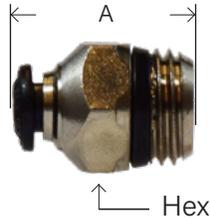
PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	LIST PRICE
20630N*	4	1/8"	0.702	0.429	---
20631N*	4	1/4"	0.760	0.546	---
20700N	5	1/8"	0.78	0.429	---
20701N	5	1/4"	0.78	0.546	---
20632N*	6	1/8"	0.78	0.546	---
20633N*	6	1/4"	0.819	0.546	---
20628N	6	3/8"	0.90	0.546	---
20629N	6	1/2"	0.92	0.546	---
20702N*	8	1/8"	0.955	0.546	---
20634N*	8	1/4"	0.858	0.546	---
20635N	8	3/8"	0.897	0.663	---
20703N	8	1/2"	0.897	0.663	---
20636N*	10	1/4"	1.092	0.663	---
20637N*	10	3/8"	1.092	0.663	---
20704N*	10	1/2"	1.014	0.663	---
20801N	12	1/4"	1.267	0.78	---
20638N*	12	3/8"	1.267	0.78	---
20705N*	12	1/2"	1.209	0.78	---
20706N	14	3/8"	1.287	0.858	---
20707N	14	1/2"	1.248	0.858	---

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NICKEL PLATED METRIC PUSH-IN FITTINGS

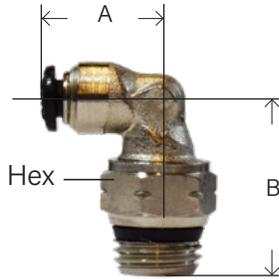
BRASS FITTINGS

METRIC TUBE INTERNAL HEX



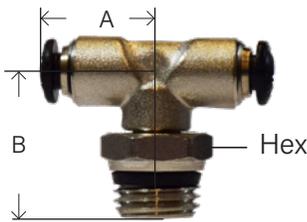
PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX	LIST PRICE
20623N	6	1/4"	0.83	0.55	---
20624N	6	1/8"	0.85	0.47	---
20625N*	6	M5	0.47	0.47	---
20626N	8	1/4"	0.88	0.55	---

METRIC TUBE SWIVEL MALE ELBOW



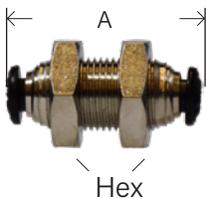
PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
20708N*	4	1/8"	0.663	0.780	0.507	---
20709N*	4	1/4"	0.663	0.936	0.585	---
20710N	5	1/8"	0.780	0.858	0.507	---
20642N*	6	1/8"	0.819	0.858	0.507	---
20803N*	6	1/4"	0.819	0.975	0.585	---
20711N*	8	1/8"	0.878	0.917	0.507	---
20805N*	8	1/4"	0.878	1.014	0.585	---
20655N	8	3/8"	0.878	1.092	0.663	---
20712N	8	1/2"	0.878	1.404	0.819	---
20656N*	10	1/4"	1.034	1.092	0.585	---
20657N*	10	3/8"	1.034	1.170	0.663	---
20713N*	10	1/2"	1.034	1.287	0.819	---
20658N*	12	3/8"	1.190	1.287	0.663	---
20659N*	12	1/2"	1.190	1.404	0.819	---
20714N	14	3/8"	1.268	1.404	0.663	---
20715N	14	1/2"	1.268	1.443	0.819	---

METRIC TUBE SWIVEL MALE BRANCH TEE



PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX	LIST PRICE
20682N*	6	1/8"	0.819	0.858	0.507	---
20683N*	6	1/4"	0.819	0.975	0.585	---
20809N*	8	1/8"	0.877	0.917	0.507	---
20684N*	8	1/4"	0.877	1.014	0.585	---
20686N*	10	1/4"	1.033	1.092	0.585	---

BULKHEAD



PART #	TUBE O.D. (MM)	M	A	HEX	LIST PRICE
20732N	4	M12x1	1.229	0.663	---
20734N	6	M14x1	1.365	0.663	---
20735N	8	M16x1	1.443	0.741	---

NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

Union W/ Nickel Collet



PART #	PTC	LIST
20017NIC	1/8	
20018NIC	5/32	
20019NIC	1/4	
20015NIC	5/16	
20020NIC	3/8	
20021NIC	1/2	

Union Tee W/ Nickel Collet



PART #	PTC X FPT	LIST
20025NIC	1/8	
20026NIC	5/32	
20028NIC	1/4	
20029NIC	3/8	
20030NIC	1/2	

90° Union Elbow W/ Nickel Collet



PART #	PTC	LIST
20150NIC	1/8	
20151NIC	5/32	
20152NIC	1/4	
20155NIC	5/16	
20153NIC	3/8	
20154NIC	1/2	

Female Adapter W/ Nickel Collet



PART #	PTC X FPT	LIST
20032NIC	1/8 x 1/8	
20034NIC	1/4 x 1/8	
20035NIC	1/4 x 1/4	
20036NIC	3/8 x 1/4	
20037NIC	3/8 x 3/8	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

Male Adapter W/ Nickel Collet



PART #	PTC X MPT	LIST
20047NIC	1/8 x 10-32	
20048NIC	1/8 x 1/8	
20023NIC	1/8 x 1/4	
20049NIC	5/32 x 10-32	
20050NIC	5/32 x 1/8	
20046NIC	5/32 x 1/4	
20053NIC	1/4 x 10-32	
20054NIC	1/4 x 1/8	
20055NIC	1/4 x 1/4	
20056NIC	1/4 x 3/8	
20530NIC	5/16 x 1/8	
20531NIC	5/16 x 1/4	
20532NIC	5/16 x 3/8	
20057NIC	3/8 x 1/8	
20058NIC	3/8 x 1/4	
20059NIC	3/8 x 3/8	
20062NIC	3/8 x 1/2	
20060NIC	1/2 x 1/4	
20061NIC	1/2 x 3/8	
20063NIC	1/2 x 1/2	

90° Male Elbow Swivel W/ Nickel Collet



PART #	PTC X MPT	LIST
20079NIC	1/8 x 1/8	
20535NIC	1/8 x 1/4	
20076NIC	5/32 x 10-32	
20080NIC	5/32 x 1/8	
20081NIC	1/4 x 1/8	
20082NIC	1/4 x 1/4	
20086NIC	1/4 x 3/8	
20538NIC	5/16 x 1/4	
20539NIC	5/16 x 3/8	
20087NIC	3/8 x 1/8	
20083NIC	3/8 x 1/4	
20084NIC	3/8 x 3/8	
20088NIC	3/8 x 1/2	
20184NIC	1/2 x 1/4	
20085NIC	1/2 x 3/8	
20092NIC	1/2 x 1/2	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

Male Run Tee Swivel W/ Nickel Collet

PART #	PTC X MPT	LIST
20160NIC	1/8 x 1/8	
20162NIC	1/4 x 1/8	
20163NIC	1/4 x 1/4	
20164NIC	3/8 x 1/4	

Male Branch Tee Swivel W/ Nickel Collet

PART #	PTC X MPT	LIST
20103NIC	1/8 x 1/8	
20105NIC	1/4 x 1/8	
20106NIC	1/4 x 1/4	
20107NIC	3/8 x 1/4	
20108NIC	3/8 x 3/8	

Bulkhead Union W/ Nickel Collet

PART #	PTC	LIST
20125NIC	5/32	
20127NIC	1/4	
20123NIC	5/16	
20128NIC	3/8	
20129NIC	1/2	

METRIC N/P W/NICKEL COLLET**METRIC Union W/ Nickel Collet**

PART #	PTC	LIST
20600NIC	4MM	
20601NIC	6MM	
20727NIC	8MM	
20603NIC	10MM	
20604NIC	12MM	

METRIC Union Tee W/ Nickel Collet

PART #	PTC	LIST
20611NIC	6MM	
20612NIC	8MM	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



NICKEL PLATED WITH NICKEL COLLET

BRASS FITTINGS

METRIC 90° Union Elbow W/ Nickel Collet



PART #	PTC	LIST
20206NIC	4MM	
20660NIC	6MM	
20661NIC	8MM	
20613NIC	10MM	
20614NIC	12MM	
20743NIC	14MM	

METRIC Male Connector W/ Nickel Collet



PART #	PTC X MALE BSPT	LIST
20630NIC	4MM x 1/8	
20631NIC	4MM x 1/4	
20632NIC	6MM x 1/8	
20633NIC	6MM x 1/4	
20702NIC	8MM x 1/8	
20634NIC	8MM x 1/4	
20635NIC	8MM x 3/8	
20636NIC	10MM x 1/4	
20637NIC	10MM x 3/8	
20801NIC	12MM x 1/4	

METRIC 90° Male Elbow Swivel W/ Nickel Collet



PART #	PTC X MALE BSPT	LIST
20710NIC	4MM x 1/8	
20709NIC	4MM x 1/4	
20859NIC	6MM x M5	
20642NIC	6MM x 1/8	
20803NIC	6MM x 1/4	
20702NIC	8MM x 1/8	
20634NIC	8MM x 1/4	
20635NIC	8MM x 3/8	
20656NIC	10MM x 1/4	
20657NIC	10MM x 3/8	

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BRASS

STAINLESS STEEL PUSH IN FITTINGS

BRASS FITTINGS

Union Stainless Steel



PART #	PTC	LIST
20019SS	1/4	
20015SS	5/16	
20020SS	3/8	
20021SS	1/2	

Union Tee Stainless Steel



PART #	PTC	LIST
20028SS	1/4	

90° Union Elbow Stainless Steel



PART #	PTC	LIST
20151SS	5/32	
20152SS	1/4	
20155SS	5/16	
20153SS	3/8	
20154SS	1/2	

Male Connector Stainless Steel



PART #	PTC X MPT	LIST
20054SS	1/4 x 1/8	
20055SS	1/4 x 1/4	
20056SS	1/4 x 3/8	
20058SS	3/8 x 1/4	
20059SS	3/8 x 3/8	
20060SS	1/2 x 1/4	
20061SS	1/2 x 3/8	
20063SS	1/2 x 1/2	

90° Male Elbow Swivel Stainless Steel



PART #	PTC X MPT	LIST
20081SS	1/4 x 1/8	
20082SS	1/4 x 1/4	
20086SS	1/4 x 3/8	
20538SS	5/16 x 1/4	
20087SS	3/8 x 1/8	
20083SS	3/8 x 1/4	
20084SS	3/8 x 3/8	
20092SS	1/2 x 1/2	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

COMPOSITE BODY PUSH-IN FITTINGS



SPECIFICATIONS	
Fluid admitted	Air
Working pressure range	0-150 PSI (10BAR)
Min. Burst pressure	340PSI (23BAR)
Working Temperature range	0°F ~160°F

MATERIALS OF CONSTRUCTION:		
1	Body	Composite Polyacetal (hemopolymer,copolymer)
2	Body	Brass
3	Tube Release	Acetal Resin
4	Retainer	Brass
5	Gripper Ring	Stainless Steel
6	Spacer	Brass
7	O-Ring	NBR 70
8	Threads	Brass w/ white sealant

The latest generation of composite material is used in the body construction in addition to brass on threaded components and stainless steel on the tube gripper.

- Tolerance
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical.

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

UNION

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20017C	1/8"	0.01	---
20018C	5/32"	0.01	---
20001C	3/16"	0.01	---
20019C	1/4"	0.01	---
20015C	5/16"	0.01	---
20020C	3/8"	0.02	---
20021C	1/2"	0.03	---
20016C	1/4" x 5/32"	0.01	---
20515C	5/16" x 1/4"	0.01	---
20022C	3/8" x 1/4"	0.01	---
20516C	3/8" x 5/16"	0.02	---
20024C	1/2" x 3/8"	0.03	---

PQ62P

UNION TEE

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20025C	1/8"	0.01	---
20026C	5/32"	0.01	---
20027C	3/16"	0.02	---
20028C	1/4"	0.02	---
20031C	5/16"	0.02	---
20029C	3/8"	0.02	---
20030C	1/2"	0.08	---

PQ64P

90° UNION ELBOW

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20150C	1/8"	0.01	---
20151C	5/32"	0.01	---
20149C	3/16"	0.01	---
20152C	1/4"	0.02	---
20155C	5/16"	0.02	---
20153C	3/8"	0.02	---
20154C	1/2"	0.02	---

PQ65P

UNION "Y" CONNECTOR

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20551C	5/32"	0.01	---
20553C	1/4"	0.02	---
20182C	5/16"	0.02	---
20555C	3/8"	0.02	---
20185C	1/2"	0.07	---

PQ89P

FEMALE CONNECTOR

• Brass



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
20034C	1/4" x 1/8"	0.02	---
20035C	1/4" x 1/4"	0.04	---
20036C	3/8" x 1/4"	0.04	---
20037C	3/8" x 3/8"	0.06	---

PQ66P

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COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

MALE CONNECTOR

- Nickel Plated



N/P push-in fittings

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20050C	5/32" x 1/8"	0.02	---
20053C	1/4" x 10-32"	0.02	---
20054C	1/4" x 1/8"	0.02	---
20055C	1/4" x 1/4"	0.02	---
20056C	1/4" x 3/8"	0.04	---
20530C	5/16" x 1/8"	0.05	---
20531C	5/16" x 1/4"	0.05	---
20057C	3/8" x 1/8"	0.05	---
20058C	3/8" x 1/4"	0.06	---
20059C	3/8" x 3/8"	0.06	---
20062C	3/8" x 1/2"	0.08	---
20060C	1/2" x 1/4"	0.06	---
20061C	1/2" x 3/8"	0.08	---
20063C	1/2" x 1/2"	0.10	---

PQ68P

SWIVEL MALE ELBOW

- Swivels for installation only.
- Not a live swivel



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20079C	1/8" x 1/8"	0.01	---
20535C*	1/8" x 1/4"	0.01	---
20517C*	3/16" x 1/4"	0.01	---
20080C*	5/32" x 1/8"	0.01	---
20077C*	5/32" x 1/4"	0.01	---
20049C*	5/32" x 10/32"	0.01	---
20078C	1/4" x 10-32	0.01	---
20081C	1/4" x 1/8"	0.02	---
20082C	1/4" x 1/4"	0.04	---
20086C	1/4" x 3/8"	0.06	---
20518C*	1/4" x 1/2"	0.07	---
20537C	5/16" x 1/8"	0.04	---
20538C	5/16" x 1/4"	0.04	---
20539C*	5/16" x 3/8"	0.06	---
20087C	3/8" x 1/8"	0.04	---
20083C	3/8" x 1/4"	0.08	---
20084C	3/8" x 3/8"	0.10	---
20088C	3/8" x 1/2"	0.12	---
20184C	1/2" x 1/4"	0.14	---
20085C	1/2" x 3/8"	0.16	---
20092C*	1/2" x 1/2"	0.18	---

PQ69PS

FEMALE SWIVEL ELBOWS



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
20090C	1/4 X 1/4	0.06	---
20091C	3/8 X 1/4	0.10	---

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BRASS

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

45° SWIVELS



PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20139C	1/4 X 1/8	0.04	---
20140C	1/4 X 1/4	0.05	---

SWIVEL MALE RUN TEE

- Swivels for installation only.
- Not a live swivel



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20160C*	1/8" x 1/8"	0.03	---
20162C	1/4" x 1/8"	0.04	---
20163C	1/4" x 1/4"	0.04	---
20099C	3/8" x 1/8"	0.06	---
20100C	3/8" x 1/4"	0.08	---
20166C	1/2 x 3/8	0.14	---
20167C	1/2 x 1/2	0.16	---

PQ71PS

SWIVEL MALE BRANCH TEE

- Swivels for installation only.
- Not a live swivel



* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20103C*	1/8" x 1/8"	0.02	---
20519C*	1/8" x 1/4"	0.03	---
20109C*	5/32" x 1/8"	0.02	---
20135C*	5/32" x 1/4"	0.03	---
20104C*	5/32" x 10/32"	0.03	---
20105C	1/4" x 1/8"	0.04	---
20106C	1/4" x 1/4"	0.06	---
20121C	1/4" x 3/8"	0.08	---
20136C*	5/16" x 1/8"	0.04	---
20137C*	5/16" x 1/4"	0.05	---
20832C*	5/16" x 3/8"	0.06	---
20107C	3/8" x 1/4"	0.10	---
20108C	3/8" x 3/8"	0.12	---
20158C*	3/8 X 1/2	0.14	---
20138C*	1/2 X 1/4	0.14	---
20110C	1/2 X 3/8	0.16	---
20111C	1/2 X 1/2	0.21	---

PQ72PS

BULKHEAD UNION



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20127C	1/4"	0.04	---
20128C	3/8"	0.06	---
20129C	1/2"	0.10	---

PQ82P

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

BULKHEAD FEMALES



PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.	LIST PRICE
20171C	1/4 X 1/4	0.04	---

SWIVEL "Y" CONNECTOR



PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20187C	1/4 X 1/8	0.02	---
20557C	1/4" x 1/4"	0.02	---
20188C	3/8 X 1/4	0.04	---
20189C	3/8 X 3/8	0.04	---
20194C	1/2 X 3/8	0.06	---
20195C	1/2 X 1/2	0.09	---

• Swivels for installation only. • Not a live swivel

PQ88PS

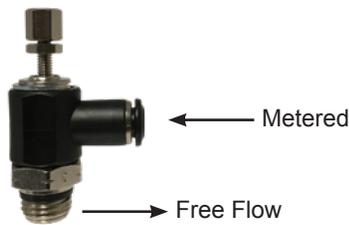
IN-LINE NEEDLE VALVE



PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
20487C	1/4"	0.04	---
20488C	5/16"	0.05	---
20489C	3/8"	0.06	---

PQ310C

RIGHT ANGLE FLOW CONTROL METER IN



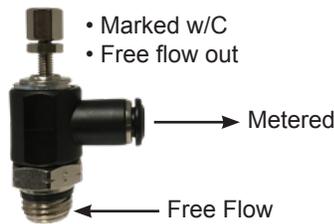
- Marked w/V
- Free flow out

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20727C	1/4 X 1/8	0.04	---
20728C	1/4" x 1/4"	0.04	---
20780C	3/8 X 1/4	0.06	---
20781C	3/8 X 3/8	0.06	---
20782C	1/2 X 1/2	0.10	---

• Free flow out

JPQ

RIGHT ANGLE FLOW CONTROL METER OUT



- Free flow in

- Marked w/C
- Free flow out

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.	LIST PRICE
20785C	1/4 x 1/8	0.04	---
20786C	1/4 x 1/4	0.04	---
20787C	3/8 x 1/4	0.06	---
20788C	3/8 x 3/8	0.06	---
20789C	1/2 x 1/2	0.10	---

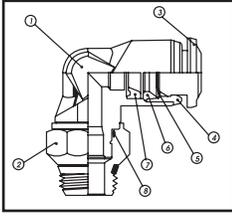
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

Technical Characteristics



PART 1	BODY	COMPOSITE
PART 2	BODY	NICKEL PLATED BRASS
PART 3	TUBE RELEASE	ACETAL RESIN
PART 4	RETAINER	NICKEL PLATED BRASS
PART 5	GRIPPER RING	STAINLESS STEEL
PART 6	SPACER	COMPOSITE
PART 7	THREAD PACKING	NBR 70
PART 8	O-RING	NBR 70
PART 9	THREAD SEAL	NBR70

Operating Range

Pressure: 0 to 220 PSI (15 bar)

Vacuum: 0 to 29hg (-.99 bar)

Temperature

-50 F to + 1750 F (-200 C to + 800 C)

Media

Compressed air.

Non-toxic fluids (water)

Materials

The latest generation of composite material is used in the body construction in addition to nickel-plated brass on threaded components and stainless steel on the tube gripper.

UNION



PART #	TUBE O.D. (MM)	LIST PRICE
20600	4	---
20601	6	---
20602	8	---
20603	10	---
20604	12	---

UNION TEE



PART #	TUBE O.D. (MM)	LIST PRICE
20610	4	---
20611	6	---
20612	8	---
20613	10	---
20614	12	---

3104

UNION ELBOW



PART #	TUBE O.D. (MM)	LIST PRICE
20806	4	---
20660	6	---
20661	8	---
20807	10	---
20808	12	---
20740	14	---

3102

MALE ADAPTER



PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20630	4	1/8"	---
20631	4	1/4"	---
20632	6	1/8"	---
20633	6	1/4"	---
20634	8	1/4"	---
20635	8	3/8"	---
20636	10	1/4"	---
20637	10	3/8"	---
20801	12	1/4"	---
20638	12	3/8"	---

3175

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METRIC COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

SWIVEL ELBOW



- * Global Thread
- BSPP Available

PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20690*	4	M5	---
20856*	4	1/8"	---
20855*	4	1/4"	---
20857*	5	1/8"	---
20859*	6	M5	---
20642	6	1/8"	---
20803	6	1/4"	---
20698*	6	3/8"	---
20699*	6	1/2"	---
20711*	8	1/8"	---
20805	8	1/4"	---
20655	8	3/8"	---
20656	10	1/4"	---
20657	10	3/8"	---
20790	12	1/4"	---
20658	12	3/8"	---
20659	12	1/2"	---

SWIVEL BRANCH TEE



- * Global Thread
- BSPP Available

PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20682	6	1/8"	---
20683	6	1/4"	---
20809	8	1/8"	---
20684	8	1/4"	---
20685	8	3/8"	---
20686	10	1/4"	---
20687	10	3/8"	---
20810	10	1/2"	---
20688	12	3/8"	---
20689	12	1/2"	---

SWIVEL RUN TEE



- * Global Thread
- BSPP Available

PART #	TUBE OD (MM)	BSPT THREAD	LIST PRICE
20672	6	1/8"	---
20673	6	1/4"	---
20811	8	1/8"	---
20674	8	1/4"	---
20676	10	1/4"	---
20677	10	3/8"	---

UNION WYE



PART #	TUBE OD (MM)	LIST PRICE
20813	4	---
20814	6	---
20815	8	---
20746	10	---

SWIVEL MALE WYE



- * Global Thread
- BSPP Available

PART #	TUBE OD (MM)	GLOBAL THREAD	LIST PRICE
20816	4	1/8"	---
20817*	6	1/8"	---
20818	6	1/4"	---
20820*	8	1/4"	---

D.O.T. PUSH-IN TUBE FITTINGS



Meets D.O.T. FMVSS 571.106 SAE J1131 Air Brake System Requirements

Benefits for Cost Savings & Engineering Project

- **Fast assembly:** No tools required. Simply push tubing in. Saves up to 75% of assembly time compared to standard air compression fittings. No loose parts to handle.
- **Fast disconnect:** Hold the collet collar with two fingers and pull out tube. No tools required.
- **Reusable:** Can be connected and disconnected several times.
- **Reliable sealing:** Using recommended tubing, full sealing is guaranteed.
- **Versatility:** Buna N O'ring standard. Viton and others available per request. Secure tube retention. Pulling on tubing only serves to tighten the connection.
- **Pre-Applied Teflon® based pipe sealant** on all male pipe threads, saving customer additional labor.
- **Full Flow Design,** provides more flow area than conventional fittings with internal tube supports even in the swivels.

DOT Fittings are constructed with an all brass captive eyelet which allows for maximum flow. The brass captive eyelet with extended length is floating and has a machined top end radius for easy installation of tubing. All male threads have a pre-applied Teflon® based pipe sealant to provide for easy assembly and leak proof seal.

- **Materials:**
 - Brass
 - "O" Ring: Buna - Nitrile (90 Durometer)
 - EP (Ethylene Propylene)
- **Working Pressures & Temperature Ranges**
 Vacuum to 150 PSI
 -40°F to 200° F (-40°C to +93°C)

Dimension data can change without notice. Please check when dimensions are critical.

D.O.T. PUSH-IN

BRASS FITTINGS

PLUG



AQ59DOT

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
595320	5/32"	0.01	---
590400	1/4"	0.02	---
590600	3/8"	0.02	---
590800	1/2"	0.04	---

1829 DQ59DOT 639PMT

UNION



AQ62DOT
DQ62

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
620532	5/32"	0.06	---
620400	1/4"	0.06	---
620600	3/8"	0.13	---
620604	3/8" x 1/4"	0.15	---
620800	1/2"	0.19	---
621000	5/8"	0.30	---
621200	3/4"	0.44	---

AQ62DOT 62PMT 1862 DQ62DOT

UNION TEE



AQ64DOT
DQ64

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
640400	1/4"	0.09	---
640600	3/8"	0.16	---
640800	1/2"	0.25	---
641000	5/8"	0.32	---
641200	3/4"	0.36	---

AQ64DOT 164PMT 1864 DQ64DOT

UNION ELBOW



AQ65DOT
DQ65

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
655320	5/32"	0.03	---
650400	1/4"	0.06	---
650600	3/8"	0.12	---
650800	1/2"	0.18	---

FEMALE CONNECTOR



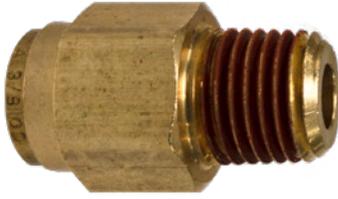
AQ66DOT
DQ66

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
660402	1/4" x 1/8"	0.06	---
660404	1/4" x 1/4"	0.10	---
660602	3/8" x 1/8"	0.11	---
660604	3/8" x 1/4"	0.11	---
660606	3/8" x 3/8"	0.17	---
660804	1/2" x 1/4"	0.14	---
660806	1/2" x 3/8"	0.16	---
660808	1/2" x 1/2"	0.25	---

AQ66DOT 66PMT 1866 DQ66DOT

D.O.T. PUSH-IN

BRASS FITTINGS

MALE CONNECTORAQ68DOT
DQ68

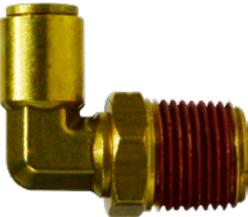
PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
685320	5/32" x 10/32"	0.02	---
685321	5/32" x 1/16"	0.02	---
685322	5/32" x 1/8"	0.02	---
680302	3/16" x 1/8"	0.02	---
680421	1/4" x 1/16"	0.02	---
680402	1/4" x 1/8"	0.03	---
680404	1/4" x 1/4"	0.04	---
680406	1/4" x 3/8"	0.07	---
680602	3/8" x 1/8"	0.06	---
680604	3/8" x 1/4"	0.07	---
680606	3/8" x 3/8"	0.06	---
680608	3/8" x 1/2"	0.13	---
680804	1/2" x 1/4"	0.11	---
680806	1/2" x 3/8"	0.12	---
680808	1/2" x 1/2"	0.14	---
681006	5/8" x 3/8"	0.18	---
681008	5/8" x 1/2"	0.18	---
681208	3/4" x 1/2"	0.20	---
681212	3/4" x 3/4"	0.20	---

AQ68DOT 68PM 1868 DQ68DOT 68PMT

MALE ELBOWForged
AQ69DOT
DQ69

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
695302	5/32" x 1/16"	0.03	---
695322	5/32" x 1/8"	0.03	---
690302	3/16" x 1/8"	0.03	---
690402	1/4" x 1/8"	0.08	---
690404	1/4" x 1/4"	0.06	---
690406	1/4" x 3/8"	0.11	---
690602	3/8" x 1/8"	0.08	---
690604	3/8" x 1/4"	0.09	---
690606	3/8" x 3/8"	0.11	---
690608	3/8" x 1/2"	0.20	---
690804	1/2" x 1/4"	0.22	---
690806	1/2" x 3/8"	0.22	---
690808	1/2" x 1/2"	0.24	---
691006	5/8" x 3/8"	0.30	---
691008	5/8" x 1/2"	0.32	---
691208	3/4" x 1/2"	0.32	---
691212	3/4" x 3/4"	0.34	---

AQ69DOT 169PMTNS 1869 DQ69DOT

MALE SWIVEL ELBOWForged
AQ62DOTS
DQ69S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
695322S	5/32" x 1/8"	0.07	---
690402S	1/4" x 1/8"	0.06	---
690404S	1/4" x 1/4"	0.10	---
690406S	1/4" x 3/8"	0.10	---
690602S	3/8" x 1/8"	0.10	---
690604S	3/8" x 1/4"	0.11	---
690606S	3/8" x 3/8"	0.12	---
690608S	3/8" x 1/2"	0.20	---
690804S	1/2" x 1/4"	0.16	---
690806S	1/2" x 3/8"	0.18	---
690808S	1/2" x 1/2"	0.26	---
691006S	5/8" x 3/8"	0.28	---
691008S	5/8" x 1/2"	0.30	---
691208S	3/4" x 1/2"	0.50	---
691212S	3/4" x 3/4"	0.56	---

AQ69DOTS 169PMT 1869 DQ69DOTS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. PUSH-IN

BRASS FITTINGS

FEMALE ELBOW



Forged
AQ70DOTS
DQ70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
700402	1/4" x 1/8"	0.06	---
700404	1/4" x 1/4"	0.10	---
700604	3/8" x 1/4"	0.12	---
700606	3/8" x 3/8"	0.17	---
700806	1/2" x 3/8"	0.26	---
700808	1/2" x 1/2"	0.30	---

AQ70DOTS 1870 DQ70DOTS 170PMTNS

FEMALE SWIVEL ELBOW



AQ70DOTS

PART #	TUBE O.D. X FEMALE NPTF	LIST PRICE
700404S	1/4" x 1/4"	---

MALE RUN TEE



Forged
AQ71DOT
DQ71

PART #	TUBE O.D. X MALE NPTF (1 X 3) X 2	APPROX. WT. LBS.	LIST PRICE
710402	1/4" x 1/8"	0.06	---
710404	1/4" x 1/4"	0.08	---
710604	3/8" x 1/4"	0.20	---
71060404	(3/8" x 1/4") x 1/4"	0.20	---
710606	3/8" x 3/8"	0.17	---
710806	1/2" x 3/8"	0.28	---

AQ71DOT 171PMTNS 1871 DQ71DOT

MALE SWIVEL RUN TEE



Forged
AQ71DOTS
DQ71S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
710402S	1/4" x 1/8"	0.09	---
710404S	1/4" x 1/4"	0.11	---
710604S	3/8" x 1/4"	0.15	---
710606S	3/8" x 3/8"	0.14	---
710804S	1/2" x 1/4"	0.24	---
710806S	1/2" x 3/8"	0.24	---
710808S	1/2" x 1/2"	0.30	---

AQ71DOTS 171PMT 1871 DQ71DOTS

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BRASS

BRASS FITTINGS

MALE 45° ELBOW



Forged
AQ54DOT
DQ54

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
540402	1/4" x 1/8"	0.06	---
540404	1/4" x 1/4"	0.06	---
540602	3/8" x 1/8"	0.08	---
540604	3/8" x 1/4"	0.09	---
540606	3/8" x 3/8"	0.11	---
540608	3/8" x 1/2"	0.15	---
540608S	3/8" x 1/2"		
540804	1/2" x 1/4"	0.13	---
540806	1/2" x 3/8"	0.16	---
540808	1/2" x 1/2"	0.18	---
541006	5/8" x 3/8"	0.22	---
541008	5/8" x 1/2"	0.21	---
541208	3/4" x 1/2"	0.28	---
541212	3/4" x 3/4"	0.32	---

AQ54DOT 179MTNS 1880 DQ54DOT

MALE 45° SWIVEL ELBOW



AQ54DOTS
DQ54S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
540402S	1/4" x 1/8"	0.06	---
540404S	1/4" x 1/4"	0.09	---
540602S	3/8" x 1/8"	0.10	---
540604S	3/8" x 1/4"	0.11	---
540606S	3/8" x 3/8"	0.13	---
540804S	1/2" x 1/4"	0.14	---
540806S	1/2" x 3/8"	0.16	---
540808S	1/2" x 1/2"	0.18	---
541008S	5/8" x 1/2"	0.24	---

AQ54DOTS 179PMT 1880 DQ54DOTS

MALE BRANCH TEE



Forged
AQ72DOT
DQ72

PART #	TUBE O.D. X MALE NPTF (1 X 2) X 3	APPROX. WT. LBS.	LIST PRICE
720302	3/16" x 1/8"	0.07	---
720402	1/4" x 1/8"	0.10	---
720404	1/4" x 1/4"	0.10	---
720604	3/8" x 1/4"	0.14	---
72060404	(3/8" x 1/4") x 1/4"	0.20	---
720606	3/8" x 3/8"	0.15	---
720804	1/2" x 1/4"	0.20	---
720806	1/2" x 3/8"	0.24	---
720808	1/2" x 1/2"	0.32	---

AQ72DOT 172PMTNS 1872 DQ72DOT

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BRASS FITTINGS

MALE SWIVEL BRANCH TEE

AQ72DOTS
DQ72S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
720402S	1/4" x 1/8"	0.12	---
720404S	1/4" x 1/4"	0.14	---
720602S	3/8" x 1/8"	0.19	---
720604S	3/8" x 1/4"	0.15	---
720606S	3/8" x 3/8"	0.17	---
720804S	1/2" x 1/4"	0.30	---
720806S	1/2" x 3/8"	0.34	---
720808S	1/2" x 1/2"	0.22	---

AQ72DOTS 172PMT 1872 DQ72DOTS

FEMALE BRANCH TEE

AQ77DOT
DQ77

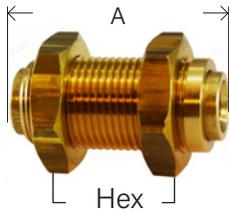
(RUN) BRANCH		
PART #	(1 & 2) X 3	LIST PRICE
770402	1/4" x 1/8"	---
770404	1/4" x 1/4"	---
770604	3/8" x 1/4"	---

GLADHAND BULKHEAD CONNECTOR



TUBE OD X MALE NPTF		
PART #	SIZE	LIST PRICE
830808	1/2" x 1/2"	---

BULKHEAD UNION

AQ82DOT
DQ82

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
820400	1/4"	0.16	---
820600	3/8"	0.21	---
820800	1/2"	0.14	---
821000	5/8"	0.30	---

AQ82DOT 62PMTBH 1874 DQ82DOT

FEMALE BULKHEAD UNION

AQ86DOT
DQ86

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
860404	1/4" x 1/4"	0.10	---
860604	3/8" x 1/4"	0.14	---
860606	3/8" x 3/8"	0.31	---
860808	1/2" x 1/2"	0.32	---

AQ86DOT 1873 DQ86DOT 66PMTBH

• Jam nuts not available separately

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BRASS

COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

COMPOSITE BODY DOT AIRBRAKE FITTINGS**WARNING**

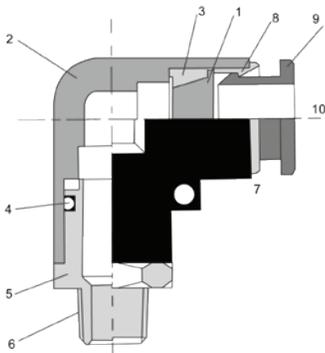
- Composite DOT push-to-connect fittings are designed only for use in applications where air is utilized as an operating fluid.
 - Fittings must be used in accordance with manufacturer and industry specifications.
 - They are not intended for use in environments exceeding 145psi or 140 degrees F.
 - The Department of Transportation FMVSS 49CFR571-106 prohibits use of this type of fitting for connections between towed and towing vehicles or between a driveshaft and chassis.
 - Using Composite DOT fittings in a manner inconsistent with manufacturer specifications may result in serious injury or property damage.
 - Under no circumstances shall the supplier be liable to buyer for any consequential or incidental damages of any nature whatsoever arising from nonconformity of goods, defective goods, or delay in shipment or any other breach by seller.
- Please feel free to email warning@compdotfitting.com with any questions or concerns.



- One touch connection reduces installation time and cost.
- Rugged ultraviolet and vibration resistant composite body.
- Various shapes and configurations to meet vehicle applications and make installations easier.

Specifications for FMVSS (D.O.T.) and SAE Compliant Fittings

Operating Fluid	Air						
Max. Operating Pressure	145psi (1.0MPa)						
Proof Pressure	Size	5/32"	1/4"	3/8"	1/2"	5/8"	3/4"
	At 75°F (24°C)	1200psi	1200psi	1400psi	950psi	900psi	800psi
	At 200 °F (93°C)	450psi (3.1MPa)					
Recommended Fluid and Ambient Temperature*	-40°F to 140°F (-40°C to 60°C)						
Leak Rate at -40°F (-40°C)	7 Ncm ³ /min. or less						
Thread	Thread Portion	ANSI/ASME B1.201, 1983 R1992					
	Nut	JIS B 0208 (Unified fine thread) ISO 263					
Thread Sealant	Fluorine/ Acrylic						
Applicable Standards	D.O.T. FMVSS 49 CFR 571.106, SAE J2494-3						
Applicable Tubing	Tubing conforming to both SAE J844 and D.O.T. FMVSS 49 CFR 571.106. Material: Nylon12						
Tube O.D.	5/32", 1/4", 3/8", 1/2", 5/8", 3/4"						



1. Chuck	Stainless steel or Brass
2. Body	Polybutylene Terephthalate (PBT), Brass
3/4. Tube seal, O-Ring	Buna-N, Nitrile Rubber
5. Stud	Brass
6. Sealant	Flourine/ Acrylic
7. Guide	Stainless Steel or Polyacetal (Acetal)
8. Stabilization Ring	Stainless Steel
9. Release Button	Polyacetal, POM (Acetal)
10. Tube support	Stainless Steel/ Brass

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

STRAIGHT UNION



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
620532C	5/32	0.01	---
620300C	3/16		
620400C	1/4	0.01	---
620600C	3/8	0.03	---
620800C	1/2	0.05	---
621000C	5/8	0.08	---
6200453C	1/4 x 5/32		

UNION TEE



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
645320C	5/32	0.02	---
640400C	1/4	0.02	---
640600C	3/8	0.05	---
640800C	1/2	0.07	---
641000C	5/8	0.13	---
621200C	3/4		
640406C	1/4 x 3/8		
640604C	3/8 x 1/4		
640806C	1/2 x 3/8		

UNION 90° ELBOW



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
655320C	5/32	0.01	---
650400C	1/4	0.02	---
650600C	3/8	0.04	---
650800C	1/2	0.05	---

FEMALE CONNECTOR



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
665302C	5/32	1/8-27	0.04	---
665304C	5/32	1/4-18	0.06	---
660402C	1/4	1/8-27	0.04	---
660404C	1/4	1/4-18	0.06	---
660406C	1/4	3/8-18	0.10	---
660602C	3/8	1/8-27	0.07	---
660604C	3/8	1/4-18	0.07	---
660606C	3/8	3/8-18	0.11	---
660608C	3/8	1/2-14	0.12	---
660802C	1/2	1/8-27	0.11	---
660804C	1/2	1/4-18	0.13	---
660806C	1/2	3/8-18	0.12	---
660808C	1/2	1/2-14	0.13	---

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BRASS

COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

STRAIGHT MALE CONNECTOR

PART #	APP. TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
685301C	5/32	1/16-28	0.02	---
685302C	5/32	1/8-27	0.02	---
685304C	5/32	1/4-27	0.03	---
680402C	1/4	1/8-27	0.02	---
680404C	1/4	1/4-18	0.03	---
680406C	1/4	3/8-18	0.05	---
680408C	1/4	1/2-14		---
680602C	3/8	1/8-27	0.05	---
680604C	3/8	1/4-18	0.06	---
680606C	3/8	3/8-18	0.06	---
680608C	3/8	1/2-14	0.09	---
680804C	1/2	1/4-18	0.09	---
680806C	1/2	3/8-18	0.09	---
680808C	1/2	1/2-14	0.09	---
681006C	5/8	3/8-18	0.15	---
681008C	5/8	1/2-14	0.13	---
681208C	3/4	1/2-14	0.38	---

90° MALE ELBOW

• Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
695322SC	5/32	1/8-27	0.03	---
690402SC	1/4	1/8-27	0.03	---
690404SC	1/4	1/4-18	0.04	---
690406SC	1/4	3/8-18	0.07	---
690602SC	3/8	1/8-27	0.07	---
690604SC	3/8	1/4-18	0.06	---
690606SC	3/8	3/8-18	0.08	---
690608SC	3/8	1/2-14	0.14	---
690804SC	1/2	1/4-18	0.07	---
690806SC	1/2	3/8-18	0.09	---
690808SC	1/2	1/2-14	0.14	---
691006SC	5/8	3/8-18	0.14	---
691008SC	5/8	1/2-14	0.18	---
691208SC	3/4	1/2-14	0.26	---

90° FEMALE ELBOW

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
705302C	5/32	1/8-27	0.03	---
705304C	5/32	1/4-18	0.05	---
700402SC	1/4	1/8-27	0.03	---
700404SC	1/4	1/4-18	0.05	---
700406SC	1/4	3/8-18	0.08	---
700602C	3/8	1/8-27	0.05	---
700604SC	3/8	1/4-18	0.07	---
700606SC	3/8	3/8-18	0.09	---
700608SC	3/8	1/2-14	0.10	---
700804C	1/2	1/4-18	0.08	---
700806SC	1/2	3/8-18	0.10	---
700808SC	1/2	1/2-14	0.11	---

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COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

MALE RUN TEE



• Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
715301C	5/32	1/16	0.05	---
715302C	5/32	1/8	0.03	---
715304C	5/32	1/4	0.04	---
710402SC	1/4	1/8-27	0.04	---
710404SC	1/4	1/4-18	0.05	---
71060404	3/8 x 1/4	1/4-18		
710604SC	3/8	1/4-18	0.08	---
710606SC	3/8	3/8-18	0.10	---
710608SC	3/8	1/2-14	0.15	---
710804C	1/2	1/4-8	0.09	---
710806SC	1/2	3/8-18	0.11	---
710808C	1/2	1/2-14	0.17	---

MALE BRANCH TEE



• Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
725301C	5/32	1/16	0.03	---
725302C	5/32	1/8	0.03	---
725304C	5/32	1/4	0.05	---
720402SC	1/4	1/8-27	0.04	---
720404SC	1/4	1/4-18	0.05	---
720406SC	1/4	3/8-18	0.08	---
720604SC	3/8	1/4-18	0.08	---
720606SC	3/8	3/8-18	0.10	---
720608C	3/8	1/2-14	0.15	---
720804C	1/2	1/4-18	0.09	---
720806SC	1/2	3/8-18	0.11	---
720808SC	1/2	1/2-14	0.17	---
721006C	5/8	3/8	0.18	---
721008C	5/8	1/2	0.21	---

FEMALE BRANCH TEE



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
770402C	1/4	1/8-27	0.06	---
770404C	1/4	1/4-18	0.08	---
770604C	3/8	1/4-18	0.08	---
770806C	1/2	3/8	0.13	---
771004C	5/8	1/4	0.21	---

45° MALE ELBOW



• Fixed

PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
545302C	5/32	1/8-27	0.03	---
540402SC	1/4	1/8-27	0.03	---
540404SC	1/4	1/4-18	0.04	---
540602SC	3/8	1/8-27	0.06	---
540604SC	3/8	1/4-18	0.06	---
540406C	1/4	3/8-18		
540606SC	3/8	3/8-18	0.08	---
540608SC	3/8	1/2-14	0.13	---
540802C	1/2	1/8-27	0.08	---
540804SC	1/2	1/4-18	0.08	---
540806SC	1/2	3/8-18	0.10	---
540808SC	1/2	1/2-14	0.15	---
541006SC	5/8	3/8-18	0.14	---
541008SC	5/8	1/2-14	0.17	---
541208SC	3/4	1/2-14	0.26	---

COMPOSITE BODY D.O.T. PUSH-IN

BRASS FITTINGS

UNION "Y"



PART #	A&B TUBE OD (INCH)	C TUBE OD (INCH)	APPROX. WT. LBS.	LIST PRICE
620553C	1/4	1/4	0.03	---
620409C	1/4	3/8	0.03	---
620555C	3/8	3/8	0.05	---
620559C	3/8	1/4	0.07	---
620557C	1/2	1/2	0.08	---

MALE BRANCH "Y"



PART #	TUBE OD (INCH)	THREAD NPT	APPROX. WT. LBS.	LIST PRICE
880402C	1/4	1/8	0.05	---
880404C	1/4	1/4	0.06	---
880406C	1/4	3/8	0.09	---
620604C	3/8	1/4-18	0.09	---
620606C	3/8	3/8-18	0.12	---
620806C	1/2	3/8-18	0.13	---
620808C	1/2	1/2-14	0.15	---

BULKHEAD UNION



PART #	TUBE OD (INCH)	THREAD (UNF)	APPROX. WT. LBS.	LIST PRICE
825320C	5/32	1/2-20	0.07	---
820400C	1/4	9/16-18	0.07	---
820600C	3/8	7/8-14	0.19	---
820800C	1/2	1-12	0.26	---
821000C	5/8	1 1/8-12	0.42	---

FEMALE BULKHEAD CONNECTOR



PART #	APP. TUBE OD (INCH)	THREAD NPT	T (UNF)	APPROX. WT. LBS.	LIST PRICE
865304C	5/32	1/4-18	1/2-20	0.08	---
860402C	1/4	1/8-27	9/16-18	0.01	---
860404C	1/4	1/4-18	9/16-18	0.08	---
860604C	3/8	1/4-18	7/8-14	0.20	---
860606C	3/8	3/8-18	7/8-14	0.20	---
860806C	1/2	3/8-18	1-12	0.26	---
860808C	1/2	1/2-14	1-12	0.27	---



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D.O.T. AIR BRAKE - NYLON TUBING



Tube O.D	1/4	3/8	1/2	5/8	3/4
Thread Size-B	7/16-24	17/32-24	11/16-20	13/16-18	1-18

•Typical Application

Air brake systems except where temperatures exceed +2000F or where battery acid can drip on tubing.

•Pressure

Maximum operating pressure of 150 PSI.

•Vibration

Fair resistance.

•Temperature Range

-400F to +2000F (-400C to +930C).

•Material

Brass

•Used With

NT Nylon Tubing - SAE J844 Type A and B.

• Tolerance

+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

•Advantages

Easy to assemble (no tube preparation or flaring required.) Built in tube support. Fittings utilize a ribbed sleeve for compression and positive grip. May be used with copper tubing by replacing nut, sleeve and insert with long nut and spherical sleeve. Insert should be removed for copper tubing use.

•Conformance

Meets specifications and standards of SAE and DOT FMVSS 571,106.

•Assembly Instructions

- 1- Cut tubing to desired length.
- 2-Slide nut and then sleeve on tubing. Threaded end of nut "A" must face toward fitting body.
- 3-Insert tubing into the preassembled fitting. Be sure tubing is bottomed in fitting.
- 4- Tighten nut to required torque as indicated on chart.

Disassembling: Remove nut and pull tubing out of fitting body. Insert will remain in tubing.

Reassembly: Push tubing and insert into fitting body until it bottoms. Thread nut onto fitting body and torque as in step 4.

Tube Size	Additional Number of Turns from Hand-Tight
1/4	3
3/8, 1/2	4
5/8, 3/4	3-1/2

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BRASS

D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

SLEEVE60NA
NT60

SAE# 100115

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38000	3/16"		---
38001	1/4"	0.01	---
38002	3/8"	0.01	---
38003	1/2"	0.01	---
38004	5/8"	0.01	---
38005	3/4"	0.01	---

60NAB 60NTA 1460

NUT62NA
NT61

SAE# 100110

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38009	3/16"		---
38010	1/4"	0.02	---
38011	3/8"	0.03	---
38012	1/2"	0.05	---
38013	5/8"	0.06	---
38014	3/4"	0.09	---

61NAB 61NTA 1461

UNION62NA
NT62

SAE# 100101BA

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38018	3/16"		---
38019	1/4"	0.07	---
38020	3/8"	0.11	---
38021	1/2"	0.20	---
38022	5/8"	0.25	---
38023	3/4"	0.40	---

62NAB 62NTA 1462

BULKHEAD UNION62NABH
NT62BH

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38027	3/16"		---
38028	1/4"	0.11	---
38029	3/8"	0.16	---
38030	1/2"	0.26	---
38031	5/8"		---

62NBH 1474 475

STAINLESS STEEL INSERT

- 300 series stainless
- For SAE# J844 TUBING

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38035	1/4"	0.01	---
38036	3/8"	0.01	---
38037	1/2"	0.01	---
38038	5/8"	0.01	---
38039	3/4"	0.01	---

59A 63NTA

BRASS INSERT

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38040	1/4"	0.01	---
38041	3/8"	0.01	---
38042	1/2"	0.01	---
38043	5/8"	0.01	---
38048	3/4"	0.02	---

1484 463

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

TEE



64NA
NT64
SAE# 100401BA

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38044	1/4"	0.12	---
38045	3/8"	0.19	---
38046	1/2"	0.36	---
38047	5/8"	0.48	---

64NAB 264NTA 1464

REDUCING BRANCH TEE



PART #	TUBE O.D. (1&2) X 3	APPROX. WT. LBS.	LIST PRICE
38049	3/8" x 1/4"	0.24	---
38057	1/2" x 3/8"	0.30	---

ELBOW



65NA
NT65
SAE# 100201BA

PART #	TUBE O.D.	APPROX. WT. LBS.	LIST PRICE
38052	1/4"	0.09	---
38053	3/8"	0.13	---
38054	1/2"	0.15	---
38055	5/8"	0.36	---

65NAB 265NTA 1465

FEMALE ADAPTER



66NA
NT66
SAE# 100103BA

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.	LIST PRICE
38060	1/4" x 1/8"	0.06	---
38061	1/4" x 1/4"	0.08	---
38062	3/8" x 1/8"	0.07	---
38063	3/8" x 1/4"	0.10	---
38064	3/8" x 3/8"	0.14	---
38065	1/2" x 3/8"	0.16	---
38066	1/2" x 1/2"	0.20	---
38067	5/8" x 3/8"	0.28	---
38068	5/8" x 1/2"	0.28	---
38059	3/4" x 1/2"	0.31	---

66NAB 66NTA 1466 66NBH

Dimension data can change without notice. Please check when dimensions are critical.

D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

MALE ADAPTER

68NA
NT68VS

SAE# 100102BA

• More sizes available

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38069	3/16 x 1/16		
38070	3/16 x 1/8		
38071	3/16 x 1/4		
38072	1/4" x 1/16"	0.05	---
38073	1/4" x 1/8"	0.05	---
38074	1/4" x 1/4"	0.06	---
38075	1/4" x 3/8"	0.08	---
38076	3/8" x 1/8"	0.07	---
38077	3/8" x 1/4"	0.08	---
38078	3/8" x 3/8"	0.10	---
38079	3/8" x 1/2"	0.14	---
38080	1/2" x 1/4"	0.13	---
38081	1/2" x 3/8"	0.14	---
38082	1/2" x 1/2"	0.18	---
38087	1/2" x 3/4"	0.23	---
38083	5/8" x 3/8"	0.17	---
38084	5/8" x 1/2"	0.21	---
38088	5/8" x 3/4"	0.25	---
38085	3/4" x 1/2"	0.28	---
38086	3/4" x 3/4"	0.30	---

68NAB 68NTA 1468

SWIVEL MALE ADAPTER

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38078S	3/8" x 3/8"	0.18	---
38081S	1/2" x 3/8"	0.22	---

MALE ELBOW

69NA
NT69VS

SAE# 100202BA

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38089	3/16 x 1/8		
38096	3/16 x 1/4		
38091	1/4" x 1/8"	0.06	---
38092	1/4" x 1/4"	0.08	---
38093	1/4" x 3/8"	0.13	---
38094	3/8" x 1/8"	0.09	---
38095	3/8" x 1/4"	0.11	---
38090	3/8" x 1/4" LONG	0.14	---
38101	3/8" x 3/8"	0.14	---
38102	3/8" x 1/2"	0.20	---
38103	1/2" x 1/4"	0.16	---
38104	1/2" x 3/8"	0.20	---
38109	1/2" x 3/8" LONG	0.26	---
38105	1/2" x 1/2"	0.29	---
38106	5/8" x 3/8"	0.26	---
38107	5/8" x 1/2"	0.32	---
38110	5/8" x 3/4"	0.40	---
38108	3/4" x 1/2"	0.43	---
38111	3/4" x 3/4"	0.51	---

269NTA 1469

SWIVEL MALE ELBOW

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38101S	3/8" x 3/8"	0.28	---
38104S	1/2" x 3/8"	0.32	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

FEMALE ELBOW



70NA
NT70

SAE# 100203BA

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	LIST PRICE
38113	1/4" x 1/8"	0.08	---
38114	1/4" x 1/4"	0.12	---
38115	3/8" x 1/8"	0.14	---
38116	3/8" x 1/4"	0.10	---
38117	3/8" x 3/8"	0.12	---
38118	1/2" x 3/8"	0.23	---
38119	1/2" x 1/2"	0.36	---
38120	5/8" x 1/2"	0.38	---

MALE RUN TEE



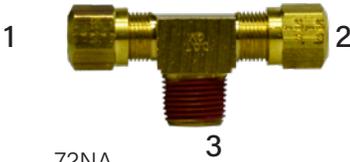
71NA
NT71VS

SAE# 100424BA

PART #	TUBE O.D. X MALE NPTF X TUBE O.D. 1X2X3	APPROX. WT. LBS.	LIST PRICE
38125	1/4" x 1/8" x 1/4"	0.10	---
38126	1/4" x 1/4" x 1/4"	0.13	---
38124	3/8" x 1/4" x 1/4"	0.14	---
38127	3/8" x 1/4" x 3/8"	0.17	---
38128	3/8" x 3/8" x 3/8"	0.20	---
38129	1/2" x 3/8" x 1/2"	0.30	---

71NAB 271NTA 1471

MALE BRANCH TEE



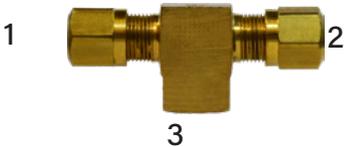
72NA
NT72VS

SAE# 100425BA

PART #	TUBE O.D. X TUBE O.D. X MALE NPTF 1X2X3	APPROX. WT. LBS.	LIST PRICE
38136	1/4" x 1/4" x 1/8"	0.10	---
38137	1/4" x 1/4" x 1/4"	0.13	---
38138	3/8" x 3/8" x 1/8"	0.14	---
38132	3/8" x 1/4" x 1/4"	0.15	---
38139	3/8" x 3/8" x 1/4"	0.17	---
38133	1/2" x 1/2" x 1/4"	0.26	---
38140	3/8" x 3/8" x 3/8"	0.21	---
38134	1/2" x 3/8" x 3/8"	0.26	---
38141	1/2" x 1/2" x 3/8"	0.30	---
38142	1/2" x 1/2" x 1/2"	0.37	---
38143	5/8" x 5/8" x 1/2"	0.44	---

72NAB 272NTA 1472

FEMALE BRANCH TEE



PART #	TUBE O.D. X TUBE O.D. X FEMALE NPTF 1X2X3	APPROX. WT. LBS.	LIST PRICE
38144	3/8" x 3/8" x 1/4"	0.21	---
38146	5/8" x 5/8" x 1/4"	0.48	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

D.O.T. AIR BRAKE - NYLON TUBING

BRASS FITTINGS

45° ELBOW

6945NA
NT6945VS
SAE# 100302BA

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38148	1/4" x 1/8"	0.06	---
38149	1/4" x 1/4"	0.08	---
38150	3/8" x 1/8"	0.09	---
38151	3/8" x 1/4"	0.11	---
38152	3/8" x 3/8"	0.14	---
38153	3/8" x 1/2"	0.24	---
38157	1/2" x 1/4"	0.18	---
38154	1/2" x 3/8"	0.19	---
38155	1/2" x 1/2"	0.25	---
38156	5/8" x 1/2"	0.30	---
38158	3/4" x 1/2"	0.38	---

6945NAB 279NTA 1480

SWIVEL 45° ELBOW

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	LIST PRICE
38152S	3/8" x 3/8"	0.20	---
38154S	1/2" x 3/8"	0.24	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - COPPER TUBING

BRASS FITTINGS

SLEEVE

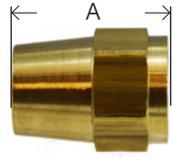


60AB
AB60
SAE# 120115BA

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38161	1/4"	0.25	0.01	---
38162	3/8"	0.31	0.02	---
38163	1/2"	0.38	0.02	---
38164	5/8"	0.44	0.02	---
38165	3/4"	0.50	0.04	---

60AB 1360

NUT

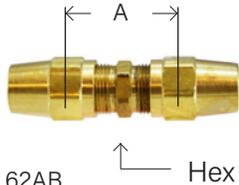


61AB
AB61
SAE# 120111BA

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
38170	1/4"	0.75	0.56	0.02	---
38171	3/8"	1.13	0.62	0.04	---
38172	1/2"	1.25	0.81	0.08	---
38173	5/8"	1.38	0.94	0.12	---
38174	3/4"	1.56	1.12	0.18	---

20961 61AB 1361

UNION

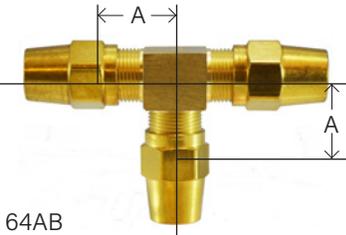


62AB
AB62
SAE# 120101BA

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.	LIST PRICE
38179	1/4"	0.81	0.44	0.08	---
38180	3/8"	1.10	0.56	0.14	---
38181	1/2"	1.07	0.69	0.24	---
38182	5/8"	1.41	0.81	0.34	---
38183	3/4"				---

62AB 1362

TEE



64AB
AB64
SAE# 120401BA

PART #	TUBE O.D.	A	APPROX. WT. LBS.	LIST PRICE
38188	1/4"	0.62	0.16	---
38189	3/8"	0.82	0.24	---

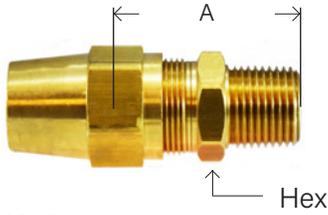
264AB 1364

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

D.O.T. AIR BRAKE - COPPER TUBING

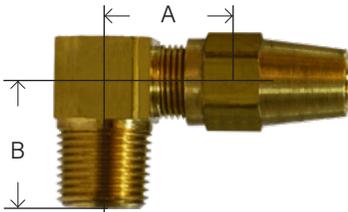
BRASS FITTINGS

MALE ADAPTER

68AB
AB68
SAE# 120102BA

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.	LIST PRICE
38217	1/4" x 1/8"	0.88	0.43	0.06	---
38218	1/4" x 1/4"	0.97	0.56	0.08	---
38220	3/8" x 1/8"				
38221	3/8" x 1/4"	1.09	0.56	0.10	---
38222	3/8" x 3/8"	1.19	0.69	0.12	---
38223	3/8" x 1/2"	1.45	0.87	0.18	---
38224	1/2" x 1/4"	1.32	0.69	0.16	---
38225	1/2" x 3/8"	1.35	0.69	0.18	---
38226	1/2" x 1/2"	1.51	0.87	0.24	---
38228	5/8" x 1/2"	1.57	0.87	0.24	---
38229	3/4" x 1/2"	1.67	1.00	0.34	---

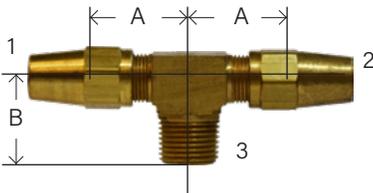
68AB 368

90° MALE ELBOW

69AB
AB69
SAE# 120202BA

PART #	TUBE O.D. X MALE NPTF	A	B	APPROX. WT. LBS.	LIST PRICE
38235	1/4" x 1/8"	0.64	0.76	0.08	---
38236	1/4" x 1/4"	0.69	0.88	0.10	---
38237	1/4" x 3/8"	0.73	0.86	0.14	---
38239	3/8" x 1/4"	0.80	0.93	0.12	---
38240	3/8" x 3/8"	0.83	0.90	0.16	---
38241	3/8" x 1/2"				---
38243	1/2" x 3/8"	0.92	0.98	0.22	---
38244	1/2" x 1/2"	1.04	1.19	0.30	---
38245	5/8" x 3/8"				---
38246	5/8" x 1/2"	1.10	1.25	0.36	---
38247	3/4" x 1/2"				---

269AB 1369

MALE BRANCH TEE

72AB
AB72
SAE# 120425BA

PART #	TUBE O.D. X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.	LIST PRICE
38278	3/8" x 1/4"	0.78	0.91	0.18	---
38279	3/8" x 3/8"	0.85	0.92	0.24	---

272AB 1372

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

D.O.T. AIR BRAKE - HOSE/ ENDS

BRASS FITTINGS

D.O.T. AIR BRAKE REUSABLE HOSE/ FITTINGS



•Typical Application

Air Brake hose connections.
Meets SAE & DOT specifications
(FMVCS 10 GAL)

•Pressure

Determined by maximum working pressure for hose size.
Up to 125 psi

Temperature: -400F to + 1200 F (-40°C to +48°C)

•Advantages

Can be used for nearly any brake line. Easy to assemble with a good selection of hose end configurations. Brass material offers excellent resistance against corrosion.

• Tolerance

+/- .02 on all dimensions. Dimension data can change

without notice. Please call us when dimensions are critical.

•Assembly Instructions

- 1- Slide nut and sleeve onto hose. Make sure bevel edge of sleeve faces out toward fitting.
- 2- Push hose into fitting until it bottoms.
- 3- Screw nut until contact is made with body hex.

NOTE: When reassembling fitting, body and nut should be inspected. Only reuse if in proper condition. Sleeves should never be reused.

SLEEVE

FERRULE

60HE
HE60



PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38300	3/8"	0.02	---
38301	1/2"	0.02	---

#60HC 3380-A 0903610 367 60RB

NUT

61HE
HE61



PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38306	3/8"	0.04	---
38307	1/2"	0.06	---

61RB #61HC 369 3380-B 0903624

NUT FOR USE WITH SPRING

61HES
HE61N



PART #	HOSE I.D. SIZE	THREAD	APPROX. WT. LBS.	LIST PRICE
38312	3/8"	31/32-20	0.04	---
38313	1/2"	1-3/32-20	0.06	---

#61HCS 0903613 3380-D 61RB5G

D.O.T. AIR BRAKE - HOSE/ ENDS

BRASS FITTINGS

SPRING61HSG
HE61G

PART #	HOSE I.D.	APPROX. WT. LBS.	LIST PRICE
38351	3/8"	0.20	---
38352	1/2"	0.22	---

#60SG 0901045 3380-C 377

NUT AND SPRING ASSEMBLY

HE61NG

PART #	HOSE I.D. SIZE	APPROX. WT. LBS.	LIST PRICE
38015	3/8"	0.18	---
38016	1/2"	0.24	---

379 67RBSG 0999999

UNION62HE
HE62

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	LIST PRICE
38318	3/8"	31/32-20	0.32	---
38319	1/2"	1-1/8-20	0.48	---

#62HC 3380B-Y0 362



BODY ONLY

PART #	HOSE I.D.	THREAD	APPROX. WT. LBS.	LIST PRICE
39318	3/8"	31/32-20	0.32	---
39319	1/2"	1-1/8-20	0.48	---

FEMALE CONNECTOR HOSE

66HEA

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	LIST PRICE
38357	3/8" x 3/4-20	0.24	---
38358	1/2" x 7/8-20	0.39	---

#66ABS 66RBSV 3380B-Y7 386



BODY ONLY

PART #	HOSE I.D. X FEMALE ABS	APPROX. WT. LBS.	LIST PRICE
39357	3/8" x 3/4-20	0.24	---
39358	1/2" x 7/8-20	0.38	---

MALE CONNECTOR68HEA
HE68S

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38363	3/8" x 1/4"	0.38	---
38364	1/2" x 3/8"	0.46	---

#68ABS 09155 3380B-Y8 387

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



D.O.T. AIR BRAKE - HOSE/ENDS

BRASS FITTINGS

ADAPTER FOR SWIVEL TYPE REUSABLE AND CRIMPED ON



68HEAB
1390

PART #	MALE ABS X MALE PIPE	ABS THREAD	APPROX. WT. LBS.	LIST PRICE
38369	3/8" x 1/4"	3/4-20	0.05	---
38368	3/8" x 3/8"	3/4-20	0.08	---
38372	3/8" x 1/2"	3/4-20	0.12	---
38370	1/2" x 3/8"	7/8-20	0.10	---
38371	1/2" x 1/2"	7/8-20	0.12	---

#68ABS 1390 76RB 388

MALE ADAPTER



68HE
HE68

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38333	3/8" x 1/4"	0.22	---
38334	3/8" x 3/8"	0.24	---
38335	3/8" x 1/2"	0.26	---
38336	1/2" x 3/8"	0.33	---
38337	1/2" x 1/2"	0.36	---

#68HC 368 3380B-Y2 68RB

ADAPTER BODY



68HEB
HE68B

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38324	3/8" x 1/4"	0.12	---
38325	3/8" x 3/8"	0.14	---
38326	3/8" x 1/2"	0.20	---
38327	1/2" x 3/8"	0.18	---
38328	1/2" x 1/2"	0.20	---

#68B W1391Z

MALE ADAPTER



68HES
HE68G

PART #	HOSE I.D. X MALE PIPE	APPROX. WT. LBS.	LIST PRICE
38342	3/8" x 1/4"	0.32	---
38343	3/8" x 3/8"	0.34	---
38344	3/8" x 1/2"	0.38	---
38345	1/2" x 3/8"	0.48	---
38346	1/2" x 1/2"	0.52	---

#68HCS 3380B-Y3 68RBSG 378

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

GLADHANDS

ALUMINUM GLADHANDS



PORT A

- 1/2" FPT port
- Aluminum Casting
- Permanent Clamp Screw
- Black rubber seals
- Stainless Steel filter
- Meet SAE J318 requirements

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	LIST PRICE
39870	Universal	Aluminum	Blk Rubber	No	1/2"	---
39871	Universal with filter	Aluminum	Blk Rubber	Yes	1/2"	---
39877	Emergency Red	Aluminum	Blk Rubber	No	1/2"	---
39878	Emergency with filter	Aluminum	Blk Rubber	Yes	1/2"	---
39874	Service Blue	Aluminum	Blk Rubber	No	1/2"	---
39875	Service with filter	Aluminum	Blk Rubber	Yes	1/2"	---

PLATED ALUMINUM GLADHANDS



PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	LIST PRICE
39832	Universal Standard	Plated Aluminum	Blk Rubber	No	1/2"	---
39833	Service - Blue	Plated Aluminum	Blk Rubber	No	1/2"	---
39834	Emergency - Red	Plated Aluminum	Blk Rubber	No	1/2"	---
39828	Service 38 degree	Plated Aluminum	Blk Rubber	No	1/2"	---
39829	Emergency 38 degree	Plated Aluminum	Blk Rubber	No	1/2"	---
39830	Service 38 degree	Plated Aluminum	Blk Rubber	No	3/8"	---
39831	Emergency 38 degree	Plated Aluminum	Blk Rubber	No	3/8"	---

CAST IRON GLADHANDS



PORT A

- 1/2" FPT port
- One-piece casting eliminates problems with clamp separation
- "Positive-stop" post, assures a perfect connection
- Polyurethane seal resist oils, chemicals & provide improved sealing & service life
- Gladhands meet SAE J318 requirements including breakaway requirement.

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A	LIST PRICE
39506	Universal	Cast Iron	Black Polyurethane	No	1/2"	---
39507	Emergency	Cast Iron	Red Polyurethane	No	1/2"	---
39508	Service	Cast Iron	Blue Polyurethane	No	1/2"	---

ANGLE MOUNT ALUMINUM GLADHANDS

PORT A
PORT B

- For use in trailer mounting locations
- Dual port provides connection options
- Powder-coated clamp plates are color coded for easy identification
- Port "A" comes standard as unplugged
- (2) 3/8 inch FPT Ports (one plugged).
- (2) 11/32 inch diameter mounting holes.
- Available with Port "B" plugged or unplugged (plug is included, loose in bag)
- Meet SAE J318

PART #	TYPE	MATERIAL	SEAL	FILTER	PORT A	PORT B	LIST PRICE
39511	Emergency	Aluminum	Blk Rubber	No	Unplugged	Plugged	---
39512	Service	Aluminum	Blk Rubber	No	Unplugged	Plugged	---

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POWDER COATED IRON GLADHAND

- Tough powder coating improves wear & corrosion resistance
- Vividly colored to provide improved identification of service & emergency lines
- Stainless steel plate eliminates corrosion of the mating surface
- Polyurethane seal resist oil, chemicals, provide improved sealing & service life
- Meet or exceeds SAE J318 standard



PORT A

PART #	DESCRIPTION	FILTER	PORT A	LIST PRICE
39509	Service with blue poly seal	Yes	1/2"	---
39510	Emergency with red poly seal	Yes	1/2"	---

BRACKET MOUNT SWING AWAY GLADHAND

- Bracket allows 180° rotation allowing for easy hookups, eliminating the need to twist lines during connections
 - Helps protect rear-trailer gladhands when not in use
 - Filter and closed seal are recommended
 - Spring design provides consistent tension throughout rotation
 - Design provides both back port and bottom port capabilities
- Gladhand mount - 1/2" Male Thread



PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	LIST PRICE
39515	Service (Blue)	Aluminum	Blk Rubber	yes	---
39516	Emergency (Red)	Aluminum	Blk Rubber	yes	---

KNOB STYLE SHUTOFF GLADHAND

- Economical trailer shutoff gladhand
- Centered low-profile "snap-stop" knob
- Full face rubber seal
- Available with assembled or separate fittings.
- Meets SAE J318



PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	LIST PRICE
39520	1/2" Service (Blue)	Aluminum	Blk Rubber	No	---
39521	3/8" Service (Blue)	Aluminum	Blk Rubber	No	---
39522	1/2" Emergency (Red)	Aluminum	Blk Rubber	No	---
39524	3/8" Emergency (Red)	Aluminum	Blk Rubber	No	---

LEVER STYLE SHUTOFF GLADHAND

- Flange mount
- Metal handle shutoff
- Full face rubber seal
- Tough metal Ball valve
- Color coded
- Meets SAE J318



PORT A

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A NPT	PORT B NPT	LIST
39531	Emergency (Red)	Aluminum	Blk Rubber	No	3/8"	1/4"	---
39530	Service (Blue)	Aluminum	Blk Rubber	No	3/8"	1/4"	---

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AIR

BRASS FITTINGS

GLADHAND GRIPS



1/2" NPTF.

- Comes with hardware and sealant
- Color-coded red and blue for easy air line identification - clamshell
- Handles are heat, oil and UV-resistant.
- Meet SAE J318

PART #	DESCRIPTION	LIST PRICE
39535	Poly grip hardware	---



ALUMINUM GLADHAND GRIPS

- 1/2" NPTF
- Each pack contains (1) red and (1) blue - clamshell
- One piece design
- No screws or plastic parts
- Easy to install
- Class II anodized coating provides greater corrosion resistance

PART #	DESCRIPTION	LIST PRICE
39537	Sure grip	---

GLADHAND PACIFIER SEAL

- Seals Gladhand from moisture, dirt and debris



PART #	DESCRIPTION	LIST PRICE
39566	Gladhand pacifier	---

GLADHAND SEALS

Seal Options:

- Rubber
- Polyurethane
- With screen filter
- Double lip
- Filter screen only



PART #	DESCRIPTION	LIST PRICE
39541	Blue, Polyurethane	---
39542	Red, Polyurethane	---
39543	Black, Polyurethane	---
39556	Blue with a screen filter Polyurethane	---
39557	Red with a screen filter Polyurethane	---
39558	Black with a screen filter Polyurethane	---
39550	Blue Double lip, Polyurethane	---
39551	Red Double Lips, Polyurethane	---
39552	Double Lip, Polyurethane	---
39544	Grey, Closed Style, Polyurethane	---
39560	Filter, Screen, Gladhand	---
39559	Filter, Screen, Gladhand	---

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NYLON DOT AIR BRAKE TUBING

BRASS FITTINGS



NYLON DOT AIR BRAKE TUBING

- Air Brake Tubing available from inventory in a large variety of colors and sizes
- Superior cold weather flexibility and abrasion resistance
- UV and ozone resistant nylon
- Meets or exceeds SAE J844 (Type A - non-reinforced & Type B - reinforced)
- Meets or exceeds DOT requirements for use with compression fittings (NOTE: SAE does not recognize 1/8", 5/32" or 3/16" O.D. tubing for use with air brake systems)
- Air Brake Tubing identified per SAE J844 & FMVSS No. 106 Brake Hoses, 49 CFR 571.106
- Conforms to our own rigorous qualification and inspection testing which exceeds SAE and DOT requirements
- Designed to operate at up to 150 psi in air brake systems
- Resistant to attack by gasoline, diesel fuel and commonly used road and cleaning chemicals
- Air Brake Tubing available on bulk spools or by packages
- Operating range: -40°- 200°F - Not made for fuel

PART NUMBER	COLOR	LENGTH	NOMI-NAL O.D.	NOMI-NAL WALL	LIST	PART NUMBER	COLOR	LENGTH	NOMI-NAL O.D.	NOMI-NAL WALL	LIST
38950	Black	100'	1/8"	0.023"	---	38960G	Green	100'	3/8"	0.062"	---
3895BA	Black	50'	1/8"	0.023"	---	38960GA	Green	50'	3/8"	0.062"	---
38951	Black	100'	5/32"	0.032"	---	38960R5	Red	500'	3/8"	0.062"	---
38951BA	Black	50'	5/32"	0.032"	---	38960RA	Red	50'	3/8"	0.062"	---
38953	Black	100'	3/16"	0.035"	---	38960Y	Yellow	100'	3/8"	0.062"	---
38953BA	Black	50'	3/16"	0.035"	---	38960YA	Yellow	50'	3/8"	0.062"	---
389522	Black	500'	1/4"	0.040"	---	38965	Black	100'	1/2"	0.062"	---
38952	Black	100'	1/4"	0.040"	---	38965BA	Black	50'	1/2"	0.062"	---
38952BA	Black	50'	1/4"	0.040"	---	38965U5	Blue	500'	1/2"	0.062"	---
38952U	Blue	100'	1/4"	0.040"	---	38965U	Blue	100'	1/2"	0.062"	---
38952UA	Blue	50'	1/4"	0.040"	---	38965UA	Blue	50'	1/2"	0.062"	---
38952O	Orange	100'	1/4"	0.040"	---	38965G	Green	100'	1/2"	0.062"	---
38952OA	Orange	50'	1/4"	0.040"	---	38965R5	Red	500'	1/2"	0.062"	---
38952G	Green	100'	1/4"	0.040"	---	38965R	Red	100'	1/2"	0.062"	---
38952GA	Green	50'	1/4"	0.040"	---	38965RA	Red	50'	1/2"	0.062"	---
38952R	Red	100'	1/4"	0.040"	---	38970	Black	100'	5/8"	0.092"	---
38952RA	Red	50'	1/4"	0.040"	---	38970BA	Black	50'	5/8"	0.092"	---
38952Y1	Yellow	1000'	1/4"	0.040"	---	38970G	Green	100'	5/8"	0.092"	---
38952Y	Yellow	100'	1/4"	0.040"	---	38970GA	Green	50'	5/8"	0.092"	---
38954	Black	100'	5/16"	0.040"	---	38970RA	Red	50'	5/8"	0.092"	---
38954BA	Black	50'	5/16"	0.040"	---	38975BC	Black	250'	3/4"	0.092"	---
38960B1	Black	1000'	3/8"			38975	Black	100'	3/4"	0.092"	---
38960B5	Black	500'	3/8"	0.062"	---	38975BA	Black	50'	3/4"	0.092"	---
38960	Black	100'	3/8"	0.062"	---	38975GA	Green	50'	3/4"	0.092"	---
38960BA	Black	50'	3/8"	0.062"	---						
38960U5	Blue	500'	3/8"	0.062"	---						
38960U	Blue	100'	3/8"	0.062"	---						
38960UA	Blue	50'	3/8"	0.062"	---						
38960O5	Orange	500'	3/8"	0.062"	---						
38960O	Orange	100'	3/8"	0.062"	---						

FUEL LINE AND AIR BRAKE HOSE

BRASS FITTINGS

FUEL LINE AND VAPOR EMISSION



- SAE 30R7
- Nitrile tube w/ spiral synthetic cord, hypalon cover.
- 50 p.s.i. working pressure. 1/2 -35 PSI
- -40° F to + 257° F temperature range.
- Low pressure/ high temperature fuel for cars, light trucks, and small engines.
- Meets SAE J1402

PART #	ID	OD	LENGTH	LIST PRICE
38926	5/16	9/16	25'	---
38923	1/4	1/2	25'	---
38927	3/8	5/8	50'	---

AIRBRAKE HOSE REPAIR KIT



- Fittings to repair hose with a minimum 3/4" OD
- Meets DOT 106 SAE j1402
- Brass sleeve and barb
- Pre-applied sealant

PART #	DESCRIPTION	LIST PRICE
39855	3/8" Quick fix hose fitting	---
*39856	3/8" Quick fix hose kit- clam pack	---
39857	1/2" Quick fix hose fitting	---

*Supplied with hex tool

TARP STRAPS



- Heavy Duty EPDM tarp straps
- Longer lasting than rubber
- Greater stretch length
- Ozone and weather resilient
- Made in the USA

PART #	STRAP LENGTH	MATERIAL	DESCRIPTION	QTY	LIST PRICE
990790	10"	EPDM	Tarp strap with S hook	50	---
990791	15"	EPDM	Tarp strap with S hook	50	---
990792	21"	EPDM	Tarp strap with S hook	50	---
990793	31"	EPDM	Tarp strap with S hook	50	---
990794	41"	EPDM	Tarp strap with S hook	50	---

UV BLACK Cable tie straps



PART #	LENGTH	STRENGTH	PACKAGE QTY	LIST PRICE
95610	7 1/2"	50lb	100	---
95611	14"	50 lb	100	---
95612	24"	175lb	50	---
95613	36"	175lb	50	---

AIR BRAKE HOSE



• Black

- Spiral synthetic cord reinforcement with neoprene cover.
- -40° F to +200° F temperature range.
- Max operating pressure 255 psi
- Max burst pressure 900 psi
- Meets SAE J1402

PART #	ID	OD	LENGTH	LIST PRICE
38910	3/8	3/4	50'	---
38915	1/2	7/8	50'	---
38916	1/2	7/8	250'	---
38911	3/8	3/4	250'	---

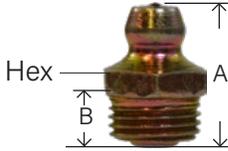
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



STEEL GREASE FITTINGS

BRASS FITTINGS

PIPE THREAD



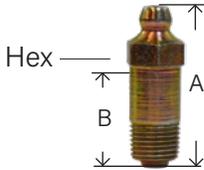
- Assortments also available
 - Exceeds 12hr salt spray
- Meets SAE #J-534C

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36110	1/8" -27 NPTF	0.66	0.28	0.437	0.01	---
36110SS	303 SS	0.68	0.29	0.437	0.01	---
36111	Thread Forming	0.62	0.23	0.437	0.01	---

BALL CHECK - 1/8-27 NPTF

#610 1610 2800 1720 5000

PIPE THREAD

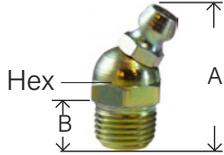


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36112	1/8" -27 NPTF	1.25	0.22	0.437	0.02	---
36113	1/8" -27 NPTF	1.75	1.26	0.437	0.02	---

BALL CHECK

#607 1607 2800 1669 5003

PIPE THREAD

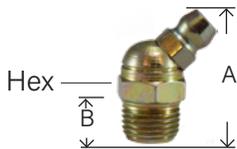


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36114	1/8" -27 NPTF	0.90	0.30	0.437	0.01	---

30° ANGLE BALL CHECK

#611 1611 2830 5100

PIPE THREAD

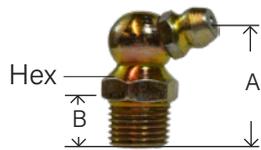


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36116	1/8" -27 NPTF	0.88	0.22	0.437	0.01	---
36116SS	303 SS	0.95	0.29	0.437	0.01	---

45° ANGLE BALL CHECK

#688 1688 2845 5200

PIPE THREAD

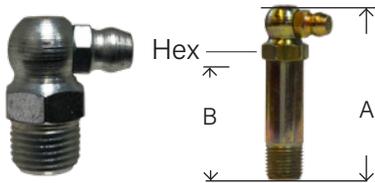


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36118	1/8" -27 NPTF	0.86	0.30	0.437	0.01	---

65° ANGLE BALL CHECK

#612 1612 2865 5300

PIPE THREAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36120	1/8" -27 NPTF	0.84	0.30	0.437	0.01	---
36120SS	303 SS	0.84	0.29	0.437	0.01	---
36121	1/8" -27 NPTF	1.81	1.25	0.437	0.01	---

90° ANGLE BALL CHECK

#613 1613 2890 5400 5407

PIPE THREAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36130	1/4" -18 NPTF	0.84	0.30	0.437	0.02	---
36130SS	303 SS	0.87	0.42	0.437	0.02	---

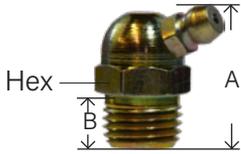
BALL CHECK - 1/4-18 NPTF

#627 1627 2900K 5050

STEEL GREASE FITTINGS

BRASS FITTINGS

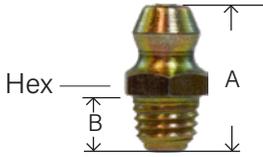
PIPE THREAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36132	1/4"-18 NPTF	0.97	0.34	0.56	0.02	---

65° ANGLE BALL CHECK #629 1629 2965 5350

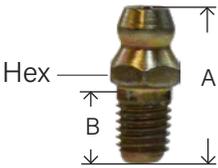
1/4-28 TAPER THREAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36140	1/4"-28 NPTF	0.54	0.18	0.31	0.01	---
36140SS	303 SS	0.54	0.18	0.31	0.01	---

SHORT BALL CHECK - 1/4-28 NPTF #641 1641 2400 3038 5010

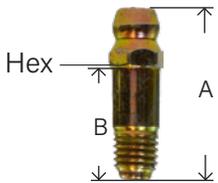
1/4-28 TAPER THREAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36142	1/4"-28 Taper Thread	0.69	0.34	0.312	0.01	---

LONG BALL CHECK #652 1652 2400 5013

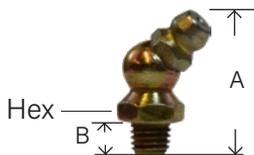
1/4-28 TAPER THREAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36144	1/4"-28 Taper Thread	0.92	0.60	0.312	0.02	---

EXTRA LONG BALL CHECK #680 1680 2400 5014

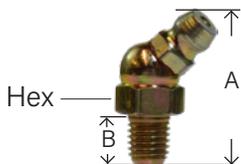
1/4-28 TAPER THREAD



PART #	SIZE	ANGLE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36146	1/4"-28 Taper Thread	45°	0.82	0.20	0.375	0.02	---
36146SS	303 SS	45°	0.81	0.20	0.375	0.02	---

SHORT 45° BALL CHECK #637 1637 2445 1665 2465 3010 5210

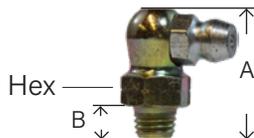
1/4-28 TAPER THREAD



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36148	1/4"-28 Taper Thread	0.94	0.30	0.375	0.02	---

LONG 45° BALL CHECK #636 1630 2445

1/4-28 TAPER THREAD



SAE# A515002

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36150	1/4"-28 Taper Thread	0.75	0.10	0.375	0.02	---
36150SS	303 SS	0.75	0.20	0.375	0.02	---

90° ANGLE BALL CHECK #911 1911 2490 3054 5410

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STEEL GREASE FITTINGS

BRASS FITTINGS

DRIVE TYPE

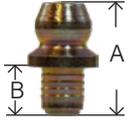


PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36160	5/16"	0.55	0.25	0.01	---

BALL CHECK Drive Type

#608 1608 5021

DRIVE TYPE



PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36164	3/16"	0.52	0.25	0.01	---

BALL CHECK

#728 1728 2316 5033

DRIVE TYPE

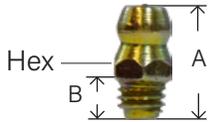


PART #	SIZE	A	B	APPROX. WT. LBS.	LIST PRICE
36166	1/4"	0.55	0.23	0.01	---
36166SS	303 SS	0.55	0.23	0.01	---

BALL CHECK

#743 1743 214 5029

METRIC

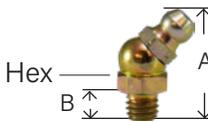


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36168	6MM x 1	16	3.7	7	0.01	---

(Diameter x Pitch)

#711 6000 2106 2M6 5175

METRIC

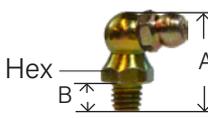


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36170	6MM x 1	21	3.7	9	0.02	---

45° ANGLE

#712 6045 2107 5176

METRIC

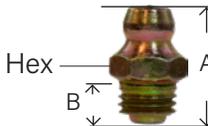


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36172	6MM x 1	18	3.7	9	0.02	---

90° ANGLE

#713 6090 2108 ZM906 5177

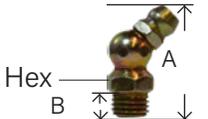
METRIC



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36174	8MM x 1	16	3.7	9	0.02	---

#811 8000 2103 ZM58 5178

METRIC

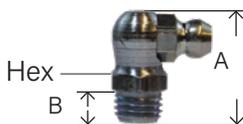


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36176	8MM x 1	21	3.7	9	0.02	---

45° ANGLE

#812 8045 2104 ZM458 5179

METRIC



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36178	8MM x 1	18	3.7	9	0.02	---

90° ANGLE

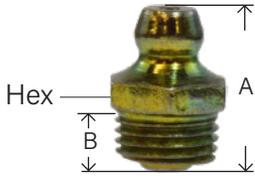
#813 8090 2105 ZM908 5180

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

STEEL GREASE FITTINGS

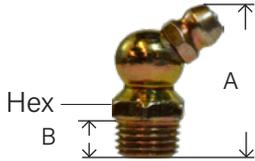
BRASS FITTINGS

METRIC

PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36180	10MM x 1	16	3.7	11	0.02	---

• Diameter x pitch (extra fine)

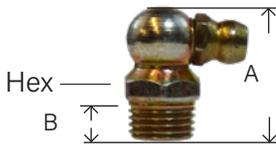
#911 9000 2109 ZM510 5181

METRIC

PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36182	10MM x 1	21	3.7	11	0.02	---

45° ANGLE

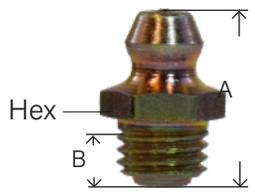
#912 9045 2110 ZM4510 5182

METRIC

PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.	LIST PRICE
36184	10MM x 1	18	3.7	11	0.02	---

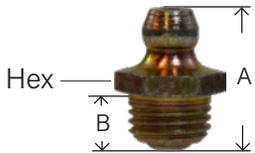
90° ANGLE

#913 9090 2111 ZM9010 5183



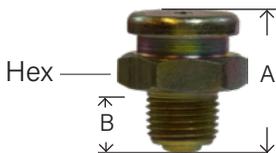
PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36186	5/16"-24	0.65	0.12	0.375	0.02	---

#711-B 1711 2500



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36188	3/8"-24	0.65	0.14	0.437	0.01	---

#710-B 1710 2600

BUTTON HEAD

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
36200	1/8"-27 PTF	0.75	0.34	0.625	0.03	---
36205	1/4"-18 NPT	0.83	0.44	0.625	0.03	---

1184 1186

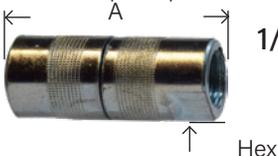
WHIP HOSE - EXCEEDS SAE 100R1-AT - use with hand grease guns only**10,000 PSI Burst Pressure Rubber Ho**1/8" NPT Solid Base
3/16" ID

3,000 PSI Working pressure

PART #	LENGTH	LIST PRICE
36210	12" RUBBER	---
36212	18" RUBBER	---
36214	24" RUBBER	---

4 JAW GREASE GUN COUPLER

Provides quick, positive, leakproof connection w/ grease fittings.



1/8" NPTF

PART #	A	HEX	APPROX. WT. LBS.	LIST PRICE
36220	1.50	0.56	0.05	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL GREASE FITTINGS

BRASS FITTINGS

ADAPTERS FOR GREASE FITTINGS

ADAPTERS



PART #	FEMALE	MALE	L	H	WEIGHT	LIST PRICE
36300	1/8"-27 NPTF	1/4"-28" SAE-LT	.75	1/2	0.02	---
36301	1/8"-27 NPTF	1/4"-28" SAE-LT	.87	1/2	0.02	---

* carbon steel, zinc coated



PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	LIST PRICE
36304	1/4"-28 UNF	M6 x 1.0	.43	9mm	0.01	---
36305	1/4"-28 UNF	M8 x 1.0	.45	3/8	0.01	---
36306	1/4"-28 UNF	M10 x 1.0	.32	7/16	0.01	---

EXTENSIONS



PART #	FEMALE ENGLISH TO MALE ENGLISH		L	H	WEIGHT	LIST PRICE
36307	1/4"-28 UNF	1/4"-28 SAE-LT	1.34	-	0.01	---
36311	1/8"-27 NPTF	1/8"-27 NPTF	1.25	1/2	0.04	---

*Brass plated

45° ANGLE ELBOWS



PART #	FEMALE	MALE	L	H	WEIGHT	LIST PRICE
36360	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.02	---
36362	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	---

90° ANGLE ELBOWS



PART #	FEMALE	MALE	L	H	WEIGHT	LIST PRICE
36370	1/8"-27 NPTF	1/4"-28 SAE-LT	.81	1/2	0.03	---
36371	1/8"-27 NPTF	1/4"-28 SAE-LT	1.04	1/2	0.03	---
36372	1/8"-27 NPTF	1/4"-18 PTF SAE Short	1.19	9/16	0.06	---
36374	1/8"-27 NPTF	1/8"-27 PTF SAE Short	1.00	1/2	0.03	---
36375	1/8"-27 NPTF	1/8"-27 NPTF	1.13	1/2	0.03	---
36377	1/4"-18 NPTF	1/4"-18 NPTF	1.34	11/16	0.08	---
36376	1/8"-27 NPTF	1/8"-27 NPTF	1.50	5/8	0.07	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS

SPECIALTY VALVES

BRASS FITTINGS

SPECIALTY VALVES AND COCKS

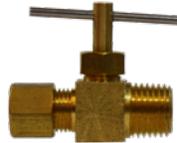
DRAIN COCKS



AIR VALVES



3, 4 AND 6 WAY



NEEDLE



MARINE & ANTI-SIPHON



PANEL MOUNT BALL VALVES



TRUCK



MINI BALL



SOLID BOTTOM SHUT-OFF



CHECK



SPRING BOTTOM SHUT-OFF

See our valve section for much, much more!

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DRAIN COCKS

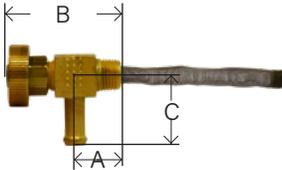
BRASS FITTINGS

DRAIN COCKS

- For use with low pressure air, water and fluids.
- Designed for a working pressure of 150 psi @ 250°.
- Hand-tightening provides a metal-to-metal seal.
- Not intended for natural gas, LPG, nuclear or aircraft applications.

Install on your tank for easy draining

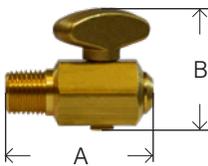
GASOLINE SHUT OFF w/ SCREEN FILTER



PART #	BARB X MALE PIPE	A	B	C	APPROX. WT. LBS.	LIST PRICE
46064	1/4" x 1/8"	0.55	1.34	0.66	0.06	---

827

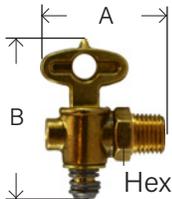
DRAIN COCK 150 PSI - Trunk Air Tank



PART #	MALE PIPE	A	B	APPROX. WT. LBS.	LIST PRICE
46066	1/4"	1.73	1.41	0.22	---

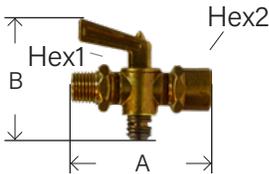
DCR601-4

TRUCK DRAIN - 125 P.S.I.G



PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46067	1/8"		1.53	1.95	0.62	0.14	---
46068	1/4"	W15310	1.53	1.95	0.62	0.18	---

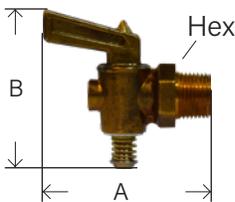
SHUT OFF - 150 P.S.I max.



PART #	MALE PIPE X FEMALE PIPE	INDUS-TRY NUMBER	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
46069	1/4"	W20332	1.96	1.96	0.75	0.62	0.20	---

#60HC 3380-A 0903610 367

LEVER HANDLE



- 30 psi

*Valve is closed when handle is in the position of the picture

PART #	MALE PIPE	INDUS-TRY NUMBER	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46070	1/8"	M-41-P	1.99	1.80	0.62	0.04	---
46071	1/4"	M-42-P	2.06	1.81	0.62	0.06	---
46072	3/8"	M-43-P	2.30	2.29	0.81	0.08	---
46073	1/2"	M-44-P	3.00	2.50	0.87	0.16	---

840 41D DC601

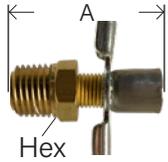
AIR TANK DRAIN PULL VALVE



PART #	SIZE	DESCRIPTION	LIST PRICE
39595	1/4" male	5ft nylon coated pull cable	---
39596	1/4" male	4ft nylon coated pull cable	---
39597	1/4" male	3ft nylon coated pull cable	---
39600	1/4" male	Air valve only	---

DRAIN COCKS

BRASS FITTINGS

INTERNAL SEAT

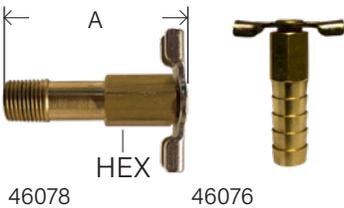
PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46079	1/8"	6783	1.45	0.55	0.02	---

DC602 808 400A 1800A

INTERNAL SEAT - Wing Nut Handle

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46074	1/8"	130	0.92	0.40	0.04	---
46075	1/4"	140	0.94	0.56	0.06	---
46077	3/8"	230	1.27	0.68	0.08	---

HB-5/16 803 305A

LONG INTERNAL SEAT

46078

46076

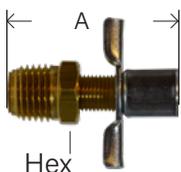
PART #	SIZE	IND #	A	HEX	APPROX. WT. LBS.	LIST PRICE
46078	1/8 MIP	1.85				---
46076	3/8" Hose I.D.		1.65	0.43	0.02	---

809

PIN HANDLE - Internal Seat

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46080	1/8"	M-200-P	1.22	0.50	0.04	---
46081	1/4"	M-201-P	1.31	0.56	0.06	---
46082	3/8"	M-202-P	1.53	0.68	0.12	---

DC603 802

EXTERNAL SEAT w/ SPOUT

PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.	LIST PRICE
46084*	1/4"	6788	1.56	0.56	0.02	---

* Replaces GM # 511771 & Chrysler #836015

200A 239 DC606 807

BIBB VALVE

PART #	MALE PIPE	INDUSTRY NUMBER	A	B*	C	APPROX. WT. LBS.	LIST PRICE
46088	1/8"	150	0.82	1.60	0.55	0.04	---
46089	1/4"	120	0.89	1.59	0.54	0.06	---
46089A	1/4"	6660	0.55	1.34	0.66	0.06	---

* With valve closed

804 DC607 2019 201DH

RADIATOR TYPE - External Seat

PART #	MALE PIPE	INDUSTRY NUMBER	IND #	A	HEX	APPROX. WT. LBS.	LIST PRICE
46085	1/8"	M-320-P	135	0.90	0.43	0.02	---
46086	1/4"	M-321-P	145	1.00	0.56	0.04	---
46087	3/8"	M-322-P	270	1.25	0.68	0.08	---
46083	1/2"	108	108	1.48	0.87	0.12	---

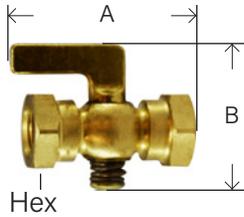
320D 240 DC604 801

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR COCKS

BRASS FITTINGS

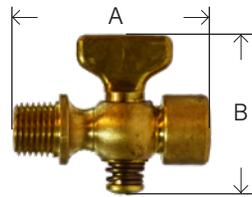
FIP X FIP



PART #	FIP X FIP	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46355	1/8"	58	1.97	1.70	0.56	0.15	31.18
46356	1/4"	59	2.10	1.71	0.75	0.18	28.94
46357	3/8"	60	2.10	1.69	0.81	0.20	48.70

• lever handle || • hex

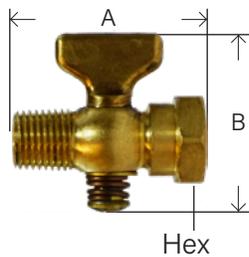
MIP X FIP



PART #	MIP X FIP	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46360	1/8"	40	1.70	1.55	0.14	25.60
46361	1/4"	41	1.94	1.55	0.16	28.53
46362	3/8"	42	2.06	1.50	0.20	38.70

• tee handle || • no hex

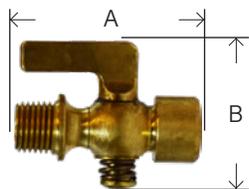
MIP X FIP



PART #	MIP X FIP	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46370	1/8"	49	1.81	1.55	0.56	0.14	37.69
46371	1/4"	50	2.06	1.55	0.75	0.20	31.20

• tee handle || • hex

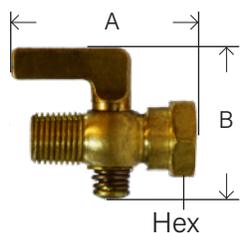
MIP X FIP



PART #	MIP X FIP	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46365	1/8"	46	1.94	1.72	0.14	30.17
46366	1/4"	47	2.10	1.65	0.16	32.12

• lever handle || • no hex

MIP X FIP



PART #	MIP X FIP	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46375	1/8"	52	1.93	1.69	0.56	0.16	37.09
46376	1/4"	53	2.06	1.76	0.75	0.20	39.36
46377	3/8"	54	2.13	1.71	0.81	0.22	46.65
46378	1/2"	54A	2.65	1.96	1.00	0.28	55.12

• lever handle || • hex

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

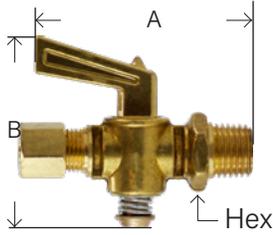


SHUT-OFF COCKS

BRASS FITTINGS

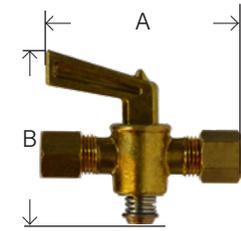
- Designed for working pressure of 30 PSI.
- Forged brass bodies and brass handles.

- Instantaneous off-on operation with 3600 rotation.
- Not good for gasoline.

COMPRESSION X MALE PIPE

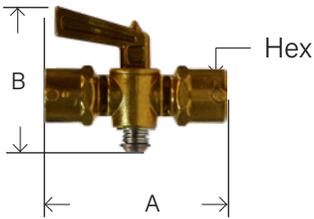
PART #	COMP X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46130	1/4" x 1/8"	27-C	1.87	1.81	0.51	0.14	---
46131	1/4" x 1/4"	227-C	2.05	1.86	0.62	0.15	---

868 V304C 2068 133C VC206

COMPRESSION X COMPRESSION

PART #	COMP X COMP	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46140	1/4"	28-C	1.82	1.84	0.12	---
46142	3/8"	58-C	1.87	1.80	0.14	---

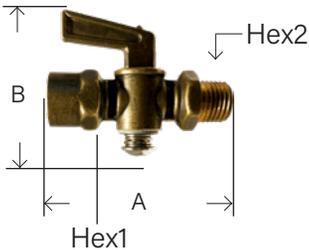
V3030F 2062 134C

FEMALE X FEMALE PIPE

PART #	FEMALE PIPE X FEMALE PIPE	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46151	1/8"	1.77	1.79	0.56	0.12	---
46152	1/4"	2.28	1.82	0.69	0.20	---
46153	3/8"	2.44	2.28	0.81	0.30	---

* 150 PSI

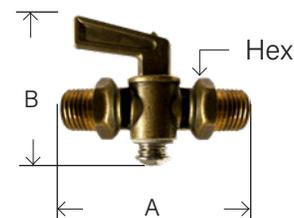
V403P 132C 875

MALE PIPE X FEMALE

PART #	MALE PIPE X FEMALE PIPE	IND. #	A	B	HEX 1	HEX 2	APPROX. WT. LBS.	LIST PRICE
46160	1/8"	48-P	2.03	1.84	0.50	0.56	0.14	---
46161	1/4"	49-P	2.26	1.79	0.69	0.69	0.18	---
46161T*	1/4"		2.26	1.98	0.69	0.69	0.20	---
46162	3/8"	50-P	2.33	2.28	0.82	0.82	0.28	---

* 150 PSI

880 V402P 130C

MALE PIPE X MALE PIPE

PART #	MALE PIPE X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.	LIST PRICE
46165	1/8"	76-P	2.15	1.80	0.69	0.12	---
46166	1/4"	77-P	2.22	1.84	0.70	0.17	---
46167	3/8"	78-P	2.43	2.24	0.82	0.22	---

* 150 PSI

1V401P 890

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NEEDLE VALVES

BRASS FITTINGS

NEEDLE VALVES

These are NOT Lead Free See lead Free Section for Lead Free products

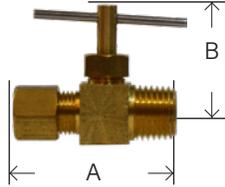
Made with either pin handle or pressed on handle.

Please specify if you have a preference.

- Used on instrumentation, hydraulic, and pneumatic systems.
- Designed for a maximum working pressure of 150 PSI.

- Provided with steel handles and metal-to-metal seats with fine-thread screwdown.
- Not designed for natural gas, LPG, nuclear or aircraft applications.
- Always install with pressure against the seat.

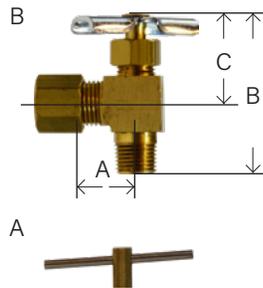
COMP X MALE PIPE



PART #	COMP X MALE PIPE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46002	1/4" x 1/8"	M-101-C	1.29	1.12	0.07	---
46003	1/4" x 1/4"	M-101-C	1.27	1.14	0.10	---

NV106C 2205 820 3068

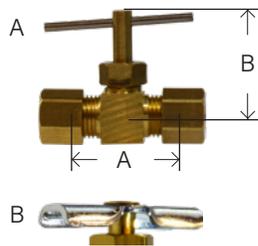
COMP X MALE PIPE-ANGLE



PART #	COMP X MALE PIPE	HAN-DLE	IND. #	A	B	C	APPROX. WT. LBS.	LIST PRICE
46011	1/4" x 1/8"	A	M-103-C	0.56	1.48	0.93	0.08	---
46012	1/4" x 1/4"	B	M-104-C	0.62	1.67	0.90	0.13	---
46013	5/16" x 1/8"	B	M-104-C	0.63	1.63	0.95	0.10	---
46016	3/8" x 1/4"	A	M-303-C	0.65	1.71	0.92	0.16	---

NV104C 2203 821 3069

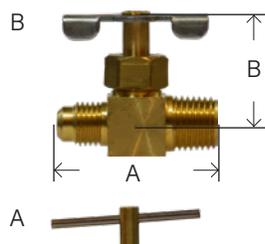
COMP X COMP



PART #	COMP X COMP	HANDLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46020	3/16"	B	M-105-C	1.06	0.88	0.08	---
46021	1/4"	A	M-106-C	1.17	1.12	0.10	---
46023	3/8"	B	M-113-C	1.31	1.15	0.13	---

NV105C 3062 2201 822

FLARE X MALE PIPE

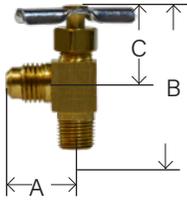


PART #	MALE FLARE X MALE PIPE	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46028	1/4" x 1/8"	A	M-104-SAE	1.35	1.12	0.07	---
46029	1/4" x 1/4"	B	M-1040-SAE	1.38	0.88	0.09	---

NV103F 2405 823 3048

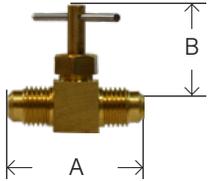
NEEDLE VALVES

BRASS FITTINGS

FLARE X MALE PIPE

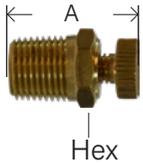
PART #	MALE FLARE X MALE PIPE	IND. #	A	B	C	APPROX. WT. LBS.	LIST PRICE
46036	1/4" x 1/8"	M-103-SAE	0.68	1.54	0.86	0.08	---
46040	3/8" x 1/4"	M-303-SAE	0.95	1.86	0.90	0.17	---

NV101F 2403 824 3049

FLARE X FLARE

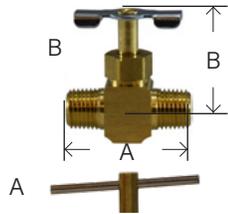
PART #	MALE FLARE X MALE FLARE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46045	1/4"	M-110-SAE	1.48	1.20	0.18	---
46046	3/8"	M-115-SAE	1.79	1.19	0.20	---

NV102F 3042 825 2401

MULTI-PURPOSE AIR VENT

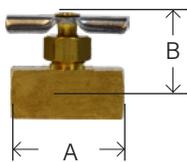
PART #	MALE PIPE	A	HEX	APPROX. WT. LBS.	LIST PRICE
46048	1/8"	0.78	0.43	0.02	---

705

MALE PIPE TO MALE PIPE

PART #	MALE PIPE X MALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46050	1/8"	A	M-108-P	1.25	1.09	0.08	---
46051	1/4"	B	M-110-P	1.69	1.00	0.16	---

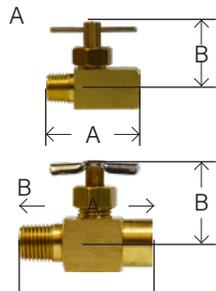
NV107P 2301 826 3122

FEMALE PIPE X FEMALE PIPE

PART #	FEMALE PIPE X FEMALE PIPE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46055*	1/8"	M-304-P	1.18	0.84	0.18	---
46056	1/4"	M-3044-P	1.60	1.24	0.21	---

* Pressed on handle

6800 NV109P 2304 817 3103

MALE X FEMALE PIPE

PART #	MALE PIPE X FEMALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.	LIST PRICE
46060	1/8"	A	M-305-P	1.18	1.09	0.10	---
46061	1/4"	A	M-3055-P	1.60	1.14	0.18	---

NBR seals -30°C to 120°C

NV108P 2305 818 3120

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



SPECIALTY VALVES

BRASS FITTINGS

BRASS TRUCK VALVES

- Used in heavy duty truck, trailer and mobile markets.
- Used on water, oil and coolant lines.
- Forged brass construction with steel handle.
- Temperature range -40° - 250°
- Max pressure 250 psi
- Metal to metal seats for high heat/ fluid compatibility
- Fine thread screw down to afford flow control ability and a positive seal.
- Not intended for natural gas, LPG, Nuclear or aircraft applications

200 PSI



TV44

BARB TO MALE PIPE

PART #	SIZE	LIST PRICE
46450	3/8 x 3/8	---
46451	5/8 x 3/8	---
46455	5/8 x 1/2	---
46457	3/4 x 3/8	---
46456	3/4 x 1/2	---

404V



TV45

FEMALE TO MALE PIPE

PART #	SIZE	LIST PRICE
46465	3/8 x 3/8	---
46466	3/8 x 1/2	---
46467	1/2 x 1/2	---

405V



TV49

FLARE TO MALE PIPE

PART #	SIZE	LIST PRICE
46475	1/2 x 1/2	---

409V



TV412

MIP X FLARE

PART #	SIZE	LIST PRICE
46485	1/2 x 5/8	---

SOLID BOTTOM VALVES

- Designed for instantaneous on-off operation.
- 3600 rotation standard.
 - 30 PSI
- Packed with grease.



8875

O-RING SEALED MIP X FIP

PART #	SIZE	LIST PRICE
46401	1/4	---
46402	3/8	---

1035D M-70-SBV

SOLID BOTTOM FUEL VALVES

- Approved for use on Motorcraft fuel lines.
- Pointer lever.
- 900 turn stop mechanism to assure positive location of the on and off positions.
- Corrosion proofed internal construction assures maximum salt atmosphere protection.
- Port hole is 1/4 (.250) diameter.
- UL listed for use in fuel oils no. 1 & no. 2, LP gas and utility gas.



PIPE MALE X FEMALE

PART #	SIZE	LIST PRICE
46401M	1/4 x 1/4	---

8980



PIPE MALE x MALE

PART #	SIZE	LIST PRICE
46406M	1/4 x 1/4	---

8990

- Good for Propane



PIPE FEMALE X FEMALE

PART #	SIZE	LIST PRICE
46411M	1/4 x 1/4	---

8975



MALE PIPE X FLARE

PART #	SIZE	LIST PRICE
46429M	1/4 x 3/8	---

8948

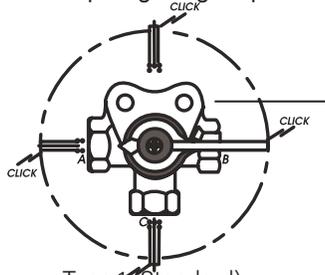
SPECIALTY VALVES

BRASS FITTINGS

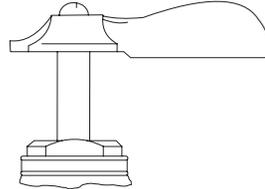
GROUND PLUG SHUT-OFF COCKS

NON-LUBRICATED PLUG VALVES are designed to operate in systems where INSTANTANEOUS PORT SELECTION is desired. Since LUBRICANTS ARE NOT USED, relubrication is not required. There is no lubricant to freeze and lock the valve or to contaminate fine fluids. The O-RING SEALED CAP and STEM eliminate leakage to atmosphere. The mating BRASS BODY and CELCON PLUG produce a fine seal that WILL NOT SEIZE OR GALL.

Designed for PANEL or BRACKET MOUNTING. They are generally recommended for operation in GASOLINE, OIL, AIR, WATER and DETERGENT systems from minus 400 to 1800F, at a maximum operating pressure of 30 p.s.i.g. The fluid port size is 9/32 (.281) diameter for 1/8 and 1/4 sizes, 5/16 (.312) diameter for the 3/8 size. (Consult factory for applications requiring a higher pressure).



Bracket Mount
Bracket Mount

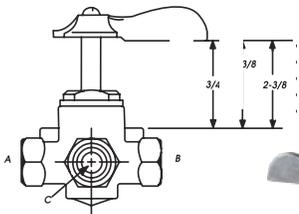


PANEL MOUNTING AVAILABLE

Type 1 (Standard)

A pronounced "click" may be felt at each position. Handle

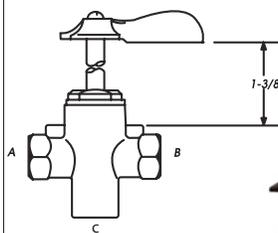
THREE-WAY VALVES (SIDE OUTLET)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard



THREE-WAY VALVES (BOTTOM OUTLET)



- 1-3/8" Stem
- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard



LESS CLICK

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46247	1/4	1-3/8"	---
46248	3/8	1-3/8"	---

M-108-MID WITH CLICK 3600

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46250	1/8	1-3/8"	---
46251	1/4	1-3/8"	---
46252	3/8	1-3/8"	---

V406P 6749

Openings:

- Handle Pointer over A.....Valve Open A-C
- Handle Pointer over C.....Valve Open B-C
- Handle Pointer over B.....Valve "OFF"
- Handle Pointer over Bracket.....Valve "OFF"

LESS CLICK

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46241	1/4	1-3/8"	---

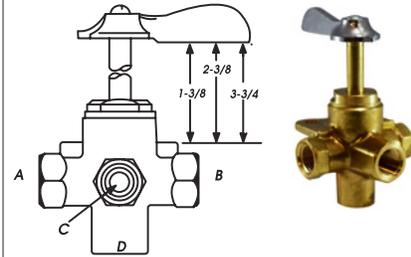
WITH CLICK 3600

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46244	1/4	1-3/8"	---

Openings:

- Handle Pointer over A.....Valve Open A-C
- Handle Pointer over B.....Valve Open B-C
- Handle Pointer over Bracket.....Valve "OFF"

FOUR-WAY VALVES



- Side Outlet
- Bracket Mounting
- O-Ring Sealed
- 4-way celcon roter standard

M-114-MID WITH CLICK (3600)

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM	LIST
46255	1/4	1-3/8"	---
46256	3/8	1-3/8"	---

Openings:

- Handle Pointer over A.....Valve Open A-D
- Handle Pointer over C.....Valve Open C-D
- Handle Pointer over B.....Valve Open B-D
- Handle Pointer over Bracket.....Valve "OFF"

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MARINE FITTINGS

BRASS FITTINGS

MARINE FITTINGS

- Calibrated to support 30" column of gasoline.
- Flo direction <-

BRASS ANTI-SIPHON VALVES MALE X MALE



PART #	SIZE	LIST PRICE
46520	1/4 x 1/4	---
46521	3/8 x 3/8	---
46522	1/2 x 1/2	---

BRASS ANTI-SIPHON VALVES BARB X NPT



PART #	SIZE	LIST PRICE
46529	1/4 x 1/4	---
46530	5/16 x 1/4	---
46531	3/8 x 1/4	---
46532	3/8 x 3/8	---
46533	1/2 x 3/8	---

MINI BALL VALVE - BRASS W/ SS HANDLE AND NUT



PART #	BARB X MIP	LIST PRICE
46987	3/8 x 1/4	---
46988	3/8 x 3/8	---
46989	1/2 x 1/2	---

- NBR O-Ring
- Brass or Aluminum
- Working temp 180°F
- #316 Ball & Spring
- 3,000 PSI

MALE MIP X FEMALE FIP BRASS



PART #	SIZE	LIST PRICE
46523	1/4	---
46524	3/8	---

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BRASS

MINIATURE BALL VALVES

BRASS FITTINGS

BRASS MINIATURE BALL VALVES

- Working Pressure up to 1000 P.S.I.G.
- ASTM B-16 Corrosion Resistant Brass Body.
- Non-Adjusting Viton O-Ring Stem Seal Design Never Needs Tightening.
- Highly Inert Teflon Seats.
- Long Life Nickel Plated Brass Ball.
- Blow-Out Proof Stem for Safety.
- Temperature: -40°F to 300°F
- 1/4 Turn Instantaneous On-Off Operation.
- Quarter Turn Handle Design.
- Water, Oil, and Air Pressure Systems.
- Ideal for tight, confined areas, or when routing aesthetics are desired. Applications include instrumentation, gas sampling systems, high pressure gauges, test stands, hydraulic and pneumatic service lines on capital equipment.
- Not good for steam.
- Good for propane, gas and diesel.



MALE X FEMALE

PART #	SIZE	LIST PRICE
46900	1/8 x 1/8	---
46903	1/4 x 1/4	---



MALE X MALE

PART #	SIZE	LIST PRICE
46910	1/8 x 1/8	---
46912	1/4 x 1/4	---



MALE PIPE X HOSE BARB

PART #	SIZE	LIST PRICE
46980	1/4 x 1/4	---
46981	1/4 x 3/8	---

FEMALE X FEMALE



PART #	SIZE	LIST PRICE
46920	1/8 x 1/8	---
46922	1/4 x 1/4	---



PART #	SIZE	LIST PRICE
46922A	1/4 x 1/4	---
46923	3/8 x 3/8	---



PART #	SIZE	LIST PRICE
46924	1/2 x 1/2	---

U.L. TWO WAY VALVES

- Buna-N Seal, Teflon Seat Plated metal handle, plated brass ball.
- 250 PSI Working Pressure



U.L. TWO WAY VALVES

PART #	SIZE	LIST PRICE
46440	1/4 x 1/4	---



U.L. TWO WAY VALVES

PART #	SIZE	LIST PRICE
46443	1/4 x 1/4	---

PANEL MOUNT BRASS BALL VALVES

- Working pressure: 1500 psi wog for 1/8" to 1/4", 1000 psi wog for 3/8" to 1/2"
- Vacuum rating: 29.92" Hg
- Working temp: -40°F to +300°F
- Panel mount hole is 9/16" Dia.
- Brass body cap, PTFE ball seats, Viton stem sealing, Brass chrome plated ball

FEMALE X FEMALE



PART #	SIZE	LIST PRICE
46830	1/8 x 1/8	---
46832	1/4 x 1/4	---
46833	3/8 x 3/8	---

FEMALE X FEMALE



PART #	SIZE	LIST PRICE
46878	1/4 x 1/4	---



PART #	SIZE	LIST PRICE
46951	1/8 FPT	---
46956	1/4 FPT	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

NICKEL PLATED PUSH-IN FITTINGS

BRASS FITTINGS

CHROME PLATED BRASS MINI BALL VALVES

- Compact Design
- Max Working Pressure 250 psi



PUSH-IN X PUSH-IN

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
28401	1/4	30/300	.10	---
28402	3/8	20/200	.21	---



PUSH-IN X MALE PIPE

PART #	SIZE TUBE X MIP	BOX/ CASE	WGT.	LIST PRICE
28404	1/4 x 1/4	30/300	.10	---
28405	3/8 x 3/8	20/200	.17	---



FIP X FIP

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46650	1/8	30/300	.11	---
46651	1/4	30/300	.10	---
46652	3/8	20/200	.14	---



MIP X FIP

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46661	1/4	30/300	.10	---
46662	3/8	20/200	.14	---

- Optional colors of handle plate for identification

PANEL MOUNT DESIGN



FIP X FIP ANGLE

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46670	1/8	20/200	.19	---



3-WAY FIP - CLOSED CENTER

PART #	SIZE	BOX/CASE	WGT.	LIST PRICE
46681	1/4	20/200	.21	---
46682	3/8	20/200	.21	---

CHECK VALVES

BRASS FITTINGS

BRASS CHECK VALVES

- 500 PSI •1 PSI Cracking Pressure
- Buna-N Seal for water, air & inert gas
- Viton Seal for oil, gas & diesel fuel



- 180° temp rating

FIP X FIP VITON

PART #	SIZE	LIST PRICE
46560V	1/8"	---
46561V	1/4"	---
46562V	3/8"	---
46563V	1/2"	---
46564V	3/4"	---



FEMALE X MALE BUNA-N

PART #	SIZE	LIST PRICE
46565	1/8"	---
46566	1/4"	---
46567	3/8"	---
46568	1/2"	---



MALE X MALE

PART #	SIZE	LIST PRICE
46570	1/8"	---
46571	1/4"	---
46572	3/8"	---
46573	1/2"	---



MALE X FEMALE

PART #	SIZE	LIST PRICE
46575	1/8"	---
46576	1/4"	---
46577	3/8"	---
46578	1/2"	---

HIGH PRESSURE CHECK VALVES

MAX. 2500 PSI
Cracking Pressure 1 PSI



operating temp. ball and
CV = 0.4 spring

MNPT X MNPT

PART #	SIZE	OPENING DIA.	LIST PRICE
46500	1/4 x 1/4	0.187	---

MAX. 2500 PSI

- Flo direction ->

- Opening diameter .187
- 1800 max operating temp.
- Buna Seal



•SS ball and
spring

MNPT X FNPT

PART #	SIZE	OPENING DIA.	LIST PRICE
46505	1/4 x 1/4	0.187	---

MAX. 1200 PSI

- O-Ring poppet seal Bubble tight operation
- 180°F max operating temp.



FNPT X FNPT

PART #	SIZE	OPENING DIA.	LIST PRICE
46510	1/4 x 1/4	0.25	---
46511	3/8 x 3/8	0.375	---
46512	1/2 x 1/2	0.437	---

PNEUMATIC CHECK VALVES

- Max Operating Pressure: 220 psi
- Working Pressure: 14.5-145 psi
- Cracking Pressure: 2.8 psi
- Maximum Temperatures: 140° F

Body	Chrome plated Brass
Spring	Steel
O-Ring	NBR Rubber



NPT- Inlet NPSM - Outlet

PART #	SIZE	DIMENSIONS (IN.)		LIST PRICE
		A	B	
46200	1/4	1.97	0.67	
46201	3/8	1.97	0.83	
46202	1/2	2.48	0.98	

HIGH PRESSURE CHECK VALVES

- Operates in any position, and is available in mixed or matched end combinations.

- Standard cracking pressure 1 p.s.i with a maximum operating pressure of 3000 p.s.i and a maximum operating temperature of 180°F using Buna-N seals.

- Buna-N seals standard, other seals available.

- Guided 316 stainless steel ball + spring.
- Fixed ringed seat prevents extrusion of seal.

- Opening diameter .28

- Approximate CV 1.2

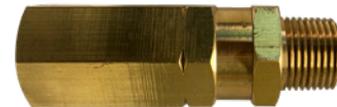
- Water G.P.M. @ 10 p.s.i. is 4.0

- Good for air



FEMALE X FEMALE

PART #	SIZE	LIST PRICE
46513	1/4	---
46517	3/8	---



FEMALE X MALE

PART #	SIZE	LIST PRICE
46514	1/4	---

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LEAD FREE



What is the new lead-free requirement?

In 2011, the Reduction of Lead in Drinking Water Act was signed into law. The Act has reduced the lead content allowed in drinking water system and plumbing materials by changing the definition of "lead-free" in Section 1417 of the Safe Drinking Water Act.

The term "lead-free" has been updated from not more than 8% lead content to mean "not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings and fixtures."

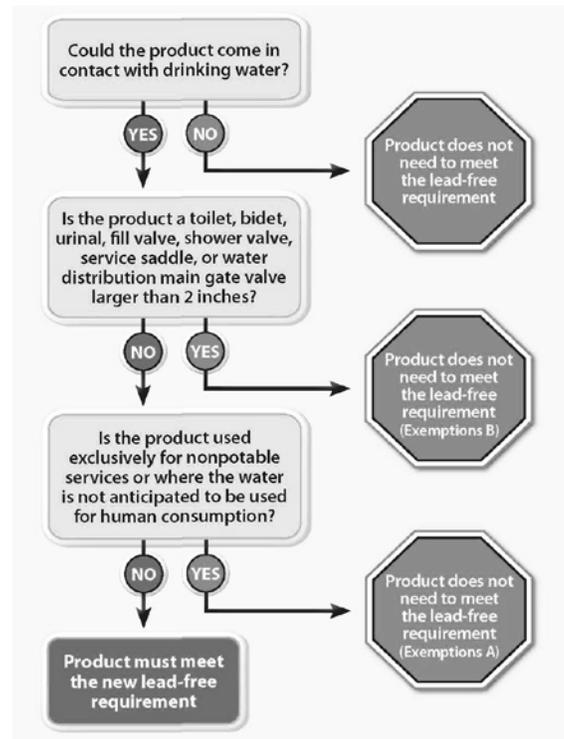
How do I know which products must meet the new lead-free requirement?

The prohibitions on use and introduction into commerce apply to all pipe, pipe fittings, plumbing fittings, and fixtures (henceforth referred to as "products"), including stocked inventories that have not been installed. This includes coated or uncoated brass or bronze materials. By using the flow-chart below as a guide, you can determine if a product must meet the new lead-free requirement:

Lead-Free Requirement Exemptions

(A) The new requirement does not apply to pipes, pipe fittings, plumbing fittings, or fixtures, including backflow preventers, that are used exclusively for nonpotable service such as manufacturing, industrial processing, irrigation, outdoor watering or any other uses where the water is not anticipated to be used for human consumption.

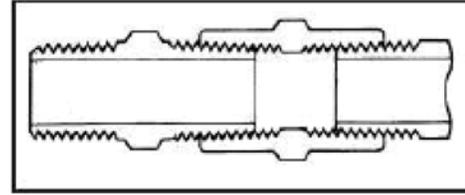
(B) The new requirement does not apply to toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles or water distribution main gate valves 2 inches in diameter or larger.



LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

BRASS PIPE FITTINGS LEAD FREE

- One piece construction, available in barstock or forgings
- Used with brass or steel pipe
- All pipe threads are "American Standard Taper Pipe Threads"
- Fair vibration resistance
- Used in low to medium pressure applications
- Teflon tape or pipe sealant is recommended
- Pipe threads should be tightened 2 1/2 turns past finger tight



NOMINAL PIPE SIZE	1/8	1/4	3/8	1/2	3/4	1
THREAD SIZE	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11 1/2
APPROX. DIAMETER IN INCHES	3/8"	1/2"	5/8"	3/4"	1"	1-3/8"

BRASS PIPE FITTINGS

ELBOW 90° BARSTOCK



LF100

PART #	SIZE	LIST
706100-02	1/8"	---
706100-04	1/4"	---
706100-06	3/8"	---
706100-08	1/2"	---
706100-12	3/4"	---

ELBOW 90° FORGED



PART #	SIZE	LIST
706200-02	1/8"	---
706200-04	1/4"	---
706200-06	3/8"	---
706200-08	1/2"	---
706200-12	3/4"	---

REDUCING ELBOW FORGED



PART #	SIZE	LIST
706205-0604	3/8" x 1/4"	---

ELBOW 45°



LF10045

PART #	SIZE	LIST
706107-02	1/8"	---
706107-04	1/4"	---

TEE BARSTOCK



PART #	SIZE	LIST
706101-02	1/8"	---
706101-04	1/4"	---
706101-06	3/8"	---
706101-08	1/2"	---
706101-12	3/4"	---

TEE FORGED



PART #	SIZE	LIST
706201-02	1/8"	---
706201-04	1/4"	---
706201-06	3/8"	---
706201-08	1/2"	---
706201-12	3/4"	---

REDUCING TEE FORGED



PART #	SIZE	LIST
706206-060604	3/8"x3/8"x1/4"	---

CROSS BARSTOCK



PART #	SIZE	LIST
706102-02	1/8"	---
706102-04	1/4"	---
706102-06	3/8"	---
706102-08	1/2"	---
706102-12	3/4"	---

COUPLING



PART #	SIZE	LIST
706103-02	1/8"	---
706103-04	1/4"	---
706103-06	3/8"	---
706103-08	1/2"	---
706103-12	3/4"	---

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

UNION



LF104

PART #	SIZE	LIST
706104-02	1/8"	---
706104-04	1/4"	---
706104-06	3/8"	---
706104-08	1/2"	---
706104-12	3/4"	---

CAP



LF108

PART #	SIZE	LIST
706108-02	1/8"	---
706108-04	1/4"	---
706108-06	3/8"	---
706108-08	1/2"	---
706108-12	3/4"	---

PLUG CORED SQUARE HEAD



LF

PART #	SIZE	LIST
706109-02	1/8"	---
706109-04	1/4"	---
706109-06	3/8"	---
706109-08	1/2"	---
706109-12	3/4"	---

PLUG SOLID SQUARE HEAD



LF109SD

PART #	SIZE	LIST
706114-02	1/8"	---
706114-04	1/4"	---
706114-06	3/8"	---
706114-08	1/2"	---
706114-12	3/4"	---

COUNTERSUNK PLUG HEX



LF109AL

PART #	SIZE	LIST
706115-02	1/8"	---
706115-04	1/4"	---
706115-06	3/8"	---
706115-08	1/2"	---
706115-12	3/4"	---

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

FACE BUSHING



LF110F

PART #	SIZE	LIST
706140-0402	1/4" x 1/8"	---
706140-0604	3/8" x 1/4"	---
706140-0806	1/2" x 3/8"	---
706140-1208	3/4" x 1/2"	---

PLUG CORED HEX HEAD



LF121

PART #	SIZE	LIST
706121-02	1/8"	---
706121-04	1/4"	---
706121-06	3/8"	---
706121-08	1/2"	---
706121-12	3/4"	---

PLUG SOLID HEX HEAD



PART #	SIZE	LIST
706125-02	1/8"	---
706125-04	1/4"	---
706125-06	3/8"	---
706125-08	1/2"	---

HEX BUSHING



LF110

PART #	SIZE	LIST
706110-0402	1/4" x 1/8"	---
706110-0602	3/8" x 1/8"	---
706110-0604	3/8" x 1/4"	---
706110-0802	1/2" x 1/8"	---
706110-0804	1/2" x 1/4"	---
706110-0806	1/2" x 3/8"	---
706110-1202	3/4" x 1/8"	---
706110-1204	3/4" x 1/4"	---
706110-1206	3/4" x 3/8"	---
706110-1208	3/4" x 1/2"	---
706110-1604	1" x 1/4"	---
706110-1606	1" x 3/8"	---
706110-1608	1" x 1/2"	---
706110-1612	1" x 3/4"	---

LEAD FREE PIPE
LEAD FREE BRASS FITTINGS

CLOSE NIPPLE



LF112

PART #	SIZE	LIST
706112-02	1/8"	---
706112-04	1/4"	---
706112-06	3/8"	---
706112-08	1/2"	---
706112-12	3/4"	---

LONG NIPPLE



LF113

PART #	SIZE	LIST
706113-0224	1/8" x 1-1/2"	---
706113-0232	1/8" x 2"	---
706113-0240	1/8" x 2-1/2"	---
706113-0248	1/8" x 3"	---
706113-0424	1/4" x 1-1/2"	---
706113-0432	1/4" x 2"	---
706113-0440	1/4" x 2-1/2"	---
706113-0448	1/4" x 3"	---
706113-0624	3/8" x 1-1/2"	---
706113-0632	3/8" x 2"	---

HEX NIPPLE



LF23325X
LF122

PART #	SIZE	LIST
706122-02	1/8"	---
706122-04	1/4"	---
706122-06	3/8"	---
706122-08	1/2"	---
706122-12	3/4"	---
706122-16	1"	---

REDUCING HEX NIPPLE



LF123

PART #	SIZE	LIST
706123-0402	1/4" x 1/8"	---
706123-0602	3/8" x 1/8"	---
706123-0604	3/8" x 1/4"	---
706123-0804	1/2" x 1/4"	---
706123-0806	1/2" x 3/8"	---
706123-1208	3/4" x 1/2"	---

REDUCING COUPLING



PART #	SIZE	LIST
706119-0402	1/4" x 1/8"	---
706119-0602	3/8" x 1/8"	---
706119-0604	3/8" x 1/4"	---
706119-0802	1/2" x 1/8"	---
706119-0804	1/2" x 1/4"	---
706119-0806	1/2" x 3/8"	---
706119-1208	3/4" x 1/2"	---

ADAPTER



PART #	SIZE	LIST
706120-0202	1/8" x 1/8"	---
706120-0402	1/4" x 1/8"	---
706120-0404	1/4" x 1/4"	---
706120-0602	3/8" x 1/8"	---
706120-0604	3/8" x 1/4"	---
706120-0606	3/8" x 3/8"	---
706120-0804	1/2" x 1/4"	---
706120-0806	1/2" x 3/8"	---
706120-0808	1/2" x 1/2"	---
706120-1208	3/4" x 1/2"	---
706120-1212	3/4" x 3/4"	---

SHORT BARSTOCK STREET ELBOW 90°



PART #	SIZE	LIST
706116-02	1/8"	---
706116-04	1/4"	---
706116-06	3/8"	---
706116-08	1/2"	---
706116-12	3/4"	---

BARSTOCK ST ELBOW



PART #	SIZE	LIST
706118-02	1/8"	---
706118-04	1/4"	---
706118-06	3/8"	---

LEAD FREE PIPE

LEAD FREE BRASS FITTINGS

FORGED* STREET ELBOW 90°



PART #	SIZE	LIST
706216-02	1/8"	---
706216-04	1/4"	---
706216-06	3/8"	---
706216-08	1/2"	---
706216-12	3/4"	---

FORGED* REDUCING STREET ELBOW



PART #	SIZE	LIST
706228-0402	1/4" x 1/8"	---
706228-0406	1/4" x 3/8"	---
706228-0608	3/8" x 1/2"	---
706228-0806	1/2" x 3/8"	---

* Forged and Barstock shapes may be substituted for one another in Lead Free.

STREET ELBOW 45°



LF124

PART #	SIZE	LIST
706124-02	1/8"	---
706124-04	1/4"	---
706124-06	3/8"	---
706124-08	1/2"	---
706124-12	3/4"	---

STREET TEE BARSTOCK



LF127

PART #	SIZE	LIST
706127-02	1/8"	---
706127-04	1/4"	---
706127-06	3/8"	---
706127-08	1/2"	---
706127-12	3/4"	---

STREET TEE FORGED



PART #	SIZE	LIST
706227-02	1/8"	---
706227-04	1/4"	---
706227-06	3/8"	---

ELBOW BARSTOCK



PART #	SIZE	LIST
706130-02	1/8"	---
706130-04	1/4"	---
706230-06	3/8"	---

LEAD FREE PIPE/LEAD FREE PUSH-ON

LEAD FREE BRASS FITTINGS

ELBOW FORGED



PART #	SIZE	LIST
706230-02	1/8"	---
706230-04	1/4"	---
706230-06	3/8"	---
706230-08	1/2"	---

REDUCING ELBOW



PART #	SIZE	LIST
706235-0402	1/4" x 1/8"	---
706235-0602	3/8" x 1/8"	---
706235-0604	3/8" x 1/4"	---
706235-0806	1/2" x 3/8"	---

TEE BARSTOCK



LF131

PART #	SIZE	LIST
706131-02	1/8"	---
706131-04	1/4"	---
706131-06	3/8"	---
706131-08	1/2"	---

TEE FORGED



PART #	SIZE	LIST
706232-02	1/8"	---
706232-04	1/4"	---
706232-06	3/8"	---

PUSH-ON

MALE ADAPTER



PART #	HOSE I.D. X MALE NPTF	LIST
707201-0402	1/4" x 1/8"	---
707201-0404	1/4" x 1/4"	---
707201-0604	3/8" x 1/4"	---
707201-0606	3/8" x 3/8"	---
707201-0608	1/2" x 3/8"	---
707201-0808	1/2" x 1/2"	---

LEAD FREE PIPE HOSE BARBS

LEAD FREE BRASS FITTINGS

LEAD FREE

RIGID MALE ADAPTER



LF29

PART #	HOSE I.D. X MALE NPTF	LIST
707001-0202	1/8" x 1/8"	---
707001-0204	1/8" x 1/4"	---
707001-0302	3/16" x 1/8"	---
707001-0304	3/16" x 1/4"	---
707001-0402	1/4" x 1/8"	---
707001-0404	1/4" x 1/4"	---
707001-0406	1/4" x 3/8"	---
707001-0408	1/4" x 1/2"	---
707001-0502	5/16" x 1/8"	---
707001-0504	5/16" x 1/4"	---
707001-0506	5/16" x 3/8"	---
707001-0602	3/8" x 1/8"	---
707001-0604	3/8" x 1/4"	---
707001-0606	3/8" x 3/8"	---
707001-0608	3/8" x 1/2"	---
707001-0804	1/2" x 1/4"	---
707001-0806	1/2" x 3/8"	---
707001-0808	1/2" x 1/2"	---
707001-0812	1/2" x 3/4"	---
707001-1006	5/8" x 3/8"	---
707001-1008	5/8" x 1/2"	---
707001-1012	5/8" x 3/4"	---
707001-1208	3/4" x 1/2"	---
707001-1212	3/4" x 3/4"	---
707001-1612	1" x 3/4"	---
707001-1616	1" x 1"	---

RIGID FEMALE ADAPTER



LF29F

PART #	HOSE I.D. X FEMALE NPTF	LIST
707002-0202	1/8" x 1/8"	---
707002-0204	1/8" x 1/4"	---
707002-0302	3/16" x 1/8"	---
707002-0304	3/16" x 1/4"	---
707002-0402	1/4" x 1/8"	---
707002-0404	1/4" x 1/4"	---
707002-0406	1/4" x 3/8"	---
707002-0502	5/16" x 1/8"	---
707002-0504	5/16" x 1/4"	---
707002-0506	5/16" x 3/8"	---
707002-0604	3/8" x 1/4"	---
707002-0606	3/8" x 3/8"	---
707002-0608	3/8" x 1/2"	---
707002-0804	1/2" x 1/4"	---
707002-0806	1/2" x 3/8"	---
707002-0808	1/2" x 1/2"	---
707002-1212	3/4" x 3/4"	---

LEAD FREE HOSE BARBS

LEAD FREE BRASS FITTINGS

FORGED HOSE BARB 90° ELBOW



LF29EBS

PART #	HOSE I.D. X MALE NPTF	LIST
707020-0402	1/4" x 1/8"	---
707020-0404	1/4" x 1/4"	---
707020-0602	3/8" x 1/8"	---
707020-0604	3/8" x 1/4"	---
707020-0606	3/8" x 3/8"	---
707020-0608	3/8" x 1/2"	---
707020-0804	1/2" x 1/4"	---
707020-0806	1/2" x 3/8"	---
707020-0808	1/2" x 1/2"	---

HOSE BARB TEES



PART #	HOSE BARB SIZE	LIST
707024-04	1/4"	---
707024-05	5/16"	---
707024-06	3/8"	---

MENDER/ SPLICER



PART #	HOSE I.D. X HOSE I.D.	LIST
707014-03	3/16"	---
707014-04	1/4"	---
707014-05	5/16"	---
707014-06	3/8"	---
707014-08	1/2"	---
707014-10	5/8"	---
707014-12	3/4"	---

LEAD FREE MINI BALL VALVES BARB X BARB



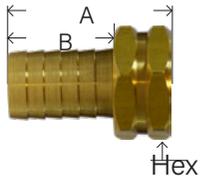
PART #	H.B. X H.B.	LIST
944142LF	1/4"	---
944134LF	3/8"	---

LEAD FREE GARDEN HOSE

LEAD FREE BRASS FITTINGS

BARSTOCK BRASS GARDEN HOSE COUPLINGS

FEMALE SWIVEL ONLY

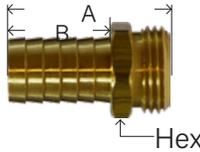


LF29FGH

PART #	HOSE BARB X FGH	LIST
707046-0812	1/2" x 3/4"	---
707046-1012	5/8" x 3/4"	---
707046-1212	3/4" x 3/4"	---

• WASHER INCLUDED

MALE END ONLY



LF29MGH

PART #	HOSE BARB X MGH	LIST
707048-0812	1/2" x 3/4"	---
707048-1012	5/8" x 3/4"	---
707048-1212	3/4" x 3/4"	---

GARDEN HOSE COUPLING



• WASHER INCLUDED

PART #	HOSE BARB SIZE	LIST
707042-08	1/2"	---
707042-10	5/8"	---
707042-12	3/4"	---

SWIVEL - FGH X FGH



LFS3

PART #	FGH X FGH	LIST
707403-12	3/4" x 3/4"	---
707402-12	no swivel	---

• WASHER INCLUDED

SWIVEL - FGH X FEMALE PIPE



LFS1
LFS2

PART #	FGH X FGH	LIST
707401-1208	3/4" x 1/2"	---
707401-1212	3/4" x 3/4"	---

• WASHER INCLUDED

RIGID - FGH X FEMALE PIPE



• WASHER INCLUDED

PART #	FGH X FGH	LIST
707411-1202	3/4" x 1/8"	---
707482-1208	3/4" x 1/2"	---
707482-1212	3/4" x 3/4"	---

LEAD FREE GARDEN HOSE

LEAD FREE BRASS FITTINGS

SWIVEL - FGH X MALE PIPE

• WASHER INCLUDED



PART #	FGH X MALE NPTF	LIST
707420-1204	3/4" x 1/4"	---
707420-1206	3/4" x 3/8"	---
707420-1208	3/4" x 1/2"	---

RIGID - FGH X MALE PIPE

• WASHER INCLUDED



PART #	FGH X FEMALE NPTF	LIST
707484-1208	3/4" x 1/2" (1/2" SWT)	---
707484-121208	3/4" x 3/4" (1/2" FIP)	---

RIGID - MGH X MGH



LF85GHT

PART #	MGH X MGH	LIST
707486-121208	3/4" x 3/4" (1/2" FIP)	---
707486-1212	3/4" x 3/4"	---

RIGID - MGH X FEMALE PIPE



LF110GH-124

PART #	MGH X FEMALE NPTF	LIST
707480-1204	3/4" x 1/4"	---
707480-1206	3/4" x 3/8"	---
707480-1208	3/4" x 1/2"	---
707480-1212	3/4" x 3/4"	---

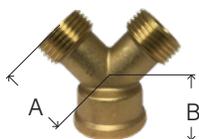
RIGID - MGH X MALE PIPE



LF68GH1216

PART #	MGH X MALE NPTF	LIST
707478-1206	3/4" x 3/8"	---
707478-1208	3/4" x 1/2"	---
707478-120808	3/4" x 1/2" (1/2" SWT)	---
707478-121208	3/4" x 3/4" x 1/2"	---

CAST BRASS HOSE - "Y" CONNECTOR



LFHY12

PART #	FGH X MGH(2)	LIST
707461-12	3/4"	---

LEAD FREE GARDEN HOSE

LEAD FREE BRASS FITTINGS

GARDEN HOSE CAP



PART #	SIZE	LIST
707404-12	3/4" Die Cast	---

LFHC-12W

GARDEN HOSE NUT



707407-12



707406-12

PART #	SIZE	LIST
707407-12	Knurled	---
707406-12	Hex Nut	---

EVAPORATING COOLER ADAPTERS



LFECF12H

* Pipe Threads
** Garden Hose
Threads

PART #	SIZE	LIST
30019LF*	3/4" x 3/4" x 1/8"	
30020LF**	3/4" x 3/4" x 1/8"	
30013LF*	1/2" x 1/2" x 1/8"	

SAE 45° brass flare fittings

- Two pieces construction – nut and body
- Use with copper, brass, aluminum, or steel tubing
- -40° to +250° F. temperature range
- Resists mechanical pullout
- Easy to disassemble and can be reassembled many times, with no effect on the seal
- Primary uses: fuel equipment, plumbing, gases, refrigeration, and vacuum lines
- Meet functional requirements for SAE, ASME and ASA codes for pressure piping



TO ASSEMBLE:

- 1 Cut smooth, square end on tubing
- 2 Slide nut onto tube - threads facing end
- 3 Flare end of tube
- 4 Thread nut to body until snug, then

TUBE O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1
THREAD SIZE	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	11/16-14	1-1/4-12	1 3/8-12

SHORT ROD NUT



LF41S
LF41XS

PART #	THREAD SIZE UNF	LIST
704014-02	1/8"	---
704014-03	3/16"	---
704014-04	1/4"	---
704014-05	5/16"	---
704014-06	3/8"	---
704014-08	1/2"	---
704014-10	5/8"	---
704014-12	3/4"	---

SHORT FORGED NUT



PART #	THREAD SIZE UNF	LIST
704018-04	1/4"	---
704018-06	3/8"	---
704020-0604	3/8" x 1/4"	---
704018-08	1/2"	---
704020-0806	1/2" x 3/8"	---
704018-10	5/8"	---
704020-1008	5/8" x 1/2"	---
704018-12	3/4"	---

LEAD FREE FLARE
LEAD FREE BRASS FITTINGS

UNION



LF242

PART #	THREAD SIZE UNF	LIST
704042-02	1/8"	---
704042-03	3/16"	---
704042-04	1/4"	---
704042-05	5/16"	---
704042-06	3/8"	---
704056-0604	3/8" x 1/4"	---
704042-08	1/2"	---
704056-0804	1/2" x 1/4"	---
704056-0806	1/2" x 3/8"	---
704042-10	5/8"	---
704056-1006	5/8" x 3/8"	---
704056-1008	5/8" x 1/2"	---
704042-12	3/4"	---

CAP



LF40

PART #	THREAD SIZE UNF	LIST
704040-04	1/4"	---
704040-05	5/16"	---
704040-06	3/8"	---
704040-08	1/2"	---
704040-10	5/8"	---

UNION TEE



PART #	SIZE (1 X 2 X 3)	LIST
704044-02	1/8"	---
704044-03	3/16"	---
704044-04	1/4"	---
704044-05	5/16"	---
704044-06	3/8"	---
704044-08	1/2"	---
704044-10	5/8"	---

REDUCING UNION TEE



PART #	SIZE (1 X 2 X 3)	LIST
704059-060604	3/8" x 3/8" x 1/4"	---
704059-060608	3/8" x 3/8" x 1/2"	---
704059-080806	1/2" x 1/2" x 3/8"	---
704059-080810	1/2" x 1/2" x 5/8"	---
704059-101008	5/8" x 5/8" x 1/2"	---

PLUG



LF39

PART #	THREAD SIZE UNF	LIST
704039-04	1/4"	---
704039-06	3/8"	---
704039-08	1/2"	---
704039-10	5/8"	---

FEMALE ADAPTER



LF46

PART #	MALE FLARE X FEMALE NPTF	LIST
704046-0302	3/16" x 1/8"	---
704046-0402	1/4" x 1/8"	---
704046-0404	1/4" x 1/4"	---
704046-0406	1/4" x 3/8"	---
704046-0408	1/4" x 1/2"	---
704046-0502	5/16" x 1/8"	---
704046-0504	5/16" x 1/4"	---
704046-0602	3/8" x 1/8"	---
704046-0604	3/8" x 1/4"	---
704046-0606	3/8" x 3/8"	---
704046-0608	3/8" x 1/2"	---
704046-0612	3/8" x 3/4"	---
704046-0804	1/2" x 1/4"	---
704046-0806	1/2" x 3/8"	---
704046-0808	1/2" x 1/2"	---
704046-0812	1/2" x 3/4"	---
704046-1006	5/8" x 3/8"	---
704046-1008	5/8" x 1/2"	---
704046-1012	5/8" x 3/4"	---
704046-1212	3/4" x 3/4"	---

MALE BRANCH TEE



PART #	SIZE	LIST
704045-0402	1/4" x 1/8"	---
704045-0404	1/4" x 1/4"	---
704045-0406	1/4" x 3/8"	---
704045-0604	3/8" x 1/4"	---
704045-0606	3/8" x 3/8"	---
704045-0608	3/8" x 1/2"	---
704045-0806	1/2" x 3/8"	---
704045-0808	1/2" x 1/2"	---
704045-1008	5/8" x 1/2"	---

FORGED SWIVEL



LF700

PART #	FEMALE FLARE UNF	LIST
704070-04	1/4"	---
704070-05	5/16"	---
704070-06	3/8"	---
704070-08	1/2"	---
704070-10	5/8"	---
704075-0604	3/8" x 1/4"	---
704075-0806	1/2" x 3/8"	---

LEAD FREE FLARE
LEAD FREE BRASS FITTINGS

MALE ADAPTER



LF48
LF248

PART #	MALE FLARE X MALE NPTF	LIST
704048-0202	1/8" x 1/8"	---
704048-0302	3/16" x 1/8"	---
704048-0402	1/4" x 1/8"	---
704048-0404	1/4" x 1/4"	---
704048-0406	1/4" x 3/8"	---
704048-0408	1/4" x 1/2"	---
704048-0502	5/16" x 1/8"	---
704048-0504	5/16" x 1/4"	---
704048-0506	5/16" x 3/8"	---
704048-0602	3/8" x 1/8"	---
704048-0604	3/8" x 1/4"	---
704048-0606	3/8" x 3/8"	---
704048-0608	3/8" x 1/2"	---
704048-0612	3/8" x 3/4"	---
704048-0804	1/2" x 1/4"	---
704048-0806	1/2" x 3/8"	---
704048-0808	1/2" x 1/2"	---
704048-0812	1/2" x 3/4"	---
704048-1006	5/8" x 3/8"	---
704048-1008	5/8" x 1/2"	---
704048-1012	5/8" x 3/4"	---
704048-1208	3/4" x 1/2"	---
704048-1212	3/4" x 3/4"	---
704048-1412	7/8" x 3/4"	---

UNION ELBOW



BS
LF255B

PART #	FLARE X FLARE	LIST
704055-04	1/4"	---
704055-06	3/8"	---
704055-08	1/2"	---
704057-0806	1/2" x 3/8"	---
704055-10	5/8"	---

FLARE X FIP TEE



PART #	FLARE X FLARE X FE PIPE	LIST
704058-080808	1/2" x 1/2" x 1/2"	---

LEAD FREE FLARE
LEAD FREE BRASS FITTINGS

90° MALE ELBOW



LF249B
BS

PART #	FLARE X MALE PIPE	LIST
704049-0302	3/16" x 1/8"	---
704049-0402	1/4" x 1/8"	---
704049-0404	1/4" x 1/4"	---
704049-0406	1/4" x 3/8"	---
704049-0408	1/4" x 1/2"	---
704049-0502	5/16" x 1/8"	---
704049-0504	5/16" x 1/4"	---
704049-0602	3/8" x 1/8"	---
704049-0604	3/8" x 1/4"	---
704049-0606	3/8" x 3/8"	---
704049-0608	3/8" x 1/2"	---
704049-0612	3/8" x 3/4"	---
704049-0804	1/2" x 1/4"	---
704049-0806	1/2" x 3/8"	---
704049-0808	1/2" x 1/2"	---
704049-0812	1/2" x 3/4"	---
704049-1006	5/8" x 3/8"	---
704049-1008	5/8" x 1/2"	---
704049-1012	5/8" x 3/4"	---
704049-1208	3/4" x 1/2"	---
704049-1212	3/4" x 3/4"	---

FEMALE ELBOW



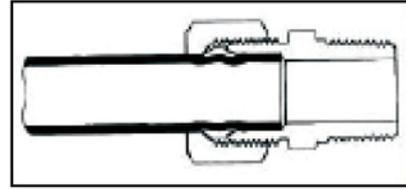
PART #	FLARE X FEMALE PIPE	LIST
704050-0402	1/4" x 1/8"	---
704050-0404	1/4" x 1/4"	---
704050-0604	3/8" x 1/4"	---
704050-0606	3/8" x 3/8"	---
704050-0608	3/8" x 1/2"	---
704050-0612	3/8" x 3/4"	---
704050-0806	1/2" x 3/8"	---
704050-0808	1/2" x 1/2"	---
704050-0812	1/2" x 3/4"	---
704050-1008	5/8" x 1/2"	---
704050-1012	5/8" x 3/4"	---
704050-1212	3/4" x 3/4"	---

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

BRASS COMPRESSION FITTINGS - LEAD FREE

- Three piece construction- nut, sleeve (or ferrule) and body
- Use with copper, aluminum, or plastic tubing (plastic requires 60P sleeve and 61P insert)
- -40° to +250° F. temperature range
- Easy to disassemble, no flaring tool required
- Primary uses: water, gasoline, oil, and vacuum lines



TO ASSEMBLE:

- 1 Cut smooth, square end on tubing
- 2 Slide nut, then sleeve onto tube. Threads must face end
- 3 Insert tube into fitting
- 4 Thread nut onto fitting until snug, then as follows:

Tube O.D.	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8
Thread Size	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18	1-1/8-18

BRASS COMPRESSION FITTINGS

BRASS SLEEVE



LF260
• FERRULES

PART #	SIZE	LIST
700060-02	1/8"	---
700060-03	3/16"	---
700060-04	1/4"	---
700060-05	5/16"	---
700060-06	3/8"	---
700060-07	7/16"	---
700060-08	1/2"	---
700060-10	5/8"	---
700060-12	3/4"	---
700060-14	7/8"	---

60 260

DELTRIN SLEEVE



PART #	SIZE	LIST
00560-04	1/4"	---
00560-05	5/16"	---
00560-06	3/8"	---
00560-08	1/2"	---
00560-10	5/8"	---

60-P

BRASS NUT



LF261

PART #	SIZE	LIST
700061-02	1/8"	---
700061-03	3/16"	---
700061-04	1/4"	---
700061-05	5/16"	---
700061-06	3/8"	---
700061-07	7/16"	---
700061-08	1/2"	---
700061-10	5/8"	---
700061-12	3/4"	---
700061-14	7/8"	---

BRASS INSERT



• SLEEVE

PART #	SIZE	LIST
700561-02	1/8"	---
700561-03	3/16"	---
700561-04	1/4"	---
700561-05	5/16"	---
700561-06	3/8"	---
700561-08	1/2"	---
700561-10	5/8"	---

BRASS NUT W/ CAPTIVE SLEEVE



LF611X6

PART #	SIZE	LIST
700261-02	1/8"	---
700261-03	3/16"	---
700261-04	1/4"	---
700261-05	5/16"	---
700261-06	3/8"	---
700261-08	1/2"	---
700261-10	5/8"	---
700261-12	3/4"	---
700261-14	7/8"	---

CAP



PART #	SIZE	LIST
700081-04	1/4"	---
700081-05	5/16"	---
700081-06	3/8"	---
700081-08	1/2"	---
700081-10	5/8"	---

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

UNION



LF262

PART #	SIZE	LIST
700062-02	1/8"	---
700062-03	3/16"	---
700062-04	1/4"	---
700062-05	5/16"	---
700062-06	3/8"	---
700062-07	7/16"	---
700062-08	1/2"	---
700062-10	5/8"	---
700062-12	3/4"	---
700062-14	7/8"	---

M-62

REDUCING UNION



LF62R

PART #	SIZE	LIST
700082-0402	1/4" x 1/8"	---
700082-0403	1/4" x 3/16"	---
700082-0504	5/16" x 1/4"	---
700082-0604	3/8" x 1/4"	---
700082-0605	3/8" x 5/16"	---
700082-0806	1/2" x 3/8"	---
700082-1006	5/8" x 3/8"	---
700082-1008	5/8" x 1/2"	---

62-R

TANK UNION



LF62T

• DRILLED THROUGH

PART #	SIZE	LIST
700092-06	3/8"	---
700092-08	1/2"	---
700092-10	5/8"	---
700092-14	7/8"	---

TEE



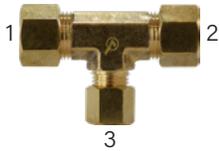
LF264B

PART #	SIZE	LIST
700064-02	1/8"	---
700064-03	3/16"	---
700064-04	1/4"	---
700064-05	5/16"	---
700064-06	3/8"	---
700064-08	1/2"	---
700064-10	5/8"	---
700064-14	7/8"	---

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

REDUCING TEE



LF264B

PART #	SIZE (1 X 2 X 3)	LIST
700084-040402	1/4" x 1/4" x 1/8"	---
700084-040406	1/4" x 1/4" x 3/8"	---
700084-060604	3/8" x 3/8" x 1/4"	
700084-080804	1/2" x 1/2" x 1/4"	
700084-080806	1/2" x 1/2" x 3/8"	
700084-101006	5/8" x 5/8" x 3/8"	

64-R

ELBOW



LF265

PART #	SIZE	LIST
700065-02	1/8"	---
700065-03	3/16"	---
700065-04	1/4"	---
700065-05	5/16"	---
700065-06	3/8"	---
700065-08	1/2"	---
700065-10	5/8"	---
700065-12	3/4"	---
700065-14	7/8"	---
700085-0604	3/8" x 1/4"	---
700085-0806	1/2" x 3/8"	---
700085-1006	5/8" x 3/8"	---
700085-1008	5/8" x 1/2"	

65 BSE2 165C 265C

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

FEMALE COUPLING



LF66
LF266

PART #	COMP. X FEMALE NPT	LIST
700066-0202	1/8" x 1/8"	---
700066-0302	3/16" x 1/8"	---
700066-0304	3/16" x 1/4"	---
700066-0402	1/4" x 1/8"	---
700066-0404	1/4" x 1/4"	---
700066-0406	1/4" x 3/8"	---
700066-0408	1/4" x 1/2"	---
700066-0502	5/16" x 1/8"	---
700066-0504	5/16" x 1/4"	---
700066-0506	5/16" x 3/8"	---
700066-0602	3/8" x 1/8"	---
700066-0604	3/8" x 1/4"	---
700066-0606	3/8" x 3/8"	---
700066-0608	3/8" x 1/2"	---
700066-0612	3/8" x 3/4"	---
700066-0804	1/2" x 1/4"	---
700066-0806	1/2" x 3/8"	---
700066-0808	1/2" x 1/2"	---
700066-0812	1/2" x 3/4"	---
700066-1006	5/8" x 3/8"	---
700066-1008	5/8" x 1/2"	---
700066-1012	5/8" x 3/4"	---
700066-1208	3/4" x 1/2"	---
700066-1212	3/4" x 3/4"	---
700066-1408	7/8" x 1/2"	---
700066-1412	7/8" x 3/4"	---

66

COMP X SWEAT ADAPTER



PART #	SIZE	LIST
700086-0610	3/8" x 1/2" nom.swt.	---

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

MALE ADAPTER COMP X MIP



LF68

PART #	SIZE	LIST
700068-0202	1/8" x 1/8"	---
700068-0302	3/16" x 1/8"	---
700068-0304	3/16" x 1/4"	---
700068-0402	1/4" x 1/8"	---
700068-0404	1/4" x 1/4"	---
700068-0406	1/4" x 3/8"	---
700068-0408	1/4" x 1/2"	---
700068-0502	5/16" x 1/8"	---
700068-0504	5/16" x 1/4"	---
700068-0506	5/16" x 3/8"	---
700068-0508	5/16" x 1/2"	---
700068-0602	3/8" x 1/8"	---
700068-0604	3/8" x 1/4"	---
700068-0606	3/8" x 3/8"	---
700068-0608	3/8" x 1/2"	---
700068-0612	3/8" x 3/4"	---
700068-0704	7/16" x 1/4"	---
700068-0706	7/16" x 3/8"	---
700068-0804	1/2" x 1/4"	---
700068-0806	1/2" x 3/8"	---
700068-0808	1/2" x 1/2"	---
700068-0812	1/2" x 3/4"	---
700068-1006	5/8" x 3/8"	---
700068-1008	5/8" x 1/2"	---
700068-1012	5/8" x 3/4"	---
700068-1208	3/4" x 1/2"	---
700068-1212	3/4" x 3/4"	---
700068-1408	7/8" x 1/2"	---
700068-1412	7/8" x 3/4"	---
700068-1416	7/8" x 1"	---

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

ELBOW COMP X MIP



LF269B
LF69F

PART #	SIZE	LIST
700069-0202	1/8" x 1/8"	---
700069-0302	3/16" x 1/8"	---
700069-0304	3/16" x 1/4"	---
700069-0402	1/4" x 1/8"	---
700069-0404	1/4" x 1/4"	---
700069-0406	1/4" X 3/8"	---
700069-0408	1/4" x 1/2"	---
700069-0502	5/16" x 1/8"	---
700069-0504	5/16" x 1/4"	---
700069-0506	5/16" x 3/8"	---
700069-0602	3/8" x 1/8"	---
700069-0604	3/8" x 1/4"	---
700069-0606	3/8" x 3/8"	---
700069-0608	3/8" x 1/2"	---
700069-0612	3/8" x 3/4"	---
700069-0704	7/16" x 1/4"	---
700069-0804	1/2" x 1/4"	---
700069-0806	1/2" x 3/8"	---
700069-0808	1/2" x 1/2"	---
700069-0812	1/2" x 3/4"	---
700069-1006	5/8" x 3/8"	---
700069-1008	5/8" x 1/2"	---
700069-1012	5/8" x 3/4"	---
700069-1208	3/4" x 1/2"	---
700069-1212	3/4" x 3/4"	---
700069-1412	7/8" x 3/4"	----

TANK CONNECTOR COMP X MIP



LF68T
• DRILLED
THROUGH

PART #	SIZE	LIST
700088-0302	3/16" x 1/8"	---
700088-0402	1/4" x 1/8"	---
700088-0404	1/4" x 1/4"	---
700088-0604	3/8" x 1/4"	---
700088-0606	3/8" x 3/8"	---
700088-0608	3/8" x 1/2"	---
700088-0806	1/2" x 3/8"	---
700088-0808	1/2" x 1/2"	---
700088-1008	5/8" x 1/2"	----

69 269C BSE1 169C

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

FEMALE ELBOW COMP X FIP



PART #	SIZE	LIST
700070-0202	1/8" x 1/8"	---
700070-0302	3/16" x 1/8"	---
700070-0402	1/4" x 1/8"	---
700070-0404	1/4" x 1/4"	---
700070-0406	1/4" x 3/8"	---
700070-0408	1/4" x 1/2"	---
700070-0502	5/16" x 1/8"	---
700070-0504	5/16" x 1/4"	---
700070-0602	3/8" x 1/8"	---
700070-0604	3/8" x 1/4"	---
700070-0606	3/8" x 3/8"	---
700070-0608	3/8" x 1/2"	---
700070-0612	3/8" x 3/4"	---
700070-0806	1/2" x 3/8"	---
700070-0808	1/2" x 1/2"	---
700070-1006	5/8" x 3/8"	---
700070-1008	5/8" x 1/2"	---
700070-1012	5/8" x 3/4"	---

45° ELBOW COMP X MIP



PART #	SIZE	LIST
700095-0402	1/4" x 1/8"	---
700095-0404	1/4" x 1/4"	---
700095-0604	3/8" x 1/4"	---
700095-0606	3/8" x 3/8"	---
700095-0806	1/2" x 3/8"	---
700095-0808	1/2" x 1/2"	---
700095-1008	5/8" x 1/2"	---

MALE RUN TEE COMPRESSION X MIP



LF272

PART #	SIZE	LIST
700071-0302	3/16" x 1/8"	---
700071-0402	1/4" x 1/8"	---
700071-0404	1/4" x 1/4"	---
700071-0502	5/16" x 1/8"	---
700071-0504	5/16" x 1/4"	---
700071-0604	3/8" x 1/4"	---
700071-0606	3/8" x 3/8"	---
700071-0806	1/2" x 3/8"	---

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

MALE BRANCH TEE COMP X MIP



PART #	SIZE	LIST
700072-0202	1/8" x 1/8"	---
700072-0302	3/16" x 1/8"	---
700072-0402	1/4" x 1/8"	---
700072-0404	1/4" x 1/4"	---
700072-0502	5/16" x 1/8"	---
700072-0504	5/16" x 1/4"	---
700072-0602	3/8" x 1/8"	---
700072-0604	3/8" x 1/4"	---
700072-0606	3/8" x 3/8"	---
700072-0806	1/2" x 3/8"	---
700072-0808	1/2" x 1/2"	---
700072-1008	5/8" x 1/2"	---
700072-1212	3/4" x 3/4"	----

TEE COMP X FIP X MIP



PART #	SIZE	LIST
700075-040202	1/4" x 1/8 x 1/8"	---

TEE FIP X MIP X COMP



PART #	SIZE	LIST
700076-0404	1/4" x 1/4" x 1/4"	---

FEMALE BRANCH TEE COMP X FIP



PART #	SIZE	LIST
700078-0602	3/8" x 1/8"	---
700078-0604	3/8" x 1/4"	---
700078-0606	3/8" x 3/8"	---
700078-1002	5/8" x 1/8"	---

FEMALE ADAPTER COMPRESSION X FEMALE FLARE



PART #	SIZE	LIST
700093-0404	1/4" x 1/4"	---

MALE ADAPTER COMPRESSION X MALE FLARE



PART #	SIZE	LIST
700094-0404	1/4" x 1/4"	---
	1/4" x 3/8"	

LEAD FREE COMPRESSION

LEAD FREE BRASS FITTINGS

FEMALE ADAPTER (GASKET) FEMALE COMPRESSION X COMPRESSION



PART #	SIZE	LIST
730097-0604	3/8" x 1/4"	---
700097-0806	1/2" x 3/8"	---

FEMALE ADAPTER (GASKET) FEMALE FLARE X COMPRESSION



PART #	SIZE	LIST
734822-0606	9/16-24 x 3/8	---

FEMALE ADAPTER (GASKET) FE GARDEN HOSE X COMPRESSION



PART #	SIZE	LIST
737422-1204	3/4" x 1/4"	---
737422-1206	3/4" x 3/8"	----

LF124GH
LF125GH

SWIVEL ELBOW COMP X FE GARDEN HOSE SWIVEL



PART #	SIZE	LIST
737469-0612	3/8" x 3/4"	---

LF69GHS-162
• NO NUT & SLEEVE

LEAD FREE ADD-A-TEE COMP X COMP X SWIVEL FE COMPRESSION



PART #	M & F COMP X MALE COMP	LIST
700073-060604	3/8 x 1/4	---
700073-060606	3/8 x 3/8	---



• For adding a water line
• Ice makers, Coffee makers and instant hot water systems

• NSF Approved

LEAD FREE NEEDLE VALVES

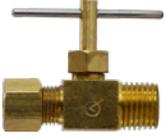
LEAD FREE BRASS FITTINGS

COMP X COMP



PART #	COMP X COMP	LIST
709106-04	1/4"	---
709106-05	5/16"	---
709106-06	3/8"	---

COMP X MALE PIPE



PART #	COMP X MALE PIPE	LIST
709101-0402	1/4" x 1/8"	---
709101-0404	1/4" x 1/4"	---
709101-0604	3/8" x 1/4"	---

COMP X MALE PIPE-ANGLE



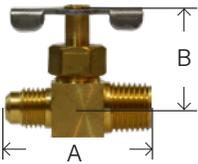
PART #	COMP X MALE PIPE	LIST
709103-0402	1/4" x 1/8"	---
709103-0404	1/4" x 1/4"	---
709103-0502	5/16" x 1/8"	---
709103-0602	3/8" x 1/8"	---
709103-0604	3/8" x 1/4"	---

FLARE X FLARE



PART #	FLARE X FLARE	LIST
709110-04	1/4"	---
709110-06	3/8"	---

FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	LIST
709104-0404	1/4" x 1/4"	---

FEMALE PIPE X FEMALE PIPE



PART #	FEMALE X FEMALE	LIST
709134-02	1/8" x 1/8"	---
709134-04	1/4" x 1/4"	---

MALE X FEMALE PIPE

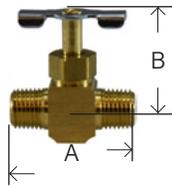


PART #	FEMALE X MALE	LIST
709135-02	1/8" x 1/8"	---
709135-04	1/4" x 1/4"	---

LEAD FREE NEEDLE VALVES

LEAD FREE BRASS FITTINGS

MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	LIST
709108-04	1/4"	---

VALVE WITH TEE



PART #	SIZE	LIST
709178-0406	1/4" x 3/8"	---
709178-0410	1/4" x 5/8"	---
709178-0606	3/8" x 3/8"	---

VALVE WITH SADDLE FITS UP TO 3/4" PIPE



PART #	SIZE	LIST
709195-04	1/4"	---
709195-05	5/16"	----
709195-06	3/8"	---

BRASS SADDLE



PART #	SIZE	LIST
709190	1/8"	---

SELF PIERCING SADDLE VALVES



PART #	DESCRIPTION	LIST
709199-04	Solid Pin	---
46090HLF	Hollow Pin	---

- 1/4 Tube O.D.

SELF PIERCING NEEDLE
VALVE KIT #M-104-VSP
• INDIVIDUALLY BAGGED
WITH NEEDLE VALVE

- SADDLE CLAMP
- 2 NUTS
- 2 BOLTS & WASHERS

Has brass sleeve for copper tube installation & delrin sleeve & brass insert for plastic tube installation.

ICE MAKER KITS
LEAD FREE BRASS FITTINGS

ICE MAKER KITS

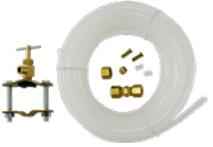
ICE MAKER WATER SUPPLY KIT WITH POLY TUBING



PART #	DESCRIPTION	LIST
760001	Kit	---

- Lead free fittings
- Bag with Header Card
- 25' 1/4" O.D. Polyethylene
- Self Piercing Saddle Valve
- 1/4" O.D. Compression x 1/8" MIP Elbow & Adapter
- 1/4" O.D. Compression Union
- 1/4" Inserts & Sleeves

ICE-MAKER WATER SUPPLY KIT



PART #	DESCRIPTION	LIST
760008	Kit	---

- Economy
- 25' Polyethylene Tubing
- Self Piercing Saddle Valve
- 1/4" Compression Union
- 1/4" Inserts & Sleeves

ICE-MAKER WATER SUPPLY KIT WITH COPPER TUBING



PART #	DESCRIPTION	LIST
760002	Kit	---

- Self Tapping Saddle Valve
- 25' Copper Tubing
- 1/4 Compression Union
- 1/4 x 1/8 Compression x MIP Connector
- 1/4 x 1/8 Compression x MIP Elbow

ICE-MAKER WATER SUPPLY KIT WITH COPPER TUBING



PART #	DESCRIPTION	LIST
760004	Kit	---

- Self Tapping Saddle Valve
- 10' Copper Tubing
- 1/4 Compression Union
- 1/4 x 1/8 Compression x MIP Connector
- 1/4 x 1/8 Compression x MIP Elbow

ICE-MAKER WATER SUPPLY KIT WITH COPPER TUBING



PART #	DESCRIPTION	LIST
760005	Kit	---

- Self Tapping Saddle Valve
- 15' Copper Tubing
- 1/4 Compression Union
- 1/4 x 1/8 Compression x MIP Connector
- 1/4 x 1/8 Compression x MIP Elbow

PLUMBING ACCESSORIES!



SUPPLY CONNECTORS



SUPPLY STOPS



RUBBER COUPLINGS



VACUUM BREAKER



DIELECTRIC UNIONS



PLASTIC PEX ADAPTERS

PLUMBING ACCESSORIES

PEX COUPLING



PART #	SIZE	LIST PRICE
35231	1/2" Pex	
35232	3/4" Pex	
35233	1" Pex	
35235	1/2" Pex x 3/8" Pex	
35236	3/4" Pex x 1/2" Pex	
35237	1" Pex x 3/4" Pex	
35238	1" Pex x 1/2" Pex	

STD PEX TEE



PART #	SIZE	LIST PRICE
35240	3/8" Pex	
35241	1/2" Pex	
35243	3/4" Pex	
35244	1" Pex	
35246	1/2" Pex x 3/4" Pex	
35247	3/4" Pex x 1/2" Pex x 1/2" Pex	
35248	3/4" Pex x 1/2" Pex x 3/4" Pex	
35249	3/4" Pex x 3/4" Pex x 1/2" Pex	
35250	3/4" Pex x 3/4" Pex x 1" Pex	
35251	1" Pex x 3/4" Pex x 3/4" Pex	
35252	1" Pex x 1" Pex x 1/2" Pex	
35253	1" Pex x 1" Pex x 3/4" Pex	
35254	1" Pex x 3/4" Pex x 1" Pex	

PEX ELBOW



PART #	SIZE	LIST PRICE
35257	3/8" Pex	
35258	1/2" Pex	
35260	3/4" Pex	
35261	1" Pex	
35259	3/4" Pex x 1/2" Pex	

STD PEX X FEMALE NPT ADAPTER



PART #	SIZE	LIST PRICE
35263	1/2" Pex x 1/2" Female NPT	
36264	3/4" Pex x 3/4" Female NPT	
36265	1" Pex x 1" Female NPT	

STD PEX X FEMALE NPSM ADAPTER



PART #	SIZE	LIST PRICE
35268	3/8" Pex x 1/2" Female NPSM	
36269	1/2" Pex x 1/2" Female NPSM	
35270	1/2" Pex x 3/4" Female NPSM	
35271	3/4" Pex x 3/4" Female NPSM	
35272	3/4" Pex x 3/4" Female NPSM	

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PLASTIC PEX ADAPTERS

PLUMBING ACCESSORIES

STD PEX X MALE NPT ADAPTER



PART #	SIZE	LIST PRICE
35276	1/2" Pex x 1/2" Male NPT	
35278	1/2" Pex x 3/4" Male NPT	
35279	3/4" Pex x 1/2" Male NPT	
35280	3/4" Pex x 3/4" Male NPT	
35281	1" Pex x 1" Male NPT	

PEX MALE ELBOW



PART #	SIZE	LIST PRICE
35284	1/2" Pex x 3/8" Male	
35285	1/2" Pex x 1/2" Male	
35286	3/4" Pex x 1/2" Male	
35287	3/4" Pex x 3/4" Male	

PEX FEMALE NPSM ELBOW



PART #	SIZE	LIST PRICE
35273	1/2" Pex x 1/2" Female NPSM Elbow	

PEX TEE



PART #	SIZE	LIST PRICE
35242	1/2" Pex x 1/2" Pex x 1/2" Male	

PEX PLUG



PART #	SIZE	LIST PRICE
35290	1/2" Pex	
35291	3/4" Pex	
35292	1" Pex	

HEX NIPPLE



PART #	SIZE	LIST PRICE
35277	1/2" Male Pipe x 1/2" Male Pipe	

PEX CLAMP



PART #	SIZE	LIST PRICE
35210	1/2"	
35211	3/4"	
35212	1"	

LEAD FREE BRASS PEX FITTINGS & ADAPTERS

PLUMBING ACCESSORIES

MALE ADAPTER

Pex x Male Pipe



PART #	SIZE	LIST PRICE
35076	1/2" x 1/2"	
35078	1/2" x 3/4"	
35079	3/4" x 1/2"	
38080	3/4" x 3/4"	
35082	3/4" x 1"	
35083	1" x 3/4"	
35081	1" x 1"	

FEMALE ADAPTER

Pex X Female Pipe



PART #	SIZE	LIST PRICE
35062	1/2" x 3/4"	
35063	1/2" x 1/2"	
35064	3/4" x 3/4"	
35065	1" x 1"	

MALE SWEAT ADAPTER

Pex X Male Sweat



PART #	SIZE	LIST PRICE
35076S	1/2" x 1/2"	
35080S	3/4" x 3/4"	
35081S	1" x 1"	

FEMALE SWEAT ADAPTER

Pex X Female Sweat



PART #	SIZE	LIST PRICE
35063S	1/2" x 1/2"	
35064S	3/4" x 3/4"	
35065S	1" x 1"	

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LEAD FREE BRASS PEX ADAPTERS

PLUMBING ACCESSORIES

COUPLING

Pex X Pex



PART #	SIZE	LIST PRICE
35030	3/8"	
35035	1/2" x 3/8"	
35031	1/2"	
35036	3/4" x 1/2"	
35032	3/4"	
35037	1" x 3/4"	
35033	1"	

UNION ELBOW

Pex X Pex



PART #	SIZE	LIST PRICE
35057	3/8"	
35058	1/2"	
35059	3/4" x 1/2"	
35060	3/4"	
35061	1"	

UNION TEE

Pex X Pex X Pex



PART #	SIZE	LIST PRICE
35040	3/8"	
35041	1/2"	
35043	3/4"	
35044	1"	

REDUCING UNION TEE

Pex X Pex X Pex



PART #	SIZE	LIST PRICE
35046	1/2" x 1/2" x 3/4"	
35047	3/4" x 1/2" x 1/2"	
35048	3/4" x 1/2" x 3/4"	
35049	3/4" x 3/4" x 1/2"	
35050	3/4" x 3/4" x 1"	
35051	1" x 3/4" x 3/4"	
35052	1" x 1" x 1/2"	
35053	1" x 1" x 3/4"	
35054	1" x 3/4" x 1"	


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PLUMBING ACCESSORIES

LEAD FREE BRASS PEX ADAPTERS

PLUMBING ACCESSORIES

MALE ELBOW

Pex X Male Pipe



PART #	SIZE	LIST PRICE
35085	1/2" x 1/2"	
35086	3/4" x 1"	

POLYBUTYLENE ADAPTER

Pex X Polyb W/ Copper And Poly Rings



PART #	SIZE	LIST PRICE
35031PB	1/2" x 1/2"	
35032PB	3/4" x 3/4"	

DROP EAR ELBOW

Pex X Female Pipe



PART #	SIZE	LIST PRICE
35095	1/2" x 1/2"	
35096	3/4" x 3/4"	

FEMALE SWEAT ELBOW

Pex X Female Sweat



PART #	SIZE	LIST PRICE
35073S	1/2" x 1/2"	
35074S	3/4" x 3/4"	

PLUG

Pex



PART #	SIZE	LIST PRICE
35090	1/2"	
35091	3/4"	
35092	1"	

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SUPPLY STOPS/ SS SUPPLY CONNECTORS

PLUMBING ACCESSORIES

SUPPLY STOPS - 1/4 TURN

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1



ANGLE STOPS



PART #	X 3/8 COMPRESSION	LIST PRICE
746456	5/8 Compression	---



PART #	X 3/8 COMPRESSION	LIST PRICE
746457	5/8 Compression Contractor Pack bagged less 3/8" Nut & Ferrule 10/Box	---



PART #	X 3/8 COMPRESSION	LIST PRICE
746436	3/8 Female Iron Pipe	---
746446	1/2 Female Iron Pipe	---



PART #	X 3/8 COMPRESSION	LIST PRICE
746466	LF 1/2 Nominal Sweat	---



PART #	X 3/8 COMPRESSION	LIST PRICE
746435	1/2 C/E Pex	---



PART #	X 3/8 COMPRESSION	LIST PRICE
746438	1/2 Nominal Pex	---

PRESS FIT



PART #	X 3/8 COMPRESSION	LIST PRICE
746470	1/2 Press	---

3 WAY STOPS



PART #	DESCRIPTION	LIST PRICE
746439	LF 5/8 Compression x 3/8 Compression x 1/4 Compression	---
746440	LF 5/8 Compression x 3/8 Compression x 3/8 Compression	---

SUPPLY STOPS/ SS SUPPLY CONNECTORS

PLUMBING ACCESSORIES

STRAIGHT STOPS

3/8" comp
or
5/8" comp  3/8" comp

PART #	X 3/8 COMPRESSION	LIST PRICE
746506	3/8 Compression	---
746556	5/8 Compression	---

3/8" comp  3/8" FIP
or
1/2 FIP

PART #	X 3/8 COMPRESSION	LIST PRICE
746536	3/8 Female Iron Pipe	---
746546	1/2 Female Iron Pipe	---

3/8" comp  1/2" Sweat

PART #	X 3/8 COMPRESSION	LIST PRICE
746566	1/2 Nominal Sweat	---

3/8" comp  1/2" Cold
Expansion Pex

PART #	X 3/8 COMPRESSION	LIST PRICE
746535	1/2 C/E Pex	---

3/8" comp  1/2" Pex

PART #	X 3/8 COMPRESSION	LIST PRICE
746538	1/2 Nominal Pex	---

1/4" comp  1/2" Pex

PART #	X 1/4 COMPRESSION	LIST PRICE
746537	1/2 Nominal Pex	---

3/8" comp  1/2" Socket
CPVC

PART #	X 3/8 COMPRESSION	LIST PRICE
746567	1/2 Socket CPVC	---

PRESS FIT STOPS

1/2" Press  3/8" comp

PART #	X 3/8 COMPRESSION	LIST PRICE
746570	1/2" Press	---

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SS SUPPLY CONNECTORS

PLUMBING ACCESSORIES

LEAD FREE

AB1953/S.152
Compliant

Meets S.3874/ Public Law No. 111-380 Re-
duction of Lead in Drinking Water Act

CONNECTORS

- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LAVATORY



3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	LIST PRICE
922012	12"	---
922016	16"	---
922020	20"	---
922030	30"	---
922036	36"	---



3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

922112	12"	---
922116	16"	---
922120	20"	---
922130	30"	---
922136	36"	---

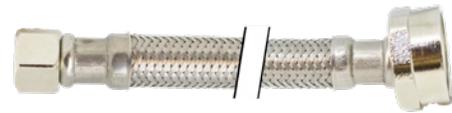


1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

922412	12"	---
922416	16"	---
922420	20"	---
922430	30"	---
922436	36"	---

NEW WITH BRASS NUT

BALLCOCK



3/8 COMPRESSION X 7/8 BALLCOCK

923409	9"	---
923412	12"	---
923416	16"	---
923420	20"	---



3/8 COMPRESSION X 7/8 BALLCOCK

923209	9"	---
923212	12"	---
923216	16"	---
923220	20"	---

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SS SUPPLY CONNECTORS

PLUMBING ACCESSORIES

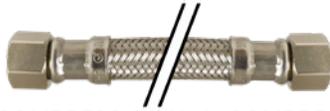
- Marine Grade Stainless Steel Braid
- Precision 12 Point Crimp
- Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

LEAD FREE

AB1953/S.152
Compliant

Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

ICE MAKER



1/4 COMPRESSION X 1/4 COMPRESSION

PART #	LENGTH	LIST PRICE
923112	12"	---
923124	24"	---
923136	36"	---
923148	48"	---
923161	60"	---
923172	72"	---
923196	96"	---

DISHWASHER

3/8 COMPRESSION X 3/8 COMPRESSION

922009	9"	---
922012	12"	---
922024	24"	---
922030	30"	---
922036	36"	---
922048	48"	---
922060	60"	---
922072	72"	---
922096	96"	---



3/8 COMPRESSION X 3/8 MALE IRON PIPE ELBOW

PART #	L	LIST PRICE
923648	48"	---
923660	60"	---
923672	72"	---



3/8 COMPRESSION X 3/4 FEMALE GARDEN HOSE ELBOW

924248	48"	---
924260	60"	---
924272	72"	---

WASHING MACHINE



3/4 FEMALE GARDEN HOSE X 3/4 FEMALE GARDEN HOSE

923936	36"	---
923948	48"	---
923960	60"	---
923972	72"	---



3/4 FEMALE IRON PIPE X 3/4 FEMALE IRON PIPE

924115	12"	---
924118	18"	---
924124	24"	---

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POWER CABLES

PLUMBING ACCESSORIES

Cords are designed to fit with special environment use, such as: range and dryer, RV, generators and marine shore.

- UL Listed
- ETL Listed
- Copper Wire Insulated, Flexible cord
- Thick PVC insulation with right angle male plugs
- Strain relief clamp helps prevent damage



3 WIRE RANGE CORDS



PART #	DESCRIPTION	LIST PRICE
P-4RC-3W-40A-CE	4' 40AMP Closed Eyelet	
P-5RC-3W-40A-CE	5' 40AMP Closed Eyelet	
P-6RC-3W-40A-CE	6' 40AMP Closed Eyelet	
P-4RC-3W-50A-CE	4' 50AMP Closed Eyelet	
P-5RC-3W-50A-CE	5' 50AMP Closed Eyelet	
P-6RC-3W-50A-CE	6' 50AMP Closed Eyelet	
P-10RC-3W-50A-CE	10' 50AMP Closed Eyelet	

3 WIRE DRYER CORDS



PART #	DESCRIPTION	LIST PRICE
P-4DC-3W-30A-CE	4' 30AMP Closed Eyelet	
P-5DC-3W-30A-CE	5' 30AMP Closed Eyelet	
P-6DC-3W-30A-CE	6' 30AMP Closed Eyelet	
P-10DC-3W-30A-CE	10' 30AMP Closed Eyelet	

4 WIRE RANGE CORDS



PART #	DESCRIPTION	LIST PRICE
P-4RC-4W-40A-CE	4' 40AMP Closed Eyelet	
P-5RC-4W-40A-CE	5' 40AMP Closed Eyelet	
P-6RC-4W-40A-CE	6' 40AMP Closed Eyelet	
P-4RC-4W-50A-CE	4' 50AMP Closed Eyelet	
P-5RC-4W-50A-CE	5' 50AMP Closed Eyelet	
P-6RC-4W-50A-CE	6' 50AMP Closed Eyelet	
P-10RC-4W-50A-CE	10' 50AMP Closed Eyelet	

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POWER CABLES
PLUMBING ACCESSORIES



4 WIRE DRYER CORDS



PART #	DESCRIPTION	LIST PRICE
P-4DC-4W-30A-CE	4' 30AMP Closed Eyelet	
P-5DC-4W-30A-CE	5' 30AMP Closed Eyelet	
P-6DC-4W-30A-CE	6' 30AMP Closed Eyelet	
P-10DC-4W-30A-CE	10' 30AMP Closed Eyelet	

DISHWASHER POWER CORDS



PART #	DESCRIPTION	LIST PRICE
P-3DISH-PC-AP	3' 15AMP 125V 14/3	
P-6DISH-PC-AP	6' 15AMP 125V 14/3	
P-3DISH-PC-SP	4' 15AMP 125V 14/3	
P-6DISH-PC-SP	6' 15AMP 125V 14/3	

POWER SUPPLY CORDS



PART #	DESCRIPTION	LIST PRICE
P-3PSC-3W-13A-AP	3' 13AMP 16/3 Angled	
P-6PSC-3W-13A-AP	6' 13AMP 16/3 Angled	
P-3PSC-3W-13A-SP	3' 13AMP 16/3 Straight	
P-6PSC-3W-13A-SP	6' 13AMP 16/3 Straight	

APPLIANCE EXTENSION CORDS



PART #	DESCRIPTION	LIST PRICE
P-3AEC	3' A/C 14/3	
P-6AEC	6' A/C 14/3	

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TRANSITION FITTINGS

PLUMBING ACCESSORIES

BRASS CPVC MALE ADAPTER



PART#	SIZE	LIST PRICE
35413LF	1/2"	---
35414LF	3/4"	---
35415LF	1"	---
35416LF	1-1/4"	---
35417LF	1-1/2"	---
35418LF	2	---

BRASS CPVC FEMALE ADAPTER



PART#	SIZE	LIST PRICE
35403LF	1/2"	---
35404LF	3/4"	---
35405LF	1"	---
35406LF	1-1/4"	---
35407LF	1-1/2"	---
35408LF	2	---

LEAD FREE CPVC DROP EAR ELBOW



PART#	SIZE	LIST PRICE
35420LF	1/2"	---

STAINLESS STEEL CPVC MALE ADAPTER



PART#	SIZE	LIST PRICE
35413SS	1/2"	---
35414SS	3/4"	---
35415SS	1"	---
35416SS	1-1/4"	---
35417SS	1-1/2"	---
35418SS	2	---

STAINLESS STEEL CPVC FEMALE ADAPTER



PART#	SIZE	LIST PRICE
35403SS	1/2"	---
35404SS	3/4"	---
35405SS	1"	---
35406SS	1-1/4"	---
35407SS	1-1/2"	---
35408SS	2	---

STAINLESS STEEL CPVC DROP EAR ELBOW



PART#	SIZE	LIST PRICE
35420SS	1/2"	---

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PLUMBING ACCESSORIES

WATER METER FLANGES

PLUMBING ACCESSORIES

LEAD FREE OVAL WATER METER FLANGE OVAL



PART#	SIZE	CASE	LIST PRICE
970207	1-1/2"	32	---
970208	2"	48	---

LEAD FREE OVAL WATER METER KIT

W/ BOLT & NUT STAINLESS STEEL



NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	4	N
2	FLANGE	BRASS LEAD FREE	2	Y
3	PACKING	RUBBER	2	Y
4	NUT	SS 304	4	N

PART#	SIZE	CASE	LIST PRICE
970227	1-1/2"	32	---
970228	2"	48	---

LEAD FREE OVAL METER FLANGE KIT

W/ BOLT & NUT STAINLESS STEEL (NO LEAD)



NO	PART	MATERIALS	QTY	WATER CONTACT
1	BOLT	SS 304	2	N
2	FLANGE	BRASS LEAD FREE	1	Y
3	PACKING	RUBBER	1	Y
4	NUT	SS 304	2	N

PART#	SIZE	CASE	LIST PRICE
970217	1-1/2"	12	---
970218	2"	10	---

LEAD FREE BRASS METER COUPLING



PART#	SIZE	CASE	LIST PRICE
970253	1/2"	100	---
970254	3/4"	100	---
970255	1"	80	---
970257	1-1/2"	24	---
970258	2"	24	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



FLEXIBLE RUBBER COUPLINGS

PLUMBING ACCESSORIES

FLEXIBLE RUBBER COUPLINGS / REDUCED COUPLINGS

Midland's stainless steel banded flexible rubber couplings are the perfect fit for Schedule 40 pipe applications.

Tech Specs:

- Installation torque: 60 inch lbs.
- Maximum test pressure: 4.3 PSI
- Maximum operating temperature: 140° F non-consistent
- Minimum operating temperature: -30° F
- Corrosion-resistant & rustproof stainless steel bands
- Durable Rubber for all Sch. 40 Pipe Applications
- Positive seal against infiltration and exfiltration
- Conforms to ASTM C 1173 and CSA B602
- Sizes 1-1/4" - 6" regular & reducing
- UPC Approved

COUPLING



REDUCING COUPLING



PART #	SIZE	LIST
195456	1-1/4"	
195470	1-1/2" x 1-1/4"	
195457	1-1/2"	
195471	2" x 1/2"	
195458	2"	
195472	3" x 1-1/2"	
195473	3" x 2"	
195459	3"	
195474	4" x 1-1/2"	
195475	4" x 2"	
195476	4" x 3"	
195460	4"	
195461	5"	
195481	6" x 4"	
195462	6"	

TEST CAPS



PART #	SIZE	LIST
195502	1-1/2"	
195510	2"	
195511	3"	
195512	4"	

DRAIN & TRAP CONNECTORS



PART #	SIZE	LIST
195520	1-1/2" x 1-1/4"	
195521	2" x 1-1/4"	

LF DIELECTRIC UNION

PLUMBING ACCESSORIES

Forged steel with brass sweat connector and dielectric element.

PURPOSE

The 110 series are used to protect against the accelerated galvanic and stray current corrosion of dissimilar metal pipes, connected together in a piping system. Dielectric fittings are a necessity to insure the long life of these systems.

APPLICATIONS

For residential, commercial and industrial use. Hot water storage tanks, Water and Air Conditioners, Processing tanks.

PROCESSING

Bodies and nuts are made of AISI 1008A bar-carbon steel and are shaped by cold forging with spheroidizing

to eliminate any flaws.

TECHNICAL DATA

All DF-100 series dielectric fittings are rated at 250 psi at 180°F and are designed to withstand a minimum of 600 volts on a dry line with no flashover.

FEMALE PIPE X SWEAT

Zinc Coated Cast Steel X Brass



PART #	SIZE	LIST PRICE
973-110LF	1/2"CC X 1/2" FIP	
973-111LF	3/4"CC X 3/4" FIP	
973-112LF	1/2"CC X 3/4" FIP	
973-116LF	1"CC X 1" FIP	
973-117LF	1-1/4"CC X 1-1/4" FIP	
973-118LF	1-1/2"CC X 1-1/2" FIP	
973-119LF	2"CC X 2" FIP	

MALE PIPE X SWEAT

Zinc Coated Cast Steel X Brass



PART #	SIZE	LIST PRICE
973-113LF	1/2" CC X 1/2" MALE IP	
973-114LF	3/4" CC X 3/4" MALE IP	

FEMALE PIPE X SWEAT - FLANGE

Zinc Coated Cast Steel X Brass



PART #	SIZE	LIST PRICE
973-120LF	2-1/2" CC X 2-1/2" FIP	
973-121LF	3"CC X 3" FIP	
973-122LF	4"CC X 4" FIP	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



IRON BODY CLEANOUT PLUGS

PLUMBING ACCESSORIES

CAST BRASS SQUARE HEAD CLEANOUT PLUG



• Southern Code

PART #	SIZE	BOX/CASE	LIST PRICE
970300	1-1/2"	100/200	---
970301	2"	100/200	---
970302	2-1/2"	50/200	---
970303	3"	20/160	---
970304	3-1/2"	20/120	---
970305	4"	10/80	---
970330	5"	10/60	---
970331	6"	10/40	---
970332	8"	5/20	---
970333	10"	1/1	---



CAST BRASS COUNTERSUNK HEAD CLEANOUT PLUG

• Southern Code

PART #	SIZE	BOX/CASE	LIST PRICE
970306	1-1/2"	100/200	---
970307	2"	100/200	---
970308	2-1/2"	100/200	---
970309	3"	50/200	---
970310	3-1/2"	20/160	---
970311	4"	20/120	---
970312	5"	10/60	---
970313	6"	10/40	---
970314	8"	5/20	---

CAST BRASS COUNTERSUNK CLEANOUT W 1/4-20 TAP

PART #	SIZE	BOX/CASE	LIST PRICE
970700	1-1/2"	1/1	---
970701	2"	1/1	---
970702	2-1/2"	1/1	---
970703	3"	1/1	---
970704	3-1/2"	1/1	---
970705	4"	1/1	---
970706	5"	1/1	---
970707	6"	1/1	---

IBC IRON BODY CLEANOUT PLUG



PART #	SIZE	LIST PRICE
970803CS	4x3 Iron Body Cleanout W/CNTRSunk Plug	
970804CS	4x3-1/2 Iron Body Cleanout W/CNTRSunk Plug	
970806CS	6x5 Iron Body Cleanout W/CNTRSunk Plug	

IBC IRON BODY CLEANOUT PLUG



PART #	SIZE	LIST PRICE
970803RH	4x3 Iron Body Cleanout W/RH Brass Plug	
970804RH	4x3-1/2 Iron Body Cleanout W/RH Brass Plug	
970806RH	6x5 Iron Body Cleanout W/RH Brass Plug	

PVC

PLUMBING ACCESSORIES

SLIP SCHEDULE 80 PVC UNION



PART #	SIZE	LIST PRICE
897005	1/2"	
897007	3/4"	
897010	1"	
897012	1-1/4"	
897015	1-1/2"	
897020	2"	
897025	2-1/2"	
897030	3"	
897040	4"	

FIP SCHEDULE 40 PVC UNION



PART #	SIZE	LIST PRICE
55591	1/2"	
55592	3/4"	
55593	1"	
55594	1-1/4"	
55595	1-1/2"	
55596	2"	
55597	3"	
55598	4"	
55599	2-1/2"	

FIP SCHEDULE 80 PVC UNION



PART #	SIZE	LIST PRICE
898005	1/2"	
898007	3/4"	
898010	1"	
898012	1-1/4"	
898015	1-1/2"	
898020	2"	
898025	2-1/2"	
898030	3"	
898040	4"	

PVC COMPRESSION COUPLING



PART #	SIZE	LIST PRICE
55303	1/2"	
55304	3/4"	
55305	1"	
55306	1-1/4"	
55307	1-1/2"	
55308	2"	
55309	2-1/2"	
55310	3"	
55311	4"	
55312	6"	

SLIP SCHEDULE 40 PVC UNION



PART #	SIZE	LIST PRICE
55491	1/2"	
55492	3/4"	
55493	1"	
55494	1-1/4"	
55495	1-1/2"	
55496	2"	
55497	3"	
55498	4"	
55499	2-1/2"	

PVC EXPANDABLE REPAIR COUPLING



PART #	SIZE	LIST PRICE
55330	1/2"	
55331	3/4"	
55332	1"	
55333	1-1/4"	
55334	1-1/2"	
55335	2"	
55336	2-1/2"	
55337	3"	
55338	4"	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



SCHEDULE 80 PVC NIPPLES

Machined Schedule 80 PVC nipples comply fully with ASTM D2464, threads conform to ASTM F1498, and the pipe is extruded from PVC 1120-1220 meeting ASTM D1784 and meets ASTM D1785, products standard 21-70



- Dark Grey
- NSF-61 Cert.

1/2" DIAMETER 420 PSI

PART #	LENGTH	LIST PRICE
55060	X Close (1-1/8")	---
55061	1-1/2"	---
55062	2"	---
55063	2-1/2"	---
55064	3"	---
55065	3-1/2"	---
55066	4"	---
55067	4-1/2"	---
55068	5"	---
55069	5-1/2"	---
55070	6"	---
55072	8"	---
55074	10"	---
55075	11"	---
55076	12"	---
	18"	---
55241	24"	---

3/4" DIAMETER 340 PSI

PART #	LENGTH	LIST PRICE
55080	x Close (1-3/8")	---
55081	1-1/2"	---
55082	2"	---
55083	2-1/2"	---
55084	3"	---
55085	3-1/2"	---
55086	4"	---
55087	4-1/2"	---
55088	5"	---
55089	5-1/2"	---
55090	6"	---
55092	8"	---
55093	10"	---
55096	12"	---
55097	18"	---
55098	24"	---

1" DIAMETER 315 PSI

PART #	LENGTH	LIST PRICE
55100	X Close (1-1/2")	---
55101	2"	---
55102	2-1/2"	---
55103	3"	---
55104	3-1/2"	---
55105	4"	---
55106	4-1/2"	---
55107	5"	---
55108	5-1/2"	---
55109	6"	---
55111	8"	---
55115	12"	---
55116	18"	---
55117	36"	---

1-1/4" DIAMETER 210 PSI

PART #	LENGTH	LIST PRICE
55120	X Close (1-5/8")	---
55121	2"	---
55122	2-1/2"	---
55123	3"	---
55124	3-1/2"	---
55125	4"	---
55126	4-1/2"	---
55127	5"	---
55128	5-1/2"	---
55129	6"	---
55132	12"	---

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PLASTIC PIPE

PLUMBING ACCESSORIES

1-1/2" DIAMETER 234 PSI

PART #	LENGTH	LIST PRICE
55140	X Close (1-5/8")	---
55141	2"	---
55142	2-1/2"	---
55143	3"	---
55144	3-1/2"	---
55145	4"	---
55146	4-1/2"	---
55147	5"	---
55148	5-1/2"	---
55149	6"	---
55150	8"	---
55151	12"	---

2" DIAMETER 200 PSI

PART #	LENGTH	LIST PRICE
55160	X Close (2")	---
55161	2-1/2"	---
55162	3"	---
55163	3-1/2"	---
55164	4"	---
55165	4-1/2"	---
55166	5"	---
55167	5-1/2"	---
55168	6"	---
55170	8"	---
55174	12"	---
55179	60"	---

3" DIAMETER

PART #	LENGTH	BOX QTY	LIST PRICE
55200	x Close	25	---
55201	3"	20	---
55203	4"	30	---
55205	5"	20	---
55207	6"	20	---
55209	8"	10	---
55211	10"	10	---
55213	12"	10	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BRONZE/ STEEL INSERT FITTINGS-FOR PLASTIC PIPE

PLUMBING ACCESSORIES

BRONZE INSERT FITTINGS

150 PSI Genuine red brass - for plastic pipe

- Not Lead Free

HEX MALE ADAPTERS



(BARB X MALE PIPE)

PART #	BARB X MALE	LIST PRICE
973925	3/4" x 3/4"	---
973927	1" x 1"	---
973930	1" x 1-1/4"	---
973929	1-1/4" x 1"	---
973928	1-1/4" x 1-1/4"	---
973948	1-1/2" x 1-1/2"	---
973949	2" x 2"	---

BRONZE TEES ALL BARB



PART #	SIZE	LIST PRICE
973965	3/4"	---
973966	1"	---
973967	1-1/4"	---

ELBOWS



(BARB X MALE PIPE)

PART #	SIZE	LIST PRICE
973980	3/4" x 3/4"	---
973981	1" x 3/4"	---
973982	1" x 1"	---

ELBOWS



(BARB X BARB)

PART #	HOSE SIZE	LIST PRICE
973975	3/4"	---
973976	1"	---
973978	1-1/4"	---
973979	1-1/2"	---

STEEL INSERT FITTINGS FOR PLASTIC PIPE

MALE ADAPTER

- Galvanized



(BARB X MALE PIPE)

PART #	SIZE	BOX/CASE	LIST PRICE
973906	1/2"	25/100	---
973907	3/4"	25/10	---
973908	1"	16/48	---
973909	1-1/4"	12/36	---
973910	1-1/2"	6/36	---
973911	2"	5/25	---
973912	2-1/2"	1/3	---
973913	3"	1/3	---
973914	4"	1/3	---

REDUCING ADAPTER



(INSERT X NPT)

PART #	SIZE	LIST PRICE
974264	3/4 x 1/2	---
974265	1 x 3/4	---

COUPLINGS



PART #	SIZE	BOX/CASE	LIST PRICE
973901	3/4	20/100	---
973902	1	20/100	---
973903	1-1/4	16/64	---
973904	1-1/2	12/48	---
973905	2	5/25	---

SEE KNOWLEDGE BANK FOR DIMENSIONS

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SS AND LEAD FREE BRONZE INSERT-FOR PLASTIC PIPE

PLUMBING ACCESSORIES

STAINLESS STEEL #304



#304 INSERT X MALE PIPE

• For coiled plastic pipe to submersible pump

PART #	SIZE	LIST PRICE
973947SS	1/2 x 1/2	---
973925SS	3/4 x 3/4	---
973926SS	1 x 3/4	---
973927SS	1 x 1	---
973930SS	1 x 1-1/4	---
973928SS	1-1/4 x 1-1/4	---
973948SS	1-1/2 x 1-1/2	---
973949SS	2 x 2	---



#304 INSERT X MIP ELBOW

• Hydrant elbow

PART #	SIZE	LIST PRICE
973980SS	3/4 x 3/4	---
973982SS	1 x 1	---

LEAD FREE BRONZE INSERT FITTINGS

• NSF Approved
• ANSI 61-8



INSERT X INSERT

PART #	SIZE	LIST PRICE
973961LF	3/4	---
973962LF	1	---
973963LF	1-1/4	---

• NSF Approved
• ANSI 61-8



INSERT TEE

PART #	SIZE	LIST PRICE
973965LF	3/4	---
973966LF	1	---

• NSF Approved
• ANSI 61-8



INSERT X MALE BRANCH TEE

PART #	SIZE	LIST PRICE
973970LF	1 x 3/4	---
973971LF	1	---

• NSF Approved
• ANSI 61-8



INSERT X INSERT ELBOW

PART #	SIZE	LIST PRICE
973975LF	3/4	---
973976LF	1	---

WELL COUPLINGS



304 SS DROP WELL COUPLINGS STANDARD

PART #	SIZE	LIST PRICE
62416DC	1-1/4	---

SEE KNOWLEDGE BANK FOR DIMENSIONS

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PVC VALVES

PLUMBING ACCESSORIES

- Quarter turn WHITE PVC BALL VALVES
- Solvent ends comply with ASTM D2466
- Designed for use in residential, commercial & industrial system as well as waste water, chemical, agricultural applications, marine, food processing, swimming pools.
- Corrosion resistant
- EPDM seal
- FULL PORT
- EPDM O-ring
- Fits both Sch. 40 & 80 pipe
- Rated for 150 PSI at 73°F
- Threaded ends comply with ANSI B1.20.1



MOLDED IN PLACE - WHITE PIPE THREADS

PART#	SIZE	CASE	LIST PRICE
940284	1/2"	100	---
940285	3/4"	100	---
940286	1"	100	---
940287	1-1/4"	100	---
940288	1-1/2"	48	---
940289	2"	24	---
940291	3"	12	---
940292	4"	6	---



WHITE SOCKET - SLIP X SLIP

PART #	SIZE	CASE	LIST PRICE
940294	1/2"	100	---
940295	3/4"	100	---
940296	1"	100	---
940297	1-1/4"	100	---
940298	1-1/2"	48	---
940299	2"	24	---
940300	2-1/2"	12	---
940301	3"	12	---
940302	4"	6	---

GREY PVC BALL VALVES

FEATURES

- Sizes range from 1/2" to 4"
- Excellent flow characteristics
- Leak-tight shut-off
- EPPM O-Ring
- SCH 80
- Test pressure: 225 psi @ 73°F
- Working Pressure: 150 psi @ 73°F



FIP X FIP THREADED BALL VALVE

PART #	SIZE	CASE	LIST PRICE
899000	1/2"	100	---
899001	3/4"	100	---
899002	1"	100	---
899003	1-1/4"	100	---
899004	1-1/2"	48	---
899005	2"	24	---
899006	2-1/2"		---
899007	3"		---
899008	4"		---



SLIP X SLIP BALL VALVE

PART #	SIZE	CASE	LIST PRICE
899050	1/2"	100	---
899051	3/4"	100	---
899052	1"	100	---
899053	1-1/4"	100	---
899054	1-1/2"	48	---
899055	2"	24	---



CPVC SLIP X SLIP BALL VALVE

PART #	SIZE	LIST PRICE
940281	1/2"	---
940282	3/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PLASTIC VALVES
PLUMBING ACCESSORIES

**INLINE PLASTIC
SPRING CHECK VALVE**

Socket x Socket

- 200 PSI working pressure @ 77°F .5 PSI to open.



PART#	SIZE	LIST PRICE
940325	1/2"	---
940326	3/4"	---
940327	1"	---
940328	1-1/4"	---
940329	1-1/2"	---
940330	2"	---

**INLINE PLASTIC SPRING CHECK VALVE
FEMALE THREADED ENDS**

- 200 PSI working pressure @ 77°F .5 PSI to open.



PART#	SIZE	LIST PRICE
940331	1/2"	---
940332	3/4"	---
940333	1"	---
940334	1-1/4"	---
940335	1-1/2"	---
940336	2"	---

PLASTIC DRUM FAUCETS

- Pipe threads to ANSI B1.20.1 • Hose threads to ANSI B 1.20.7

The FLO-RITE faucet has been engineered to meet the demand for greater chemical resistance, using linear polyethylene for the stem.



"FLO-RITE" DRUM FAUCET

PART #	SIZE	LIST PRICE
46277	3/4"	---

DRUM & BARREL FAUCET VALVE

- Die cast body w/ nylon seat and steel spring.
- For use with all petroleum products except trichlorethylene.

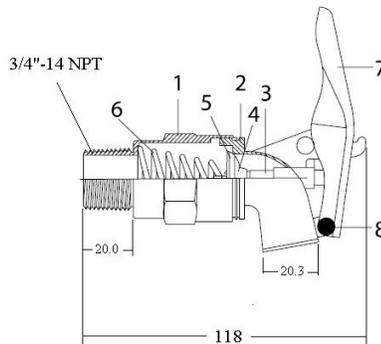
SELF-CLOSING DRUM & BARREL FAUCET

PART #	SIZE	LIST PRICE
46270	3/4"	---



G261N

Not suitable for potable water



PART #	PART NAME	MATERIAL
1	Body	Zinc
2	Bonnet	Zinc
3	Stem	Steel
4	Disc	Plastic
5	Seal	Rubber
6	Spring	Zinc plated steel
7	Handle	Aluminum
8	Rivet	Aluminum

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



LEAD FREE VALVES

LEAD FREE BALL VALVES



PRESS VALVES



PEX VALVES



PUSH FIT VALVES



SILCOCK



GATE VALVES



CHECK



BOILER DRAIN



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE VALVES

LEAD FREE BALL VALVES

LEAD FREE VALVES



LEAD FREE BALL VALVE



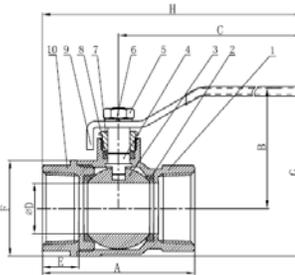
IAMPO IGC 157 - 2004b

Lead Free Brass Ball Valve NPT,Female*Female
 Lead Free and dezincification resistant (DZR) material
 IAPMO listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
 CSA listed to NSF/ANSI-61, NSF/ANSI-372 ,IGC-157
 Vacuum Services 29.92 inches Hg
 600 psi (WOG) 150 psi (WSP) Service
 Thread conform ANSI B1.20.1
 Temperature Range : -40° F to 365° F
 Construction:Forging Brass Body
 PTFE Ball Seats
 Blow Out Proof Brass Stem
 Stainless Steel Ball
 Steel Handle w/Vinyl Grip
 Made in China



FIP X FIP LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	F	G	H	WEIGHT	BOX/CASE	LIST PRICE
941151LF	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120	---
941152LF	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120	---
941153LF	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100	---
941154LF	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80	---
941155LF	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.94	8/48	---
941156LF	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.30	4/36	---
941157LF	1-1/2"	1.476	3.44	2.66	5.53	0.701	2.50	3.909	7.343	1.92	2/24	---
941158LF	2"	1.949	4.06	3.01	5.53	0.708	3.244	4.638	7.638	3.12	2/12	---
941159LF	2-1/2"	2.52	5.53	4.25	7.76					7.42	2/12	---
941160LF	3"	2.89	6.14	4.58	8.19					11.01	1/6	---
941161LF	4"	3.84	7.79	5.49	9.25					12.10	1/2	---



NO	ITEM	QTY	MATERIAL
1	Body	1	Lead Free Brass
2	Seat	2	PTFE
3	Ball	1	Stainless Steel
4	Stem	1	Brass
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass
8	Packing	1	PTFE
9	Handle	1	Plated Steel
10	Cap	1	Lead Free Brass

SWT X SWT LEAD FREE BALL VALVE

PART #	SIZE	DN	A	B	C	E	G	H	WEIGHT	WTG	BOX/CASE	LIST PRICE
941163LF	1/2"	0.524	1.945	1.73	3.35	0.504	1.083	2.276	4.319	0.38	10/100	---
941164LF	3/4"	0.748	2.654	1.89	3.35	0.748	1.378	2.579	4.665	0.65	10/80	---
941165LF	1"	0.984	3.315	2.14	4.29	0.909	1.772	3.031	5.949	0.93	8/48	---
941166LF	1-1/4"	1.240	3.741	2.32	4.29	0.968	2.165	3.398	6.165	1.35	4/36	---
941167LF	1-1/2"	1.476	4.252	2.66	5.63	1.091	2.50	3.909	7.756	1.88	2/24	---
941168LF	2"	1.949	5.38	3.01	5.63	1.343	3.244	4.638	8.268	3.62	2/12	---
941169LF	2 1/2"	2.52	5.53	4.25	7.76							
941170LF	3"	2.89	6.14	4.58	8.19							
941171LF	4"	3.84	7.79	5.49	9.25							

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LF BALL VALVE WITH DRAIN

LEAD FREE VALVES

FULL PORT LF IPS BRASS BALL VALVE WITH DRAIN



PART #	FEMALE PIPE X FEMALE PIPE	LIST PRICE
941153LFD	1/2"	
941154LFD	3/4"	
941155LFD	1"	

BALL VALVE WITH DRAIN



PART #	SWEAT X SWEAT	LIST PRICE
941163LFD	1/2"	
941164LFD	3/4"	
941165LFD	1"	

- Lead Free Brass
- Full Port
- 600 Wog

BALL VALVE W/ STAINLESS STEEL TEE HANDLE



PART #	FEMALE PIPE X FEMALE PIPE	LIST PRICE
940173TSSLF	1/2"	
940174TSSLF	3/4"	
940175TSSLF	1"	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE VALVES

LEAD FREE BALL VALVES
LEAD FREE VALVES

LEAD FREE VALVES



LEAD FREE BALL VALVE

• BRASS • 600PSI • FULL PORT

W/APPROVALS

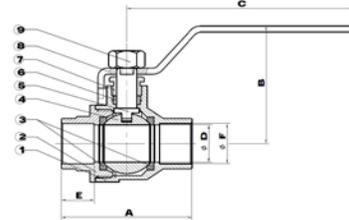
CSA, UL, FM(1/4"-2"), CUPC, NSF/ ANSI 61 & 372

FEATURES 1/2" - 2" Sizes Gas Approved

- Leadfree Brass Ball valve NPT, Female * Female
- Lead free and dezincification resistant (DZR) material
- 1/4"-1" Lead Free Brass Ball
- Size 1-1/4" thru 4" with Stainless steel ball
- IAMPO listed to cUPC, NSF/ ANSI 61 & 372, IGC 157
- CSA - 1/4" thru 2": ANSI Z21.15/ CSA 9.1 for 1/2 psig valves ASME B16.44, CGA CR91-002 for 2 & 5 psig valves; CAN/ CGA-3.16, ASME B16.33 (1/2"-2") for 125 psig valves
- UL 125, UL 1477, UL 842 - for size 1/4" thru 4", 250 psig
- UL 258 - for size 1/4" thru 2", 175 psig
- FM - for size 1/4" thru 2"
- ISO 9002 Manufacture
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- White vinyl insulator on heavy duty plated carbon steel handles

- Fast 1/4 turn open or close operation
- Low operating torque
- **Adjustable stem packing gland**
- Maximum operating temperature: 302°F (150° C)
- Minimum operating temperature: -22°F (-30°C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections
- Made in China

POS	COMPONENTS	MATERIALS
1	Body	Lead Free Brass
2	End Cap	Lead Free Brass
3	Ball Seat	PTFE
4	Ball	1/4-1:Lead Free Brass 1 1/4-4:SS316 Hollowball
5	Stem	Brass
6	Stem Padding	PTFE
7	Padding Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel
10	Seal	PTFE



PART#	SIZE	DIMENSIONS								WEIGHT	BOX/ CASE	LIST PRICE
		A	B	C	D	E	F	G	H			
940171LF	1/4"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	---
940172LF	3/8"	1.756	1.732	3.543	0.394	0.457	1.012	2.238	4.421	0.34	70/140	---
940173LF	1/2"	2.047	2.040	3.543	0.583	0.520	1.240	2.559	4.567	0.45	50/100	---
940174LF	3/4"	2.362	2.260	3.780	0.748	0.563	1.492	2.854	4.961	0.69	30/60	---
940175LF	1"	2.756	2.579	4.528	0.945	0.630	1.791	3.476	5.906	1.11	20/40	---
940176LF	1-1/4"	3.307	3.050	4.528	1.260	0.709	2.343	4.134	6.181	1.85	12/24	---
940177LF	1-1/2"	3.661	3.366	5.420	1.575	0.717	2.835	4.783	7.343	2.60	9/18	---
940178LF	2"	4.181	3.701	5.42	1.969	0.748	3.425	5.413	7.602	3.62	6/12	---
940179LF	2-1/2"	4.181	4.650	8.870	2.520	1.024	4.331	6.969	11.350	7.93	3/6	---
940180LF	3"	6.039	4.970	8.870	2.913	1.102	4.921	7.579	11.681	10.40	1/4	---
940181LF	4"	7.386	6.130	10.85	3.898	1.220	6.430	9.055	13.299	20.99	1/2	---

SWT X SWT LEAD FREE BALL VALVE

FM, cUPC, NSF/ ANSI 61 & 372

PART #	SWT	A	B	C	D	E	F	WEIGHT	BOX/CASE	LIST PRICE
943612LF	1/2"	2.047	1.839	3.543	0.583	0.512	0.630	0.45	50/100	---
943613LF	3/4"	2.748	2.14	3.780	0.748	0.748	0.878	0.68	30/60	---
943614LF	1"	3.228	2.449	4.528	0.945	0.906	1.130	1.08	20/40	---
943615LF	1-1/4"	3.819	3.04	4.36	1.260	0.972	1.378	1.80	12/24	---
943616LF	1-1/2"	4.425	3.169	5.39	1.575	1.088	1.630	2.51	9/18	---
943617LF	2"	5.377	3.488	6.307	1.989	1.346	2.130	3.57	6/12	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ITALIAN LEAD FREE BRASS BALL VALVE



ISO 9002 Manufacturer
FEATURES

600 PSI non-shock cold water,
gas, oil - 150 PSI saturated steam

CSA AGA 3.88 5 PSIG IAMPO IGC 157 - 2004b

- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Blue vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Adjustable stem packing gland

- Maximum operating temperature: 248°F (120° C) at 600 PSI
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

MADE IN ITALY



FIP X FIP

ANSI/INSF 61-8

- Generic Handles



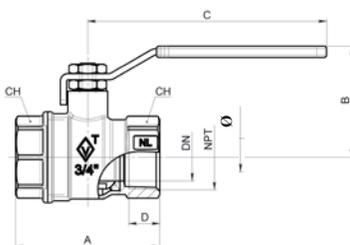
SWT X SWT

FIP X FIP LEAD FREE FORGED BRASS BALL VALVE

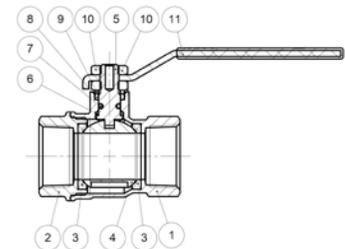
PART #	NPT	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	LIST PRICE
943233LF	1/2"	0.57	2.09	1.57	3.35	0.46	0.98	0.39	20/80	---
943234LF	3/4"	0.75	2.28	1.77	3.80	0.49	1.22	0.56	14/56	---
943235LF	1"	0.94	3.04	2.03	3.80	0.59	1.50	0.89	6/24	---
943236LF	1-1/4"	1.24	3.23	2.32	4.72	0.62	1.85	1.44	4/16	---
943237LF	1-1/2"	1.49	3.70	2.60	4.72	0.64	2.13	2.19	2/8	---
943-238LF	2"	1.96	4.13	3.27	6.38	0.65	2.64	3.62	1/4	---

SWT X SWT LEAD FREE FORGED BRASS BALL VALVE

PART #	SWT	Ø	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE	LIST PRICE
940212LF	1/2"	0.63	0.57	2.40	1.57	3.35	0.42	0.79	0.35	20/80	---
940213LF	3/4"	0.866	0.75	3.26	1.77	3.80	0.61	1.06	0.55	10/40	---
940214LF	1"	1.102	0.94	3.68	2.03	3.80	0.73	1.34	0.87	6/24	---
940215LF	1-1/4"	1.377	1.24	4.23	2.32	4.72	0.91	1.61	1.41	6/24	---
940216LF	1-1/2"	1.61	1.49	4.96	2.60	4.72	1.06	1.89	2.08	2/8	---
940217LF	2"	2.125	1.96	5.86	3.27	6.38	1.26	2.40	3.62	1/4	---



POS	Components	Materials
1	Body	CW510L
2	End Connection	CW510L
3	Ball Seal	PTFE
4	Seal	CW510L
5	Stem	CW614N
6	Lower Stem	PTFE
7	O-Ring	NBR70sh
8	Upper Seal	PTFE
9	Brass Ring	CW614N
10	Nut	Steel
11	Handle	Steel P10



PRESS BALL VALVE

LEAD FREE VALVES

LEAD FREE COPPER PRESS BALL VALVE

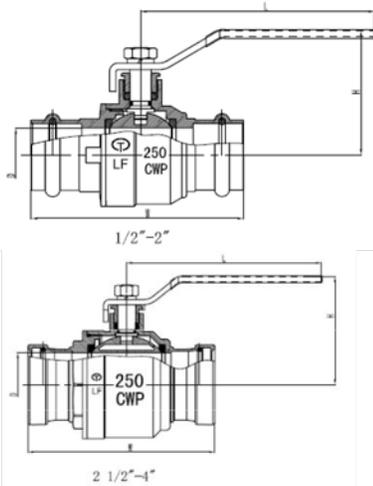
Midland Series "9404LF" 2-Piece, Full Port, Lead Free, Copper, Press Ball Valves are designed for use in flameless, copper press piping systems. Midland Copper Press Ball Valves feature a lead free brass body, adjustable packing gland and blowout proof stem with stem a single O-ring seal. Our press ball valves come with integral ASTM-B88 compliant press end connections that can be used with type K, L, M, hard copper tubing 1/2 in. – 4 in. Utilizing industry standard tools.

Midland Press Ball Valve Features

- Lead Free construction.
- Available Sizes: 1/2 in. – 4 in.
- Integral press end connections designed for hard and soft copper tubing
- ISO-9001
- 250 WOG - 250 CWP (2-1/2" - 4")
- Full Port Stainless Steel ball
- One O-Ring design
- Blow Out Proof Stem
- UPC & NSF-61 Compliant
- AB1953 & NSF-372 Compliant



Midland Copper Press Ball Valves are a heat-free method for joining copper tubes. Our press valve allows installers the confidence to know the joint is secure due to our leak-detection o-ring. During low pressure testing, if the joint is not pressed properly, the specialized o-ring will leak. This allows the installer to correct the press before the system is operational at higher pressures.



PART NAME	MATERIAL
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Stem O-Ring	NBR
Packing Nut	Brass
Stem	Brass (1/2"-2")
	Stainless Steel(2-1/2"-4")
Lock Nut	Ferrum /Zinc Plated
Lock Washer	Ferrum /Zinc Plated
Packing	PTFE
Handle	Ferrum /Chrome Plated
Cap	Lead Free Brass
Body O-Ring	NBR
Press O-Ring	EPDM

PART #	SIZE	D	L	H	W	CV	
940403LF	1/2"	0.591	3.46	1.81	3.15	18.55	---
940404LF	3/4"	0.748	4.29	2.09	3.60	29.76	---
940405LF	1"	0.984	4.29	2.25	3.92	51.55	---
940406LF	1-1/4"	1.259	5.63	2.52	4.41	84.42	---
940407LF	1 1/2"	1.574	5.63	2.74	5.35	131.93	---
940408LF	2 "	1.941	5.63	3.03	6.79	200.35	---
940409LF	2 1/2"	2.520	7.76	4.25	7.46	338.43	---
940410LF	3 "	2.874	8.19	4.58	8.17	445.44	---
940411LF	4"	3.839	9.25	5.49	9.88	783.88	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PEX BALL VALVES - LEAD FREE
LEAD FREE VALVES

C/E PEX & PEX BALL VALVES LEAD FREE



CUPC, AB 1953, NSF/ANSI 61, NSF/ ANSI 372 (ANNEX G) NSF-14

- 400 WOG
- FORGED LEAD FREE BRASS BODY
- SS BALL

UNION PEX VALVE
C/E PEX X C/E PEX



- Cold Expansion
- Conforms to ASTM F1960

PART #	SIZE	
945611LF	1/2"	---
945612LF	3/4"	---
945613LF	1"	---
945614LF	1-1/4"	---
945615LF	1 1/2"	---
945616LF	2 "	---

PEX VALVE WITH DROP EAR AND DRAIN
C/E PEX X C/E PEX
WITH DRAIN AND DROP EAR



- Cold Expansion
- Conforms to ASTM F1960

PART #	SIZE	
945621LF	1/2"	---
945622LF	3/4"	---
945623LF	1"	---

MALE ADAPTER PEX VALVE
MALE PIPE X C/E PEX

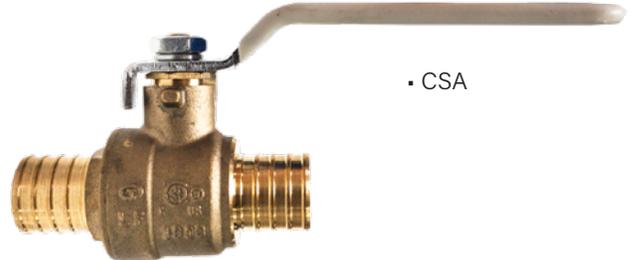


- Cold Expansion
- Conforms to ASTM F1960
- Thread conforms to ANSI B1.20.1

PART #	SIZE	
945631LF	1/2"	---
945632LF	3/4"	---
945633LF	1"	---

- Dezincification resistant (D2B) Lead Free Brass material
- Cold expansion pex ends conform to ASTM F1960
- Blow out proof stem design

PEX X PEX
PEX ENDS CONFORM TO ASTM F1807



- CSA

PART #	SIZE	
945601LF	1/2"	---
945602LF	3/4"	---
945603LF	1"	---
945604LF	1-1/4"	---
945605LF	1-1/2"	---
945606LF	2"	---

W/TEE HANDLE

PART #	SIZE	
945640LF	3/4"	---

PEX DRAIN VALVE



- Conforms to ASTM F1807

PART #	SIZE	
945650LF	1/2"	---
945651LF	3/4"	---
945652LF	1"	---

PEX x FEMALE PIPE



PART #	SIZE	LIST PRICE
973635LF	1/2"	
973636LF	3/4"	
973637LF	1"	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE VALVES

LEAD FREE VALVES
LEAD FREE VALVES

LEAD FREE, FULL PORT BRASS BALL VALVES PUSH-FITTING END

FEATURES

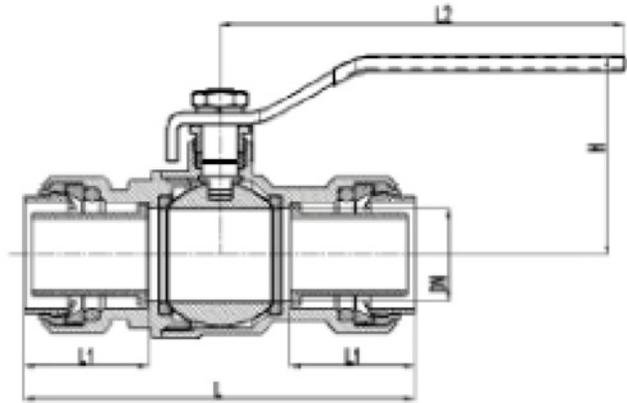
- dezincification resistant (DZR) Lead Free Brass Material
- Push-fitting conform ASSE 1061
- Forged Brass Body
- BLow Out Proof Stem Design
- Packing Nut & Packing On the Stem Seal
- Stainless Steel Ball
- Handle with Vinyl Grip
-
- PERFORMANCE RATING
- 200 psi (CWP) 150 psi (WSP) Service
- Temperature Range: -20° F to 300° F



PUSH FIT VALVES

PART NO.	SIZE	DN	L	L1	L2	H	CV	WT(LBS.)	LIST
943750LF	1/2"	0.524	3.15	0.91	3.46	1.73	14.56		
943751LF	3/4"	0.748	3.55	1.10	3.46	1.89	29.76		
943752LF	1"	0.984	4.14	1.32	4.29	2.14	51.55		

PART NAME	MATERIAL
Body	Lead Free Brass
Seat	PTFE
Ball	Stainless Steel
Packing Nut	Brass
Stem	Brass
Lock Nut	Ferrum/Zinc Plated
Lock Washer	Ferrum/Zinc Plated
Packing	Ptfe
Handle	Ferrum/Chrome Plated
Cap	Lead Free Brass
O-Ring	EPDM
Seat Ring	POM
Gripper Ring	Stainless Steel
Push Ring	POM
Lock Ring	POM
Liner	PSF



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

**LEAD FREE GATE/ CHECK/ Y VALVES
LEAD FREE VALVES**

BRASS GATE VALVE IPS

- 200 WOG (Cold water, oil, gas)
- 125 WSP (Saturated Steam)
- Brass Forged body/bonList- stronger than sand castings.
- Superior quality and finish.
- Each valve individually tested.
- Threaded ends to ANSI B1.20.1, Solder ends to ANSI B16.18
- Non rising stem.
- Cast iron handle.
- NSF Approved



BRASS GATE VALVE IPS

PART#	SIZE	LIST PRICE
940130LF	1/4	---
940131LF	3/8	---
940132LF	1/2	---
940133LF	3/4	---
940134LF	1	---
940135LF	1-1/4	---
940136LF	1-1/2	---
940137LF	2	---
940138LF	2-1/2	---
940139LF	3	---
940140LF	4	---

BRASS GATE VALVE C X C



PART#	SIZE	LIST PRICE
940142LF	1/2"	---
940143LF	3/4"	---
940144LF	1"	---
940147LF	2"	---

BRASS CHECK VALVE

NO	Part	Material
1	Cap	C37700
2	Gasket	NBR
3	Spring	Stainless Steel
4	Positioning Seat	BRASS
5	Screw	BRASS
6	Body	C37700

- NSF Approved
- ANSI 61-4



LEAD-FREE

PART #	SIZE	LIST PRICE
944430LF	1/2	---
944431LF	3/4	---
944432LF	1	---
944433LF	1-1/4	---
944434LF	1-1/2	---
944435LF	2	---

**CAST BRASS SWING CHECK VALVE IPS
SCREWED ENDS**

- Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
- Swing type disc.
- Screwed Cap.
- Hard Seat.
- 90° Straight Pattern.
- Used to prevent reverse flow in commercial and industrial applications.
- Threaded ends to ANSI B1.20.1. Solder ends ANSI 61-8
- Integral seat.
- NSF Approved



PART #	SIZE	LIST PRICE
940352LF	1/2"	---
940353LF	3/4"	---
940354LF	1"	---
940355LF	1-1/4"	---
940356LF	1-1/2"	---
940357LF	2"	---
940358LF	2 1/2"	---
940359LF	3"	---
940360LF	4"	---

C X C SWING CHECK VALVE



PART #	SIZE	LIST PRICE
940362LF	1/2	---
940363LF	3/4	---
940364LF	1	---
940365LF	1-1/4	---
940366LF	1-1/2	---
940367LF	2	---

CLASS 150 BRASS Y-PATTERN STRAINER



LEAD-FREE

PART#	SIZE	LIST PRICE
940523LF	1/2"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LOW PRESSURE LF BRASS VALVES
LEAD FREE VALVES

LF BRASS FROST FREE SILLCOCK VALVES/ ANTI SIPHON



PART#	SIZE 1/2" MIP & 1/2" SWEAT X 3/4" MHT X	D	H	L	
942150LF	6"	2.20	8.64	3.07	
942151LF	8"	2.20	12.66	3.07	
942152LF	12"	2.20	16.71	3.07	

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Forged Brass	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Aluminium	1	N
4	Bonnet	Brass Rod	1	N
5	Washer	Stainless Steel	1	N
6	Packing	Rubber (NBR)	1	Y
7	Washer	Stainless Steel	1	Y
8	Pipe	Brass (Copper)	1	Y
9	Stem	Brass Rod	1	Y
10	Spring	Stainless Steel	1	Y
11	O-Ring	Rubber (NBR)	1	Y
12	Spring Seat	Brass Rod	1	Y
13	Flapper	Rubber (NBR)	1	Y
14	Seat	Forged Brass	1	Y
15	Seat Pack- ing	Rubber (NBR)	1	Y
16	Screw	Forged Brass	1	Y
17	Body	Cast Brass	1	Y
18	Pipe	Brass (Copper)	1	Y
19	Nipple	Brass Rod	1	Y
20	Packing	Pom M90	1	N
21	Floating	Pom M90	1	Y
22	Floating Pk	Rubber (NBR)	1	Y
23	O-Ring	Rubber (NBR)	1	Y
24	Packing	Pom M90	1	Y
25	Cap	Brass Rod	1	Y

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



LOW PRESSURE LF BRASS VALVES

LEAD FREE VALVES

BRASS HOSE BIBB NO KINK VALVES HEAVY DUTY



NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Handle	Zinc	1	N
3	Packing Nut	Brass Rod	1	N
4	Packing	Teflon Polyflon	1	Y
5	Bonnet	Brass Rod	1	Y
6	Packing	Nylon	1	Y
7	Stem	Brass Rod	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	D	H	L	MIP	LIST
942110LF	1/2" MIP & 1/2" Sweat x 3/4" MHT	2.12	1.97	2.87	1/2"-14NPT	
942111LF	3/4" MIP x 3/4" MHT	2.12	1.97	2.97	3/4"-14NPT	

BRASS HOSE BIBB NO KINK VALVES HEAVY DUTY



NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Handle	Zinc	1	N
3	Packing Nut	Brass Rod	1	N
4	Packing	Teflon Polyflon	1	Y
5	Bonnet	Brass Rod	1	Y
6	Packing	Nylon	1	Y
7	Stem	Brass Rod	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	D	H	L	MIP	LIST
942112LF	1/2" FIP x 3/4" MHT	2.12	1.97	2.87	1/2"-14NPT	
942113LF	3/4" FIP x 3/4" MHT	2.12	1.97	2.97	3/4"-14NPT	

BRASS HOSE BIBB NO KINK VALVES HEAVY DUTY



NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Handle	Zinc	1	N
3	Packing Nut	Brass Rod	1	N
4	Packing	Teflon Polyflon	1	Y
5	Bonnet	Brass Rod	1	Y
6	Packing	Nylon	1	Y
7	Stem	Brass Rod	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	D	H	L	LIST
942123LF	3/4" FTG & 1/2" SWEAT x 3/4" MHT	2.12	1.97	2.87	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE VALVES

LOW PRESSURE LF BRASS VALVES

LEAD FREE VALVES

LEAD FREE VALVES

LF BRASS BOILER DRAIN



PART#	NOMINAL SIZE	D	H	L	FIP
942164LF	1/2" FIP x 3/4" MHT	2.08	3.35	1.46	1/2"-14NPT
942165LF	3/4" FIP x 3/4" MHT	2.08	3.35	1.46	3/4"-14NPT

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Zinc	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Teflon Polyflon	1	Y
6	Bonnet	Brass Rod	1	Y
7	Packing	Nylon	1	Y
8	Stem	Brass Rod	1	Y
9	Seat Packing	Rubber (NBR)	1	Y
10	Screw	Forged Brass	1	Y
11	Body	Cast Brass	1	Y

LF BOILER DRAIN



PART#	NOMINAL SIZE	D	H	L	MIP
942162LF	1/2" MIP & 1/2" SWEAT X 3/4" MHT	2.08	3.50	1.46	1/2"-14NPT
942163LF	3/4" MIP x 3/4" MHT	2.08	3.58	1.46	3/4"-14NPT

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

LF BRASS BOILER DRAIN SPOUT- ANGLE



PART#	NOMINAL SIZE	D	H	L	MIP
942134LF	1/2" MIP & 1/2" Sweat x 3/4" MHT	2.12	2.16	1.14	1/2"-14NPT
942135LF	3/4" MIP x 3/4" MHT	2.12	2.16	1.14	3/4"-14NPT

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

LF BRASS BOILER DRAIN SPOUT- ANGLE



PART#	NOMINAL SIZE	D	H	L	FIP
942132LF	1/2" FIP X 3/4" MHT	2.12	2.16	1.14	1/2"-14NPT
942133LF	3/4" FIPT X 3/4" MHT	2.12	2.16	1.14	3/4"-14NPT

NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Bolt	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Zinc	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Teflon Polyflon	1	Y
6	Bonnet	Brass Rod	1	Y
7	Packing	Nylon	1	Y
8	Stem	Brass Rod	1	Y
9	Seat Packing	Rubber (NBR)	1	Y
10	Screw	Forged Brass	1	Y
11	Body	Cast Brass	1	Y

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



LOW PRESSURE LF BRASS VALVES

LEAD FREE VALVES

LF SILLCOCK VALVE WITH PEX CONNECTIONS



NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	B	C	D	H	L
942142LF	1/2" PEX F1807 x 3/4" MHT	2.58	0.22	2.09	2.40	2.34
942143LF	3/4" PEX F1807 x 3/4" MHT	2.58	0.22	2.09	2.40	2.40

LF SILLCOCK VALVE WITH PEX CONNECTIONS (COLD EXPANSION)



NO	PARTS	MATERIALS	QTY	WATER CONTACT
1	Nut	Hot Rolled	1	N
2	Name Plate	Aluminium	1	N
3	Handle	Cast Iron	1	N
4	Packing Nut	Brass Rod	1	N
5	Packing	Rubber (NBR)	1	Y
6	Bonnet	Cast Brass	1	Y
7	Stem	Cast Brass	1	Y
8	Seat Packing	Rubber (NBR)	1	Y
9	Screw	Forged Brass	1	Y
10	Body	Cast Brass	1	Y

PART#	NOMINAL SIZE	B	C	D	H	L
942144LF	1/2" PEX F1960 x 3/4" MHT	2.58	0.22	2.08	2.40	2.34
942145LF	3/4" PEX F1960 x 3/4" MHT	2.58	0.22	2.08	2.40	2.40

VACUUM BREAKER



- Male hose and female hose threads can be broken off for permanent attachment
- Set screw
- Vandal proof
- Rough brass construction
- Prevents back-siphonage on hoses to prevent potable water from getting contaminated
- Certified under ASSE Std. 1011
- UPC
- CSA

PART #	SIZE	LIST PRICE
947055LF	3/4" x 3/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

LEAD FREE VALVES

VALVES

VALVES

VALVES**VALVES****Forged Brass**

Full Port Ball
 Locking Handle
 Butterfly Handle
 N/P Ball Valve
 Italian Ball Valve
 M X F Ball Valve
 Spring Handle Ball Valve
 Right Angle Ball valve
 Wye, 3-Way Ball Valve
 Safety Exhaust Ball Valve
 Gas Valves
 Mini Ball Valves
 3-Way Valves
 MISC
 Gate Valves
 Y Strainer
 Check Valves

Stainless Steel Valves

Ball Valves
 SS Mini Ball Valve
 Check Valves
 Y-strainer, Globe, Gate

Carbon Steel Valves

Ball Valves
 Check Valves

Ductile Iron

Butterfly
 Check
 Gate
 Ductile Iron Valves
 Vertical Post Indicator

**BALL VALVE PRIVATE LABEL PROGRAM**

Midland will put your company name and logo on our ball valve handle for FREE. Simply place a minimum blanket order of 10 cases per size and Midland will stock them under a special part # for your access only. Please allow 90-120 days for delivery on the first shipment only: Then have them delivered as you need them!

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



FORGED BRASS BALL VALVE

VALVES

FORGED BRASS BALL VALVE

• BRASS • 600WOG • FULL PORT



ISO 9002 Manufacturer
FEATURES

Made in China

1/4-2" 600 PSI non-shock cold water, gas,
oil - 150 PSI saturated steam

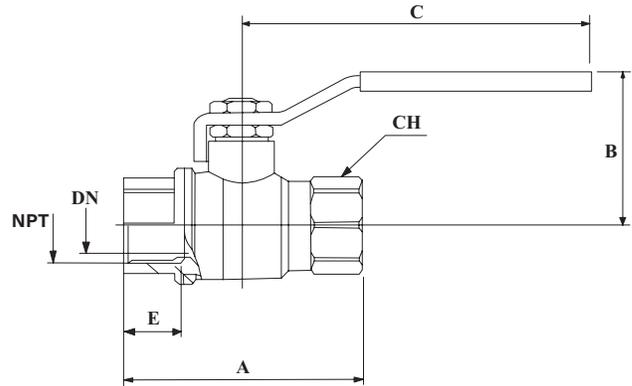
2-1/2"- 4" 400 PSI non-shock cold water,
gas, oil

- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated for 1/4"-2" at 600psi (42 bars) and 2-1/2"-4" at 400 psi WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin PTFE stem packing seal, thrust washer and seats
- Yellow vinyl insulator on heavy duty plated carbon steel handles
- Fast 1/4 turn open or close operation
- Not Lead Free
- Good for gasoline and diesel
- Low operating torque

- Adjustable stem packing gland
- Maximum operating temperature: 302°F (150° C)
- Minimum operating temperature: -22°F (-30°C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections



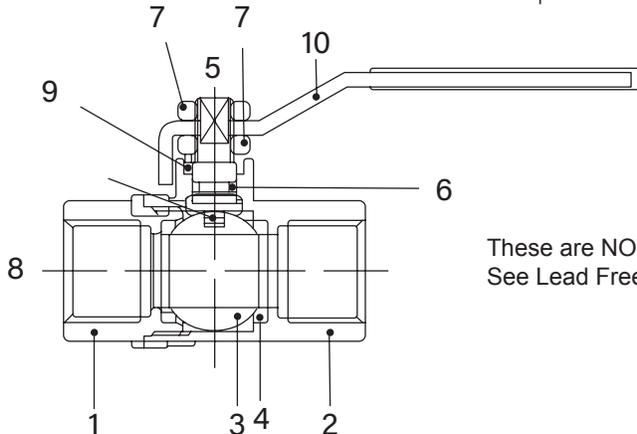
• Generic Handles



PART#	SIZE		DIMENSION INCHES					WEIGHT	BOX/CASE	LIST PRICE
	NPT	DN	A	B	C	E	CH			
940171	1/4"	0.39	1.75	1.92	3.54	0.46	0.78	0.34	70/140	---
940172	3/8"	0.41	1.75	1.92	3.54	0.46	0.78	0.30	70/140	---
940173	1/2"	0.58	2.05	2.08	3.54	0.52	0.98	0.44	50/100	---
940174	3/4"	0.75	2.36	2.30	3.78	0.56	1.20	0.67	30/60	---
940175	1"	0.94	2.75	2.68	4.52	0.66	1.50	1.05	20/40	---
940176	1-1/4"	1.26	3.30	3.14	4.52	0.70	1.82	1.50	12/24	---
940177	1-1/2"	1.57	3.66	3.61	5.51	0.72	2.09	2.30	9/18	---
940178	2"	1.97	4.18	3.68	5.51	0.74	2.62	3.38	6/12	---
940179*	2-1/2"	2.52	5.38	4.76	8.66	1.01	3.36	7.61	3/6	---
940180*	3"	2.95	6.04	5.08	8.66	1.11	3.86	11.10	2/4	---
940181*	4"	3.89	7.38	5.86	9.00	1.22	4.89	12.12	1/2	---

* 400 PSI

* Add 'H' to part # to order handles *



These are NOT Lead Free
See Lead Free SWT Valves

POS	COMPONENTS	MATERIALS	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Seat	P.T.F.E.	2
5	Stem	Brass	1
6	Gland	Brass	1
7	Nut	Steel	1
8	Spring Inseat	Steel	1
9	Stem Seal	P.T.F.E.	1
10	Handle	Steel	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BUTTERFLY HANDLE BALL VALVE

VALVES

LOCKING HANDLE BALL VALVE

• BRASS • 600WOG • FULL PORT



See specs on previous page

• Generic Handles

PART#	SIZE	DIMENSION INCHES						WEIGHT	BOX/CASE	LIST PRICE
	NPT	DN	A	B	C	E	CH			
940171L	1/4"	0.31	1.73	1.84	3.15	0.49	0.71	0.39	70/140	---
940172L	3/8"	0.39	1.81	1.88	3.86	0.49	0.79	0.35	70/140	---
940173L	1/2"	0.58	2.23	2.09	3.43	0.61	0.98	0.49	50/100	---
940174L	3/4"	0.75	2.48	2.24	3.62	0.62	1.20	0.78	30/60	---
940175L	1"	0.94	2.95	2.67	4.42	0.73	1.50	1.18	20/40	---
940176L	1-1/4"	1.26	3.42	3.05	4.73	0.77	1.81	1.76	12/24	---
940177L	1-1/2"	1.57	3.78	3.51	5.18	0.78	2.09	2.53	9/18	---
940178L	2"	1.97	4.18	3.84	5.24	0.75	2.60	3.53	6/12	---

BUTTERFLY HANDLE BALL VALVE

• BRASS • 600WOG • FULL PORT



See specs on previous page

PART#	SIZE	A	B	C	D	E	WEIGHT	BOX/CASE	LIST PRICE
	NPT								
940171T	1/4"	1.75	1.488	1.831	0.315	0.457	0.342	70/140	---
940172T	3/8"	1.756	1.488	1.831	0.394	0.457	0.31	70/140	---
940173T	1/2"	2.047	1.756	2.394	0.583	0.520	0.44	50/100	---
940174T	3/4"	2.362	1.921	2.394	0.748	0.563	0.68	30/60	---

• Not Lead Free AB1953 Compliant

ITALIAN BALL VALVE

VALVES

ITALIAN BALL VALVE

• BRASS • 600WOG • FULL PORT



ISO 9002 Manufacturer
FEATURES

CSA AGA 3.88 5 PSIG

IAMPO IGC 157 - 2004b

- **SOLID CHROME PLATED BRASS BALL**
- Suitable for full range of liquids and gases
- Minimal pressure drop due to large full size ports
- Bottom loaded, pressure retaining stem
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150 WSP (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation
- Low operating torque
- Flow can go both directions
- Generic Handles
- **Adjustable stem packing gland**
- Maximum operating temperature: 248°F (120° C)

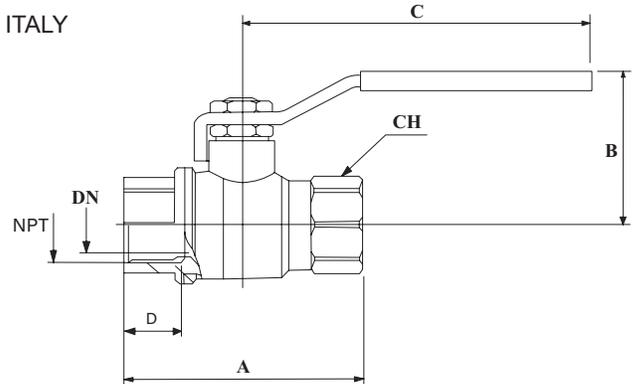
- at 600 PSI
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

• REVERSIBLE HANDLES

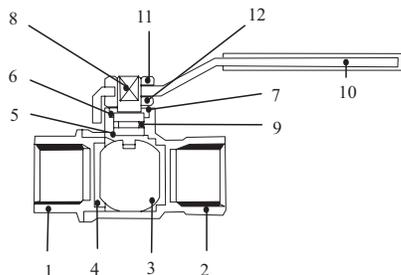


Female x Female

MADE IN ITALY



PART#	SIZE		DIMENSION INCHES					WEIGHT	BOX/CASE	LIST PRICE
	NPT	DN	A	B	C	D	CH			
943200	1/4"	.39	1.96	1.53	3.31	.43	.75	0.36	24/96	---
943201	3/8"	.39	1.96	1.53	3.31	.43	.86	0.40	24/96	---
943202	1/2"	.57	2.09	1.57	3.25	.46	.98	0.44	20/80	---
943203	3/4"	.75	2.28	1.77	3.80	.49	1.22	0.57	14/56	---
943204	1"	.94	2.80	2.03	3.80	.59	1.50	0.89	6/24	---
943205	1-1/4"	1.24	3.50	2.32	4.72	0.72	1.85	1.64	4/16	---
943206	1-1/2"	1.49	3.90	3.02	6.38	0.85	2.13	2.78	2/8	---
943207	2"	1.96	4.07	3.27	6.38	.65	2.64	3.21	2/8	---
942208	2-1/2"	2.48	5.80	4.98	7.54	1.06	3.31	6.97	5	---
942209	3"	2.99	6.85	5.63	8.86	1.14	3.89	10.34	3	---
942210	4"	3.54	7.67	6.04	8.86	1.22	4.80	18.77	1	---



POS	COMPONENTS	MATERIALS	N
1	Body	Forged Brass	1
2	End Connection	Forged Brass	1
3	Ball	CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	Brass	1
8	Stem	Brass	1
9	O-Ring	NBR 80	1
10	Handle	Steel	1
11	Nut	Steel	1
12	Nut	Brass	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MALE X FEMALE BRASS BALL VALVE

VALVES

MALE X FEMALE BRASS BALL VALVE

• 600WOG • FULL PORT



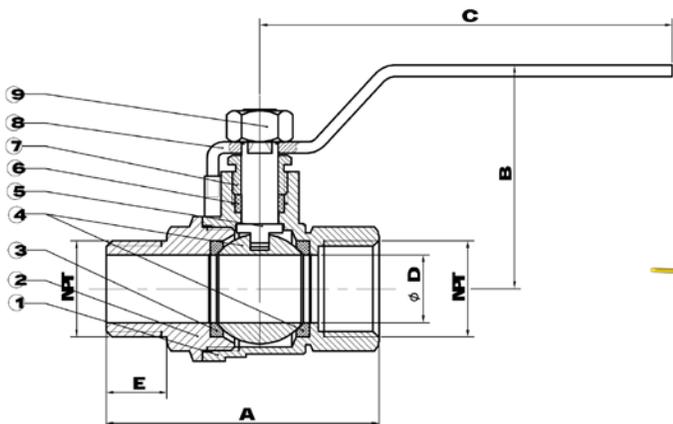
UL842, UL258

- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Flow both directions.
- Low operating torque.
- Adjustable stem packing gland.
- Generic Handles
- Maximum operating temperature: 248°F (120°C)
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem.
- Made in China



• Not Lead Free

PART#	SIZE	NPT	A	B	C	D	E	WEIGHT	BOX/CASE	LIST PRICE
948170	1/4"	1/4 - 18	2.016	1.689	2.756	0.315	0.457	0.29	70/140	---
948171	3/8"	3/8 - 18	2.094	1.89	3.543	0.394	0.457	0.33	70/140	---
948172	1/2"	1/2 - 14	2.343	2.05	3.543	0.583	0.520	0.47	50/100	---
948173	3/4"	3/4 - 14	2.618	2.20	3.780	0.748	0.563	0.68	30/60	---
948174	1"	1 - 11.5	3.000	2.579	4.528	0.945	0.630	1.11	20/40	---
948175	1-1/4"	1-1/4 - 11.5	3.563	2.953	4.528	1.260	0.709	1.70	12/24	---
948176	1-1/2"	1-1/2 - 11.5	3.965	3.346	5.512	1.575	0.717	2.50	9/18	---
948177	2"	2 - 11.5	4.496	3.681	5.512	1.969	0.748	3.57	6/12	---



POS	COMPONENTS	MATERIALS
1	Body	C37700
2	End Cap	CS7700
3	Ball Seat	PTFE
4	Ball	CS7700
5	Stem	CS7700
6	Stem Reducing	PTFE
7	Reducing Nut	CS7700
8	Lever Handle	1008
9	Stem Nut	A570 Gr.A



Locking Handle option



Tee handle option

ITALIAN MALE X FEMALE BALL VALVE

VALVES

ITALIAN MALE X FEMALE BALL VALVE

• BRASS • 600WOG • FULL PORT

Gas Approved



CSA AGA 3.88 5 PSIG



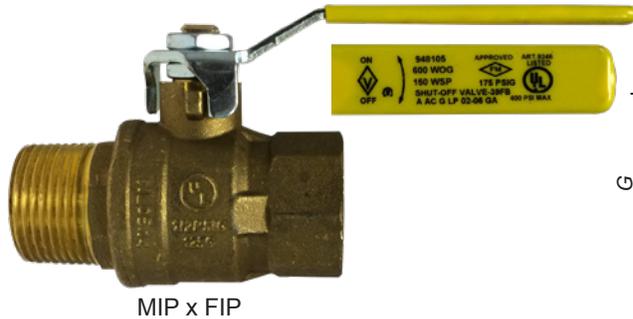
UL842, UL258, UL125, FM

Made in Italy

ISO 9002 Manufacturer
FEATURES

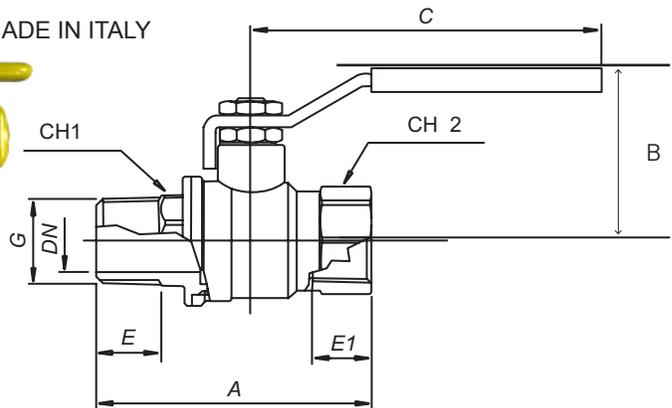
- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG (non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, thrust washer and seats.
- Yellow vinyl insulator on heavy duty plated carbon steel handles.
- Fast 1/4 turn open or close operation.
- Generic Handles
- Flow both directions.

- Low operating torque.
- Adjustable stem packing gland.
- Maximum operating temperature: 248°F (120°C) at 600 p.s.i
- Minimum operating temperature: -20°F (-40°C)
- KV: Pressure drop m^3/h .
- Each valve individually tested.
- Forged Brass - for more strength.
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem.
- Deeper threads - for better connections.

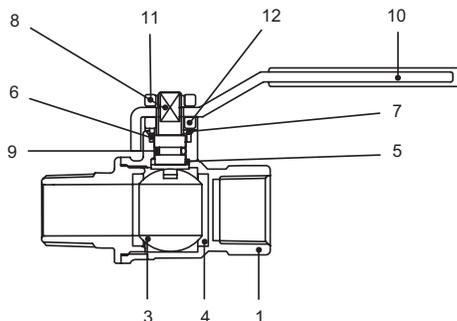


MIP x FIP

MADE IN ITALY



PART#	SIZE	DN	A	B	C	E	E1	CH1	CH2	WEIGHT	BOX/CASE	LIST PRICE
948101	1/4"	.39	2.18	1.53	3.28	.39	.43	.55	.75	0.35	24/96	---
948102	3/8"	.39	2.20	1.53	3.28	.43	.43	.71	.86	0.35	24/96	---
948103	1/2"	.57	2.54	1.57	3.28	.62	.46	.87	.98	0.42	14/56	---
948104	3/4"	.75	2.75	1.77	3.80	.55	.49	1.12	1.22	0.68	12/48	---
948105	1"	.94	3.23	2.03	3.80	.69	.59	1.34	1.50	0.95	6 /24	---
948106	1-1/4"	1.24	3.86	2.32	4.63	.81	.79	1.69	1.90	1.66	4/16	---
948107	1-1/2"	1.49	4.20	2.98	6.28	.85	.64	2.15	2.13	2.83	2/8	---
948108	2"	1.96	4.90	3.27	6.38	.90	.75	2.40	2.64	4.22	1/4	---



POS	COMPONENTS	MATERIALS	N
1	Body	CW617N Forged Brass	1
2	End Connection	CW617N Forged Brass	1
3	Ball	CW617N CP Brass	1
4	Ball Stems	P.T.F.E.	2
5	Stem Antif. Seat	P.T.F.E.	1
6	Stem Seat	P.T.F.E.	1
7	Brass Ring	CW617N Brass	1
8	Stem	CW617N Brass	1
9	O-Ring	NBR 80	1
10	Handle	UNI EN 10025 Steel	1
11	Nut	UN 5771 Steel	1
12	Nut	CW617N Brass	1

• Not Lead Free

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TEE HANDLE BALL VALVE - MXF

VALVES

**TEE HANDLE BALL VALVE
MALE X FEMALE**

UL842, UL258

Features

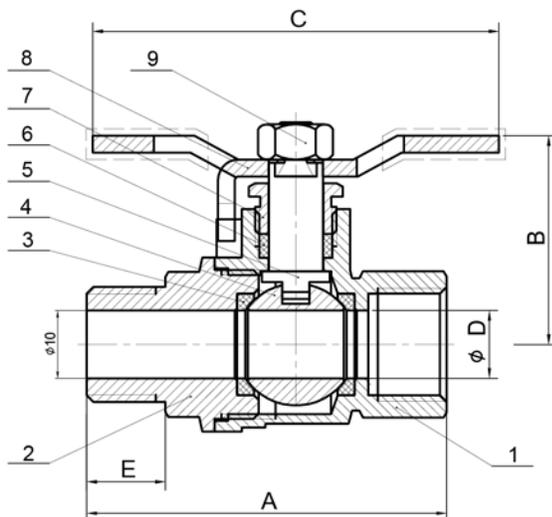
- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass Ball
- Handle with vinyl grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free



PART#	SIZE	DIMENSION INCHES					WEIGHT	BOX/CASE	LIST PRICE
	NPT	A	B	C	D	E			
948171T	3/8"	2.094	1.213	2.67	0.394	0.457	0.33	70/140	---
948172T	1/2"	2.343	1.61	3.12	0.583	0.520	0.49	50/100	---
948173T	3/4"	2.618	1.26	3.12	0.748	0.563	0.66	30/60	---
948174T	1"	3.000	1.921	3.701	0.945	0.630	1.06	20/40	---



ITEM	PART	MATERIALS
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	T-Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



LOCKING HANDLE BALL VALVES - FEMALE X MALE

VALVES



UL842, UL258

Features

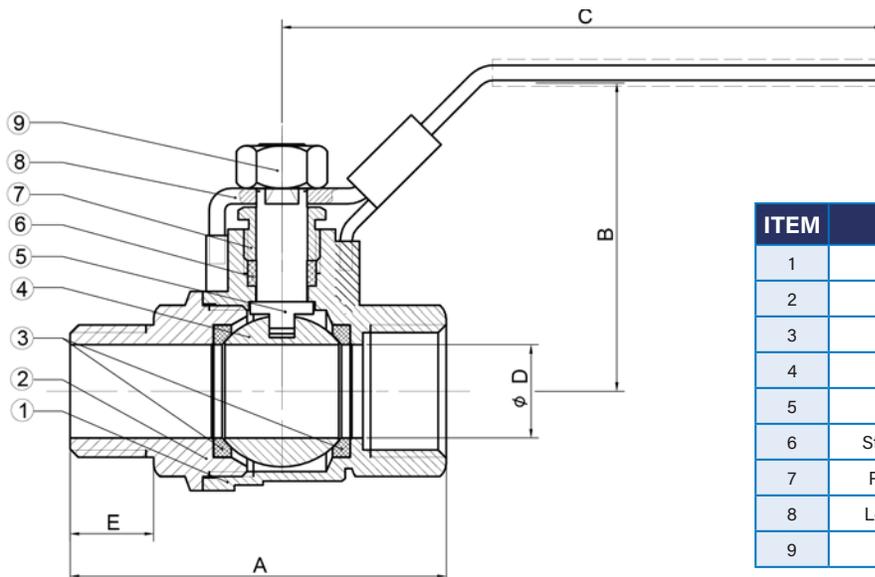
- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass ball
- Handle with vinyl grip

Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free



PART#	SIZE	DIMENSION INCHES					WEIGHT	BOX/CASE	LIST PRICE
	NPT	A	B	C	D	E			
948170L	1/4"	2.016	1.732	3.543	0.315	0.457	0.32	70/140	---
948171L	3/8"	2.094	1.732	3.543	0.394	0.457	0.37	70/140	---
948172L	1/2"	2.343	1.941	3.543	0.583	0.520	0.50	50/100	---
948173L	3/4"	2.618	2.106	3.78	0.748	0.563	0.77	30/60	---
948174L	1"	3.000	2.579	4.528	0.945	0.630	1.21	20/40	---
948175L	1-1/4"	3.563	2.961	4.528	1.260	0.709	1.74	12/24	---
948176L	1-1/2"	3.965	3.366	5.36	1.575	0.717	2.58	9/18	---
948177L	2"	4.496	3.701	5.36	1.969	0.748	3.73	6/12	---



ITEM	PART	MATERIALS
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

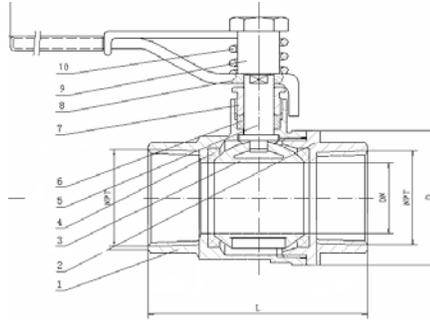
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



SPRING HANDLE/ RIGHT ANGLE VALVES

BRASS SPRING HANDLE BALL VALVE

Working pressure:600 PSI for brass
 Temperature Range:-40°F to 365°F(-40°C to +185°C)
 Material:Brass
 Spring Lever Handle w/Vinyl Grip
 Made in China
 Not lead free

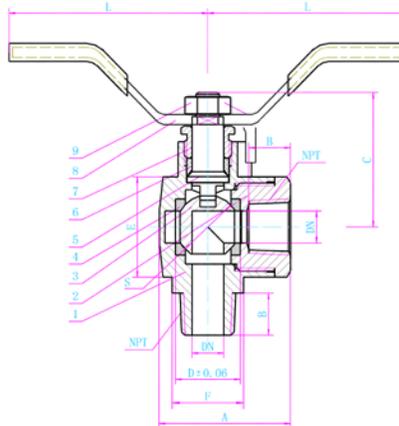


PART #	PART NAME	MATERIAL
1	Body	Brass
2	Bonnet	Brass
3	Ball	Brass
4	Sealing Seat	PTFE
5	Stem	Stainless Steel
6	Packing Ring	PTFE
7	Gland	Brass
8	Handle	Stainless Steel
9	Bolt	Brass
10	Spring	Stainless Steel

PART#	SIZE	L	D	DN	H	L3	WTG	BOX/CASE	LIST PRICE
947103	1/2"	2.19	1.24	0.59	1.83	4.24	0.54	10/80	---
947104	3/4"	2.38	1.5	0.75	2.19	4.24	0.72	5/40	---
947105	1"	3.23	1.91	0.98	2.49	4.71	1.32	5/30	---

RIGHT ANGLE BRASS BALL VALVE

Working pressure: 250PSI
 Temperature Range -40° to 400°F(-40 °C to +205 °C)
 With lever Handle Polytetrafluoroethylene seats 2-pc,full port Heavy Duty forged Body Steel Handle w/Vinyl GripMade in China
 Not lead free



PART #	PART NAME	MATERIAL
1	Body	Brass
2	Cap	Brass
3	Ball	Brass
4	Seat	PTFE
5	Stem	Brass
6	Stuffing	PTFE
7	Packing Nut	Brass
8	Handle	Steel
9	Nut	Brass

PART #	SIZE	A	B	C	D	S	DN	L	E	F	WTG	BOX/CASE	LIST PRICE
947111	1/4	1.59	0.41	1.40	0.64	0.63	0.32	2.60	0.98	0.65	0.34	12/120	---
947112	3/8	1.59	0.41	1.40	0.73	0.71	0.39	2.60	0.98	0.65	0.36	12/120	---
947113	1/2	1.73	0.55	1.40	0.79	0.87	0.55	2.60	1.08	0.83	0.47	10/80	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



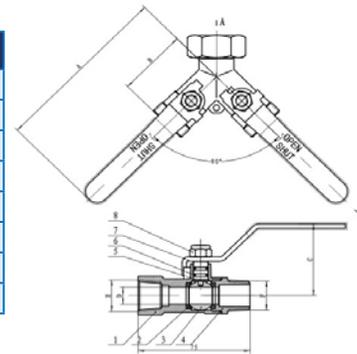
3 WAY AND SAFETY EXHAUST BALL VALVES

VALVES

3-WAY WYE BRASS BALL VALVE, VENTED AND UNVENTED

- Max. pressure: W.O.G. (water, oil, inert gas)
Unvented Valve: 600psi@70°F
Vented Valve: 250psi@70°F
W.S.P. (working steam pressure)
Unvented Valve: 150psi@365°F
Vented Valve: Not related
- Vacuum Rating: 29"Hg
- Temperature Range: -40° to 365°F
- Ports: Full

PART#	PART NAME	MATERIAL
1	Body	Brass Nickel Plated
2	Seat	PTFE
3	Ball	Brass, Cr. Plated
4	Cap	Brass Nickel Plated
5	Stem	Brass
6	O-Ring	Fluoroelastomer
7	Handle	Stainless Steel
8	Nut	Steel



Designed for the portable air compressor industry, these valves control the flow of water, oil, and inert gases in two directions and are great for mixing and diverting. They have a single female inlet and two male outlets with two ball valves. Valves are Brass Nickel Plated and have chrome-plated brass balls, brass blow-out proof stems, PTFE seats and seals, and steel lever handles with vinyl grips. Vented valves have a drilled hole on the two valve balls and body that vents compressed air in the line when the valve is closed. Connections: 1" NPT female inlet and 3/4" NPT male outlet. • Made in China • Not lead free



NON-VENTED



VENTED

NOW WITH STAINLESS STEEL HANDLES

PART #	BALL	E	F	A	B	C	D	G	WTG	BOX/CASE	LIST PRICE
947125	Non-vented	1" Female	3/4" Male	5.18"	2.5"	2.05"	0.59"	90°	1.43	2/24	---
947126	Vented								1.48	2/24	---

EXHAUST VALVES AUTOMATIC DRAIN & LATCH LOCK HANDLE

Full port hot forged brass ball valve, blow-out proof stem, downstream automatic vent with lockable handle in compliance with OSHA requirements.

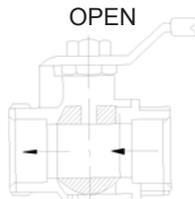
- Maximum working pressure: 200 PSI (CWP).
- Temperature rating: +15°F through +210°F.
- Made in Italy
- Not lead free



- w/ 10/32 UNP tap for drain.
- on all sizes

PART#	SIZE	LIST PRICE
948131	1/4"	---
948132	3/8"	---
948133	1/2"	---
948134	3/4"	---
948135	1"	---

Valve - closed and draining occurs. Upstream seat prevents air flow. Downstream system is vented to atmosphere.



Valve - open position. Drain vent shut off.

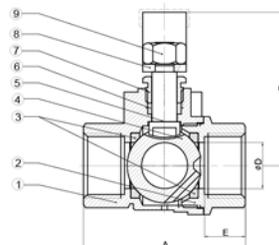


SAFETY EXHAUST BALL VALVE

- Threaded - Two Piece Body - Full Port
- Blow-out Proof Stem - PTFE Seats
- To Exhaust and Downstream Air in the Closed Position w/ locking lever handle.
- Made in China
- Vented
- 400 PSI WOG
- Not lead free
- 150 SWP



PART #	SIZE	A	B	D	E	LIST PRICE
948141	1/4"	1.756	1.88	0.394	0.457	---
948142	3/8"	1.756	1.88	0.394	0.457	---
948143	1/2"	2.047	2.13	0.583	0.520	---
948144	3/4"	2.362	2.28	0.748	0.563	---



ITEM	PART	MATERIAL
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel Plating Steel
9	Stem Nut	Nickel Plating Steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GAS BALL VALVES

VALVES



GAS BALL VALVES

ISO 9002 MANUFACTURER



UL 842, UL 258, UL 125

CSA AGA 3.88 5 PSIG

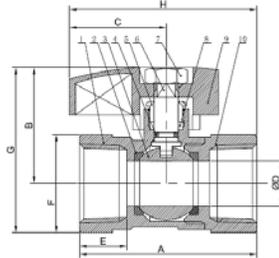
FEATURES

- Material: C37700
- Forged brass, Regular port, Thread*Flare Thread
- Thread ends in ANSI B1.20.1
- Working temperature: 0-65°(32-149°)
- Pressure :1/2PSI;5PSI;

- ASME B16.44/CR91; ANSI Z21.15/CSA9.1
- UL 125 For LP-Gas 125psig
- Made in China



**GAS BALL VALVE (2-PIECE)
FEMALE X FEMALE**



10	BALL VALVE CAP	1	BRASS
9	HANDLE	1	AL-alloy
8	PACKING	1	PTFE
7	HANDLE NUT	1	PLATED STEEL
6	STEM	1	BRASS
5	PACKING NUT	1	BRASS
4	O-RING	1	NBR
3	BALL	1	BRASS
2	SEALING WASHER	2	PTFE
1	BALL VALVE BODY	1	BRASS
NO.	ITEM	TOTAL	MATERIAL

PART#	SIZE	WTG	BOX/CASE	LIST PRICE
943311	3/8"	0.35	10/100	---
943312	1/2"	0.44	10/100	---
943313	3/4"	0.62	10/100	---
943314	1"			

SIZE	∅D	A	B	C	E	F	G	H
3/8"	0.394	1.752	1.437	1.28	0.472	0.945	1.909	2.146
1/2"	0.394	2.204	1.437	1.28	0.606	1.043	1.961	2.461
3/4"	0.591	2.362	1.535	1.28	0.626	1.299	2.815	2.476



FLARE X FLARE

PART#	SIZE	LIST PRICE
943342	3/8	---
943343	1/2	---
943345	5/8	---



FLARE X MIP

PART#	SIZE	LIST PRICE
943347	3/8 x 1/2	---
943348	1/2 x 1/2	---

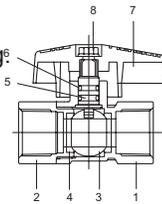


FLARE X FIP

PART#	SIZE	LIST PRICE
943331	3/8 x 1/2	---
943332	1/2 x 1/2	---
943351	5/8 x 3/4	---
943350	15/16 x 3/4	---

- For use with natural, manufactured, mixed liquified. petroleum and LP gas-air mixtures.
- Deeper thread connections. Smooth quarter-turn.
- Manufactured to ANSI Z21.15, C.G.A. 9.1-M81, 9.2-M88, 1/2 psig. 372 also to A.G.A.3-8, C.G.A. CR91-002, 2 psig.
- Solid chrome plated brass ball
- Bottom entry
- Blow out proof design.
- Double Fluoroelastomer o-rings stem seals
- Polytetrafluoroethylene seats for durability.
- Forged construction for greater strength.
- Larger ports for increased flow capacity.
- Red Reversible handle.
- May be used with water 400 WOG.

MADE IN ITALY



	COMPONENTS	MATERIALS
1	Body	Forged Brass
2	End Connection	Forged Brass
3	Ball	Forged Brass
4	Ball Seats	P.T.F.E.
5	Stem	Brass
6	O-Ring	NBR
7	Butterfly	Steel
8	Screw	UNI 5771 Steel



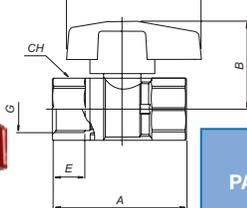
CSA AGA 3.88 5 PSIG



Manual Valve LISTED Threaded NPT
UL 842, UL 258, UL 125

GAS BALL VALVES

FEMALE X FEMALE



PART#	SIZE		DIMENSION INCHES					PN IN PSI	WTG	BOX/ CASE	LIST PRICE
	G	DN	A	B	C	E	CH				
943212	1/2"	.47	2.26	1.45	2.28	.55	.98	600	0.33	20/80	---
943213	3/4"	.59	2.48	1.57	2.28	.57	1.22	600	0.45	14/56	---

Fax 1-800-877-5391

Sales@MidlandIndustries.com

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRASS MINI BALL VALVES

VALVES

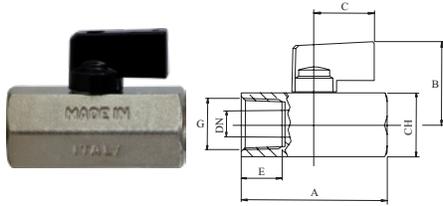
ITALIAN CHROME PLATED BRASS MINI BALL VALVE

ISO 9002 Manufacturer

FEATURES

- Solid chrome plated brass ball
- Max working pressure 235 psi will handle 300psi@75° F
- Longer body style for longer, deeper thread connections
- One piece drawn sand blasted chrome plated body.
- Each valve is seal tested for maximum safety.
- Double seal system allows valve to be operated in both directions making installation easier.
- Blowout-proof brass stem.
- NPT taper ANSI B1.20.1 threads.
- 32°F to +176°F temperature.
- 1/4 Turn Aluminium handle with mechanical stop.
- NSF Approved valves available upon request
- Not lead free

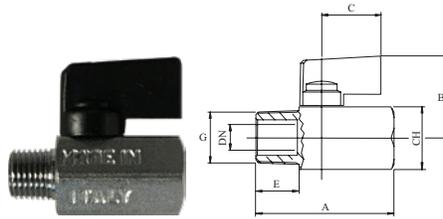
FEMALE X FEMALE



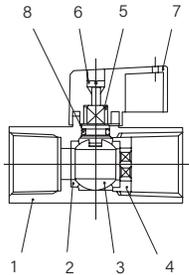
Made in Italy

PART#	SIZE		DIMENSION INCHES							BOX/ CASE	LIST PRICE
	G	DN	A	B	C	E	CH	WTG			
46922I	1/4"	0.31	1.81	1.17	0.9	0.51	0.83	0.24	50/200	---	
46923I	3/8"	0.31	1.85	1.17	0.9	0.51	0.83	0.22	50/200	---	
46924I	1/2"	0.39	2.18	1.26	0.9	0.61	0.98	0.32	30/120	---	

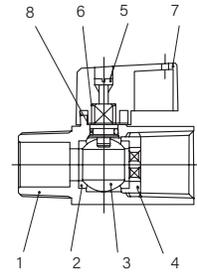
MALE X FEMALE



PART#	SIZE		DIMENSION INCHES							BOX/ CASE	LIST PRICE
	G	DN	A	B	C	E	CH	WTG			
46903I	1/4"	0.31	1.75	1.17	0.9	.40	0.83	0.20	50/200	---	
46904I	3/8"	0.31	1.81	1.17	0.9	.41	0.83	0.20	50/200	---	
46905I	1/2"	0.39	2.14	1.26	0.9	.52	0.98	0.30	40/160	---	



POS	COMPONENTS	MATERIALS	N
1	Body	CW517N Forged Brass	1
2	Ball Seats	P.T.F.E	2
3	Ball	CW517N CP Brass	1
4	Ring Unit	CW614N Brass	1
5	Stem	CW614N Brass	1
6	Screw	UNI 5771 Steel	1
7	Handle	Aluminum	1
8	O-Ring	NBR 80	1



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES

MINI BALL VALVES

VALVES

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China



FEMALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46934	1/8	1.57	0.24	0.93	1.46	0.21	20/300	---
46935	1/4	1.57	0.31	0.93	1.46	0.20	20/300	---
46936	3/8	1.57	0.28	0.93	1.46	0.22	20/300	---
46937	1/2	1.77	0.35	0.93	1.56	0.24	20/200	---

MINI BALL VALVES W/FLUOROELASTOMER SEALS

FEMALE X FEMALE - TEE HANDLE

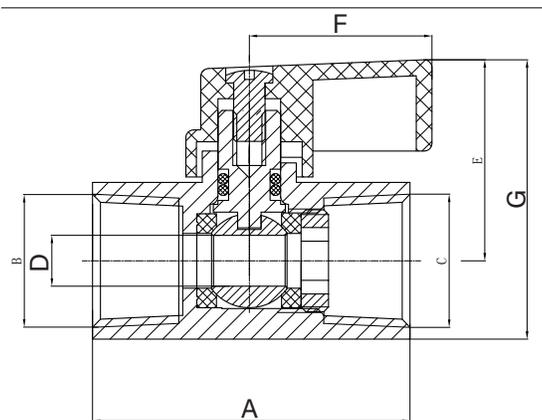


PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HANDLE	G			
46934LT	1/8	1.60	0.24	1.34	1.43	0.21	20/300	---
46935LT	1/4	1.57	0.31	1.34	1.43	0.20	20/300	---
46936LT	3/8	1.60	0.28	1.34	1.43	0.22	20/300	---
46937LT	1/2	1.77	0.35	1.34	1.52	0.24	20/200	---

FEMALE X FEMALE - LEVER HANDLE



PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46934L	1/8	1.57	0.24	1.99	1.50	0.21	20/300	----
46935L	1/4	1.57	0.31	1.99	1.50	0.20	20/300	----
46936L	3/8	1.60	0.28	1.99	1.50	0.22	20/300	----
46937L	1/2	1.77	0.35	1.99	1.59	0.24	20/200	----



POS	COMPONENTS	MATERIALS	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1
6	O-Ring - all others	Fluoroelastomer	1
7	Handle	Alumzinc	1
8	Screw	Steel	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



MINI BALL VALVES

VALVES

MINI BALL VALVES

- Chrome plated forged brass body
- Chrome plated brass ball
- NPT taper ANSI B1.20.1 threads*
- 450 PSI working pressure
- At 212°F - 355 PSI
- At 356°F - 142 PSI
- 1/4 Turn Alumzinc handle
- Not lead free
- Made in China



MALE X FEMALE - FLAG HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	F	G			
46930	1/8	1.57	0.24	0.93	1.46	0.17	20/300	---
46931	1/4	1.57	0.31	0.93	1.46	0.15	20/300	---
46932	3/8	1.57	0.28	0.93	1.46	0.21	20/300	---
46933	1/2	1.77	0.35	0.93	1.56	0.24	20/200	---

MINI BALL VALVES W/FLUOROELASTOMER SEALS



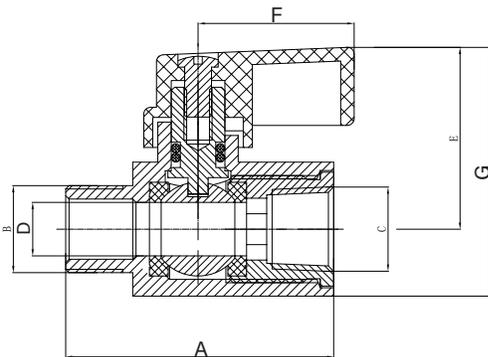
MALE X FEMALE - TEE HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	
		A	D(FLOW)	HANDLE	G			
46930T	1/8	1.57	0.24	1.34	1.46	0.17	20/300	---
46931T	1/4	1.57	0.31	1.34	1.46	0.15	20/300	---
46932T	3/8	1.57	0.28	1.34	1.40	0.21	20/300	---
46933T	1/2	1.77	0.35	1.34	1.56	0.24	20/200	---



MALE X FEMALE - LEVER HANDLE

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE	LIST PRICE
		A	D(FLOW)	F	G			
46930L	1/8	1.57	0.24	1.99	1.50	0.17	20/300	
46931L	1/4	1.57	0.31	1.99	1.50	0.15	20/300	
46932L	3/8	1.57	0.28	1.99	1.50	0.21	20/300	
46933L	1/2	1.77	0.35	1.99	1.59	0.24	20/200	



POS	COMPONENTS	MATERIALS	N
1	Body	CP Forged Brass	1
2	Ball Seats	P.T.F.E.	2
3	Ball	CP Brass	1
4	Ring Unit	Brass	1
5	Stern	Brass	1
6	O-Ring - flag handle	NBR 80	1
6	O-Ring - all others	Viton	1
7	Handle	Alumzinc	1
8	Screw	Steel	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED BRASS MINI BALL VALVES

VALVES

- 180° operational handle, blow out proof stem. Stem with double "O" Rings
- 200 WOG
- Temp rating -20°F - 250°F
- Generic Handles
- Not lead free

NO	PART NAME	MATERIAL	QTY
1	Nut	Steel	1
2	Handle	Steel	1
3	Cover	PVC	1
4	O-Ring	NBR	2
5	Stem	Brass	1
6	Body	Brass	1
7	Seat	Polyte	2
8	Ball Disc	Brass	1
9	End Plug	Brass	1

*Polyte Abbreviation for Polytetrafluoroethylene

**FEMALE X FEMALE**

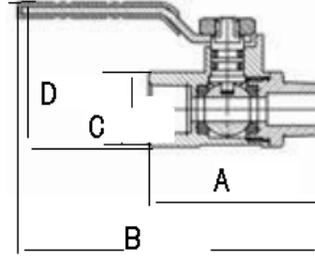
PART #	SIZE	A	B	C	D	LIST PRICE
944113	1/8	1.53	2.80	0.73	1.42	---
944116	1/4	1.53	2.80	0.73	1.42	---
944117	3/8	1.73	2.90	0.87	1.50	---
944140	1/2	2.20	3.08	0.98	1.45	---

**FEMALE X MALE**

PART #	SIZE	A	B	C	D	LIST PRICE
944106	1/8	1.69	3.02	0.73	1.46	---
944100	1/4X1/8	1.28	2.90	0.66	1.32	---
944101	1/4	1.70	3.00	0.73	1.46	---
944102	3/8X1/4	1.78	2.50	0.89	1.50	---
944103	3/8X 3/8					

**MALE X MALE**

PART #	SIZE	A	B	C	D	LIST PRICE
944107	1/8	1.70	2.94	0.65	1.42	---
944109	1/4	1.25	2.66	0.65	1.42	---
944110	3/8	1.90	2.98	0.73	1.42	---

**HOSE BARB X MALE**

PART #	SIZE	A	B	C	D	LIST PRICE
944132	1/4X1/8	2.05	2.91	0.73	1.51	---
944138	1/4X1/4	2.08	2.98	0.73	1.51	---
944128	3/8X1/4	2.08	3.04	0.73	1.51	---
944130	3/8X3/8	2.12	3.06	0.73	1.51	---
944139	1/2X1/2	2.15	3.19	0.73	1.51	---

**HOSE BARB X FEMALE**

PART #	SIZE	A	B	C	D	LIST PRICE
944136	1/4X1/4	1.97	2.87	0.73	1.55	---

**HOSE BARB X HOSE BARB**

PART #	SIZE	A	B	C	D	LIST PRICE
944142	1/4X1/4	2.47	3.19	0.73	1.55	---
944134	3/8X3/8	2.47	3.18	0.73	1.55	---

LEAD FREE

PART #	SIZE	A	B	C	D	LIST PRICE
944142LF	1/4	2.49	3.19	0.73	1.55	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



3 WAY BALL VALVE

VALVES

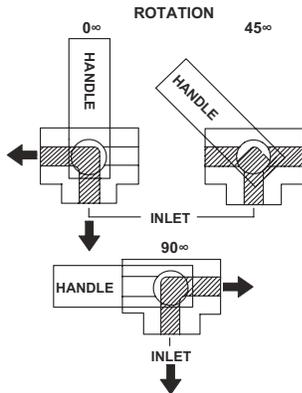
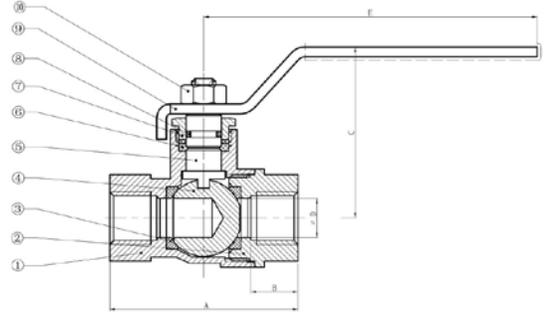
SIDE OUTLET 3-WAY BALL VALVE

• BRASS • 600WOG • FULL PORT

- Forged Brass
- 600 WOG
- Temp Rating 0-230°F
- 150 SWP



• Side outlet



- Full Port
- Blow-out proof stem
- double o-ring stem packing
- PTFE Seal
- Made in China
- Not lead free

Nomenclature & Materials

NO	PART NAME	MATERIAL	QTY
1	Body	Brass	1
2	End Cap	Brass	1
3	Ball Seat	PTFE	1
4	Ball	Brass	1
5	Stem	Brass	2
6	Seal	PTFE	1
7	Impacted Nut	Brass	1
8	O-Ring	NBR	2
9	Lever Handle	Steel	1
10	Stem Nut	Steel	1

PART#	SIZE	I	H	D	L	A	WTG	BOX/CASE	LIST PRICE
940464	1/4"	1.89	1.73	0.39	3.58	0.47	0.51	50/100	---
940465	3/8"	1.89	1.73	0.39	3.35	0.47	0.57	50/100	---
940461	1/2"	2.11	1.80	0.50	3.58	0.51	0.65	30/60	---
940462	3/4"	2.56	2.16	0.74	4.31	0.55	0.99	20/40	---

BOTTOM OUTLET 3 WAY BALL VALVE

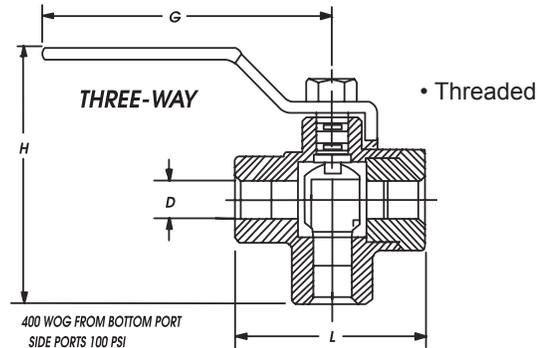
- Forged Brass
- Bottom Port is inlet 400 psi
- Side Ports are inlet 100 psi

- Polytetrafluoroethylene ball seats
- Double O-Ring Stem Seals - primary seal is Fluoroelastomer secondary seal is Aflas
- Blow out proof stem
- Made in USA
- Threaded ports
- Good for propane
- Not lead free
- Great for diesel fuel



• 90° Handle Rotation

• Bottom outlet



PART#	SIZE	D	G	H	L	CV	WTG	LIST PRICE
940121	1/4"	.44	3.50	3.12	2.25	5.2	0.76	---
940122	3/8"	.50	3.50	3.12	2.25	5.5	0.69	---
940123	1/2"	.50	3.50	3.12	2.25	5.5	1.00	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MISCELLANEOUS VALVES

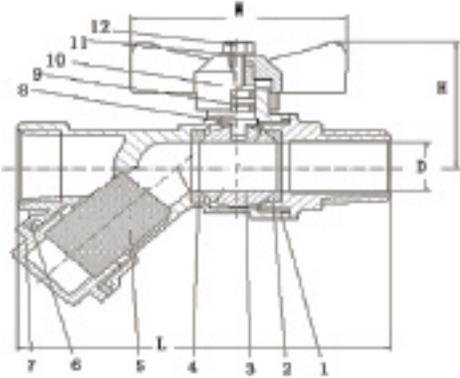
VALVES

BRASS BALL VALVE WITH STRAINER

All-in-One design for economical ,compact and convenient .With stamped stainless Steel Screen . 600PSI WOG Forged brass body,Crome plated ball ,PTFE ball seats and cap seal , and rubber o-ring stem seals. Not lead free



PART #	PART NAME	MATERIAL
1	Body	Brass
2	Caps	Brass
3	Ball	Brass,Cr.Plated
4	Seat	PTFE
5	Filter	SS
6	Gasket	PTFE
7	Caps	Brass
8	Stem	Brass
9	O-Ring	Fluoroelastomer
10	Handle	Zinc
11	Spring Washer	S.S
12	Nut	Steel



PART #	SIZE	L	D	W	H	WTG	BOX/CASE	LIST PRICE
947133	1/2"x1/2"(MxF)	3.77"	0.59"	2.00"	1.50"	0.60	8/64	---
947134	3/4"x3/4"(MxF)	4.32"	0.75"	2.40"	1.85"	1.00	8/64	---

RADIATOR AIR VALVE

COIN SLOT OR LOSSE KEY



PART #	SIZE	LIST PRICE
943284	1/8" MIP	---
943287	Key only	---

ANGLE SILLCOCKS

3/4" HOSE THREAD OUTLET

- Notched flange for convenient installation.
- Heavy brass construction.
- Cast Iron handle.
- Not lead free



FEMALE IPS

PART #	SIZE	BOX	LIST PRICE
942142	1/2	12	---

HOSE BIBBS

3/4" HOSE THREAD OUTLET



IPS

PART #	SIZE	WTG	BOX/CASE	LIST PRICE
942170	1/2 (1/2"C)	0.33	10/100	---
942171	3/4	0.35	10/100	---

BENT NOSE GARDEN VALVES

- Heavy brass construction
- Cast iron handle
- Stuffing box
- Neoprene seal disc

PART #	SIZE	BOX	CASE	LIST PRICE
942100	1/2"	12	72	---
942101	3/4"	12	72	---
942102	1"	12	72	---



WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS GATE VALVE

VALVES

BRASS GATE VALVE

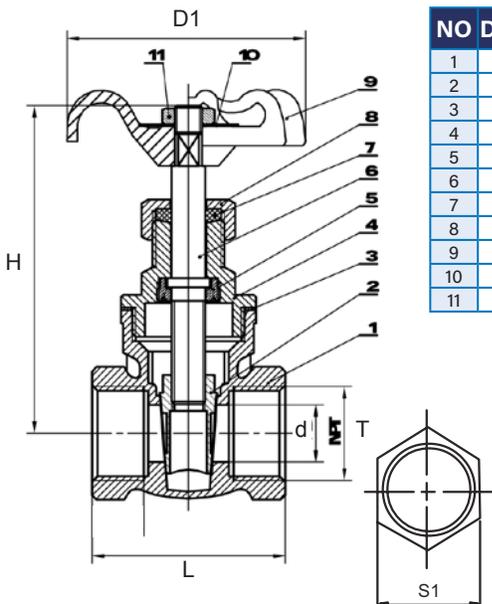
• BRASS • 200WOG • FULL PORT

- 200 WOG (cold water, oil, gas).
- Full-port design for a better water flow.
- Screw-in Bonnet - Non-Rising Stem - Solid Wedge
- NPT Threaded ends to ANSI B1.20.1
- Cast iron handle.
- Each valve individually air tested under water.
- Good for diesel fuel.
- Made in Indonesia
- Not lead free
- Temp. 32°-320°F



BRASS GATE VALVES IPS

PART#	SIZE	L	H	D1	D	T	S1	WEIGHT	BOX/CASE	LIST PRICE
940130	1/4	1.64	2.91	2.09	0.44	1/4-18 NPT	.85	0.60	10/120	---
940131	3/8	1.71	2.91	2.09	0.48	3/8-18 NPT	.85	0.59	10/120	---
940132	1/2	1.71	2.91	2.09	0.50	1/2-14 NPT	1.03	0.75	10/120	---
940133	3/4	1.71	3.06	2.13	0.74	3/4-14 NPT	1.26	0.83	10/80	---
940134	1	2.13	3.60	2.48	0.97	1-11.5 NPT	1.51	1.24	5/60	---
940135	1-1/4	2.24	4.50	2.66	1.22	1-1/4-11.5 NPT	1.89	1.69	5/40	---
940136	1-1/2	2.44	5.08	3.15	1.45	1-1/2-11.5 NPT	2.17	2.17	5/30	---
940137	2	2.70	5.94	3.52	1.85	2-11.5 NPT	2.60	3.30	2/12	---
940138	2-1/2	3.70	7.87	3.98	2.48	2-1/2-8 NPT	3.27	6.26	1/10	---
940139	3	4.02	8.82	4.37	2.80	3-8 NPT	3.86	8.26	1/4	---
940140	4	4.53	9.88	4.74	3.60	4-8 NPT	4.88	13.09	1/4	---



NO	DESCRIPTION	MATERIAL
1	Body	C85700
2	Disk	C85700
3	Seat	PTFE
4	Cap	C85700
5	Packing	C85700
6	Stem	C85700
7	Rubber Seat	NBR
8	Packing Nut	C85700
9	Handle	Cast Iron
10	Nameplate	AL
11	Stem Nut	SAE 1010R

Crown handle
1/2-1/4



X handle
1/2-1/4



Add "C" to part# for Crown handle, "X" for X handle.

Also Available SS Gate Valve



See Lead Free for lead free Gate Valves.

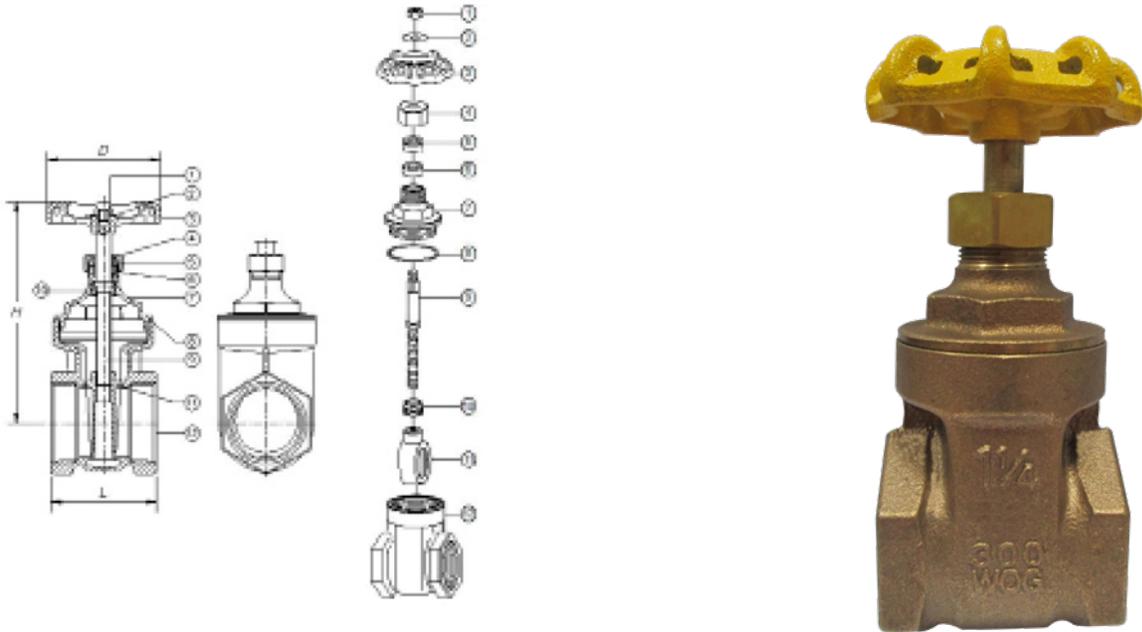


WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES

BRONZE GATE VALVE

VALVES

BRONZE IPS GATE VALVE**BRONZE GATE VALVE**

NUMBER	PART	MATERIALS	NOTE
1	NUT	HOT ROLLED (SAE 1010R)	
2	NAME PLATE	ALUMINUM	
3	HANDLE	CAST IRON (JIS Z22202)	
4	PACKING NUT	BRASS ROD (C37700)	
5	GLAND RING	BRASS ROD (C37700)	Size 1-1/4" ~ 4"
6	PACKING	GRAPHITE (LK 33 NAFG)	
7	BONNET	CAST BRONZE (C83600)	
8	PACKING	FIBRE	Size 2" ~ 4"
9	STEM	BRASS ROD (C37700)	Size 1/4" ~ 2"
		CAST BRONZE (C83600)	Size 2-1/2" ~ 4"
10	LOCKNUT	BRASS ROD (C37700)	
11	DISC	CAST BRONZE (C83600)	
12	BODY	CAST BRONZE (C83600)	

PART#	SIZE	DIMENSION (MM)		
		D	H	L
939132	1/2" FIP	53	74	43.5
939133	3/4" FIP	54	84	46
939134	1" FIP	63	99	54
939135	1-1/4" FIP	69	117	57
939136	1-1/2" FIP	80	129	62
939137	2" FIP	89.5	152	68.5
939138	2-1/2" FIP	101	200	94
939139	3" FIP	111	224	102
939140	4" FIP	127	251	115

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

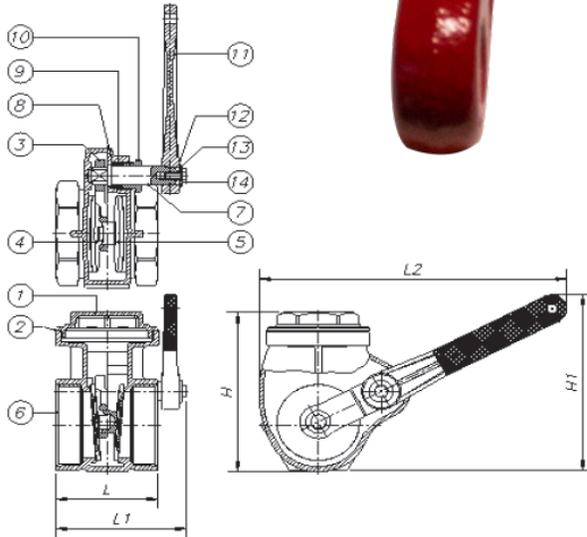
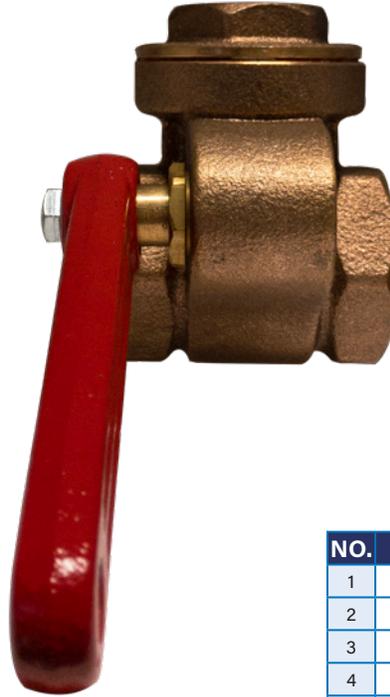


QUICK OPENING GATE VALVE

VALVES

GATE VALVE QUICK OPENING

FEATURES: BRONZE MATERIAL, THREADED ENDS, 200 WOG



MATERIAL SPECIFICATION

NO.	PART	BRONZE
1	BONNET	BRASS (C85700)
2	PACKING	FIBRE
3	ARM	BRASS (C85700)
4	DISC MALE	BRASS (C85700)
5	DISC FEMALE	BRASS (C85700)
6	BODY	BRASS (C85700)
7	STEM	BRASS (C37700)
8	WASHER	BRASS (C37700)
9	PACKING	Polytetrafluoroethylene POLYFLON(PTFE M-392)
10	PACKING NUT	BRASS (C37700)
11	HANDLE	CAST IRON (JIS ZZ2202) RUBBER COATING BRASS (C85700)
12	NAME PLATE	ALUMINIUM (A1100)
13	WASHER	HOT ROLLED (SAE 1010R)
14	HANDLE BOLT	HOT ROLLED (SAE 1010R)

PART #	SIZE	L	L1	L2	H	H1	BOX	CASE	LIST PRICE
941133	1/2"	45.6	60.6	119	56.8	52.8	10	50	---
941134	3/4"	51	62	126.3	68	87.5	10	50	---
941135	1"	58.3	72.3	155	78.7	90.2	10	30	---
941136	1-1/4"	30.1	78	180.2	89.5	104	5	25	---
941137	1-1/2"	66.7	85.3	196.6	99.2	131	6	18	---
941138	2"	76.4	90.3	250.6	119.3	143.7	2	10	---
941140	3"	101	129.2	305.6	172.2	191.3	2	6	---
941141	4"	114.5	150.7	378.2	213.5	248.6	1	2	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



Y-PATTERN STRAINER

VALVES

CLASS 150 BRASS Y-PATTERN STRAINER

- Forged Brass body, size 1/4"-3".
- Pressure rating: 250 WOG (water, oil, gas)/PN25
125 WSP (Saturated Stem)
- NPT Threaded ends to ANSI B1.20.1
- Protects regulators, pumps, meters and other controls from damage due to sediment scale, metal chips or other foreign materials.
- Screwed cap is threaded & gasketed.
- Tapped drain plug opening in cap.
- 304 stainless steel screen #20 mesh.
- Self cleaning.
- Self cleaning can be accomplished by opening the valve or plug connected to the blow-off outlet.
- Made in Indonesia
- NOT LEAD FREE

- w/20 Mesh Screen
- Temp 180°F



PART#	SIZE	L	H	C (PLUG)	WEIGHT	BOX/CASE	LIST PRICE
940521	1/4"	2.57	1.95	NPT 3/8	.53	10/100	---
940522	3/8"	3.23	2.44	NPT 3/8	.71	12/48	---
940523	1/2"	3.23	2.44	NPT 3/8	.66	12/48	---
940524	3/4"	3.94	2.78	NPT 3/8	1.10	8/32	---
940525	1"	4.53	3.19	NPT 1/2	1.71	8/32	---
940526	1-1/4"	5.33	3.66	NPT 1/2	2.49	6/24	---
940527	1-1/2"	6.20	3.82	NPT 1/2	3.24	2/16	---
940528	2"	7.44	4.65	NPT 1/2	5.39	2/8	---
940530	3"	9.4	5.67	NPT 3/4	13.49	1/4	---

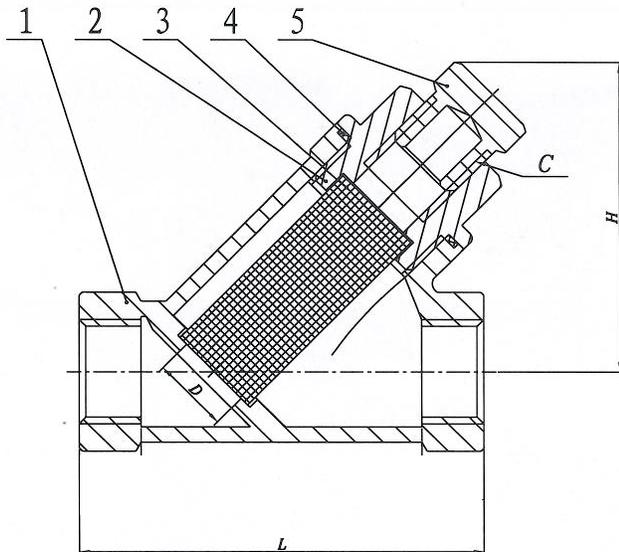
Add 'S' to part # for replacement screens



See Lead Free for 1/2" Lead Free



See SS Y Strainer



NO	NAME	MATERIAL
1	BODY	C85700
2	BONNET	C85700
3	STRAINER	304 S.S.
4	SPRING SEAL	PTFE
5	END CAP	C85700

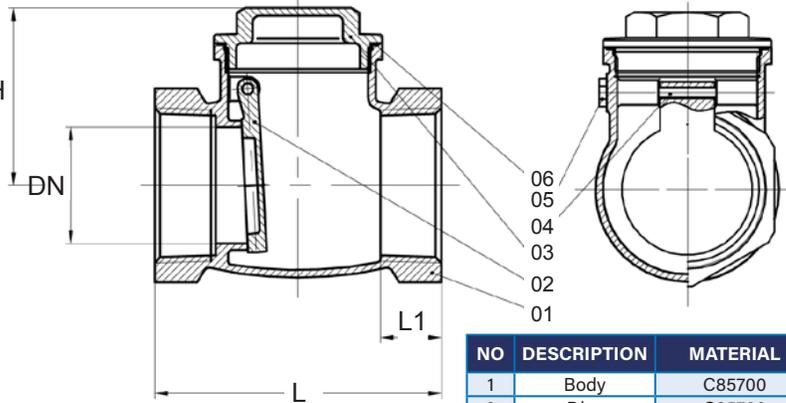
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS SWING CHECK VALVES

VALVES

BRASS SWING CHECK VALVES

- Working pressure non-shock: 200 psi W.O.G. (cold water, oil, gas) 125 psi WSP (saturated steam)
- Swing type disc.
- Screwed Cap.
- Hard Seat.
- 90° Straight Pattern.
- Used to prevent reverse flow in commercial and industrial applications. H
- Threaded ends to ANSI B1.20.1
- Integral seat.
- Temp range -5° - 150F°
- NOT LEAD FREE
- Cracking pressure 3-5 psi
- Made in Indonesia



NO	DESCRIPTION	MATERIAL
1	Body	C85700
2	Disc	C85700
3	Cap	C85700
4	Brass Bar	C85700
5	Screw	C85700
6	Gasket	Fibre H

CAST BRASS SWING CHECK VALVES IPS SCREWED ENDS

PART #	SIZE	L	H	L1	DN	WEIGHT	BOX/CASE	LIST PRICE
940352	1/2	2.09	1.42	0.531	0.512	.41	10/100	---
940353	3/4	2.36	1.56	0.579	0.728	.56	10/80	---
940354	1	2.62	1.77	0.748	0.925	.80	8/40	---
940355	1-1/4	3.19	2.07	0.748	1.201	1.36	5/40	---
940356	1-1/2	3.54	2.16	0.846	1.417	1.56	5/20	---
940357	2	4.21	2.74	0.886	1.772	2.61	2/16	---
940358	2-1/2	5.14	3.09	1.063	2.224	4.55	1/8	---
940359	3	5.77	3.80	1.102	2.579	6.53	1/6	---
940360	4	6.84	4.25	1.102	3.602	10.18	1/4	---



See Lead Free Brass Swing Check Valves



See SS Swing Check Valves

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



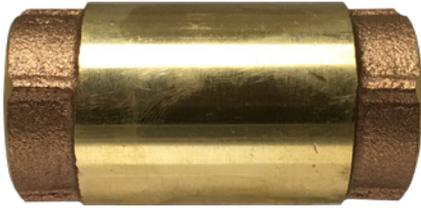
BRASS CHECK VALVES

VALVES

BRASS CHECK VALVES

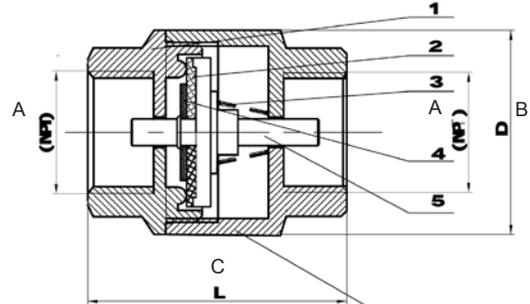
S.S. SPRING LOADED BRONZE POPPET - For positive sealing & self-cleaning. Insures against leakage.

- Inline Lift Type - Resilient Discs - Spring Actuated - Threaded.
- Pressure rating: 200 WOG (water, oil, gas) / 125 WSP (Saturated Steam)
- Spring in stainless steel AISI 304. • Resilient washer hold/ disc in brass. • Forged Brass Body for 1/2"-2"
- Corrosion resistant material. • Can be used vertically or horizontally. • Opens & Closes with flow of media.
- No cracking pressure. • NOT LEAD FREE • Made in Indonesia



1/4 Made in Taiwan

Temp Range
-10°C - 110°C
14°F - 248°F



BRASS CHECK VALVE (INCHES)								
PART#	SIZE	ENTERS PIPE SIZE	A NPT	B	C	WEIGHT	BOX/CASE	LIST PRICE
944428	1/4"	-	1/4"	1.00	2.29	.24	24/192	---
944429	3/8"	-	3/8"	1.00	2.07	.23	10/100	---
944430	1/2"	1-1/4"	1/2"	1.26	2.40	.42	10/100	---
944431	3/4"	1-1/4"	3/4"	1.45	2.74	.53	10/80	---
944432	1"	2"	1"	1.77	3.23	.85	6/48	---
944433	1-1/4"	2-1/2"	1-1/4"	2.13	3.62	1.18	4/40	---
944434	1-1/2"	3"	1-1/2"	2.29	4.04	1.40	5/30	---
944435	2"	3-1/2"	2"	2.48	5.04	2.70	5/20	---



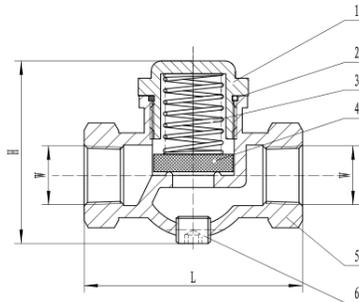
• See Lead Free Brass Check Valves



• See SS Check Valves

IN LINE CHECK VALVES VERTICAL OR HORIZONTAL

- Working Pressure: 250 PSI • Temperature Range: -40° to 450°F (-40° to 230°C)
- Cracking Pressure: 3 PSI • Made in China • Not lead free
- Applications: Air Compressor Discharge Lines, may also used on water or oil lines
- Construction: Cast Bronze Body, Corrosion Resistant Stainless Steel Spring to Ensure Long Life, 15% Glass Filled • Polytetrafluoroethylene Poppet, C360 Machined Brass Cap, 1/8 NPT Unloader Port is Standard • Repairable



PART#	PART NAME	MATERIAL
6	Plug	Brass
5	Body	Bronze
4	Gasket	PTPF
3	Spring	S.Steel
2	O-ring	HNBR
1	Cap	Brass

PART #	SIZE	W	L	H	WTG	BOX/CASE	LIST PRICE
947142	3/8"	3/8	2.50	2.18	0.62	10/50	---
947143	1/2"	1/2	2.50	2.13	0.54	10/50	---
947144	3/4"	3/4	2.88	2.64	1.17	8/40	---
947145	1"	1	3.61	3.30	1.98	2/20	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BRASS IN-LINE CHECK VALVES

VALVES

BRASS IN-LINE CHECK VALVES

Y-PATTERN STRAINER

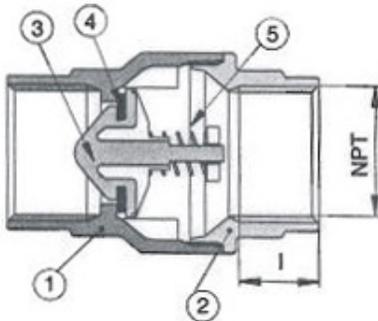
High Capacity, Size 1/4"-2" 400 WOG, 2 1/2"-4" 175 WOG

- Soft Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action.
 - Compact design.
 - Low Cracking Pressure 1/2 psi.
 - Flow Profile Designed to Minimize Head Loss.
 - Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 210°F.
 - Polyetherimide Disc to ensure the Best Resistance For Corrosion and Abrasion.
 - Patented Disc Guide to Prevent Any Side Loading.
 - Connection: FNPT x FNPT.
 - Made in Italy • Not lead free
- NBR for water, oils and general purpose.
With Fluoroelastomer® Seal for fuels and hydrocarbons. Max working TEMPERATURE 325°F/125 psi steam

Add V to part# for Fluoroelastomer



BRASS IN-LINE CHECK								
PART#	LIST PRICE	SIZE	I	PSI	LBS	CASE	FLUOR PART#	LIST PRICE
944401	---	1/4"	0.39	400	0.22	144		
944402	---	3/8"	0.40	400	0.18	144	944402V	---
944403	---	1/2"	0.60	400	0.32	144	944403V	---
944404	---	3/4"	0.65	400	0.49	90	944404V	---
944405	---	1"	0.66	400	0.71	90	944405V	---
944406	---	1-1/4"	0.68	400	1.13	30	944406V	---
944407	---	1-1/2"	0.68	400	1.53	30	944407V	---
944408	---	2"	0.69	400	2.28	12	944408V	---
944409	---	2-1/2"	0.93	175	4.83	4	944409V	---
944410	---	3"	1.01	175	6.70	4	944410V	---
944411	---	4"	1.09	175	12.43	2	944411V	---



NO	PART	MATERIAL	PCS
1	Body	Brass	1
2	End Connection	Brass	1
3	Disc	Polyetherimide	1
4	Seat	100002 Nbr	1
		100003 Fluoroelastomer	1
5	Spring	Stainless Steel	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



316 SS FULL PORT VALVES

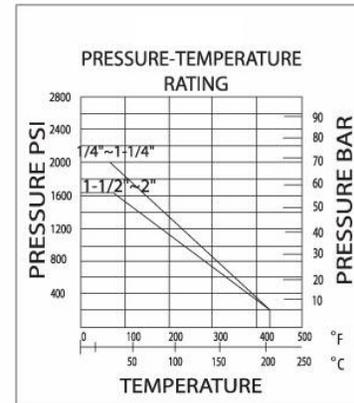
VALVES

316 SS 2-PC BALL VALVE, FULL PORT, THREADED END, 2000 PSI

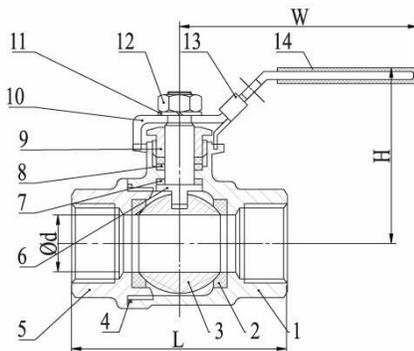
- Investment Castings for body and cap.
- Internal Entry blow-out proof stem.
- Pressure rating: 2000PSI.
- Threaded Ends: ANSI B2,1
- Material: CF8M (316SS)
- Pressure test: API 598
- Generic Handles



LOCKING HANDLE



PART#	SIZE	D	L	H	W	N.M	LBS/ PC	CASE	LIST PRICE
949171	1/4"	0.36	2.13	2.13	4.33	.157	0.64	80	---
949172	3/8"	0.50	2.13	2.16	4.33	.157	0.58	80	---
949173	1/2"	0.59	2.24	2.28	4.53	.197	0.71	70	---
949174	3/4"	0.79	2.76	2.40	4.53	.315	1.18	50	---
949175	1"	0.98	3.50	3.03	6.04	.394	2.33	30	---
949176	1-1/4"	1.25	4.12	3.19	6.04	.551	3.48	20	---
949177	1-1/2"	1.50	4.05	3.54	6.10	.709	4.03	14	---
949178	2"	1.96	4.90	4.25	6.10	.984	7.50	7	---



NO	PART	MATERIAL	QTY
1	BODY	316SS	1
2	BALL SEAT	PTFE	2
3	BALL	316SS	1
4	BODY SEAL	PTFE	1
5	CAP	316SS	1
6	STEM	SS316	1
7	THRUST WASHER	PTFE	1
8	PACKING	PTFE	1
9	GLAND NUT	SS304	1
10	HANDLE	SS304	1
11	WASHER	SS304	1
12	NUT	SS304	1
13	LOCK DEVICE	SS304	1
14	HANDLE COVER	PLASTIC	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS STANDARD PORT VALVES

VALVES

ONE PIECE STANDARD PORT BALL VALVE

316 Stainless Steel
1000 PSI

- Manufactured for harsh environments with female NPT threads.
- Locking handle for greater security.
- Standard port has restricted flow.
- Made with corrosion resistant stainless steel materials.
- PTFE seat and seals.
- Investment Castings for Body and Cap.
- Internal Entry Blow-out proof stem.
- Pressure rating: 1000PSI (PN63)
- Threaded Ends: ANSI B2.1
- Material: CF8M
- Pressure Test: API 598
- Generic handles



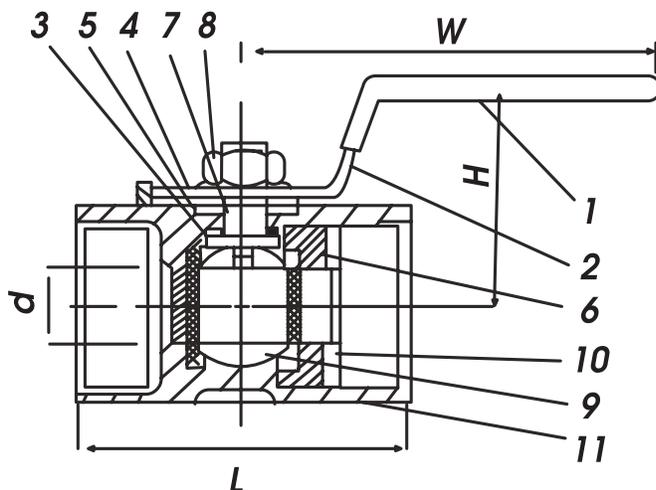
LOCKING HANDLE

Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	LIST PRICE
949101	1/4"	0.20	1.53	1.53	3.03	0.19	150	---
949102	3/8"	0.27	1.74	1.53	3.03	0.23	150	---
949103	1/2"	0.36	2.24	1.73	3.46	0.41	100	---
949104	3/4"	0.50	2.32	1.89	3.46	0.63	70	---
949105	1"	0.59	2.80	2.24	4.29	0.86	50	---
949106	1-1/4"	0.79	3.07	2.32	4.29	1.34	30	---
949107	1-1/2"	0.98	3.26	2.76	5.14	2.00	25	---
949108	2"	1.25	3.94	2.24	6.50	2.88	15	---

Larger sizes available on special order basis



ITEM	PARTS	MATERIAL
1	Plastic Cover	Plastic
2	Handle	AISI 304 SS
3	Thrust Washer	PTFE
4	Packing Ring	AISI 304 SS
5	Stem Packing	PTFE
6	Seat	PTFE
7	Seat	AISI 316 SS
8	Stem Nut	AISI 304 SS
9	Ball	316SS ASTM-A351 CF8M
10	Cap	316SS ASTM-A351 CF8M
11	Body	316SS ASTM-A351 CF8M

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES

316 SS TWO PIECE FULL PORT VALVES

VALVES

TWO PIECE FULL PORT BALL VALVE316 Stainless Steel
1000 PSI

Materials: CFM8M (SS316)

Features:

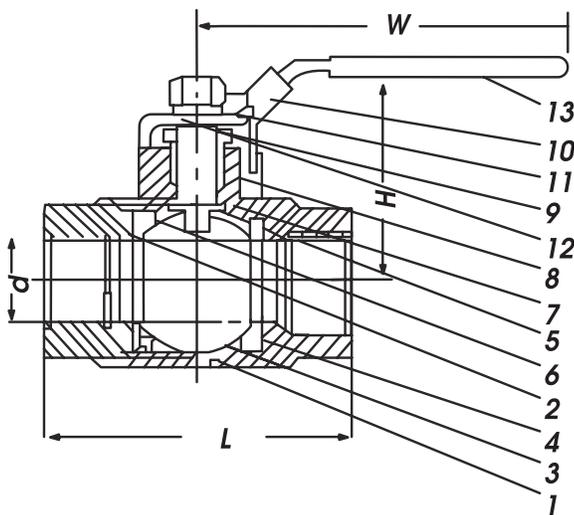
- Quality manufactured for harsh environments.
- Corrosion resistant.
- Investment Casting body
- Working pressure 1000 psi for W.O.G.
- Adjustable stem packing
- Pure Polytetrafluoroethylene seals and seats
- Temperature range: -60 to 450°F
- Blow-out proof stem and safe pressure-reducing hole
- 100% leakage tested at 100 psi air under water
- Hydrostatic test pressure: 1500 psi
- Locking handle w/ blue generic sleeve
- 125 Steam rated
- Generic Handles



Valves will accept a pad-lock on the handle.

dimensions (inches)

PART#	SIZE	D	L	H	W	WEIGHT	CASE	LIST PRICE
949161	1/4"	0.36	2.13	2.13	4.33	0.51	80	---
949162	3/8"	0.50	2.13	2.16	4.33	0.49	80	---
949163	1/2"	0.59	2.24	2.28	4.17	0.69	70	---
949164	3/4"	0.79	2.68	2.40	4.17	1.03	50	---
949165	1"	0.98	3.15	2.50	4.88	1.40	30	---
949166	1-1/4"	1.26	3.58	3.19	5.04	2.17	20	---
949167	1-1/2"	1.49	4.05	3.54	6.10	3.33	12	---
949168	2"	1.97	4.88	4.25	6.13	6.02	7	---
949170	3"	3.15	7.28	5.71	9.06	21.01	2	---
949180	4"	3.94	8.84	7.28	11.10	36.18	1	---



ITEM	PARTS	MATERIAL
1	Body	316SS ASTM-A351 CF8M
2	Body Cap	316SS ASTM-A351 CF8M
3	Ball	316SS ASTM-A351 CF8M
4	Seat	Reinforced PTFE
5	Stem	AISI 316 SS
6	Seal	Reinforced PTFE
7	Thrust Washer	Reinforced PTFE
8	Packing	Reinforced PTFE
9	Gland Nut	AISI 304SS
10/11	Nut & Washer	AISI 304SS
12	Handle	AISI 304SS
13	Plastic Cover	Plastic

SS = Stainless Steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

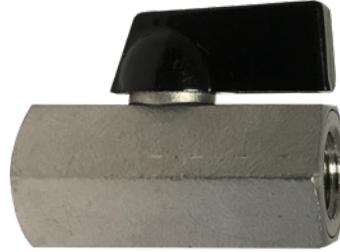


316 SS MINI BALL VALVES

VALVES

STAINLESS STEEL MINI BALL VALVES

- 316 Stainless Steel
- Working pressure 400PSI
- Working Temperature -10°C to 150°C



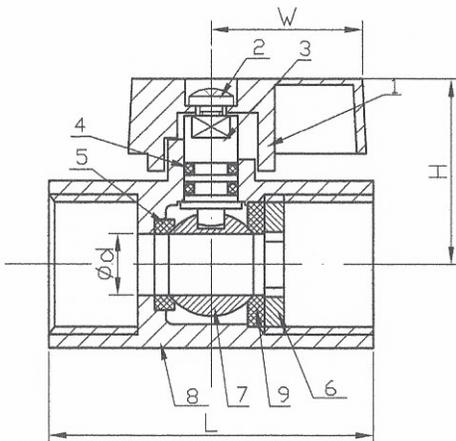
FEMALE PIPE X FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	LIST PRICE
46934SS	1/8"	.898	.197	.985	1.693	.18	150	---
46935SS	1/4"	.898	.276	.984	1.693	.21	150	---
46936SS	3/8"	.898	.276	.984	1.693	.19	150	---
46937SS	1/2"	.898	.362	1.114	1.811	.26	100	---



MALE PIPE X FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE	LIST PRICE
46930SS	1/8"	.898	.197	.985	1.693	.18	150	---
46931SS	1/4"	.898	.276	.984	1.693	.18	150	---
46932SS	3/8"	.898	.276	.984	1.693	.19	150	---
46933SS	1/2"	.898	.362	1.114	1.811	.26	100	---



NO	PART	MATERIAL	QTY
1	LEVER	ALUMINIUM ALLOY	1
	HANDLES	PLASTIC	
2	BOLT	304	1
3	STEM	304/ 316	1
4	"O" RING	NBR	1~2
5	BALL SEAT (A)	PTFE	1
6	CAP	CF8/ CF8M	1
7	BALL	CF8/ CF8M	1
8	BODY	CF8/ CF8M	1
9	BALL SEAT (B)	PTFE	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES

316 SS MINI BALL VALVES

VALVES

MINI STAINLESS STEEL BALL VALVE ,WITH BUTTERFLY HANDLE

1000PSI WOG , 150PSI WSP

Temperature Range: -36°F to + 368°F

Full Port for 1/4" , Standard port for 3/8" and 1/2"

316 Stainless Steel body and Ball

Polytetrafluoroethylene seats and sealing

• Fluoroelastomer O-Ring

• #316 Stainless Steel

• Made in China

FEMALE PIPE X FEMALE PIPE

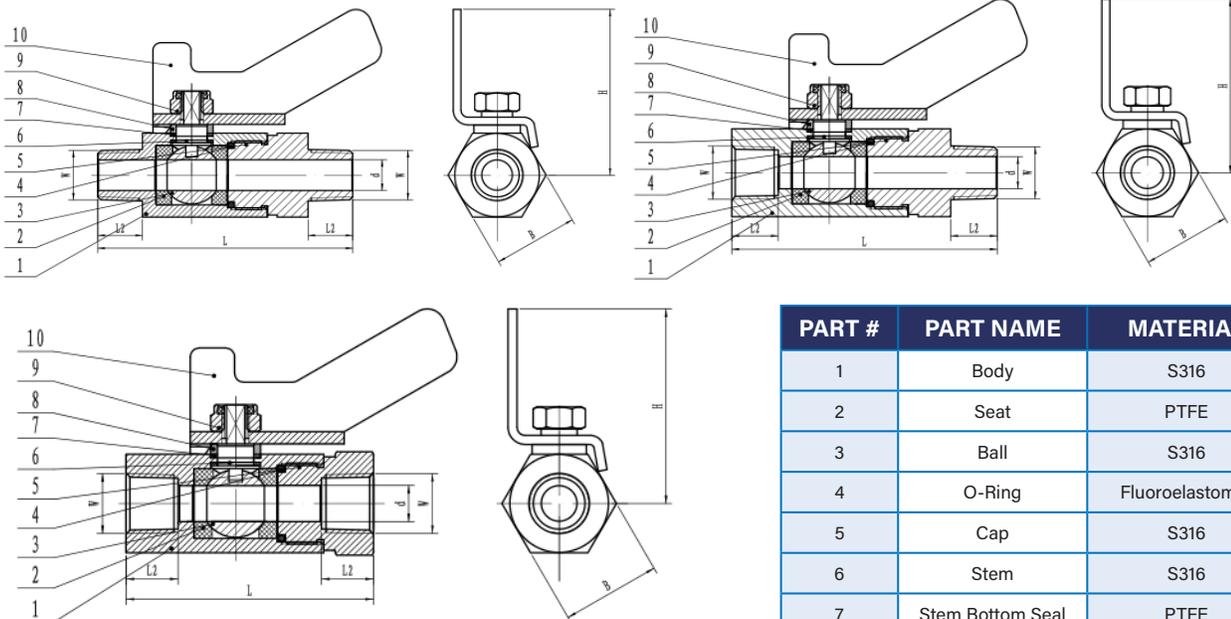
PART #	SIZE FIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46922SS	1/4"x1/4"	0.314"	2.34"	22.1/0.87"	1.5"	0.33	36	---
46923SS	3/8"x3/8"	0.314"	2.39"	22.1/0.87"	1.5"	0.39	36	---
46924SS	1/2"x1/2"	0.314"	2.81"	24.9/0.98"	1.5"	0.43	36	---

MALE PIPE X FEMALE PIPE

PART #	SIZE MIP X FIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46903SS	1/4"x1/4"	0.314"	2.45"	0.87"	1.5"	0.39	36	---
46904SS	3/8"x3/8"	0.314"	2.45"	0.87"	1.5"	0.36	36	---
46905SS	1/2"x1/2"	0.314"	2.81"	0.98"	1.5"	0.41	36	---

MALE PIPE X MALE PIPE

PART #	SIZE MIP X MIP	DIMENSIONS IN				WTG	BOX	
		D	L	B (HEX)	H			
46912SS	1/4"x1/4"	0.314"	2.59"	0.87"	1.5"	0.33	36	---
46913SS	3/8"x3/8"	0.314"	2.65"	0.87"	1.5"	0.34	36	---



PART #	PART NAME	MATERIAL
1	Body	S316
2	Seat	PTFE
3	Ball	S316
4	O-Ring	Fluoroelastomer
5	Cap	S316
6	Stem	S316
7	Stem Bottom Seal	PTFE
8	Stem Up Seal	PTFE
9	Nut	Steel
10	Handle	Steel

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



304 SS CHECK VALVES

VALVES

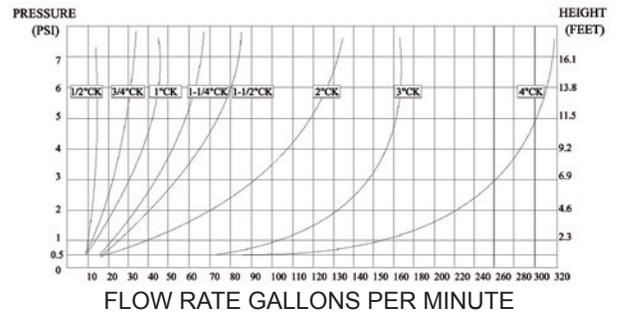
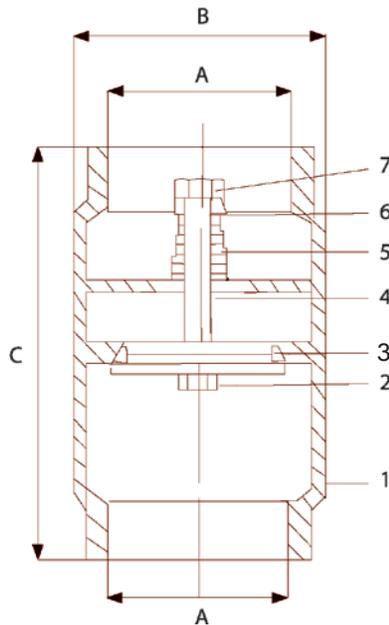
#304 STAINLESS STEEL CHECK VALVE

- No Lead.
- Water wells need a check valve installed above the pumps between lengths of drop pipes.
- Opens & Closes with flow of media.
- No cracking pressure.
- Working pressure unavailable.
- Made in Taiwan



DIMENSIONS (INCHES)						
PART#	SIZE	A NPT	B	C	BOX/CASE	LIST PRICE
949430	1/2"	1/2"	1.26	2.43	10/100	---
949431	3/4"	3/4"	1.50	2.72	10/80	---
949432	1"	1"	1.77	3.23	10/60	---

More sizes available on a special order basis.



NO	PART	MATERIAL
1	Body	S.S 304
2	Stopper	S.S 304
3	O-Ring	Fluor
4	Washer	PE
5	Spring	S.S 304
6	Cap	S.S 304
7	Nut	S.S 304

FLUOR* ABBREVIATION FOR FLUOROELASTOMER

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES

SS IN-LINE CHECK VALVES

VALVES

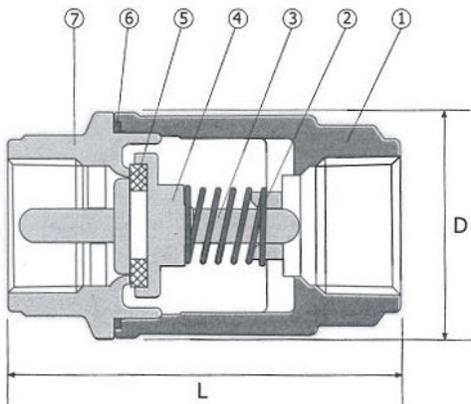
**STAINLESS STEEL IN-LINE CHECK VALVE
Y-PATTERN STRAINER**

High Capacity, Size 1/4"-2" 800 WOG

- Soft PTFE Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action
- Low Cracking Pressure 1/2 psi.
- Flow Profile Designed to Minimize Head Loss.
- Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 450°F.
- Corrosion Resistant-Excellent for use on Chemicals.
- ASTM A351-CF8M Investment Casting.
- Connection: FNPT x FNPT.
- 125WSP Saturated Steam.
- ANSI B1.20.1 Threads.
- Dual Guided Stem & Disc.
- Made in Italy



STAINLESS STEEL IN-LINE CHECK						
PART#	SIZE	D	L	PSI	LBS	LIST PRICE
949401	1/4"	1.15	2.25	800	0.36	---
949402	3/8"	1.16	2.25	800	0.34	---
949403	1/2"	1.35	2.31	800	0.40	---
949404	3/4"	1.81	2.87	800	0.85	---
949405	1"	2.13	3.50	800	1.30	---
949406	1-1/4"	2.46	4.18	800	2.50	---
949407	1-1/2"	2.88	4.93	800	3.40	---
949408	2"	3.56	6.00	800	6.0	---



NO	PART	MATERIAL	PCS
1	BODY	ASTM A351-CF8M	1
2	SPRING	SS316	1
3	CENTER GUIDE	ASTM A351-CF8M	1
4	DISC	ASTM A351-CF8M	1
5	SEAT	PTFE	1
6	GASKET	PTFE	1
7	END CAP	ASTM A351-CF8M	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



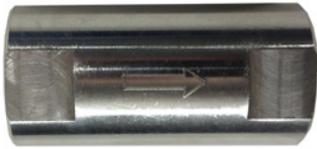
316 SS SPRING CHECK VALVES

VALVES

SPRING CHECK VALVE

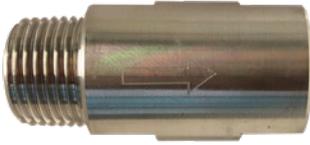
- Working Pressure: 1500PSI (PN100)
- Working Temperature: -10 -150°C
- Opening Pressure: 2~3PSI
- Suitable Medium: W.O.G.
- Threaded End: NPT
- Made in China

FEMALE PIPE X FEMALE PIPE



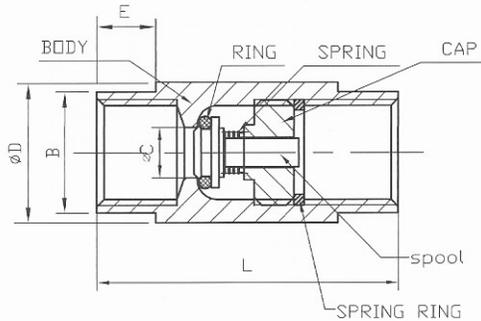
PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	LIST PRICE
949451	1/4"	2.165	.217	.748	.699	.394	.19	200	---
949452	3/8"	2.165	.295	.866	.787	.394	.21	160	---
949453	1/2"	2.165	.413	1.063	.945	.472	.31	100	---
949454	3/4"	2.677	.591	1.417	1.26	.472	.71	60	---
949455	1"	3.268	.787	1.693	1.496	.591	1.14	36	---

MALE PIPE X FEMALE PIPE



PART#	SIZE	L	C	D	B	E	LBS/ PC	CASE	LIST PRICE
949471	1/4"	2.165	.217	.748	.699	.394	.176	200	---
949472	3/8"	2.165	.295	.866	.787	.394	.22	160	---
949473	1/2"	2.165	.413	1.063	.945	.472	.27	100	---
949474	3/4"	2.677	.591	1.417	1.26	.472	.62	65	---

FLOWS MALE -> FEMALE



NO	PART	MATERIAL	QTY
1	BODY	316	1
2	RING	Rubber	1
3	SPRING	304	1
4	CAP	CF8M	1
5	SPOOL	304/316	1
6	SPRING RING	304	1

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

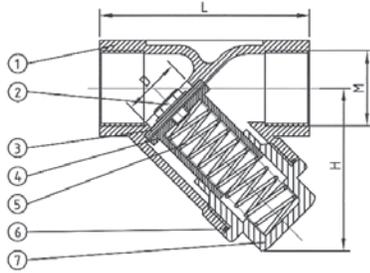
VALVES

SS Y-SPRING/ BARREL CHECK VALVES

VALVES

Y-SPRING CHECK VALVE

- Working Pressure: 800PSI (PN55)
- Working Temperature: -10 -150°C
- Opening Pressure: 1.5PSI
- Suitable Medium: W.O.G.
- Made in China

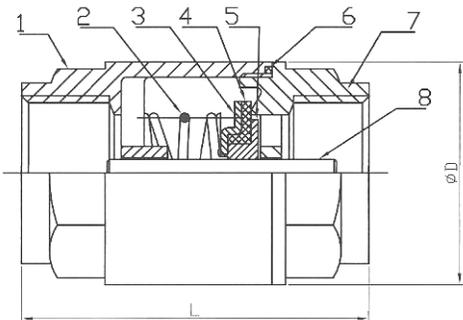


PART#	SIZE	L	H	D	LBS/ PC	CASE	LIST PRICE
949483	1/2"	2.559	1.634	.591	.51	100	---
949484	3/4"	3.15	2.067	.787	.93	80	---
949485	1"	3.543	2.657	.984	1.25	40	---
949486	1-1/4"	4.134	2.795	1.26	2.20	30	---
949487	1-1/2"	4.724	3.169	1.575	3.24	24	---
949488	2"	5.512	3.74	1.969	5.21	10	---

NO	PART	MATERIAL	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	Polytetrafluoroethylene	1
4	DISC	304	1
5	SPRING	304	1
6	GASKET	Polytetrafluoroethylene	1
7	CAP	CF8M/ CF8	1

2PC BARREL TYPE SPRING CHECK VALVE

- Working Pressure: 300PSI (PN20)
- Working Temperature: -10 -120°C
- Opening Pressure: 2PSI
- Suitable Medium: W.O.G.
- Threaded end: NPT
- Made in China



PART#	SIZE	L	D	LBS/PC	CASE	LIST PRICE
949441	1/4"	2.00	1.142	.27	100	---
949442	3/8"	2.00	1.142	.24	100	---
949443	1/2"	2.24	1.28	.36	100	---
949444	3/4"	2.44	1.594	.54	60	---
949445	1"	2.95	1.89	.88	30	---
949446	1-1/4"	3.23	2.362	1.39	18	---
949447	1-1/2"	3.46	2.756	1.81	25	---
949448	2"	3.94	3.425	2.86	14	---

NO	PART	MATERIAL	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	NBR	1
4	DISC	304	1
5	SPRING	316/ 304	1
6	GASKET	PTFE	1
7	CAP	CF8M/ CF8	1

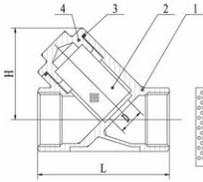
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

316 SS MISCELLANEOUS VALVES

VALVES

#316 SS Y STRAINER

- Investment Castings for Body
- Pressure Rating: 800PSI (PN40)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



- 40 Mesh screen

	PART	MATERIAL	QTY
1	BODY	CF8M	1
2	SCREEN	SS316	1
3	JOINT GASKET	PTFE	1
4	BONNET	CF8M	1

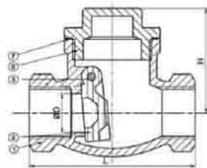
PART #	SIZE	D	L	H	W	ØA	LBS	LIST PRICE
949521	1/4"	.38"	2.53	51	1.69	1	0.44	---
949522	3/8"	.48"	2.53	51	1.69	1	0.38	---
949523	1/2"	.59"	2.53	51	1.76	1	0.46	---
949524	3/4"	.79"	3.12	60	2.07	1	0.69	---
949525	1"	.98"	3.57	72	2.67	1	1.27	---
949526	1-1/4"	1.26"	4.17	77	2.9	1	1.74	---
949527	1-1/2"	1.57"	4.71	87	3.23	1	2.38	---
949528	2"	1.96"	5.49	102	3.88	1	3.57	---

316 SS SWING CHECK VALVE

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



	PART	MATERIAL	QTY
1	Body	Cf8m	1
2	Disc	Cf8m	1
3	Pipe Plug	Cf8	1
4	Screw	Cf8	1
5	Screw Gasket	Ptfe	1
6	Cap	Cf8m	1
7	Cap Gasket	Ptfe	1



PART #	SIZE	D	L	W	LBS	LIST PRICE
949353	1/2"	.59"	2.45	1.66	0.53	---
949354	3/4"	.79"	2.92	1.82	0.73	---
949355	1"	.98"	3.41	2.06	1.2	---
949356	1-1/4"	1.26"	3.93	2.32	1.79	---
949357	1-1/2"	1.57"	4.54	2.54	2.18	---
949358	2"	1.96"	5.3	2.78	3.03	---

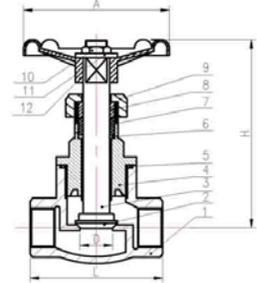
CF8 = 304SS
CF8M = 316SS

316 SS GLOBE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



	PART	MATERIAL	QTY
1	Body	Cf8m	1
2	Disc	Cf8m	1
3	Stem	304ss	1
4	Cap	Cf8m	1
5	Seal	Ptfe	1
6	Gasket	304ss	1
7	Packing	Ptfe	1
8	Gasket	Cf8	1
9	Gland	304ss	1
10	Nut	304ss	1
11	Spring Washer	Cf8	1
12	Handle Wheel	Steel	1



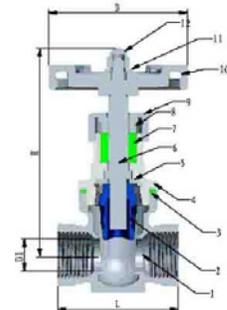
PART #	SIZE	L	LBS	LIST PRICE
949303	1/2	2.64	0.89	---
949304	3/4	3.19	1.3	---
949305	1	3.46	1.72	---
949306	1-1/4	3.81	2.33	---
949307	1-1/2	4.25	3.11	---
949308	2	5.1	4.38	---

316 SS GATE VALVES

- 200PSI(PN16)
- Threaded Ends: ANSI B2.1
- Material: CF8M (#316 SS)
- Pressure Test: API 598
- Made in China



	PART	MATERIAL	QTY
1	Body	Cf8m	1
2	Disc	Cf8m	1
3	Seal	Cf8m	1
4	Cap	Cf8m	1
5	Seal	Ptfe	1
6	Stem	304ss	1
7	Seal	Ptfe	1
8	Gland	304ss	1
9	Nut	304ss	1
10	Handle Wheel	Steel	1
11	Gasket	Ptfe	1
12	Cap Nut	Cf8	1



PART #	SIZE	L	D	D1	H	LBS	LIST PRICE
949253	1/2	2.07	2.54	0.55	3.37	0.78	---
949254	3/4	2.28	2.89	0.74	4.03	0.99	---
949255	1	2.42	2.89	0.95	4.46	1.25	---
949256	1-1/4	2.79	3.06	1.18	4.86	1.76	---
949257	1-1/2	2.92	3.79	1.49	5.53	2.59	---
949258	2	3.3	4.17	1.85	6.12	3.54	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CARBON STEEL BALL VALVES

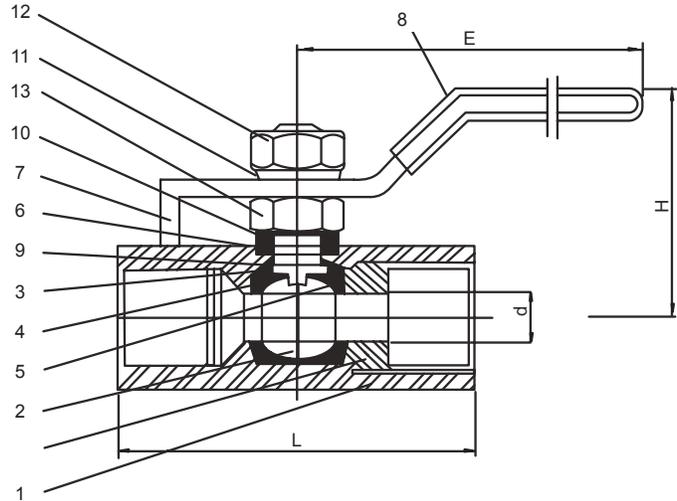
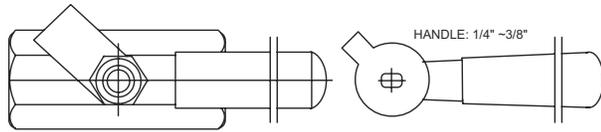
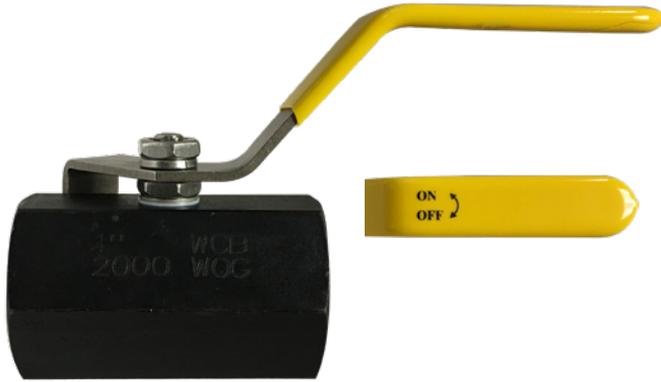
VALVES

STANDARD PORT CARBON STEEL BALL VALVE

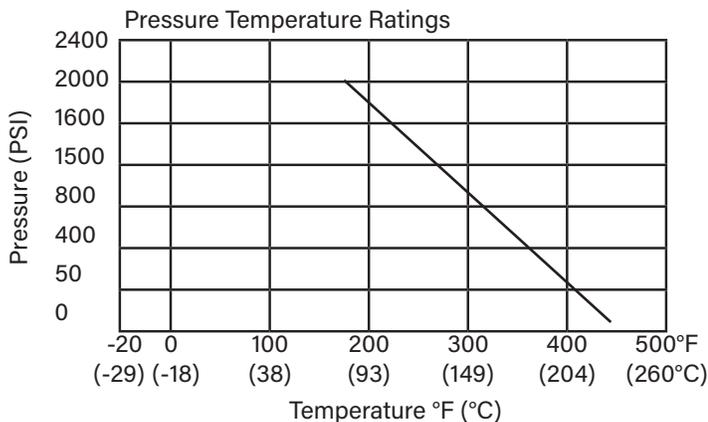
- For chemical and industrial applications.
- Blow-out proof stem design.
- 100% air tested under water, at 100 psi, open and closed positions.
- Made in China
- Generic handles

SPECIFICATIONS

- Working Pressure: 1/4" ~ 1" 2000 psi WOG,
1-1/4" ~ 2" 1500 psi WOG,
- Temperature Range: -60° to 450°F
- End types: Threaded
- 1 piece ball valve
- Reinforced PTFE seat

**2000 PSI STANDARD PORT**

PART #	SIZE	D	H	E	L	WTG	BOX/ CASE	LIST PRICE
949121	1/4	.20	1.38	2.95	1.71	0.25	24/96	-----
949122	3/8	.28	1.30	3.27	1.87	0.32	100/200	-----
949123	1/2	.36	2.36	4.53	2.20	0.67	50/100	-----
949124	3/4	.49	2.72	4.53	2.58	1.06	50/100	-----
949125	1	.59	2.95	5.00	3.19	1.17	25/50	-----
949126	1-1/4	.78	3.07	5.29	3.94	3.15	15/30	-----
949127	1-1/2	0.98	3.39	5.29	3.94	2.15	15/30	-----
949128	2	1.26	3.86	5.29	4.49	6.21	10/20	-----



ITEM	PARTS	MATERIAL
1	Body	ASTM A216 WCB
2	Ball	ASTM A351 CF8
3	Stem	304
4	Ball Seat	PTFE
5	Cap Seal	PTFE
6	Packing	PTFE
7	Handle	SS304
8	Handle Sleeve	Vinyl Grip
9	Thrust Washer	PTFE
10	Gland	SS304
11	Washer	SS304
12	Handle Nut	SS304
13	Stem Nut	SS304

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



CARBON STEEL FULL PORT BALL VALVES

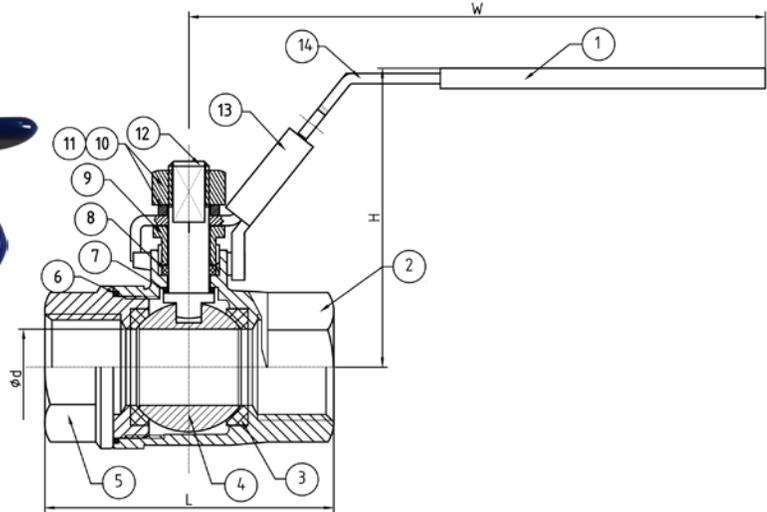
VALVES

2000 PSI CARBON STEEL 2PC FULL PORT BALL VALVE

• 2 PIECE

SPECIFICATIONS

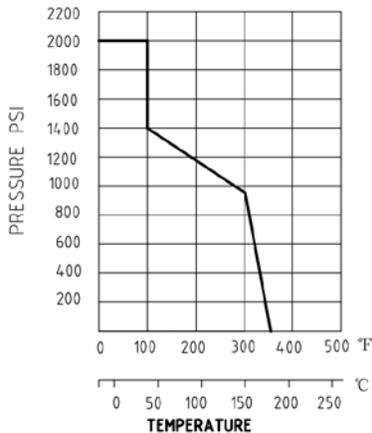
- Working Pressure: 2000 PSI (138 Bar)
- Temperature Range: -10° C-150° C
- Suitable medium: WOG
- Threaded End conforms to ANSI B1.20.1
- Made in China
- Generic handle



2000 PSI FULL PORT

PART #	SIZE	D	L	H	W	WTG	BOX/ CASE	LIST PRICE
949111	1/4	0.36	2.13	2.13	4.33	0.59	70	---
949112	3/8	0.50	2.13	2.17	4.33	0.59	70	---
949113	1/2	0.59	2.24	2.28	4.33	0.75	60	---
949114	3/4	0.79	2.76	2.40	4.33	1.17	50	---
949115	1	0.98	3.25	3.03	5.04	1.88	30	---
949116	1-1/4	1.26	3.58	3.19	5.04	2.45	20	---
949117	1-1/2	1.50	4.06	3.54	6.10	4.06	20	---
949118	2	1.97	4.90	4.25	6.10	2.43	7	---

PRESSURE-TEMPERATURE RATING



ITEM	PARTS	MATERIAL
1	Handle cover	Plastic
2	Body	CF8M
3	Ball seat	PTFE
4	Ball	CF8M
5	Cap	CF8M
6	Joint gasket	PTFE
7	Thrust washer	PTFE
8	Stem packing	PTFE
9	Gland nut	304
10	Spring washer	304
11	Stem nut	304
12	Stem	316
13	Lock device	304
14	Handle	304

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES

HIGH PRESSURE FULL PORT 2-WAY VALVES

VALVES

FULL PORT TWO-WAY



BKH

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE214NPT	1/4" NPT	7250 PSI	---
GE238NPT	3/8" NPT	7250 PSI	---
GE212NPT	1/2" NPT	7250 PSI	---
GE234NPT	3/4" NPT	5800 PSI	---
GE21NPT	1" NPT	5075 PSI	---
GE2114TNPT*	1-1/4" NPT	5000 PSI	---
GE2112TNPT*	1-1/2" NPT	5000 PSI	---
GE2-2T-NPT	2" NPT	5000 PSI	---

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE204SAE	7/16-20 UNF	7250 PSI	---
GE206SAE	9/16-18 UNF	7250 PSI	---
GE208SAE	3/4-16 UNF	7250 PSI	---
GE212SAE	1-1/16-12 UNF	5800 PSI	---
GE216SAE	1-5/16-12 UNF	5000 PSI	---

* Reduced Port
+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Fluoroelastomer on request)
Delrin Ball Seats

FULL PORT THREE-WAY



BK3

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE3L14NPT	1/4" NPT	5880 PSI	---
GE3L38NPT	3/8" NPT	5880 PSI	---
GE3L12NPT	1/2" NPT	5145 PSI	---
GE3L34NPT	3/4" NPT	5145 PSI	---
GE3L1NPT	1" NPT	5145 PSI	---
GE3L-2T-NPT	2" NPT	4500 PSI	---

PART #	THREAD	WORKING PRESSURE	LIST PRICE
GE3L06SAE	9/16-18 UNF	5880 PSI	---
GE3L08SAE	3/4-16 UNF	5145 PSI	---
GE3L12SAE	1-1/16-12 UNF	5145 PSI	---
GE3L16SAE	1-5/16-12 UNF	5145 PSI	---

+ 'L' flow pattern

Temp Rating = -22° - 212°F

Construction: Steel Body, Ball, Stem
Zinc Chromate Plate
Buna "O" Rings (Fluoroelastomer on request)
Delrin Ball Seats

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

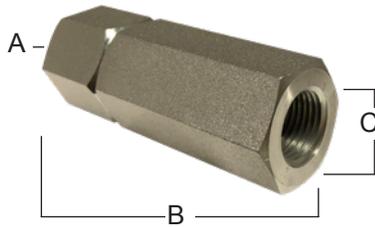


HIGH PRESSURE CHECK VALVES

VALVES

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 5LB CRACKING PRESSURE

• w/ NPT threads



A (NPT Female both ends)

PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	LIST PRICE
100025	1/4 NPT	2.44	.87	6	5,000	---
100035	3/8 NPT	2.87	.95	10	5,000	---
100045	1/2 NPT	3.76	1.26	18	5,000	---
100065	3/4 NPT	4.30	1.50	30	5,000	---
100085	1 NPT	4.74	1.83	36	5,000	---

CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 65LB CRACKING PRESSURE



PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI	LIST PRICE
1000265	1/4NPT	2.45	.87	6	5,000	---
1000365	3/8NPT	2.91	.94	10	5,000	---
1000465	1/2NPT	3.74	1.18	18	5,000	---
1000665	3/4NPT	4.29	1.26	30	5,000	---
1000865	1NPT	5.00	1.81	36	5,000	---
10001065	1-1/4NPT	5.20	2.41	50	3,000	---

Rated Pressure: Sizes 2 thru 8 - 5000 psi / Sizes 10 thru 24 - 3000 psi

• Soft Seat available by special quote

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BUTTERFLY VALVES
VALVES

**DUCTILE IRON VALVES
AND ACCESSORIES**

WAFER STYLE - LEVER OPERATED



NICKLE PLATED DUCTILE IRON DISC & SS DISC

WAFER STYLE GEAR OPERATED



NICKLE PLATED DUCTILE IRON DISC & SS DISC

BUTTERFLY ACCESSORIES



WAFER STYLE DOUBLE DOOR CHECK VALVE



AWWA C508 OUTSIDE LEVER



AND WEIGHT CHECK VALVES

UL/FM FLANGED SWING CHECK VALVE



SWING CHECK FLANGED

AWWA C515-15 GATE VALVES



FLANGED OS & Y RESILIENT
WEDGE GATE VALVE



NRS RESILIENT WEDGE GATE VALVES,
FLANGED, MECHANICAL JOINT & FLANGE
BY MECHANICAL JOINT

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BUTTERFLY VALVES - WAFER

VALVES

LEVER - WAFER

Small in size and light in weight, easy to install. It can be mounted wherever needed, quick 90° on-off operation. Disc has two-way bearing, perfect seal without leakage under the pressure test. Flow curve tending to straight-line. Strong wash and brush resistance and can fit to bad working condition. Center plate structure, small torque of open and close. Disc & stem are fastened by pin, more stable.



Standard:

- 1.Design Code :Ap1609 Class A
- 2.Face To Face : Ap1609
- 3.End Standard:ansl B16.5 125lb/150lb
- 4.Inspection & Test:apl 598

TOP FLANGE DIMENSIONS

SIZE	4-Φd2
1.5"-3"	4-0.276
4"-6"	4-0.39
8"-14"	4-0.47

PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9650L2	2"	200	7.3	---
9650L2.5	2-1/2"	190	8.4	---
9650L3	3"	180	9.8	---
9650L4	4"	150	12.1	---
9650L5	5"	110	16.5	---
9650L6	6"	90	16.9	---
9650L8	8"	50	30.3	---
9650L10	10"	35	44.5	---
9650L12	12"	24	51.6	---

SS DISC/ EPDM SEAT/ LEVER

PART#	SIZE	
9650L2SE	2"	---
9650L3SE	3"	---
9650L4SE	4"	---
9650L5SE	5"	---
9650L6SE	6"	---
9650L8SE	8"	---
9650L10SE	10"	---
9650L12SE	12"	---

GEAR - WAFER



Standard:

- 1.Design Code :Ap1609 Class A
- 2.Face To Face : Ap1609
- 3.End Standard:ansl B16.5 125lb/150lb
- 4.Inspection & Test:apl 598



TOP FLANGE DIMENSIONS

SIZE	ISO5211	ΦK	ΦE	4-ΦD2
1.5"-3"	F05	2.56	1.97	4-0.276
4"-6"	F07	3.54	2.76	4-0.39
8"-14"	F10	4.92	4.02	4-0.47

PART#	WAFER/ DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9650G2	2"	200	7.3	---
9650G2.5	2-1/2"	190	8.4	---
9650G3	3"	180	9.8	---
9650G4	4"	150	12.1	---
9650G6	6"	90	16.9	---
9650G8	8"	50	30.3	---
9650G10	10"	35	44.5	---
9650G12	12"	24	51.6	---

WAFER/ SS DISC/ EPDM SEAT/ GEAR

PART#	SIZE	
9650G2SE	2"	---
9650G2.5SE	2-1/2"	---
9650G3SE	3"	---
9650G4SE	4"	---
9650G6SE	6"	---
9650G8SE	8"	---
9650G10SE	10"	---
9650G12SE	12"	---

BUTTERFLY VALVES - LUG

VALVES

LEVER - LUG

Small in size and light in weight, easy to install, can be mounted wherever needed. Lug type butterfly valve can be used at the end of the pipeline. Lug type butterfly valve has threaded metal inserts installed in the valve's bolt holes. Inserts are threaded on both ends, which allows this lug style valve to be installed into a system using two sets of bolts and no nuts for each hole. Valve is installed between two flanges using a separate set of bolts for each side of the flange. This setup permits either side of the piping system to be disconnected without disturbing the other side.



PART#	DUCTILE IRON DISC/ BUNA SEAT/ LEVER	CASE	WEIGHT	
9660L2	2"	200	7.3	---
9660L2.5	2-1/2"	190	8.4	---
9660L3	3"	180	9.8	---
9660L4	4"	150	12.1	---
9660L5	5"	110	16.5	---
9660L6	6"	90	16.9	---
9660L8	8"	50	30.3	---
9660L10	10"	35	44.5	---
9660L12	12"	24	51.6	---

**SS DISC/ EPDM SEAT/
LEVER**

PART#	SIZE	
9660L2SE	2"	---
9660L3SE	3"	---
9660L4SE	4"	---
9660L5SE	5"	---
9660L6SE	6"	---
9660L8SE	8"	---
9660L10SE	10"	---
9660L12SE	12"	---

GEAR - LUG

PART#	DUCTILE IRON DISC/ BUNA SEAT/ GEAR	CASE	WEIGHT	
9660G2	2"	200	7.3	---
9660G2.5	2-1/2"	190	8.4	---
9660G3	3"	180	9.8	---
9660G4	4"	150	12.1	---
9660G6	6"	90	16.9	---
9660G8	8"	50	30.3	---
9660G10	10"	35	44.5	---
9660G12	12"	24	51.6	---

**SS DISC/ EPDM SEAT/
GEAR**

PART#	SIZE	
9660G2SE	2"	---
9660G2.5SE	2-1/2"	---
9660G3SE	3"	---
9660G4SE	4"	---
9660G6SE	6"	---
9660G8SE	8"	---
9660G10SE	10"	---
9660G12SE	12"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BUTTERFLY ACCESSORIES

VALVES

STEM EXTENSIONS



- FOR BOLTS AND NUTS
- BLACK COLOR

PART#	FOR VALVE SIZES ""	LENGTH	
9650EX2324	2-3	24 LONG	---
9650EX2336	2-3	36 LONG	---
9650EX2348	2-3	48 LONG	---
9650EX2360	2-3	60 LONG	---
9650EX2372	2-3	72 LONG	---
9650EX4624	4-6	24 LONG	---
9650EX4636	4-6	36 LONG	---
9650EX4648	4-6	48 LONG	---
9650EX4660	4-6	60 LONG	---
9650EX4672	4-6	72 LONG	---
9650EX1224	8-12	24 LONG	---
9650EX1236	8-12	36 LONG	---
9650EX1248	8-12	48 LONG	---
9650EX1260	8-12	60 LONG	---
9650EX1272	8-12	72 LONG	---

LEVER REPLACEMENT



PART#	REPLACEMENT LEVER HANDLE FOR	
9650L23	2-3 9650BFV	---
9650L46	4-6 9650 BFV	---
9650L812	8-10 9650 B	---
9650L120	12 9650 BFV	---

GEAR WHEEL HANDLE



PART#	REPLACEMENT WHEEL HANDLE FOR	
9650WH23	2-3" 9650 BFV	---
9650WH46	4-6" 9650 BFV	---
9650WH812	8-12" BFV	---

ROLL PIN



PART#	REPLACEMENT ROLL PIN FOR	
9650RP23	2-3 9650 BFV	---
9650RP46	4-6 9650 BFV	---
9650RP12	8-12 9650 BFV	----

INDEX PLATE



PART#	REPLACEMENT INDEX PLATE	
9650IP23	2-3" 9650BFV	---
9650IP46	4-6" 9650BFV	---
9650IP812	8-12" 9650 B	---

GEAR REPLACEMENT



PART#	REPLACEMENT GEAR OPERATOR	
9650G23	2-3 9650 BFV	---
9650G46	4-6 9650 BFV	---
9650G812	8-10 9650BFV	---
9650G120	12 - 9650BFV	---

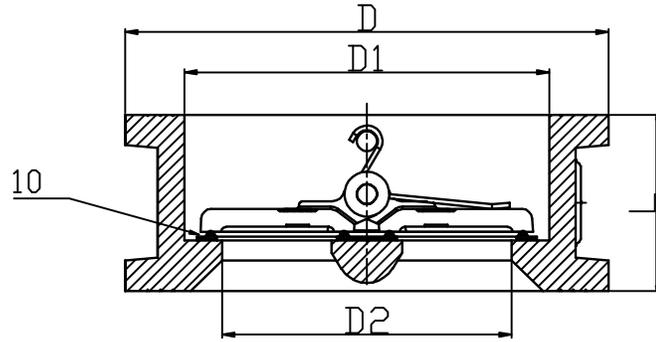
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

VALVES

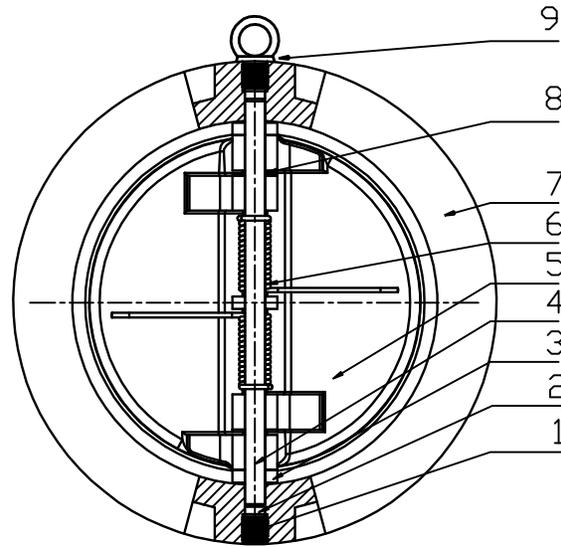
DUCTILE IRON CHECK VALVES

VALVES

DOUBLE DOOR WAFER CHECK VALVE



PART	PART	MATERIAL
1	Countersunk Hex Head Screws	Carbon Steel ASTM A325
2	Stal Ring	EPDM
3	Gasket	PTFE
4	Shaft	Stainless Steel SS420
5	Disc	Aluminum Brance C954
6	Spring	Stainless Steel SS304
7	Body	Ductile Lron ASTM 65-45-12
8	Gasket	PTFE
9	Rings	Carbon steel ASTM A325
10	Seat	EPDM



MAIN DIMENSIONS					
DN		DIMENSIONS (MM)			
inch	mm	L	D	D1	D2
2	50	54	102	64	46
2 1/2'	65	54	121	78	60
3	80	57	134	94	70
4	100	64	162	117	84
5	125	70	192	145	115
6	150	76	218	170	134
8	200	95	273	224	184
10	250	108	335	265	220
12	300	143	407	310	260
14	350	184	442	360	302
16	400	191	511	410	350

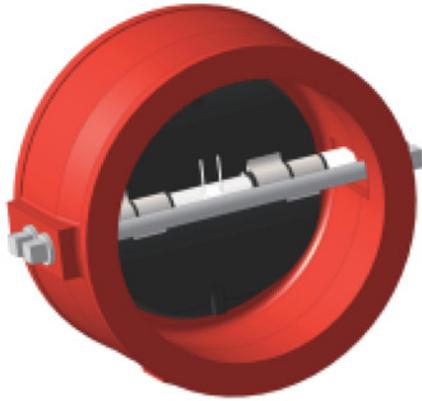
PART#	SIZE	CASE	WEIGHT	
963002	2	50	4	---
963025	2-1/2	40	5	---
963003	3	20	8	---
963004	4	20	13	---
963005	5	20	16	---
963006	6	10	20	---
963008	8	10	38	---
963010	10	10	38	---
963012	12	5	92	---
963014	14	4	121	---
963016	16	4	165	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

UL WAFER CHECK VALVES

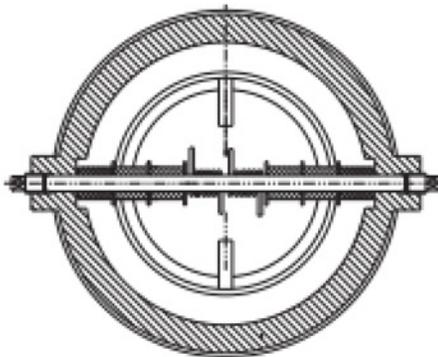
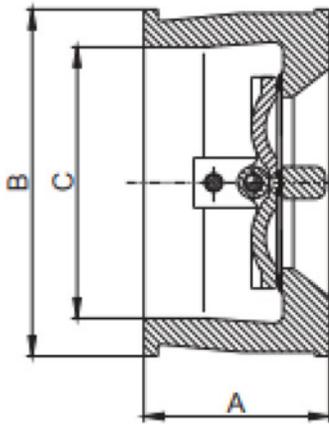
VALVES

DOUBLE DOOR UL/FM WAFER CHECK VALVES



Specifications

- Meet or exceed the requirements of UL312 and API 584 standard.
- Spring loaded for fast closure.
- Vertical or Horizontal installation.
- Resilient-seated for perfect tightness even at low differential pressure.
- Excellent flow characteristics and low pressure losses at high flow rates.
- Connection ends comply with ASME B16.1 Class 125 and ASME B16.5 Class 150 Flanges.
- UL 312/ULC listed.



Working Pressure and Temperature

300 psi @ 0 C° to 87° C

Corrosion Protection

Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard

PART #	963004UL	963006UL
SIZE	4	6
A	93mm/3.66in	105mm/4.13in
B	172mm/6.75in	220mm/8.66in
C	136mm/5.35in	178mm/7.00in

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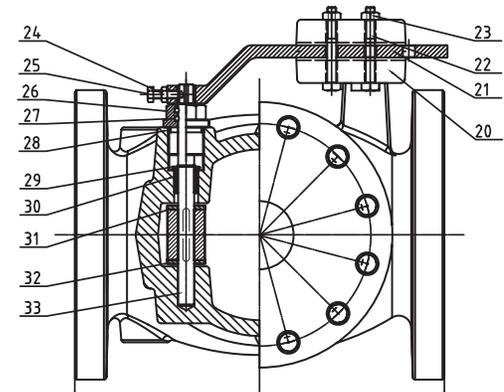
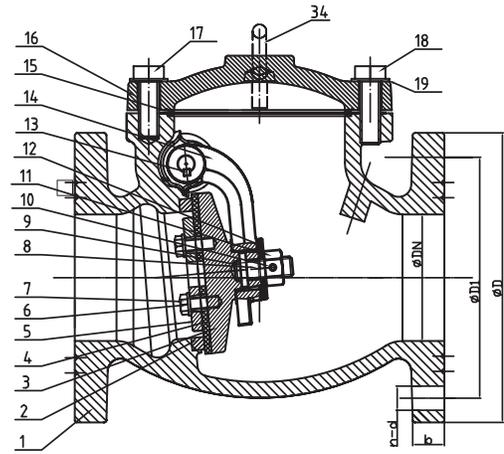


DUCTILE IRON CHECK VALVES

VALVES

CHECK VALVE W/OUTSIDE L/W

AWWA C508 CHECK VALVE W/OUTSIDE L/W



PART	PART	MATERIAL
1	Valve Body	Ductile iron 65-45-12
2	Seat	ASTM B62 C83600
3	Disc	Ductile iron 65-45-12
4	Disc Seat Ring	NBR
5	Retainer Washer	Ductile iron 65-45-12
6	Washer	AISI 304
7	Bolt	AISI 304
8	Stud	ASTM B62 C83600
9	Roll Pin	AISI 304
10	Roll Pin	AISI 304
11	Nut	ASTM B62 C83600
12	Washer	ASTM B62 C83600
13	Flat Key	AISI 304
14	Clapper Arm	Ductile iron 65-45-12
15	O-Ring	NBR
16	Bonnet	Ductile iron 65-45-12
17	Bolt	AISI 316
18	Bolt	AISI 316
19	Washer	AISI 316
20	Weight	Ductite iron,65-45-12
21	Arm	Cast steel WCB
22	Bolt	AISI 316
23	Nut	AISI 316
24	Nut	AISI 316
25	Bolt	AISI 316
26	Seat Nut	ASTM B62 C83600
27	O-Ring	NBR
28	Gasket	PTFE
29	Circlip	Carbon steel
30	Shaft sleeve gland	ASTM B62 CB3600
31	Washer	ASTM B62 CB3600
32	Washer	ASTM B62 CB3600
33	Hinge Pin	AISI 420
34	Eye bolt	Carbon steel

MAIN DIMENSIONS (MM)							
INCH	DN	L	D	D1	B	N-D	H
3"	80	241	200	152.5	19	4-19.1	173
4"	100	292	229	190.5	24	8-19.1	175.5
6"	150	356	285	241.5	25.5	8-22.2	237.5
8"	200	495	343	298.5	28.5	8-22.2	272.5
10"	250	622	406	362	30.5	12-25.4	326
12"	300	698	483	432	32	12-25.4	358



UL/FM FLANGED SWING CHECK VALVE

PART#	SIZE	CASE	WEIGHT	
96203LW	3	16	57	---
96204LW	4	12	84	---
96206LW	6	6	156	---
96208LW	8	4	294	---
962010LW	10	2	466	---
962012LW	12	2	627	---

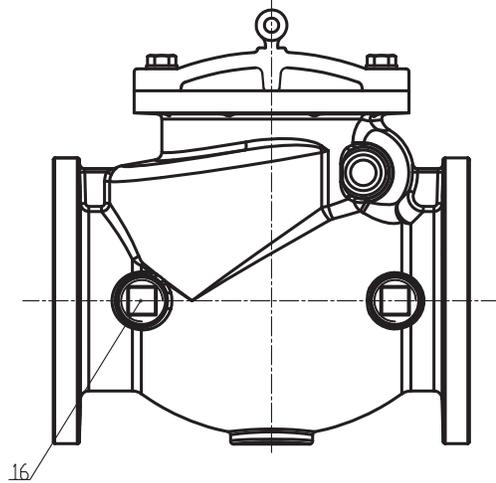
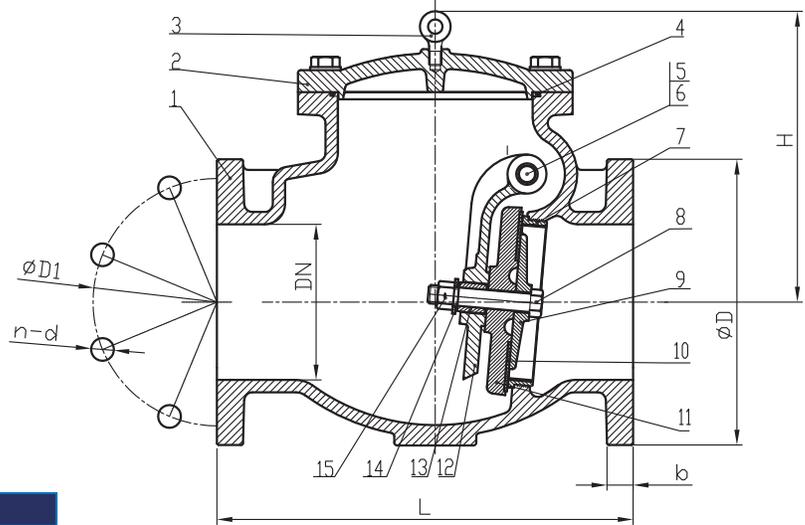
PART#	SIZE	CASE	WEIGHT	
96203UL	3	36	50	---
96204UL	4	36	77	---
96206UL	6	14	140	---
96208UL	8	4	266	---
962010UL	10	1	398	---
962012UL	12	1	533	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DUCTILE IRON CHECK VALVES

VALVES

AWWA C508 & AWWA C515 SWING CHECK VALVE FLANGED



PART	PART	MATERIAL
1	Valve Body	Ductile Iron 65-45-12
2	Bonnet	Ductile Iron 65-45-12
3	Sling Ring	Carbon Steel Zinc Plated
4	O Ring	NBR
5	Hinge Pin	Stainless Steel 304
6	Hinge bushing	Brass ASTM B36
7	Seat Ring	Bronze ASTM B62
8	Disc Seat Bolts	Stainless Steel 304
9	Retainer Washer	Bronze ASTM B62
10	Disc Seat Ring	EPDM
11	Disc	Ductile Iron 65-45-12
12	Ctapper Arm	Ductile Iron 65-45-12
13	Stud Bushing	Bronze ASTM B36
14	O Ring	NBR
15	Nuts	Stainless Steel 304
16	Plug	Tin bronze

DN		PSI	DIMENSIONS (MM)					
INCH	MM		L	D	D1	B	N-D	H
3"	80	300	278	191	152.5	19	4-19.1	160
4"	100	300	330	229	190.5	24	8-19.1	218
6"	150	300	406	279	241.5	25.5	8-22.2	290
8"	200	300	495	343	298.5	28.5	8-22.2	330
10"	250	300	622	406	362	30.5	12-25.4	350
12"	300	300	660	483	432	32	12-25.4	376

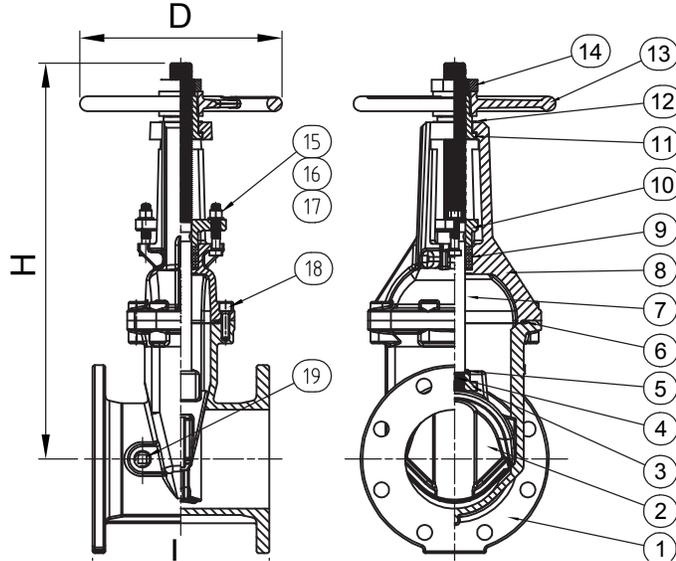
PART#	SIZE	CASE	WEIGHT	
962003	3	16	57	---
962004	4	12	84	---
962006	6	6	156	---
962008	8	4	294	---
962010	10	2	466	---
962012	12	2	627	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DUCTILE IRON GATE VALVES

VALVES

C515 OS&Y RESILIENT SEATED GATE VALVE FLANGE ENDS, 300PSI



PART#	SIZE	CASE	WEIGHT	
9610F25	2-1/2"	25	46.2	---
9610F3	3"	16	62.7	---
9610F4	4"	16	74.8	---
9610F6	6"	9	103.9	---
9610F8	8"	6	190.9	---
9610F10	10"	2	291.8	---
9610F12	12"	2	409.8	---

NO TAP

PART#	SIZE	CASE	WEIGHT	
9610NYCF25	2-1/2"	25	46.2	---
9610NYCF3	3"	32	62.7	---
9610NYCF4	4"	64	74.8	---
9610NYCF6	6"	54	103.9	---
9610NYCF8	8"	36	190.9	---
9610NYCF10	10"	12	291.8	---
9610NYCF12	12"	12	409.8	---

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Stainless Steel	A276 Type 304SS
4	Pin	Stainless Steel	A276 Type 420SS
5	O-Ring	Rubber	D2000 NBR
6	Gasket	Rubber	D2000 NBR
7	Stem	Stainless Steel	A276 Type 304SS
8	Bonnet	Ductile Iron	A536 65-45-12
9	Packing	Graphite	
10	Gland	Ductile Iron	A536 65-45-12
11	Yoke Nut	Bronze	B148 C95200
12	Washer	Brass	
13	Handwheel	Ductile Iron	A536 65-45-12
14	Handwheel Nut	Ductile Iron	A536 65-45-12
15	Bolts	Stainless Steel	A276 Type 304SS
16	Nuts	Stainless Steel	A276 Type 316SS
17	Washers	Stainless Steel	A276 Type 304SS
18	Bonnet Bolts	Carbon Steel Zinc Plated	A307 Grade B
19	Plug	Malleable Iron	

MAIN DIMENSIONS							
SIZE	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8"	9"	10-1/2"	11-1/2"	13"	14"
H (Open)	16-5/8"	18-7/8"	21-5/8"	29-1/8"	36-5/8"	44-1/2"	52"
H (Close)	13-3/4"	15-3/4"	17-3/4"	23-1/4"	28-3/4"	34-3/4"	40-1/6"
D	7-1/4"	10"	10"	12"	14"	17-1/2"	17-1/2"

COMPLIES WITH NEW YORK AND CHICAGO REQUIREMENTS.

Fax 1-800-877-5391

Sales@MidlandIndustries.com

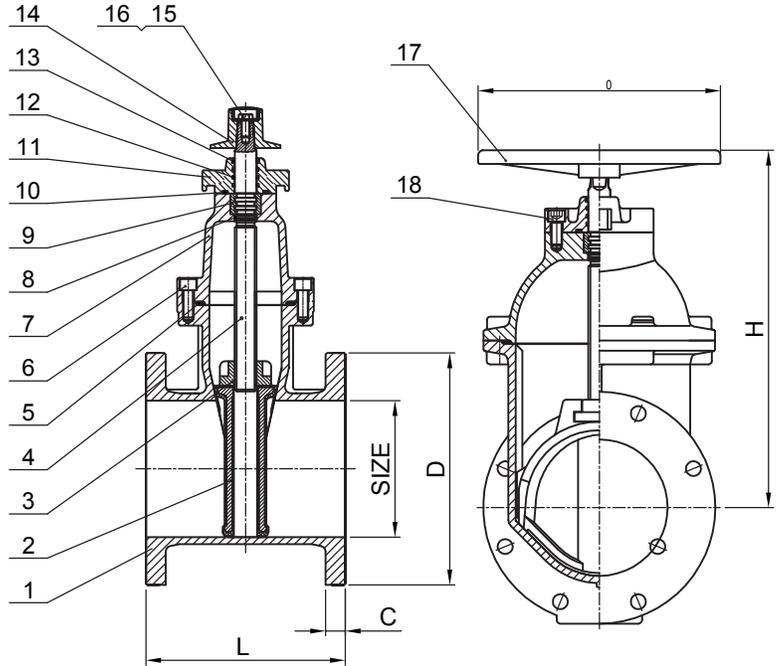
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



DUCTILE IRON GATE VALVES

VALVES

NRS RESILIENT SEATED GATE VALVE FLANGE ENDS, 300PSI



PART#	SIZE	CASE	WEIGHT	
9600FL25	2-1/2"	25	37.6	---
9600FL3	3"	16	54.2	---
9600FL4	4"	16	65.5	---
9600FL6	6"	9	107.5	---
9600FL8	8"	6	181.9	---
9600FL10	10"	2	297.4	---
9600FL12	12"	2	431.4	---

ITEM	DESCRIPT.	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR
14	Operating Nut (Optional)	Ductile Iron	A536 65-45-12
15	Bolts	Stainless Steel	A276 Type 304SS
16	Washers	Stainless Steel	A276 Type 304SS
17	Handwheel (Optional)	Ductile Iron	A536 65-45-12
18	Bolts	Stainless Steel	A276 Type 304SS

MAIN DIMENSIONS							
SIZE	2.5"	3"	4"	6"	8"	10"	12"
L	7-1/2"	8.0"	9.0"	10-1/2"	11-1/2"	13.0"	14.0"
H	10.0"	11.0"	11.8"	16.4"	20.7"	24.5"	28.0"
D	7.0"	10.0"	10.0"	12.0"	14.0"	16.0"	16.0"

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

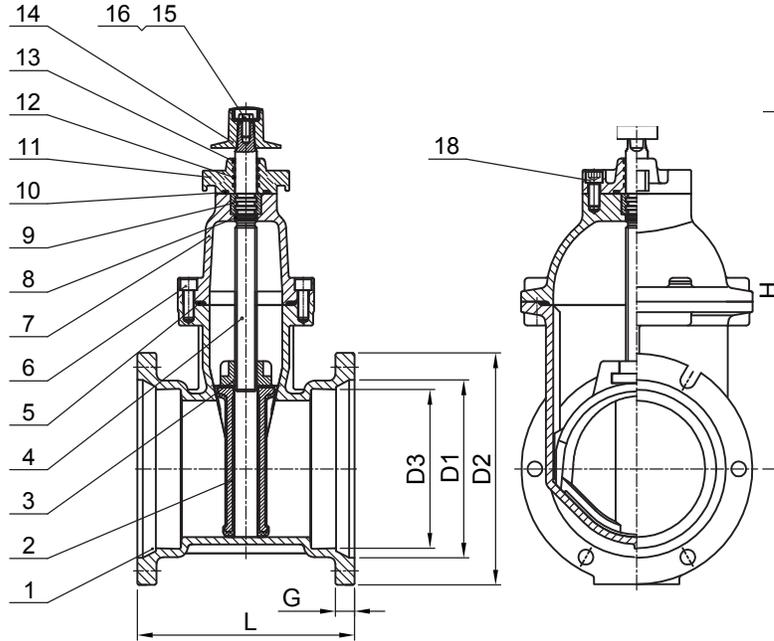
VALVES

DUCTILE IRON GATE VALVES

VALVES

AWWA C515-15 NRS RESILIENT SEATED GATE VALVE

MJ x MJ ENDS, 300PSI



PART#	SIZE	WEIGHT	CASE	
9600MJ3	3"	54.2	16	---
9600MJ4	4"	65.5	16	---
9600MJ6	6"	107.5	9	---
9600MJ8	8"	181.9	6	---
9600MJ10	10"	297.4	2	---
9600MJ12	12"	431.4	2	---

ITEM	DESCRIP.	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR
14	Operating Nut (Optional)	Ductile Iron	A536 65-45-12
15	Bolts	Stainless Steel	A276 Type 304SS
16	Washers	Stainless Steel	A276 Type 304SS
17	Handwheel (Optional)	Ductile Iron	A536 65-45-12
18	Bolts	Stainless Steel	A276 Type 304SS

*Standard config is op nut only

*MJ=Mechanical Joint

MAIN DIMENSIONS						
SIZE	3"	4"	6"	8"	10"	12"
L	11.5"	12.5"	14.8"	15.0"	13.0"	14.0"
H	16.4"	20.7"	24.5"	28.0"	24.5"	28.0"
D	12.0"	14.0"	16.0"	16.0"	16.0"	16.0"

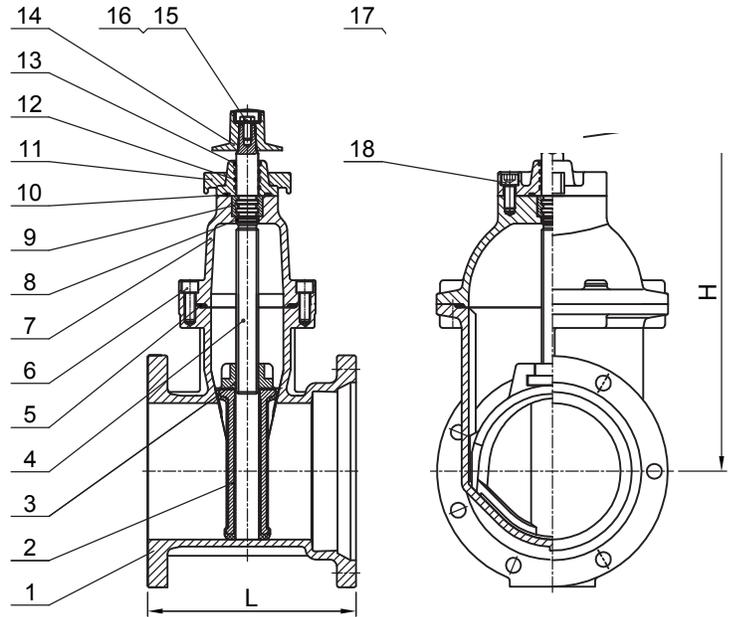
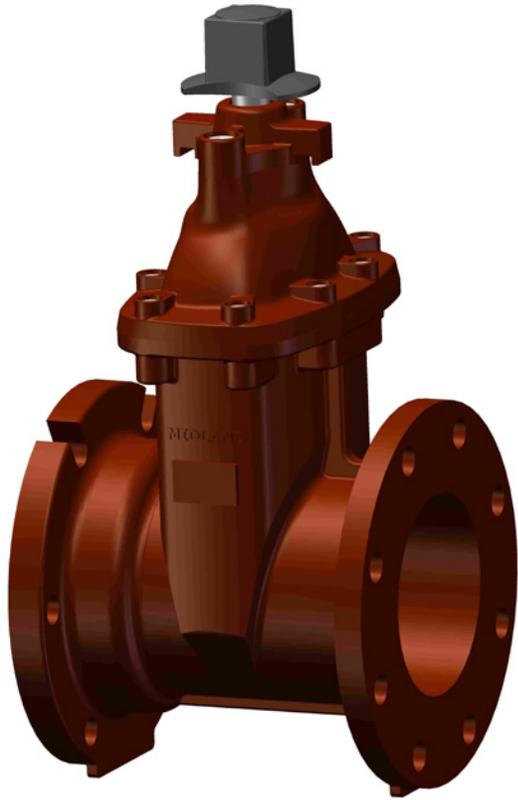
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

DUCTILE IRON GATE VALVES

VALVES

NRS RESILIENT SEATED GATE VALVE

FL x MJ ENDS, 300PSI



PART#	SIZE	WEIGHT	CASE	
9600FJ3	3"	54.3	16	---
9600FJ4	4"	65.5	16	---
9600FJ6	6"	107.5	9	---
9600FJ8	8"	181.9	6	---
9600FJ10	10"	297.4	2	---
9600FJ12	12"	431.4	2	---

*STANDARD CONFIG IS OP NUT ONLY

*MJ=MECHANICAL JOINT

ITEM	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Bronze	B148 C95200
4	Stem	Stainless Steel	A276 Type 304SS
5	Gasket	Rubber	D2000 NBR
6	Bolts	Stainless Steel	A276 Type 304SS
7	Bonnet	Ductile Iron	A536 65-45-12
8	O-Ring	Rubber	D2000 NBR
9	Thrust Collar	Bronze	B148 C95200
10	O-Ring	Rubber	D2000 NBR
11	Gland	Ductile Iron	A536 65-45-12
12	O-Ring	Rubber	D2000 NBR
13	Dust Ring	Rubber	D2000 NBR
14	Operating Nut (Optional)	Ductile Iron	A536 65-45-12
15	Bolts	Stainless Steel	A276 Type 304SS
16	Washers	Stainless Steel	A276 Type 304SS
17	Handwheel (Optional)	Ductile Iron	A536 65-45-12
18	Bolts	Stainless Steel	A276 Type 304SS

MAIN DIMENSIONS								
SIZE	3"	4"	6"	8"	10"	12"	10"	12"
L	8.8"	9.5"	11.0"	12.0"	14.0"	14.5"	13"	14"
H	11.0"	11.8"	16.4"	20.7"	24.5"	28.0"	44-1/2"	52"
D	10.0"	10.0"	12.0"	14.0"	16.0"	16.0"	34-3/4"	40-1/6"

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer or other serious harm.

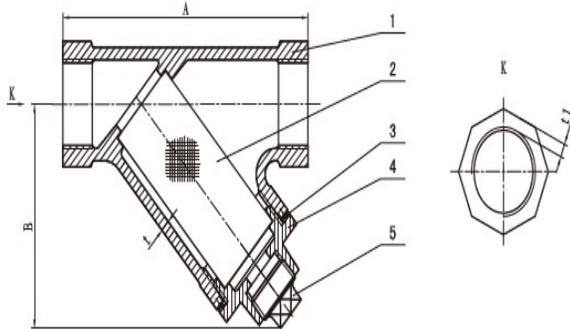
GATE VALVES AND WYE-STRAINERS

VALVES

DI THREADED Y STRAINER



MIDLAND	DESCRIPTION
9642TH03	DI Threaded Y Strainer, 1/2"/DN15
9642TH04	DI Threaded Y Strainer, 3/4"/DN20
9642TH05	DI Threaded Y Strainer, 1"/DN25
9642TH06	DI Threaded Y Strainer, 1 1/4"/DN32
9642TH07	DI Threaded Y Strainer, 1 1/2"/DN40
9642TH08	DI Threaded Y Strainer, 2"/DN50
9642TH09	DI Threaded Y Strainer, 2 1/2"/DN50
9642TH10	DI Threaded Y Strainer, 3"/DN80



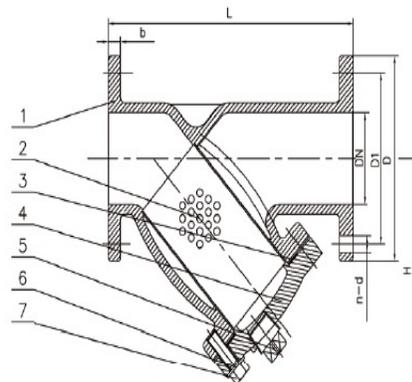
SIZE		DIMENSIONS(MM)				
inch	mm	A	B(max)	Plug	t	t1
1/4"	8	81	55	1/4"	2.4	2.4
3/8"	10	81	57	1/4"	2.5	2.5
1/2"	15	81	70	3/8"	2.54	2.54
3/4"	20	95	72	3/8"	3	3
1"	25	102	78	1/2"	4.06	4.06
1 1/4"	32	127	92	1/2"	4.83	4.83
1 1/2"	40	146	118	1/2"	4.83	4.83
2"	50	177	120	1/2"	5.59	5.59
2 1/2"	65	234	136	3/4"	5.59	5.59

DI FLANGED WYE STRAINER

MIDLAND	DESCRIPTION
9642FL4	DI FLGD Y Strainer, Graphite Gasket, 4"/DN100
9642FL6	DI FLGD Y Strainer, Graphite Gasket, 6"/DN150
9642FL8	DI FLGD Y Strainer, Graphite Gasket, 8"/DN200
9642FL10	DI FLGD Y Strainer, Graphite Gasket, 10"/DN250
9642FL12	DI FLGD Y Strainer, Graphite Gasket, 12"/DN300
9642FL2	DI FLGD Y Strainer, Graphite Gasket, 2"/DN50
9642FL25	DI FLGD Y Strainer, Graphite Gasket, 2 1/2"/DN65
9642FL3	DI FLGD Y Strainer, Graphite Gasket, 3"/DN80



SIZE		DIMENSIONS(MM)					
inch	mm	L	D	D1	b	n- d	H
2	50	200	152	120.5	16	4- 19.1	155
2.5	65	254	178	139.5	17.5	4- 19.1	165
3	80	257	191	152.5	19	4- 19.1	180
4	100	308	229	190.5	24	8- 19.1	229
5	125	397	254	216	24	8- 22.2	285
6	150	470	279	241.5	25.5	8- 22.2	311
8	200	549	343	298.5	28.5	8- 22.2	394
10	250	654	406	362	30.5	12- 25.4	487
12	300	759	483	432	32	12- 25.4	547



GATE VALVES

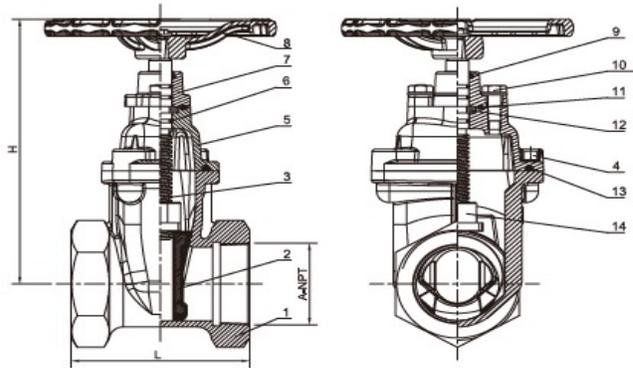
VALVES

IPS X IPS GATE VALVE



MIDLAND	DESCRIPTION
9640TH2	2 DI, IPS X IPS Gate Valve, NRS with EPDM Wedge
9640TH25	2 1/2 DI, IPS X IPS Gate Valve, NRS with EPDM Wedge
9640TH3	3 DI, IPS X IPS Gate Valve, NRS with EPDM Wedge
9640TH4	4 DI, IPS X IPS Gate Valve, NRS with EPDM Wedge
9640TH6	6 DI, IPS X IPS Gate Valve, NRS with EPDM Wedge

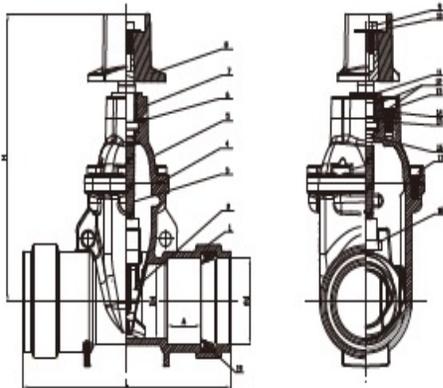
SIZE		DIMENSIONS(MM)	
inch	mm	L	H
2"	50	127	210
2.5"	65	140	232
3"	80	150	281
4"	100	190	316
5"	125	210	367



RT X RT GATE VALVE (PUSH-ON)



MIDLAND	DESCRIPTION
9640RT2	2 DI, RT X RT Gate Valve, NRS W/ OP Nut
9640RT25	2 1/2 DI, RT X RT Gate Valve, NRS W/ OP Nut
9640RT3	3 DI, RT X RT Gate Valve, NRS W/ OP Nut
9640RT4	4 DI, RT X RT Gate Valve, NRS W/ OP Nut
9640RT6	6 DI, RT X RT Gate Valve, NRS W/ OP Nut
9640RT8	8 DI, RT X RT Gate Valve, NRS W/ OP Nut

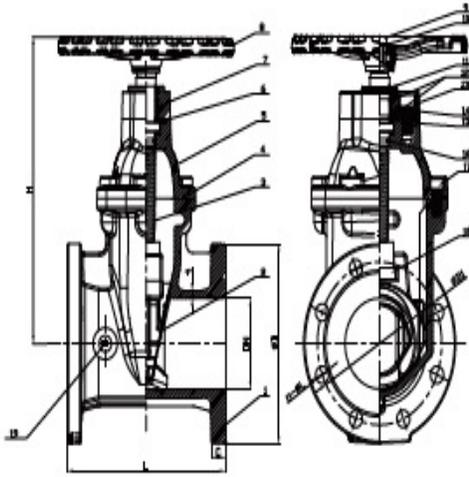


SIZE		PIPE O.D.	DIMENSIONS(MM)			
inch	mm	Average O.D. In.(mm)	L	H	A	d
2"	50	2.375(50.32)	260	278	50	62
2.5"	65	2.575(73.02)	273	300	53	75
3"	80	3.500(88.90)	305	321	57	90.5
4"	100	4.500(114.30)	350	375	57	117.5
6"	150	5.525(168.26)	428	455	95	172.5
8"	200	5.625(219.06)	470	565	110	222

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

GATE VALVES

VALVES

FL X FL GATE VALVE

MIDLAND	DESCRIPTION
9640FL2	2 DI, FL X FL Gate Valve, NRS W/ OP Nut and H/W
9640FL25	2 1/2 DI, FL X FL Gate Valve, NRS W/ OP Nut and H/W
9640FL3	3 DI, FL X FL Gate Valve, NRS W/ OP Nut and H/W
9640FL4	4 DI, FL X FL Gate Valve, NRS W/ OP Nut and H/W
9640FL6	6 DI, FL X FL Gate Valve, NRS W/ OP Nut and H/W
9640FL8	8 DI, FL X FL Gate Valve, NRS W/ OP Nut and H/W

SIZE		DIMENSIONS(MM)					
inch	mm	L	H	D	D1	C	n-φL
2	50	176	254	152	120.7	15	4-φ19.1
2.5	65	190	275	178	139.7	17.5	4-φ19.1
3	80	203	301	191	152.4	19.1	4-φ19.1
4	100	229	355	229	190.5	19.1	8-φ19.1
5	125	254	393	254	215.9	19.1	8-φ22.2
6	150	267	448	279	241.3	19.1	8-φ22.2
8	200	292	548	343	290.5	22.2	8-φ22.2
10	250	330	626	405	362	23.5	12-φ25.4
12	300	356	722	463	431.5	25.4	12-φ25.4

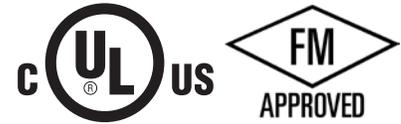
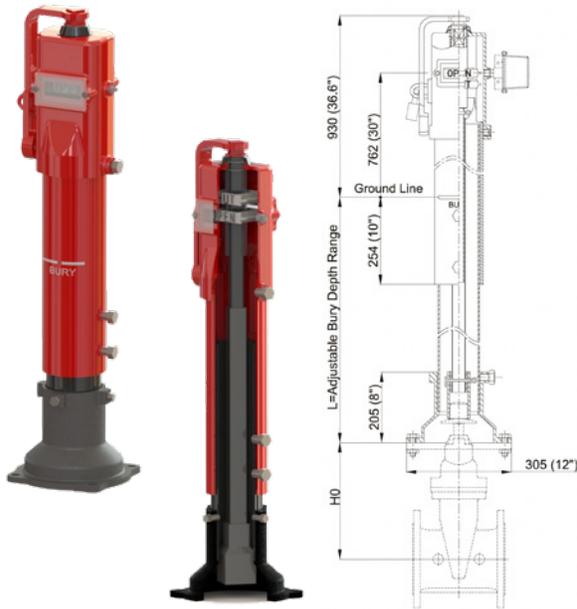


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VERTICAL POST INDICATORS

VALVES

VERTICAL POST INDICATORS



Material Specifications

PART	MATERIAL	ASTM SPECIFICATION
Post Head	Gray Cast Iron	A126 Class B
Operating Wrench	Ductile Iron	A536 Grade 65-45-12
Retaining Ring	Stainless Steel	A276 Type 304
Weather Cap	Polyethylene	Commercial
Threaded Sleeve	Stainless Steel	A276 Type 304
Pipe Plug	Malleable Iron	A47 Grade 22010
Target Plate	Aluminum Alloy	ASTM B26
Screw	Carbon Steel	A105
Target Plate	Aluminum Alloy	ASTM B26
Windows	Plexiglass	Commercial
Gasket	Rubber	D2000 NBR
Upper Barrel	Carbon Steel	A53 Type S Grade B
Lower Barrel	Carbon Steel	A53 Type S Grade B
Upper Rod	Carbon Steel	A53 Type S Grade B
Lower Rod	Carbon Steel	A53 Type S Grade B
Base Flange	Cast Iron	A126 Class B
Locking Bolts	Carbon Steel	A307 Grade B
Locking Nuts	Carbon Steel	A 105
Cotter Pin	Stainless Steel	A276 Type 304

Specifications

Meet or Exceed the Requirements of NFPA 24 Standard.
 Indicates the State of the Valve OPEN or SHUT Position.
 Target Nut to allow 13 to 45 Turns.
 "L" Shaped Wrench Handle fitting with a Secure Padlock (provided by user).
 Protected Windows.
 Telescoping Operating Rod.
 Easily Adjustable Indicator OPEN and SHUT Targets.
 UL/ULC 789 Listed and FM1110 Approved.
 GOST Certification.

Corrosion Protection

Spray Painted Interior and Exterior to AWWA C550 Standard.
 Stand Barrel: Black Bitumen Coated.

Options

Fusion Bonded Coating Interior and Exterior.
 Tapped Supervisory Tamper Switch.
 Stainless Steel Fasteners: A2-70 or A4-70.

Dimension Data for Vertical Indicator Post (mm/inch)

SIZE	4	6	8	10	12	14
TURNS TO OPEN	13	20	26	33	39	45
H0	252/ 9.92	355/ 13.97	444/ 17.48	535/ 21.06	617/ 24.29	727/ 28.62

L = Adjustable Bury Depth Range

L	A	B
MIN	459/18.25	915/36
MAX	1003/39.5	1537/60.5

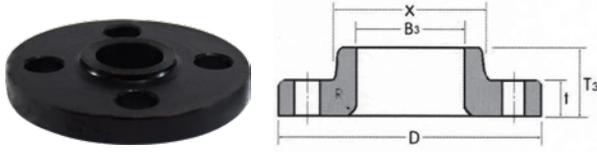
PART #	SIZE	LIST
9600IPA412	Fits 4"-12"	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

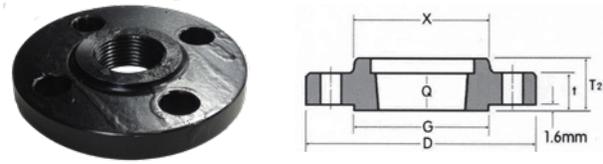
VALVES

FORGED STEEL FLANGES

VALVES

ASTMA105
ASME SA105
ANSI B16.5**CARBON STEEL FLANGES**• A105 Forged Steel • CLASS 150
(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)**SLIP-ON 1/16" RAISED FACE CARBON STEEL FLANGE**

PART #	SIZE	LIST PRICE
	1/2"	---
	3/4"	---
	1"	---
	1-1/4"	---
107024	1-1/2"	---
107025	2"	---
107026	2-1/2"	---
107027	3"	---
107029	4"	---
107031	6"	---
107032	8"	---
	10"	---
	12"	---

**THREADED 1/16" RAISED FACE CARBON STEEL FLANGE**

PART #	SIZE	LIST PRICE
107060	1/2"	---
107061	3/4"	---
107062	1"	---
107063	1-1/4"	---
107064	1-1/2"	---
107065	2"	---
107066	2-1/2"	---
107067	3"	---
107069	4"	---
107071	6"	---
107072	8"	---
107073	10"	---
	12"	---

NOMINAL PIPE SIZE	DEPTH OF SOCKET IN. Y	DRILLING			BOLTING				APPROXIMATE WEIGHT		
		BOLT CIRCLE DIAMETER	NUMBER OF HOLES	DIAMETER OF HOLES	DIAMETER OF BOLTS (INCH)	MACHINE BOLT LENGTH	STUD BOLT LENGTH		WELDING NECK	SLIP-ON AND THREADED	BLIND
							RAISED FACE	RAISED FACE			
1/2	.382	2.382	4	.618	1/2	2.00	2.252	-	1.146	1.036	1.036
3/4	.441	2.752	4	.618	1/2	2.00	2.50	-	2.028	1.653	1.389
1	.500	3.118	4	.618	1/2	2.252	2.50	3.00	2.425	1.893	2.094
1-1/4	.559	3.50	4	.618	1/2	2.252	2.752	3.252	3.086	3.086	3.086
1-1/2	.618	3.882	4	.618	1/2	2.50	2.752	3.252	3.99	3.109	3.571
2	.689	4.752	4	.752	5/8	2.752	3.252	3.752	6.173	4.982	5.82
2-1/2	.752	5.5	4	.752	5/8	3.00	3.50	4.00	9.436	7.562	8.951
3	.811	6.0	4	.752	5/8	3.00	3.50	4.00	11.42	8.818	11.023
4	.941	7.50	8	.752	5/8	3.00	3.50	4.00	16.138	12.677	16.535
6	1.059	9.50	8	.882	3/4	3.252	4.00	4.50	24.824	17.196	26.455
8	1.252	11.752	8	.882	3/4	3.50	4.252	4.752	39.683	28.66	44.092
10	1.311	14.252	12	1.00	7/8	4.00	4.50	5.00	55.116	37.699	66.139
12	1.559	17	12	1.00	7/8	4.00	4.752	5.252	85.936	61.024	97.003

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FORGED STEEL FLANGES

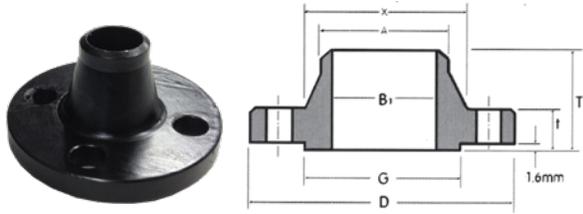
VALVES

ASTMA105
ASME SA105
ANSI B16.5

• A105 Forged Steel

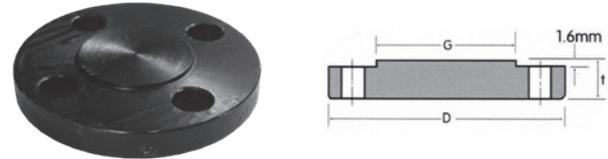
• CLASS 150

(1-1/2 thru 6" available in #316 Stainless Steel add SS to part#)



WELD NECK CARBON STEEL FLANGE

PART #	SIZE	LIST PRICE
	1/2"	---
	3/4"	---
	1"	---
	1-1/4"	---
107004	1-1/2"	---
107005	2"	---
	2-1/2"	---
107007	3"	---
107009	4"	---
107011	6"	---



**BLIND 1/16" RAISED FACE
CARBON STEEL FLANGE**

PART #	SIZE	LIST PRICE
	1/2"	---
	3/4"	---
107042	1"	---
	1-1/4"	---
107044	1-1/2"	---
107045	2"	---
	2-1/2"	---
107047	3"	---
107049	4"	---
	6"	---

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	O.D OF RAISED FACE	DIAMETER AT BASE OF HUB	THICKNESS	BORE		LENGTH THRU HUB	
					WELDING NECK SOCKET WELDING	WELDING NECK	WELDING NECK	SLIP-ON THREADED SOCKET WELDING
					B1	T1	T2	
D	G	X	T	B1	T1	T2		
1/2	3.504	1.382	1.189	.441	.618	1.882	.618	
3/4	3.898	1.689	1.50	.50	.819	2.059	.618	
1	4.252	2.00	1.941	.559	1.051	2.189	.689	
1-1/4	4.606	2.50	2.311	.618	1.382	2.252	.811	
1-1/2	5.00	2.882	2.559	.689	1.610	2.441	.882	
2	5.984	3.618	3.059	.752	2.071	2.50	1.00	
2-1/2	7.008	4.118	3.559	.882	2.469	2.752	1.118	
3	7.52	5.00	4.252	.941	3.071	2.752	1.189	
4	9.016	6.189	5.311	.941	4.031	3.00	1.311	
6	10.984	8.50	7.559	1.00	6.071	3.50	1.559	
8	13.504	10.618	9.689	1.118	7.980	4.00	1.752	
10	15.984	12.752	12.00	1.189	10.02	4.00	1.941	
12	19.016	15.00	14.382	1.252	12.00	4.50	2.189	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BLACK AND GALV. DUCTILE IRON REDUCING COMPANION FLANGES

VALVES

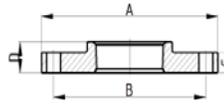
THREADED COMPANION FLANGE CLASS 125 PATTERN (BLACK & GALVANIZED)

* Dimensions, faced and drilled in accordance with asme b16.42/Awwa c110

* Coating: available in black electrophoretic coating and hot dip galvanized* hot-dipped galvanized conform to astm a153; companion flange threads conform to asme b1.201

* Application: waterworks, pump, irrigation

* 150psi

**BLACK**

PART #	DESCRIPTION (DI FLANGE)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108075	3" x 2"	7.50	6.00	0.75	1.19	φ0.75	4	4.3827	---
108076	3" x 2-1/2"	7.50	6.00	0.75	1.19	φ0.75	4	4.2013	---
108077	4" x 1-1/2"	9.00	7.50	0.94	1.31	φ0.75	8	6.8352	---
108088	4" x 2"	9.00	7.50	0.94	1.31	φ0.75	8	6.4168	---
108089	4" x 2-1/2"	9.00	7.50	0.94	1.31	φ0.75	8	6.3343	---
108090	4" x 3"	9.00	7.50	0.94	1.31	φ0.75	8	6.081	---
108091	5" x 4"	10.00	8.50	0.94	1.44	φ0.875	8	6.8761	---
108094	6" x 2"	11.00	9.50	1.00	1.56	φ0.875	8	10.6349	---
108095	6" x 3"	11.00	9.50	1.00	1.56	φ0.875	8	10.1831	---
108092	6" x 4"	11.00	9.50	1.00	1.56	φ0.875	8	9.4563	---
108096	8" x 4"	13.50	11.75	1.12	1.75	φ0.875	8	17.1296	---
108097	8" x 6"	13.50	11.75	1.12	1.75	φ0.875	8	15.2184	---
108098	8" x 2"	16.00	14.25	1.19	1.94	φ1	12	26.54	---
108099	8" x 3"	---	---	---	---	---	---	---	---
108100	10" x 2"	---	---	---	---	---	---	---	---
108101	12" x 2"	---	---	---	---	---	---	---	---

GALVANIZED

108031	2-1/2" x 2"	6.00	4.75	0.75	1.19	φ0.75	4	3.623	---
108032	3" x 2"	7.50	6.00	0.75	1.19	φ0.75	4	4.3827	---
108033	3" x 2-1/2"	7.50	6.00	0.75	1.19	φ0.75	4	4.2013	---
108034	4" x 2"	9.00	7.50	0.94	1.31	φ0.75	8	6.4168	---
108035	4" x 2-1/2"	9.00	7.50	0.94	1.31	φ0.75	8	6.3343	---
108036	4" x 3"	9.00	7.50	0.94	1.31	φ0.75	8	6.081	---
108038	6" x 2"	11.00	9.50	1.00	1.56	φ0.875	8	10.6349	---
108039	6" x 2-1/2"	11.00	9.50	1.00	1.56	φ0.875	8	10.5386	---
108037	6" x 4"	11.00	9.50	1.00	1.56	φ0.875	8	9.4563	---
108040	8" x 4"	13.50	11.75	1.12	1.75	φ0.875	8	17.1296	---
108041	8" x 6"	13.50	11.75	1.12	1.75	φ0.875	8	15.2184	---

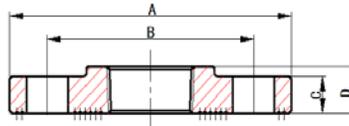
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



BLACK AND GALVANIZED COMPANION FLANGES

VALVES

DUCTILE IRON THREADED COMPANION FLANGES



*Dimensions, faced and drilled in accordance with asme b16.42/Awwa c110

*Coating: available in black electrophoretic coating and hot dip galvanized

*Hot-dipped galvanized conform to astm a153; companion flange threads conform to asme b1.201

*Application: water-works, pump, irrigation

BLACK

PART # (BLACK)	DESCRIPTION (THREADED)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108062	1 150	1"	4.25	3.12	0.44	0.75	φ0.625	4	0.8347	---
108063	1 1/4 150	1-1/4"	4.62	3.5	0.5	0.81	φ0.625	4	1.0797	---
108064	1 1/2 150	1-1/2"	5	3.88	0.56	0.88	φ0.625	4	1.3217	---
108065	2 150	2"	6	4.75	0.62	1	φ0.75	4	2.1457	---
108066	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	φ0.75	4	3.4182	---
108067	3 150	3"	7.5	6	0.75	1.19	φ0.75	4	3.9051	---
108069	4 150	4"	9	7.5	0.94	1.31	φ0.75	8	5.5254	---
108071	6 150	6"	11	9.5	1	1.56	φ0.875	8	7.5328	---
108072	8 150	8"	13.5	11.75	1.12	1.75	φ0.875	8	13.0201	---
108073	10 150	10"	16	14.25	1.19	1.94	φ1	12	22.854	---
108074	12 150	12"	19	17	1.25	2.19	φ1	12	26.5451	---

GALVANIZED

108025	2 150	2"	6	4.75	0.62	1	φ0.75	4	2.1457	---
108026	2 1/2 150	2-1/2"	7	5.5	0.69	1.12	φ0.75	4	3.4182	---
108027	3 150	3"	7.5	6	0.75	1.19	φ0.75	4	3.9051	---
108028	4 150	4"	9	7.5	0.94	1.31	φ0.75	8	5.5254	---
108029	6 150	6"	11	9.5	1	1.56	φ0.875	8	7.5328	---

BLIND FLANGES



PART # (BLACK)	DESCRIPTION (THREADED)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)	
108065BF		2"	6	4.75	0.62	φ0.75	4	2.3731	
108067BF		3"	7.5	6	0.94	φ0.75	4	4.8547	
108069BF		4"	9	7.5	0.94	φ0.75	8	6.5341	
108071BF		5"	10	8.5	0.94	φ0.875	8	7.9894	
108070BF		6"	11	9.5	1	φ0.875	8	10.811	
108072BF		8"	13.5	11.75	1.12	φ0.875	8	18.6264	
108073BF		10"	16	14.25	1.19	φ1	12	26.2487	

GASKET SETS

VALVES

**#150 BOLT & GASKET SET W/ PLATED STEEL BOLTS/NUTS
& FULL FACE RED RUBBER GASKETS**

PART #	SIZE	LIST
987245	2" Bolt & Gasket Set	
987246	2-1/2" Bolt & Gasket Set	
987247	3" Bolt & Gasket Set	
987248	4" Bolt & Gasket Set	
987249	5" Bolt & Gasket Set	
987250	6" Bolt & Gasket Set	
987251	8" Bolt & Gasket Set	
987252	10" Bolt & Gasket Set	
987253	12" Bolt & Gasket Set	

#150 BOLT & GASKET SET W/ PLATED STEEL BOLTS/NUTS & NON-ASBESTOS GASKETS

PART #	SIZE	LIST
987254	2" Bolt & Gasket Set	
987255	2-1/2" Bolt & Gasket Set	
987256	3" Bolt & Gasket Set	
987257	4" Bolt & Gasket Set	
987258	5" Bolt & Gasket Set	
987259	6" Bolt & Gasket Set	
987260	8" Bolt & Gasket Set	
987261	10" Bolt & Gasket Set	
987262	12" Bolt & Gasket Set	

#150 BOLT & GASKET SET W/ 304SS BOLTS/NUTS & FULL FACE RED RUBBER GASKETS

PART #	SIZE	LIST
988245	2" Bolt & Gasket Set	
988246	2-1/2" Bolt & Gasket Set	
988247	3" Bolt & Gasket Set	
988248	4" Bolt & Gasket Set	
988249	5" Bolt & Gasket Set	
988250	6" Bolt & Gasket Set	
988251	8" Bolt & Gasket Set	
988252	10" Bolt & Gasket Set	
988253	12" Bolt & Gasket Set	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



GASKET SETS

VALVES

#150 BOLT & GASKET SET W/ 304SS BOLTS/NUTS & NON-ASBESTOS GASKETS



PART #	SIZE	LIST
988254	2" Bolt & Gasket Set	
988255	2-1/2" Bolt & Gasket Set	
988256	3" Bolt & Gasket Set	
988257	4" Bolt & Gasket Set	
988258	5" Bolt & Gasket Set	
988259	6" Bolt & Gasket Set	
988260	8" Bolt & Gasket Set	
988261	10" Bolt & Gasket Set	
988262	12" Bolt & Gasket Set	

FULL FACE RED RUBBER GASKET



PART #	SIZE	LIST
988400	2" Gasket	
988401	2-1/2" Gasket	
988402	3" Gasket	
988403	4" Gasket	
988404	5" Gasket	
988405	6" Gasket	
988406	8" Gasket	
988407	10" Gasket	
988408	12" Gasket	

NON-ASBESTOS RING GASKET



PART #	SIZE	LIST
987400	2" Gasket	
987401	2-1/2" Gasket	
987402	3" Gasket	
987403	4" Gasket	
987404	5" Gasket	
987405	6" Gasket	
987406	8" Gasket	
987407	10" Gasket	
987408	12" Gasket	

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



NIPPLES

FITTINGS AND NIPPLES

NIPPLES & FITTINGS



BRASS & BRONZE

Brass Nipples - Sch 40
C/P Brass Nipples
Bronze Fittings
Lead Free Bronze Fittings
C/P Fittings
Bronze Drop Ear Elbows
Bronze Barbs for PL. Pipe
Steel Barbs for PL. Pipe
Lead Free Bronze Barbs for PL. Pipe
Stainless Steel Barbs for PL. Pipe
Stainless Steel Well Couplings
Stainless Steel Merchant Couplings

STAINLESS STEEL

Stainless Nipples
150# Cast SS Fittings

BLACK & GALVANIZED

Sch. 40 Welded Steel Nipples
Single Run
Nipple Assortments
Sch. 80 Seamless Steel nipple
Sch. XXS Seamless Steel Nipple
Groove Nipples
Merchant Couplings
API Line Couplings
Malleable Fittings
Steel Fittings
300# Malleable
Bull Plugs and Swages
Forged Steel Fanges
Companion Flanges
Blind Flanges

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
For more information, visit www.P65Warnings.ca.gov



BRASS NIPPLES



We hereby certify that to the best of our knowledge and belief the CDA 230 alloy seamless Red Brass Pipe from which our nipples are produced meet the requirements of ASTM Specifications B43 and is free of mercury contamination. The chemical analysis is 85% copper, 15% Zinc and conforms to federal Specifications WWN-351. Our brass nipples meet ANSI/ASTM B687-96 and MS51846 for standard brass nipples, and MS51872 for extra heavy brass nipples.

Threads: Nipples are threaded with American Standard taper pipe threads (NPT) in accordance with screw-thread standard for Federal Services Handbook H-58. ANSI B1.20.1

This product is certified by NSF to NSF/ANSI 61 for use in drinking water supplies of pH 6.5 and above.

- ASTM B43
- ANSI B1.20.1, WW-N-351
- ANSI/ ASTM B687-96
- NSF-61 Approved
- MS51846 STD Brass Nipples
- RoHS compliant

SEE OUR WEBSITE FOR EXTRA HEAVY BRASS NIPPLES AND EXTRA HEAVY BRONZE FITTINGS

STANDARD RED BRASS 85% PIPE WITH THREADED ENDS SPECIFICATIONS:				ALLOWABLE PRESSURE POUNDS PER SQUARE INCH				
PIPE SIZE IN INCHES	DIMENSION IN INCHES			STANDARD SIZE (INCHES)	@ 100° F	@ 200° F	@ 300° F	@ 400° F
	O.D.	I.D.	WALL THICKNESS					
1/8"	.405	.281	.062	1/8"	370	370	320	140
1/4"	.540	.376	.082	1/4"	870	870	760	330
3/8"	.675	.495	.090	3/8"	890	890	780	340
1/2"	.840	.626	.107	1/2"	900	900	790	340
3/4"	1.050	.822	.114	3/4"	810	810	710	310
1"	1.315	1.063	.126	1"	630	630	560	240
1-1/4"	1.660	1.368	.146	1-1/4"	690	690	610	260
1-1/2"	1.900	1.600	.150	1-1/2"	630	630	560	240
2"	2.375	2.063	.156	2"	540	540	480	210
2-1/2"	2.875	2.501	.187	2-1/2"	450	450	390	170
3"	3.500	3.062	.219	3"	510	510	450	190
3-1/2"	4.000	3.500	.250	3-1/2"	570	570	500	220
4"	4.500	4.000	.250	4"	510	510	440	190
4-1/2"	5.000	4.500	.250	5"	410	410	360	160
5"	5.563	5.063	.250	6"	340	340	300	130
6"	6.625	6.125	.250					

No-Lead 125LB seamless Threaded Red Brass Nipples - 2200



WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRASS SCH 40 SEAMLESS

FITTINGS AND NIPPLES

113RB



1/8" - 27



1/8" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40001	Close (3/4")	25/400	0.02	---
40002	x 1-1/2"	25/400	0.03	---
40003	x 2"	25/400	0.04	---
40004	x 2-1/2"	25/400	0.05	---
40005	x 3"	25/400	0.06	---
40006	x 3-1/2"	25/400	0.07	---
40007	x 4"	25/400	0.08	---
40008	x 4-1/2"	25/400	0.10	---
40009	x 5"	25/400	0.11	---
40010	x 5-1/2"	25/400	0.12	---
40011	x 6"	25/400	0.13	---
40012	x 7"	25/400	0.15	---
40013	x 8"	25/400	0.17	---
40014	x 9"	25/400	0.19	---
40015	x 10"	25/400	0.21	---
40017	x 12"	25/400	0.25	---



1/4"-18

1/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40020	Close (7/8")	25/400	0.03	---
40021	x 1-1/2"	25/400	0.05	---
40022	x 2"	25/400	0.07	---
40023	x 2-1/2"	25/400	0.09	---
40024	x 3"	25/400	0.11	---
40025	x 3-1/2"	25/400	0.13	---
40026	x 4"	25/400	0.14	---
40027	x 4-1/2"	25/400	0.16	---
40028	x 5"	25/400	0.18	---
40029	x 5-1/2"	25/400	0.20	---
40030	x 6"	25/400	0.22	---
40031	x 7"	25/200	0.25	---
40032	x 8"	25/200	0.29	---
40034	x 10"	25/200	0.36	---
40035	x 11"	25/200	0.40	---
40036	x 12"	25/200	0.43	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BRASS SCH 40 SEAMLESS

FITTINGS AND NIPPLES



**LEAD
FREE**

3/8"-18

3/8" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40040	Close (1")	25/400	0.05	---
40041	x 1-1/2"	25/400	0.08	---
40042	x 2"	25/400	0.10	---
40043	x 2-1/2"	25/400	0.13	---
40044	x 3"	25/400	0.16	---
40045	x 3-1/2"	25/400	0.18	---
40046	x 4"	25/400	0.21	---
40047	x 4-1/2"	25/300	0.23	---
40048	x 5"	25/300	0.26	---
40049	x 5-1/2"	25/300	0.29	---
40050	x 6"	25/300	0.31	---
40051	x 7"	25/200	0.36	---
40052	x 8"	25/150	0.42	---
40054	x 10"	25/100	0.52	---
40056	x 12"	25/100	0.62	---

113RB



**LEAD
FREE**

1/2" - 14

1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40060	Close (1-1/8")	25/400	0.09	---
40061	x 1-1/2"	25/400	0.12	---
40062	x 2"	25/400	0.16	---
40063	x 2-1/2"	25/300	0.20	---
40064	x 3"	25/300	0.23	---
40065	x 3-1/2"	25/300	0.27	---
40066	x 4"	25/200	0.31	---
40067	x 4-1/2"	25/200	0.35	---
40068	x 5"	25/200	0.39	---
40069	x 5-1/2"	25/200	0.43	---
40070	x 6"	25/200	0.47	---
40071	x 7"	25/100	0.55	---
40072	x 8"	25/100	0.62	---
40073	x 9"	25/100	0.70	---
40074	x 10"	25/75	0.78	---
40075	x 11"	25/75	0.86	---
40076	x 12"	25/75	0.94	---
40079	x 24"			
40245	x 36"			

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BRASS SCH 40 SEAMLESS

FITTINGS AND NIPPLES

FITTINGS & NIPPLES



**LEAD
FREE**

3/4" - 14

3/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40080	Close (1- 3/8")	25/400	0.15	---
40081	x 1-1/2"	25/400	0.16	---
40082	x 2"	25/300	0.21	---
40083	x 2-1/2"	25/300	0.27	---
40084	x 3"	25/200	0.32	---
40085	x 3-1/2"	25/200	0.37	---
40086	x 4"	25/150	0.43	---
40087	x 4-1/2"	25/150	0.48	---
40088	x 5"	25/100	0.53	---
40089	x 5-1/2"	25/100	0.59	---
40090	x 6"	25/100	0.64	---
40091	x 7"	25/75	0.75	---
40092	x 8"	25/75	0.85	---
40093	x 9"	25/75	0.96	---
40094	x 10"	25/50	1.06	---
40095	x 11"	25/50	1.17	---
40096	x 12"	25/50	1.28	---
40097	x 18"	1/1	1.92	---
40098	x 24"	1/1	2.56	---
40099	x 36"	1/1	3.84	---

113RB



**LEAD
FREE**

1" - 11 1/2

1" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40100	Close (1-1/2")	25/200	0.23	---
40101	x 2"	25/200	0.30	---
40102	x 2-1/2"	25/150	0.38	---
40103	x 3"	25/150	0.45	---
40104	x 3-1/2"	25/100	0.53	---
40105	x 4"	25/100	0.60	---
40106	x 4-1/2"	25/100	0.68	---
40107	x 5"	25/75	0.75	---
40108	x 5-1/2"	25/75	0.83	---
40109	x 6"	25/50	0.94	---
40110	x 7"	25/50	1.05	---
40111	x 8"	25/50	1.20	---
40112	x 9"	25/50	1.35	---
40113	x 10"	25/50	1.50	---
40114	x 11"	25/50	1.65	---
40115	x 12"	20/40	1.80	---
40118	x 18"			
40119	x 24"			
40262	x 36"			

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRASS SCH 40 SEAMLESS

FITTINGS AND NIPPLES



**LEAD
FREE**

1 1/4" - 11 1/2

1-1/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40120	Close (1-5/8")	25/100	0.36	---
40121	x 2"	25/100	0.44	---
40122	x 2-1/2"	25/100	0.56	---
40123	x 3"	25/100	0.67	---
40124	x 3-1/2"	25/100	0.78	---
40125	x 4"	25/50	0.89	---
40126	x 4-1/2"	25/50	1.00	---
40127	x 5"	25/50	1.11	---
40128	x 5-1/2"	25/50	1.22	---
40129	x 6"	25/50	1.33	---
40131	x 8"	25/50	1.78	---
40135	x 12"	25/50	2.67	---

113RB



**LEAD
FREE**

1-1/2" - 11 1/2

1-1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40140	Close (1-3/4")	25/100	0.46	---
40141	x 2"	25/100	0.53	---
40142	x 2-1/2"	25/50	0.66	---
40143	x 3"	25/50	0.79	---
40144	x 3-1/2"	25/50	0.93	---
40145	x 4"	25/50	1.06	---
40146	x 4-1/2"	25/50	1.19	---
40147	x 5"	20/40	1.32	---
40148	x 5-1/2"	20/40	1.46	---
40149	x 6"	20/40	1.59	---
40151	x 8"	20/40	2.12	---
40153	x 10"	20/40	2.65	---
40155	x 12"	1/15	3.18	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRASS SCH 40 SEAMLESS

FITTINGS AND NIPPLES



**LEAD
FREE**

2" - 11 1/2

2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40160	Close (2")	25/50	0.69	---
40161	x 2-1/2"	25/50	0.86	---
40162	x 3"	25/50	1.03	---
40163	x 3-1/2"	25/50	1.20	---
40164	x 4"	1/25	1.37	---
40165	x 4-1/2"	1/25	1.54	---
40166	x 5"	1/25	1.72	---
40167	x 5-1/2"	1/25	1.89	---
40168	x 6"	1/25	2.06	---
40169	x 7"	1/20	2.40	---
40170	x 8"	1/18	2.74	---
40171	x 9"	1/18	3.09	---
40172	x 10"	1/18	3.43	---
40174	x 12"	1/14	4.12	---
40175	x 18"	1/1	6.18	---
40176	x 24"	1/1	8.24	---
40177	x 30"			
40178	x 36"	1/1	12.36	---
40179	x 48"	1/1	16.48	---

113RB



**LEAD
FREE**

2 1/2" - 8

2-1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40180	Close (2-1/2")	1/36	1.26	---
40181	x 3"	1/36	1.51	---
40182	x 3-1/2"	1/30	1.76	---
40183	x 4"	1/30	2.02	---
40184	x 4-1/2"	1/30	2.27	---
40185	x 5"	1/20	2.52	---
40186	x 5-1/2"	1/20	2.77	---
40187	x 6"	1/20	3.03	---
40193	x 12"			

See our Valve section for 2-1/2, 3 and 4" Valves

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

BRASS SCH 40 SEAMLESS

FITTINGS AND NIPPLES



**LEAD
FREE**

3" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40200	Close (2-5/8")	1/24	1.89	---
40201	x 3"	1/20	2.16	---
40203	x 4"	1/18	2.88	---
40205	x 5"	1/18	3.60	---
40206	x 5-1/2"	1/18	3.96	---
40207	x 6"	1/12	4.32	---
40209	x 8"	1/1	5.76	---
40211	x 10"			
40213	x 12"	1/1		---

113RB



**LEAD
FREE**

4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
40220	Close (2-7/8)	1/20	2.40	---
40234	x 6"	1/5	6.36	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

CHROME PLATED

FITTINGS AND NIPPLES

113CP



**LEAD
FREE**

3/8" DIAMETER CHROME PLATED

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
41040	X Close	5/25	0.05	---
41041	x 1-1/2"	5/25	0.08	---
41042	x 2"	5/25	0.10	---
41043	x 2-1/2"	5/25	0.13	---
41044	x 3"	5/25	0.16	---
41045	x 3-1/2"	5/25	0.18	---
41046	x 4"	5/25	0.21	---
41047	x 4-1/2"	5/25	0.23	---
41048	x 5"	5/25	0.26	---
41050	x 6"	5/25	0.31	---
41054	x 10"	1/1	0.52	---



**LEAD
FREE**

1/2" DIAMETER CHROME PLATED

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST
41060	X Close	5/25	0.09	---
41061	x 1-1/2"	5/25	0.12	---
41062	x 2"	5/25	0.16	---
41063	x 2-1/2"	5/25	0.20	---
41064	x 3"	5/25	0.23	---
41065	x 3-1/2"	5/25	0.27	---
41066	x 4"	5/25	0.31	---
41067	x 4-1/2"	5/25	0.35	---
41068	x 5"	5/25	0.39	---
41069	x 5-1/2"	5/25	0.43	---
41070	x 6"	5/25	0.47	---
41072	x 8"			
41074	x 10"	1/1	0.78	---
41076	x 12"	1/1	0.94	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BRONZE FITTINGS

FITTINGS AND NIPPLES

BRONZE FITTINGS



UL842, UL258, UL125,FM



CLASS 125 (150) FOR STEAM, WATER, GAS, OIL AND AIR SERVICE STANDARD SPECIFICATIONS

Materials - ASTM B62-93 (85,5,5,5) C83600

Dimensions - ANSI B 16.15

Threads - ANSI B2.1 or BA 21 and Fed. WW-P-460C, MSS-SP-106, ANSI/ASME B1.20.1

- UL/ FM Approved
- 1S0 9001:2000
- Not Lead Free
- RoHS Compliant

Bronze threaded fittings are manufactured from smooth-cored castings, designed to provide full flow with minimum restriction. All threads are accurately machined and gauged to ensure a perfect fit with the pipe. All fittings are individually tested under water to ensure quality. Bronze provides a tighter seal and is easier to install than other metals. Can be used for water, plumbing, heating, pneumatic and marine applications, able to resist the harmful effects of corrosion when coming into contact with salt water or fresh water polluted with mineral acids or peaty soils.

LEAD FREE BRASS FITTINGS

LEAD
FREE

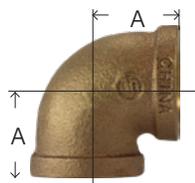


- Approved to ANSI/NSF 61-4 California AB 1953
- Meets Federal State Drinking Water Act, Lead Free Requirement
- Brass fittings conform to AWWA C800
- Brass castings conform to ASTM B584, UNS Alloy C8933
- Brass fittings dimensions conform to ASME B16.15
- NPT threads on all fittings conform to ASME B1.20.1
- Brass unions conform to specification A-A-59617
- Manufacturing facilities are ISO 9001:2008

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES



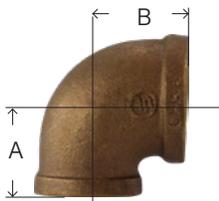
100RB

738100



90° ELBOWS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44100	---	50/600	1/8"	44100LF	---
44101	---	35/420	1/4"	44101LF	---
44102	---	90/360	3/8"	44102LF	---
44103	---	50/200	1/2"	44103LF	---
44104	---	35/105	3/4"	44104LF	---
44105	---	20/60	1"	44105LF	---
44106	---	20/40	1-1/4"	44106LF	---
44107	---	15/30	1-1/2"	44107LF	---
44108	---	8/16	2"	44108LF	---
44109	---	1/12	2-1/2"	44109LF	---
44110	---	1/4	3"	44110LF	---



100RRB

738105



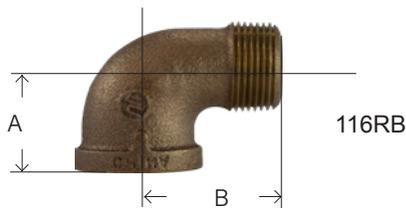
90° REDUCING ELBOWS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44121	---		3/8 x 1/8	44121LF	---
	---		3/8 x 1/4	44122LF	---
	---	60/240	1/2 x 1/4	44123LF	---
44124	---	60/240	1/2 x 3/8	44124LF	---
	---	40/160	3/4 x 1/4	44125LF	---
44127	---		3/4 x 1/2	44127LF	---
	---		1 x 1/2	44130LF	---
44131	---	50/100	1 x 3/4	44131LF	---
44134	---	25/50	1 1/4 x 1	44134LF	---
	---		1 1/2 x 1 1/4	44138LF	---
	---		2 x 1 1/2	44142LF	---
	---		2 1/2 x 2	44146LF	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES

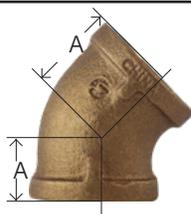


738116



90° STREET ELLS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44160	---	60/720	1/8"	44160LF	---
44161	---	35/420	1/4"	44161LF	---
44162	---	60/240	3/8"	44162LF	---
44163	---	60/180	1/2"	44163LF	---
44164	---	35/105	3/4"	44164LF	---
44165	---	45/90	1"	44165LF	---
44166	---	25/50	1-1/4"	44166LF	---
44167	---	9/27	1-1/2"	44167LF	---
44168	---	8/16	2"	44168LF	---



10045RB

738107



45° ELBOWS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44180	---	50/600	1/8"	44180LF	---
44181	---	30/360	1/4"	44181LF	---
44182	---	75/300	3/8"	44182LF	---
44183	---	50/200	1/2"	44183LF	---
44184	---	40/120	3/4"	44184LF	---
44185	---	20/60	1"	44185LF	---
44186	---	20/40	1-1/4"	44186LF	---
44187	---	10/30	1-1/2"	44187LF	---
44188	---	12/24	2"	44188LF	---
44189	---	1/12	2-1/2"		---

DROP EAR ELBOWS



• LEAD FREE BRONZE • LEAD FREE BRASS

• LEAD FREE BRASS

• LEAD FREE BRONZE

PART #	SWT X FIP	LIST PRICE
44840LF	1/2 x 1/2 Bronze	---
44841LF	1/2 x 1/2 Brass	---
44842LF	3/4 x 1/2 Brass	---
44843LF	3/4 x 3/4 Brass	---

PART #	SWT X SWT	LIST PRICE
44844LF	1/2 x 1/2	---

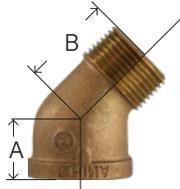
PART #	PEX X FIP	LIST PRICE
44845LF	1/2 x 1/2	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES



124RB

738124



45° STREET ELBOWS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44200	---	70/840	1/8"	44200LF	---
44201	---	100/400	1/4"	44201LF	---
44202	---	100/400	3/8"	44202LF	---
44203	---	75/225	1/2"	44203LF	---
44204	---	40/120	3/4"	44204LF	---
44205	---	25/75	1"	44205LF	---
44206	---	10/40	1-1/4"	44206LF	---
44207	---	10/30	1-1/2"	44207LF	---
44208	---	12/24	2"	44208LF	---



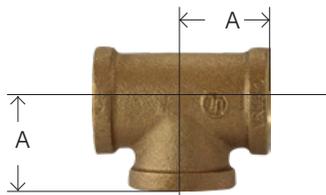
102RB

738102



CROSSES

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44391	---	60/240	1/4"	44391LF	---
44392	---	50/150	3/8"	44392LF	---
44393	---	30/90	1/2"	44393LF	---
44394	---	20/60	3/4"	44394LF	---
44395	---	15/30	1"	44395LF	---
44396	---	10/20	1-1/4"	44396LF	---
44397	---	8/16	1-1/2"	44397LF	---
44398	---	5/10	2"	44398LF	---
38102-32					



101RB



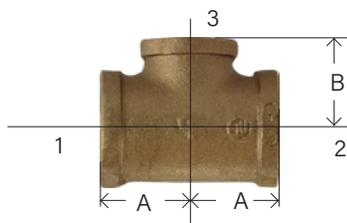
TEES

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44250	---	120/480	1/8"	44250LF	---
44251	---	75/300	1/4"	44251LF	---
44252	---	45/180	3/8"	44252LF	---
44253	---	40/120	1/2"	44253LF	---
44254	---	35/70	3/4"	44254LF	---
44255	---	20/40	1"	44255LF	---
44256	---	14/28	1-1/4"	44256LF	---
44257	---	12/24	1-1/2"	44257LF	---
44258	---	8/16	2"	44258LF	---
44259	---	1/6	2-1/2"	44259LF	---
44260	---	1/6	3"	44260LF	---
			4"	44261LF	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES



101RRB

738106



REDUCING TEES REDUCING ON THE BRANCH

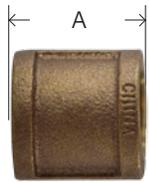
PART #	LIST	BOX/CASE	SIZE 1 X 2 X 3	PART #	LIST
			1/4 x 1/4 x 1/8	44270LF	---
44276	---	40/160	1/2 x 1/2 x 1/4	44276LF	---
			1/2 x 1/2 x 3/8	44279LF	---
	---	40/160	1/2 x 1/2 x 3/4	44280LF	---
44287	---		3/4 x 1/2 x 1/2	44287LF	---
44288			3/4 x 1/2 x 3/4	44288LF	---
44282	---	25/100	3/4 x 3/4 x 1/4	44282LF	---
	---	25/100	3/4 x 3/4 x 3/8	44283LF	---
44286	---	20/80	3/4 x 3/4 x 1/2	44286LF	---
			1 x 1/2 x 1/2	44292LF	---
			1 x 1/2 x 3/4	44293LF	---
44296	---		1 x 3/4 x 3/4	44296LF	---
			1 x 1 x 1/4	44268LF	---
			1 x 1 x 3/8	44290LF	---
	---	15/60	1 x 1 x 1/2	44291LF	---
44298	---	12/48	1 x 1 x 3/4	44298LF	---
			1 1/4 x 1/2 x 1 1/4	44314LF	---
	---	20/40	1 1/4 x 1 1/4 x 1/2	44301LF	---
44303	---	20/40	1 1/4 x 1 1/4 x 3/4	44303LF	---
	---	20/40	1 1/4 x 1 1/4 x 1	44306LF	---
			1 1/2 x 1 1/2 x 1/2	44315LF	---
			1 1/2 x 1 1/2 x 3/4	44316LF	---
			1 1/2 x 1 1/2 x 1	44318LF	---
			1 1/2 x 1 1/2 x 1 1/4	44322LF	---
			2 x 2 x 1/2	44327LF	---
			2 x 2 x 3/4	44328LF	---
			2 x 2 x 1	44330LF	---
			2 x 2 x 1 1/2	44336LF	---
			3 x 3 x 2	44351LF	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES



103RB

738103

COUPLINGS



PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44410	---	70/840	1/8"	44410LF	---
44411	---	40/480	1/4"	44411LF	---
44412	---	40/480	3/8"	44412LF	---
44413	---	60/240	1/2"	44413LF	---
44414	---	50/150	3/4"	44414LF	---
44415	---	25/100	1"	44415LF	---
44416	---	16/64	1-1/4"	44416LF	---
44417	---	18/36	1-1/2"	44417LF	---
44418	---	12/24	2"	44418LF	---
44419	---	1	2-1/2"	44419LF	---
44420	---	1	3"	44420LF	---
			4"	44421LF	---



119RB

738119

REDUCING COUPLINGS



PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44430	---	70/840	1/4" x 1/8"	44430LF	---
44431	---	35/420	3/8" x 1/8"	44431LF	---
44432	---	30/360	3/8" x 1/4"	44432LF	---
44433	---	75/300	1/2" x 1/8"	44433LF	---
44434	---	75/300	1/2" x 1/4"	44434LF	---
44435	---	60/240	1/2" x 3/8"	44435LF	---
44436	---	45/180	3/4" x 1/4"	44436LF	---
44437	---	45/180	3/4" x 3/8"	44437LF	---
44438	---	60/180	3/4" x 1/2"	44438LF	---
44440	---	30/120	1" x 3/8"	44440LF	---
44441	---	30/120	1" x 1/2"	44441LF	---
44442	---	25/100	1" x 3/4"	44442LF	---
44445	---	25/75	1-1/4" x 3/4"	44445LF	---
44446	---	15/60	1-1/4" x 1"	44446LF	---
44447	---	20/60	1-1/2" x 1/2"	44447LF	---
44448	---	15/60	1-1/2" x 3/4"	44448LF	---
44449	---	25/50	1-1/2" x 1"	44449LF	---
44450	---	12/48	1-1/2" x 1-1/4"	44450LF	---
44451	---	12/36	2" x 3/4"	44451LF	---
44452	---	12/36	2" x 1"	44452LF	---
44453	---	9/27	2" x 1-1/4"	44453LF	---
44454	---	9/27	2" x 1-1/2"	44454LF	---
44462	---	1	2-1/2" x 2"	44462LF	---
44456	---	1	3" x 2"	44456LF	---
		1	3" x 2-1/2"	44463LF	---

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BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES



108RB

738108



CAPS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44470	---	80/160	1/8"	44470LF	---
44471	---	80/960	1/4"	44471LF	---
44472	---	60/720	3/8"	44472LF	---
44473	---	75/300	1/2"	44473LF	---
44474	---	40/160	3/4"	44474LF	---
44475	---	25/100	1"	44475LF	---
44476	---	20/80	1-1/4"	44476LF	---
44477	---	18/54	1-1/2"	44477LF	---
44478	---	12/36	2"	44478LF	---
	---		2-1/2"	44479LF	---
44480	---	1	3"	44480LF	---



104RB

738104



UNIONS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44600	---	40/160	1/8"	44600LF	---
44601	---	40/160	1/4"	44601LF	---
44602	---	40/160	3/8"	44602LF	---
44603	---	50/100	1/2"	44603LF	---
44604	---	35/70	3/4"	44604LF	---
44605	---	20/40	1"	44605LF	---
44606	---	15/30	1-1/4"	44606LF	---
44607	---	10/20	1-1/2"	44607LF	---
44608	---	6/12	2"	44608LF	---
44609	---	4/8	2-1/2"	44609LF	---
44610	---	4/8	3"	44610LF	---

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BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES



Hex
110RB

738110



HEX BUSHINGS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44500	---	120/1440	1/4" x 1/8"	44500LF	---
44501	---	75/900	3/8" x 1/8"	44501LF	---
44502	---	75/900	3/8" x 1/4"	44502LF	---
44503	---	150/600	1/2" x 1/8"	44503LF	---
44504	---	150/600	1/2" x 1/4"	44504LF	---
44505	---	150/600	1/2" x 3/8"	44505LF	---
44506	---	75/300	3/4" x 1/8"	44506LF	---
44507	---	75/300	3/4" x 1/4"	44507LF	---
44508	---	75/300	3/4" x 3/8"	44508LF	---
44509	---	75/300	3/4" x 1/2"	44509LF	---
44510*	---	50/200	1" x 1/4"	44510LF*	---
44511*	---	50/200	1" x 3/8"	44511LF	---
44512	---	50/200	1" x 1/2"	44512LF	---
44513	---	50/200	1" x 3/4"	44513LF	---
44515	---	30/120	1-1/4" x 3/8"		---
44516*	---	30/120	1-1/4" x 1/2"		---
44517	---	30/120	1-1/4" x 3/4"	44517LF	---
44518	---	30/120	1-1/4" x 1"	44518LF	---
44521*	---	25/75	1-1/2" x 1/2"	44521LF*	---
44522*	---	25/75	1-1/2" x 3/4"	44522LF*	---
44523	---	25/75	1-1/2" x 1"	44523LF	---
44524	---	25/75	1-1/2" x 1-1/4"	44524LF	---
44527*	---	20/60	2" x 1/2"	44527LF	---
44528*	---	20/60	2" x 3/4"	44528LF	---
44529*	---	20/60	2" x 1"	44529LF*	---
44530	---	20/60	2" x 1-1/4"	44530LF	---
44531	---	20/60	2" x 1-1/2"	44531LF	---
44535	---	15/30	2-1/2" x 2"	44535LF	---
44538	---	12/24	3" x 2"	44538LF	---
44539	---	12/24	3" x 2-1/2"	44539LF	---
44543	---	12/24	4" x 3"	44543LF	---

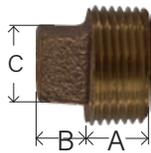
* INSIDE HEX



WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES



109RB

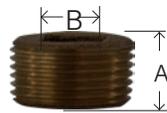
738109



CORED SQUARE HEAD PLUGS

PART #	LIST	BOX/CASE	SIZE	PART #	LIST
44650*	---	300/3600	1/8"	44650LF	---
44651*	---	150/1800	1/4"	44651LF	---
44652*	---	100/1200	3/8"	44652LF	---
44653	---	50/600	1/2"	44653LF	---
44654	---	30/360	3/4"	44654LF	---
44655	---	20/240	1"	44655LF	---
44656	---	40/120	1-1/4"	44656LF	---
44657	---	30/90	1-1/2"	44657LF	---
44658	---	20/60	2"	44658LF	---
44660	---	16/32	3"		---

* solid



109ALRB

SQUARE DRIVE

738115

BRONZE COUNTERSUNK PLUGS



PART #	LIST	SIZE	BOX/CASE	PART #	LIST
44633	---	1/2"	120/1440		
44634	---	3/4"	70/840	44634LF	---
44635	---	1"	20/240		---
44636	---	1-1/4"	40/120		---
44637	---	1-1/2"	30/90		---
44638	---	2"	20/60		---

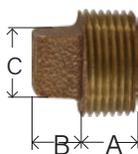


• Straight Thread

111RB

HEX LOCKNUTS

PART #	LIST	BOX/CASE	SIZE
44701	---	90/540	1/4"
44703	---	90/360	1/2"
44704	---	90/360	3/4"
44705	---	50/150	1"



109SRB

738114

SOLID SQUARE HEAD PLUGS



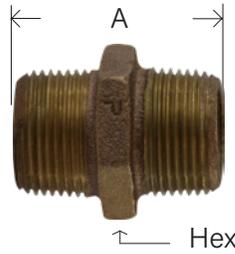
PART #	LIST	SIZE	BOX/CASE	PART #	LIST
44670	---	1/8"	400/4800	44670LF	---
44671	---	1/4"	150/1800	44671LF	---
44672	---	3/8"	120/1440	44672LF	---
44673	---	1/2"	50/600	44673LF	---
44674	---	3/4"	35/420	44674LF	---
44675	---	1"	20/240	44675LF	---
44676	---	1-1/4"	30/120	44676LF	---
44677	---	1-1/2"	30/90	44677LF	---
44678	---	2"	10/60	44678LF	---
		4"			

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRONZE/ LEAD FREE BRONZE

FITTINGS AND NIPPLES

HEX NIPPLES



PART #	LIST	SIZE	BOX/CASE
44720	---	1/8"	400/4800
44721	---	1/4"	150/1800
44722	---	3/8"	120/1440
44723	---	1/2"	240/480
44724	---	3/4"	80/320
44725	---	1"	50/150
44726	---	1-1/4"	50/100
44727	---	1-1/2"	35/70
44728	---	2"	20/40

REDUCING HEX NIPPLES



PART #	LIST	SIZE	BOX/CASE
44740	---	1/4" x 1/8"	1/1
44742	---	1/2" x 3/8"	1/1
44753	---	1-1/2" x 1-1/4"	1/1

FLANGE THREADED COMPANION LEAD-FREE



PART #	LIST	THREAD X OD	STD. PACK.	WT. PER 100
44791LF	---	3/4" x 3-7/8"	1	124
44792LF	---	1" x 4-1/4"	1	168
44794LF	---	1-1/2" x 5"	1	251
44795LF	---	2" x 6"	1	454
44796LF	---	2-1/2" x 7"	1	673
44797LF	---	3" x 7-1/2"	1	864
44798LF	---	4" x 9"	1	1227

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

CHROME PLATED BRONZE FITTINGS

FITTINGS AND NIPPLES

90° ELBOW



781100



PART #	SIZE	LIST
45102LF	3/8"	---
45103LF	1/2"	---
45104LF	3/4"	---
45105LF	1"	---

COUPLING



781103



PART #	SIZE	LIST
45412LF	3/8"	---
45413LF	1/2"	---

90° ELBOW



81100

PART #	SIZE	LIST
45102	3/8"	---
45103	1/2"	---
45104	3/4"	---
45105	1"	---

90° STREET ELLS



81116

PART #	SIZE	LIST
45162	3/8"	---
45163	1/2"	---
45164	3/4"	---
45165	1"	---

COUPLINGS



81103

PART #	SIZE	LIST
45412	3/8"	---
45413	1/2"	---
45414	3/4"	---
45435	1/2" x 3/8"	---

CAPS



81108

PART #	SIZE	LIST
45473	1/2"	---

PLUGS



PART #	SIZE	LIST
45652	3/8"	---
45653	1/2"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

SCH 40 STAINLESS STEEL NIPPLES

FITTINGS AND NIPPLES

STAINLESS STEEL NIPPLES



SCHEDULE 40 WELDED

Stainless steel pipe nipples are manufactured from stainless steel pipe that conforms to specification ASTM A312/ SA312.

All stainless steel nipples conform to specification ASTM A733. Threads conform to the requirements of ANSI B1.20.1.

304

The basic alloy. Type 304 (18-8) is an austenitic steel possessing a minimum of 18% chromium and 8% nickel, combined with a maximum of 0.08% carbon. It is a nonmagnetic steel which cannot be hardened by heat treatment, but instead, must be cold worked to obtain higher tensile strengths.

Because of its ability to withstand the corrosive action of various acids found in fruits, meats, milk, and vegetables,

Type 304 is especially suited for all types of dairy equipment piping and valves, the brewing industry, the citrus and fruit juice industry, and in food processing applications. Also used for the dye tanks, pipelines buckets, dippers, etc. that come in contact with the lormic, acetic, and other organic acids used in the dyeing industry.

In the marine environment, because of its slightly higher strength and wear resistance than type 316 it is also used for nuts, bolts, screws, and other fasteners. It is also used for springs, cogs, and other components where both wear and corrosion resistance is needed.

SCHEDULE 80 SEAMLESS

- See www.midlandindustries.com
- Seamless For Unrestricted Flow
- Use With Air, Water, Oil, Natural Gas, Steam
- Fittings: Use Threaded Class 3000 High-Pressure Stainless Steel.
- ASTM A733
- ASTM A312
- ANSI/ ASME B1.20.1
- PSI 3000

316

For severe environments. Of course, there are many industrial processes that require a higher level of resistance to corrosion than Type 304 can offer. For these applications, Type 316 is the answer.

In type 316, the nickel content is increased slightly. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%.

Molybdenum increases the corrosion resistance of this chromium-nickel alloy to withstand attack by many industrial chemicals and solvents, and, in particular, inhibits pitting caused by chlorides. As such, molybdenum is one of the single most useful alloying additives in the fight against corrosion.

Type 316 can withstand corrosive attack by sodium and calcium brines, hypochlorite solutions, phosphoric acid; and the sulfite liquors and sulfurous acids used in the paper pulp industry. This alloy, therefore, is specified for industrial equipment that handles the corrosive process chemicals used to produce inks, rayons, photographic chemicals, paper, textiles, bleaches, and rubber. Type 316 is also used extensively for surgical implants within the hostile environment of the body.

Type 316 is the main stainless used in the marine environment, with the exception of fasteners and other items where strength and wear resistance are needed, then Type 304 (18-8) is typically used.

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

SCH 40 STAINLESS STEEL NIPPLES

FITTINGS AND NIPPLES

#304

1/8" - 27

#316



1/8" DIAMETER
SCH 40 WELDED



PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48001	---	X Close (3/4")	25	0.01	49001	---
48002	---	x 1-1/2"	25	0.03	49002	---
48003	---	x 2"	25	0.04	49003	---
48004	---	x 2-1/2"	25	0.05	49004	---
48005	---	x 3"	25	0.06	49005	---
48006	---	x 3-1/2"	25	0.07	49006	---
48007	---	x 4"	25	0.07	49007	---
48008	---	x 4-1/2"	25	0.09	49008	---
48009	---	x 5"	25	0.10	49009	---
48010	---	x 5-1/2"	25	0.11	49010	---
48011	---	x 6"	25	0.12	49011	---
48015	---	x 10"	1	0.19		
		x 12"	1	0.24	49017	---

1/4" - 18



1/4" DIAMETER
SCH 40 WELDED



PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48020	---	X Close (7/8")	25	0.02	49020	---
48021	---	x 1-1/2"	25	0.04	49021	---
48022	---	x 2"	25	0.06	49022	---
48023	---	x 2-1/2"	25	0.07	49023	---
48024	---	x 3"	25	0.09	49024	---
48025	---	x 3-1/2"	25	0.11	49025	---
48026	---	x 4"	25	0.13	49026	---
48027	---	x 4-1/2"	25	0.14	49027	---
48028	---	x 5"	25	0.16	49028	---
48029	---	x 5-1/2"	25	0.18	49029	---
48030	---	x 6"	25	0.19	49030	---
48032	---	x 8"	1	0.25	49032	---
		x 9"	1	0.31	49033	---
48034	---	x 10"	1	0.35	49034	---
		x 11"	1	0.40	49035	---
48036	---	x 12"	1	0.44	49036	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

SCH 40 STAINLESS STEEL NIPPLES

FITTINGS AND NIPPLES

#304



3/8"-18

3/8" DIAMETER
SCH 40 WELDED

#316



PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48040	---	X Close (1")	25	0.03	49040	---
48041	---	x 1-1/2"	25	0.06	49041	---
48042	---	x 2"	25	0.07	49042	---
48043	---	x 2-1/2"	25	0.10	49043	---
48044	---	x 3"	25	0.12	49044	---
48045	---	x 3-1/2"	25	0.15	49045	---
48046	---	x 4"	25	0.17	49046	---
48047	---	x 4-1/2"	25	0.19	49047	---
48048	---	x 5"	25	0.22	49048	---
48049	---	x 5-1/2"	25	0.23	49049	---
48050	---	x 6"	25	0.26	49050	---



1/2" - 14

1/2" DIAMETER
SCH 40 WELDED



PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48060	---	X Close 1-1/8"	25	0.05	49060	---
48061	---	x 1-1/2"	25	0.07	49061	---
48062	---	x 2"	25	0.10	49062	---
48063	---	x 2-1/2"	25	0.14	49063	---
48064	---	x 3"	25	0.18	49064	---
48065	---	x 3-1/2"	25	0.20	49065	---
48066	---	x 4"	25	0.25	49066	---
48067	---	x 4-1/2"	25	0.28	49067	---
48068	---	x 5"	25	0.31	49068	---
48069	---	x 5-1/2"	25	0.34	49069	---
48070	---	x 6"	25	0.39	49070	---
48071	---	x 7"	1	0.41		
48072	---	x 8"	1	0.52		---
48073	---	x 9"	1	0.54		
48074	---	10"	1	0.58		---
48075	---	x 11"	1	0.64		
48076	---	x 12"	1	0.69	49076	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



SCH 40 STAINLESS STEEL NIPPLES

FITTINGS AND NIPPLES

#304



3/4" - 14

#316



3/4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48080	---	X Close (1-3/8")	25	0.08	49080	---
48081	---	x 1-1/2"	25	0.13	49081	---
48082	---	x 2"	25	0.14	49082	---
48083	---	x 2-1/2"	25	0.17	49083	---
48084	---	x 3"	25	0.22	49084	---
48085	---	x 3-1/2"	25	0.27	49085	---
48086	---	x 4"	25	0.32	49086	---
48087	---	x 4-1/2"	25	0.38	49087	---
48088	---	x 5"	25	0.40	49088	---
48089	---	x 5-1/2"	25	0.42	49089	---
48090	---	x 6"	25	0.48	49090	---
	---	x 7"	1	0.45	49091	---
48092	---	x 8"	1	0.67	49092	---
48094	---	x 10"	1	0.94	49094	---
48096	---	x 12"	1	1.03	49096	---



1" - 11 1/2



1" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48100	---	X Close (1-1/2")	25	0.13	49100	---
48101	---	x 2"	25	0.20	49101	---
48102	---	x 2-1/2"	25	0.25	49102	---
48103	---	x 3"	25	0.33	49103	---
48104	---	x 3-1/2"	25	0.40	49104	---
48105	---	x 4"	25	0.47	49105	---
48106	---	x 4-1/2"	25	0.53	49106	---
48107	---	x 5"	25	0.55	49107	---
48108	---	x 5-1/2"	25	0.60	49108	---
48109	---	x 6"	25	0.71	49109	---
48110	---	x 7"	1	0.57		---
48111	---	x 8"	1	1.02	49111	---
48113	---	x 10"	1	1.16	49113	---
48115	---	x 12"	1	1.31	49115	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

SCH 40 STAINLESS STEEL NIPPLES

FITTINGS AND NIPPLES



1 1/4" - 11 1/2"



1-1/4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48120	---	X Close (1-5/8")	10	0.17	49120	---
48121	---	x 2"	10	0.23	49121	---
48122	---	x 2-1/2"	10	0.35	49122	---
48123	---	x 3"	10	0.46	49123	---
48124	---	x 3-1/2"	10	0.52	49124	---
48125	---	x 4"	10	0.65	49125	---
48126	---	x 4-1/2"	10	0.53	49126	---
48127	---	x 5"	10	0.60	49127	---
48128	---	x 5-1/2"	10	0.61	49128	---
48129	---	x 6"	10	0.71	49129	---
48131	---	x 8"	1	1.34		
48135	---	x 12"	1	1.54		



1-1/2" - 11 1/2"



1-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48140	---	X Close x 1-3/4"	10	0.25	49140	---
48141	---	x 2"	10	0.32	49141	---
48142	---	x 2-1/2"	10	0.41	49142	---
48143	---	x 3"	10	0.52	49143	---
48144	---	x 3-1/2"	10	0.62	49144	---
48145	---	x 4"	10	0.73	49145	---
48146	---	x 4-1/2"	10	0.86	49146	---
48147	---	x 5"	10	0.95	49147	---
48148	---	x 5-1/2"	10	1.01	49148	---
48149	---	x 6"	10	1.19	49149	---
48151	---	x 8"	1	1.63		---
48152	---	x 9"	1	1.88		
48153	---	x 10"	1	2.28		---
48155	---	x 12"	1	2.43		

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

SCH 40 STAINLESS STEEL NIPPLES

FITTINGS AND NIPPLES



2" DIAMETER
SCH 40 WELDED



PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48160	---	X Close (2")	10	0.37	49160	---
48161	---	x 2-1/2"	10	0.54	49161	---
48162	---	x 3"	10	0.65	49162	---
48163	---	x 3-1/2"	10	0.88	49163	---
48164	---	x 4"	10	1.02	49164	---
48165	---	x 4-1/2"	10	1.16	49165	---
48166	---	x 5"	10	1.29	49166	---
48167	---	x 5-1/2"	10	1.46	49167	---
48168	---	x 6"	10	1.57	49168	---
48170	---	x 8"	1	2.01	49170	---
48172	---	x 10"	1	2.69		
48174	---	x 12"	1	2.89	49174	

2-1/2" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	LIST PRICE
48180	X Close (2-1/2")	10	0.64	---
48187	x 6"	1	2.37	---



3" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48200	---	X Close (2-5/8")	10	0.95	49200	---
48201	---	x 3"	10	1.32	49201	---
48203	---	x 4"	10	1.66	49203	---
48205	---	x 5"	5	1.72		---
48207	---	x 6"	5	1.88	49207	---
48213	---	x 12"	1	2.12	49213	---



4" DIAMETER
SCH 40 WELDED

PART # 304 S.S.	LIST PRICE	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
48220	---	X Close (2-7/8")	8	1.15	49220	---
48223		x 4"	1	2.98	49223	---
48227	---	x 6"	1	4.10	49234	---
48229		x 8"	1	5.95	49236	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

STAINLESS STEEL FITTINGS**150# 304 & 316 Stainless Steel Fittings**

Our high quality standard pattern 150lb rated stainless steel threaded fittings are manufactured to the highest standards. All stainless steel fittings are monitored by our quality control personnel for strict compliance with applicable standards and specifications.

These stainless steel pipe fittings are excellent for uses that involve chemicals or liquids that may be corrosive. Along with fighting corrosion, a stainless steel pipe fitting will prevent contamination making it useful to many professionals.

- Use with air, water, oil, natural gas, steam
- NPT and FNPT threads conform to ASME B1.20.1
- Maximum Pressure: 300 psi @ 72 F; 150 psi @ 366 F for steam
- Maximum Steam Pressure: 150 psi
- Material Conforms to ASTM A-351. Class 150 Pressure Ratings
- Manufacturing facility is ISO 9001:2008
- 304 Stainless Steel is economically priced, chromium-nickel material that offers very good corrosion resistance. 316 Stainless Steel has higher nickel content and contains molybdenum for even better corrosion resistance.

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

90° ELBOW 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62100	---	1/8"	25	0.06	63100	---
62101	---	1/4"	25	0.06	63101	---
62102	---	3/8"	25	0.11	63102	---
62103	---	1/2"	25	0.13	63103	---
62104	---	3/4"	25	0.20	63104	---
62105	---	1"	10	0.33	63105	---
62106	---	1-1/4"	10	0.55	63106	---
62107	---	1-1/2"	5	0.77	63107	---
62108	---	2"	5	1.10	63108	---
62109	---	2-1/2"	1	2.09		
62110	---	3"	1	2.84	63110	---
62112	---	4"	1	5.00	63112	---

90° STREET ELBOW 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62160	---	1/8"	25	0.04	63160	---
62161	---	1/4"	25	0.07	63161	---
62162	---	3/8"	25	0.09	63162	---
62163	---	1/2"	25	0.15	63163	---
62164	---	3/4"	25	0.24	63164	---
62165	---	1"	10	0.31	63165	---
62166	---	1-1/4"	10	0.51	63166	---
62167	---	1-1/2"	5	0.84	63167	---
62168	---	2"	5	1.26	63168	---
62169	---	3"	1	4.16	63170	---

45° ELBOW 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62180	---	1/8"	25	0.04	63180	---
62181	---	1/4"	25	0.07	63181	---
62182	---	3/8"	25	0.09	63182	---
62183	---	1/2"	25	0.13	63183	---
62184	---	3/4"	25	0.20	63184	---
62185	---	1"	10	0.33	63185	---
62186	---	1-1/4"	10	0.49	63186	---
62187	---	1-1/2"	5	0.66	63187	---
62188	---	2"	5	1.14	63188	---
62189	---	2-1/2"	1	2.82		
62190	---	3"	1	2.91	63190	---
62191	---	4"	1	5.05	63192	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

TEE 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62250	---	1/8"	25	0.07	63250	---
62251	---	1/4"	25	0.07	63251	---
62252	---	3/8"	25	0.11	63252	---
62253	---	1/2"	25	0.20	63253	---
62254	---	3/4"	25	0.29	63254	---
62255	---	1"	10	0.42	63255	---
62256	---	1-1/4"	5	0.66	63256	---
62257	---	1-1/2"	5	0.99	63257	---
62258	---	2"	3	1.43	63258	---
62259	---	2-1/2"	1	1.43		
62260	---	3"	1	3.66	63260	---
62261		4"	1	7.19	63261	---

CROSS 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
		1/8"	25	0.06	63390	---
62391	---	1/4"	25	0.09	63391	---
62392	---	3/8"	25	0.13	63392	---
62393	---	1/2"	25	0.29	63393	---
62394	---	3/4"	10	0.44	63394	---
62395	---	1"	10	0.74	63395	---
62396	---	1-1/4"	5	1.25		---
62397	---	1-1/2"	5	1.53		---
62398	---	2"	1	2.28		---

HEX NIPPLE 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62720	---	1/8"	1	0.02	63720	---
62721	---	1/4"	1	0.04	63721	---
62722	---	3/8"	1	0.07	63722	---
62723	---	1/2"	1	0.11	63723	---
62724	---	3/4"	1	0.18	63724	---
62725	---	1"	1	0.22	63725	---
62726	---	1-1/4"	1	0.37	63726	---
62727	---	1-1/2"	1	0.46	63727	---
62728	---	2"	1	0.61	63728	---

REDUCING HEX NIPPLE 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62740	---	1/4" x 1/8"	1	0.04	63740	---
62741	---	3/8" x 1/8"	1	0.07		---
62742	---	3/8" x 1/4"	1	0.07	63742	---
62744	---	1/2" x 1/4"	1	0.09	63744	---
62745	---	1/2" x 3/8"	1	0.11	63745	---
62748	---	3/4" x 3/8"	1	0.15	63748	---
62749	---	3/4" x 1/2"	1	0.15	63749	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

COUPLING 304 & 316 150#



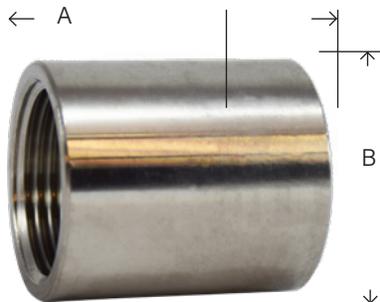
PART # 304 S.S.	LIST PRICE	SIZE*	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62410	---	1/8"	25	0.03	63410	---
62411	---	1/4"	25	0.06	63411	---
62412	---	3/8"	25	0.07	63412	---
62413	---	1/2"	25	0.13	63413	---
62414	---	3/4"	25	0.18	63414	---
62415	---	1"	25	0.24	63415	---
62416	---	1-1/4"	10	0.44	63416	---
62417	---	1-1/2"	10	0.51	63417	---
62418	---	2"	5	0.79	63418	---
62419	---	2-1/2"	1	1.28		
62420	---	3"	1	1.87	63420	---
62421	---	4"	1	2.80	63421	---

REDUCING COUPLING 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62430	---	1/4" x 1/8"	25	0.04	63430	---
62431	---	3/8" x 1/8"	25	0.04	63431	---
62432	---	3/8" x 1/4"	25	0.04	63432	---
62433	---	1/2" x 1/8"	25	0.09	63433	---
62434	---	1/2" x 1/4"	25	0.09	63434	---
62435	---	1/2" x 3/8"	25	0.09	63435	---
62455	---	3/4" x 1/8"	25	0.13	63455	---
62436	---	3/4" x 1/4"	25	0.11	63436	---
62437	---	3/4" x 3/8"	25	0.13	63437	---
62438	---	3/4" x 1/2"	25	0.15	63438	---
		1" x 1/4"	25	0.25	63459	---
62440	---	1" x 3/8"	25	0.22	63440	---
62441	---	1" x 1/2"	25	0.24	63441	---
62442	---	1" x 3/4"	25	0.24	63442	---
62445	---	1-1/4" x 3/4"	10	0.33	63445	---
62446	---	1-1/4" x 1"	10	0.35	63446	---
62447	---	1-1/2" x 1/2"	10	0.40	63447	---
62448	---	1-1/2" x 3/4"	10	0.42	63448	---
62449	---	1-1/2" x 1"	10	0.44	63449	---
62450	---	1-1/2" x 1-1/4"	10	0.46	63450	---
62459		2" x 1/2"				
62451	---	2" x 3/4"				
62452	---	2" x 1"	5	0.57	63452	---
62453	---	2" x 1-1/4"	5	0.62	63453	---
62454	---	2" x 1-1/2"	5	0.62	63454	---
62462		2-1/2" x 2"				
62428	---	3" x 1"	1	1.82		
62456	---	3" x 2"	1	2.25		
62457		4" x 3"				

OD MACHINED COUPLING 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62410B	---	1/8"	0.76	0.56	25	0.04	63410B	---
62411B	---	1/4"	0.94	0.71	25	0.04	63411B	---
62412B	---	3/8"	0.98	0.84	25	0.07	63412B	---
62413B	---	1/2"	1.33	1.01	25	0.09	63413B	---
62414B	---	3/4"	1.41	1.27	25	0.16	63414B	---
62415B	---	1"	1.69	1.54	10	0.21	63415B	---
62416B	---	1-1/4"	1.93	1.90	10	0.31	63416B	---
62417B	---	1-1/2"	1.93	2.16	5	0.41	63417B	---
62418B	---	2"	1.96	2.66	5	0.68	63418B	---
62420B	---	3"	3.23	3.76	1			

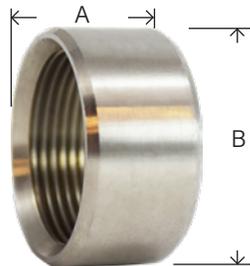
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

HALF COUPLING 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62770	---	1/8"						
62771	---	1/4"	0.39	0.70	25	0.02	63771	---
62772	---	3/8"	0.45	0.82	25	0.02		---
62773	---	1/2"	0.57	1.02	25	0.09	63773	---
62774	---	3/4"	0.67	1.22	25	0.11		---
62775	---	1"	0.79	1.47	25	0.13	63775	---
62776	---	1-1/4"	0.86	1.88	10	0.24		---
62777	---	1-1/2"	0.94	2.10	10	0.26		---
62778	---	2"	1.06	2.60	5	0.44	63778	---
62779		3"						

UNION 304 & 316 150#

• Stainless Steel Seat



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62600	---	1/8"	25	0.09		---
62601	---	1/4"	25	0.13	63601	---
62602	---	3/8"	25	0.22	63602	---
62603	---	1/2"	25	0.26	63603	---
62604	---	3/4"	25	0.46	63604	---
62605	---	1"	10	0.60	63605	---
62606	---	1-1/4"	5	0.90	63606	---
62607	---	1-1/2"	5	1.10	63607	---
62608	---	2"	1	1.81	63608	---
62609		2-1/2"				
62610	---	3"	1	3.40		---

CAP - CAST 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62470	---	1/8"	25	0.02	63470	---
62471	---	1/4"	25	0.02	63471	---
62472	---	3/8"	25	0.04	63472	---
62473	---	1/2"	25	0.07	63473	---
62474	---	3/4"	25	0.11	63474	---
62475	---	1"	10	0.18	63475	---
62476	---	1-1/4"	10	0.29	63476	---
62477	---	1-1/2"	10	0.40	63477	---
62478	---	2"	10	0.60	63478	---
62480	---	3"	1	1.28	63480	---
62481	---	4"	1	1.54		

HEX CAP - BARSTOCK 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62075	---	1/8"	25	0.04	63075	---
62076	---	1/4"	25	0.09	63076	---
62077	---	3/8"	25	0.11		---
62078	---	1/2"	25	0.13	63078	---
62079	---	3/4"	25	0.22		---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov



304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

HEX BUSHING 304 & 316 150#



stainless steel:

- barbed for plastic pipe
- Well Couplings
- merchant couplings
- See End of Bronze Fitting Section

PART # 304 S.S.	LIST PRICE	SIZE M X F	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62500	---	1/4" x 1/8"	25	0.04	63500	---
62501	---	3/8" x 1/8"	25	0.04	63501	---
62502	---	3/8" x 1/4"	25	0.04	63502	---
62503	---	1/2" x 1/8"	25	0.09		
62504	---	1/2" x 1/4"	25	0.09	63504	---
62505	---	1/2" x 3/8"	25	0.11	63505	---
62506	---	3/4" x 1/8"	25	0.13	63506	---
62507	---	3/4" x 1/4"	25	0.15	63507	---
62508	---	3/4" x 3/8"	25	0.15	63508	---
62509	---	3/4" x 1/2"	25	0.15	63509	---
62557	---	1" x 1/8"	25	0.27		
62510	---	1" x 1/4"	25	0.22	63510	---
62511	---	1" x 3/8"	25	0.24	63511	---
62512	---	1" x 1/2"	25	0.24	63512	---
62513	---	1" x 3/4"	25	0.24	63513	---
62515	---	1-1/4" x 3/8"	25	0.37		
62516	---	1-1/4" x 1/2"	25	0.37	63516	---
62517	---	1-1/4" x 3/4"	25	0.37	63517	---
62518	---	1-1/4" x 1"	25	0.37	63518	---
62521	---	1-1/2" x 1/2"	25	0.44	63521	---
62522	---	1-1/2" x 3/4"	25	0.46	63522	---
62532	---	1-1/2" x 1"	25	0.49	63523	---
62524	---	1-1/2" x 1-1/4"	25	0.46	63524	---
62559	---	2" x 1/4"	10	0.95	63526	
62527	---	2" x 1/2"	10	0.66	63527	---
62528	---	2" x 3/4"	10	0.66	63528	---
62529	---	2" x 1"	10	0.66	63529	---
62530	---	2" x 1-1/4"	10	0.68	63530	---
62531	---	2" x 1-1/2"	10	0.68	63531	---
62534	---	2-1/2" x 1-1/2"	5	1.23	63534	---
62535	---	2-1/2" x 2"	5	1.21	63535	---
		3" x 1"	5	2.20	63550	---
62537	---	3" x 1-1/2"	5	1.97	63537	---
62538	---	3" x 2"	5	1.72	63538	---
62539	---	3" x 2-1/2"	5	1.81	63539	
		4" x 2"	1	3.72	63541	---
62543	---	4" x 3"	1	2.43	63543	---

BULKHEAD FITTINGS - STAINLESS STEEL 316 NPT (3/4-2")



PART #	SIZE	HOLE SIZE	HEX	LENGTH	LIST PRICE
63214	3/4"	1-5/8"	2-15/32"	1-13/16"	---
63215	1"	2-1/4"	3-1/16"	2-7/8"	---
63216	1-1/4"	2-1/4"	3-1/16"	2-3/8"	---
63217	1-1/2"	3"	4-1/4"	2-5/8"	---
63218	2"	3"	4-1/4"	2-5/8"	---

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304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

HEX LOCKNUT

304 & 316 150#

- Straight Thread



PART #304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.
62700	---	1/8"	25	0.02
62701	---	1/4"	25	0.05
62702	---	3/8"	25	0.06
62703	---	1/2"	25	0.07
62704	---	3/4"	25	0.11
62705	---	1"	25	0.15
62706	---	1-1/4"	25	0.22

CORED SQUARE HEAD PLUG

304 & 316 150#



PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62670	---	1/8"	25	0.02	63670	---
62671	---	1/4"	25	0.03	63671	---
62672	---	3/8"	25	0.04	63672	---
62653	---	1/2"	25	0.06	63653	---
62654	---	3/4"	25	0.13	63654	---
62655	---	1"	25	0.20	63655	---
62656	---	1-1/4"	25	0.32	63656	---
62657	---	1-1/2"	10	0.41	63657	---
62658	---	2"	10	0.65	63658	---
62660	---	3"	1	0.88		

CORED HEX HEAD PLUG

304 & 316 150#



PART # 304 S.S	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
62630	---	1/8"	25	0.02	63630	---
62631	---	1/4"	25	0.02	63631	---
62632	---	3/8"	25	0.04	63632	---
62633	---	1/2"	25	0.07	63633	---
62634	---	3/4"	25	0.11	63634	---
62635	---	1"	25	0.20	63635	---
62636	---	1-1/4"	25	0.31	63636	---
62637	---	1-1/2"	10	0.44	63637	---
62638	---	2"	10	0.65	63638	---
62640		3"				

HOSE NIPPLE

304 & 316 150#



HOSE BARB X MALE PIPE

PART # 304 S.S	LIST PRICE	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	PART # 316 S.S.	LIST PRICE
73951	---	1/4"	1	0.04	973951	---
73952	---	3/8"	1	0.07	973952	---
73953	---	1/2"	1	0.13	973953	---
73954	---	3/4"	1	0.20	973954	---
73955	---	1"	1	0.33	973955	---
73956	---	1-1/4"	1	0.47	973956	---
73957	---	1-1/2"	1	0.67	973957	---
73958	---	2"	1	0.88	973958	---
73959	---	2-1/2"	1	1.45	973959	---
73960	---	3"	1	1.94	973990	---
		4"	1	3.57	973991	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

304 AND 316 150# SS FITTINGS

FITTINGS AND NIPPLES

REDUCING HOSE NIPPLE

304 150#



HOSE BARB X MALE PIPE

PART # 304 S.S	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	LIST PRICE
73970	1/4" x 1/8"	1	0.04	---
73971	3/8" x 1/4"	1	0.07	---
73972	1/2" x 3/8"	1	0.13	---
73973	1/2" x 1/4"	1	0.13	---
73974	3/4" x 1/2"	1	0.20	---
73975	1" x 3/4"	1	0.33	---
73976	1" x 1/2"	1	0.33	---
73977	1-1/4" x 1"	1	0.46	---
73979	1-1/2" x 1-1/4"	1	0.66	---
73980	1-1/2" x 1"	1	0.66	---
73982	2" x 1-1/4"	1	0.88	---

SOLID HEX HEAD PLUG

316 150#



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	LIST PRICE
63660	1/8"	25	0.04	---
63661	1/4"	25	0.06	---
63662	3/8"	25	0.08	---
63663	1/2"	25	0.12	---
63664	3/4"	25	0.15	---
63665	1"	25	0.24	---

HEX SOCKET PLUG - BARSTOCK

316 150#



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	LIST PRICE
63760	1/8 "	1	0.05	---
63761	1/4 "	1	0.07	---
63762	3/8 "	1	0.10	---
63763	1/2 "	1	0.14	---
63764	3/4 "	1	0.21	---
63765	1"	1	0.24	---

SOLID SQUARE HEAD PLUG

316 150#V



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.	LIST PRICE
63680	1/8"	25	0.04	---
63681	1/4"	25	0.04	---
63682	3/8"	25	0.05	---
63683	1/2"	25	0.06	---
63684	3/4"	25	0.12	---

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FITTINGS & NIPPLES

BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES



BLACK AND GALVANIZED STEEL NIPPLES

Product Specifications

Welded steel pipe nipples both galvanized and black in diameters ranging from 1/8" up to 4" in lengths from close to 12" and cut-pipe up to 120". -200°-150° Temp Rating.

Technical Specifications

Standards: Product complies with ASTM A-53, A-733 and ANSI B1.20.1 for threading, dimensions and pipe specifications.

Pipe: Complies with ASTM A-53 mill tested schedule 40 and 80 for both Welded & Seamless Meets ANSI B36.1. All pipe is hydrostatic tested.

Galvanized: Zinc coating applied by hot dipped. Galvanized complying with ASTM A-123, NSF approved, RoHS compliant.

Black: Protected against oxidation with varnish coating.

Cutting Procedure: All pipe is roller cut. A visual inspection of seams, excessive galvanizing, mid-welds, poor galvanizing, bends, roundness, under and over weight of the pipe is made at the time it is cut. This is done for every length of pipe. Pipe lengths are cut to a tolerance of + or - 1/16" of the actual length.

Threading Procedure:

All pipe is chaser thread cut to American Standard Tapered Pipe Thread standards. This is 3/4" taper per foot. Pipe is visually inspected for roundness of threads and other visual faults as it is removed from the threading machine.

SCHEDULE 80 XXS SEAMLESS



- ASTM A106 Grade B Seamless Pipe
- ASTM A 53
- WVN 351
- Standard NPT Tapered Pipe Threads as per ANSI B 1.20.1 Specification

XXS SEAMLESS



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BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES

1/8" - 27

Wall Thickness 0.068 - GradeB - Test Pressure 700
PSI - Thread Length 0.39



1/8" DIAMETER
SCH 40 WELDED



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56001	---	X Close (3/4")	50/600	0.02	57001	---
56002	---	x 1-1/2"	50/600	0.03	57002	---
56003	---	x 2"	50/500	0.04	57003	---
56004	---	x 2-1/2"	100/400	0.06	57004	---
56005	---	x 3	50/300	0.07	57005	---
56006	---	x 3-1/2"	50/300	0.08	57006	---
56007	---	x 4"	50/300	0.09	57007	---
56008	---	x 4-1/2"	50/300	0.10	57008	---
56009	---	x 5"	50/300	0.11	57009	---
56010	---	x 5-1/2"	50/300	0.12	57010	---
56011	---	x 6"	50/300	0.13	57011	---
56012	---	x 7"	50/300	0.15	57012	---
56013	---	x 8"	50/300	0.18	57013	---
	---	x 9"	50/300	0.21	57014	---
56015	---	x 10"	50/300	0.25	57015	---
56017	---	x 12"	50/300	0.29	57017	---

1/4"-18

Wall Thickness 0.068 - GradeB - Test Pressure 700
PSI - Thread Length 0.39



1/4" DIAMETER
SCH 40 WELDED



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56020	---	X Close (7/8")	50/600	0.04	57020	---
56021	---	x 1-1/2"	125/500	0.06	57021	---
56022	---	x 2"	125/500	0.06	57022	---
56023	---	x 2-1/2"	100/400	0.08	57023	---
56024	---	x 3	50/300	0.10	57024	---
56025	---	x 3-1/2"	50/300	0.12	57025	---
56026	---	x 4"	50/300	0.14	57026	---
56027	---	x 4-1/2"	50/300	0.17	57027	---
56028	---	x 5"	50/300	0.19	57028	---
56029	---	x 5-1/2"	50/300	0.21	57029	---
56030	---	x 6"	50/300	0.23	57030	---
56031	---	x 7"	50/100	0.27	57031	---
56032	---	x 8"	50/100	0.31	57032	---
	---	x 9"	50/100	0.35	57033	---
56034	---	x 10"	50/100	0.40	57034	---
56035	---	x 11"	50/100	0.44	57035	---
56036	---	x 12"	50/100	0.48	57036	---
56038	---	x 18"	50/100	0.54		

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
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FITTINGS & NIPPLES

BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES



**3/8" DIAMETER
SCH 40 WELDED**
Wall Thickness 0.091 -
Grade B - Test Pressure 700
PSI - Thread Length 0.6



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56040	---	X Close (1")	50/600	0.05	57040	---
56041	---	x 1-1/2"	125/500	0.07	57041	---
56042	---	x 2"	125/500	0.08	57042	---
56043	---	x 2-1/2"	100/400	0.11	57043	---
56044	---	x 3"	50/300	0.13	57044	---
56045	---	x 3-1/2"	50/300	0.16	57045	---
56046	---	x 4"	50/300	0.19	57046	---
56047	---	x 4-1/2"	50/200	0.21	57047	---
56048	---	x 5"	50/150	0.24	57048	---
56049	---	x 5-1/2"	50/150	0.27	57049	---
56050	---	x 6"	50/100	0.29	57050	---
56051	---	x 7"	50/100	0.35	57051	---
56052	---	x 8"	50/100	0.40	57052	---
	---	x 9"	50/100	0.45	57053	---
56054	---	x 10"	50/100	0.51	57054	---
56055	---	x 11"	50/100	0.56	57055	---
56056	---	x 12"	50/100	0.62	57056	---
56430	---	x 18"	5/10	0.71	57430	---
		x 24"	1/1	1.02	57431	---
		x 36"	1/1	1.54	57433	----



**1/2" DIAMETER
SCH 40 WELDED**
Wall Thickness 0.109 -
Grade B - Test Pressure
700 PSI - Thread Length
0.78



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56060	---	X Close (1-1/8")	50/600	0.08	57060	---
56061	---	x 1-1/2"	125/500	0.08	57061	---
56062	---	x 2"	125/500	0.12	57062	---
56063	---	x 2-1/2"	100/400	0.15	57063	---
56064	---	x 3"	50/300	0.19	57064	---
56065	---	x 3-1/2"	50/300	0.23	57065	---
56066	---	x 4"	50/300	0.27	57066	---
56067	---	x 4-1/2"	50/200	0.30	57067	---
56068	---	x 5"	50/150	0.34	57068	---
56069	---	x 5-1/2"	50/150	0.38	57069	---
56070	---	x 6"	50/100	0.42	57070	---
56071	---	x 7"	50/100	0.49	57071	---
56072	---	x 8"	50/100	0.57	57072	---
56073	---	x 9"	50/100	0.65	57073	---
56074	---	x 10"	50/100	0.72	57074	---
56075	---	x 11"	50/100	0.80	57075	---
56076	---	x 12"	40/80	0.87	57076	---
56240	---	x 18"	1/3	1.29	57240	---
56241	---	x 24"	1/3	1.74	57241	---
56242	---	x 30"	1/3	2.16	57242	---
56243	---	x 36"	1/3	2.61	57243	---
56245	---	x 48"	1/3	3.48	57245	---
56246	---	x 60"	1/3	4.35	57246	---
56247	---	x 72"	1/3	5.22	57247	---

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BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES



3/4" DIAMETER SCH 40 WELDED

Wall Thickness 0.113 -
Grade B - Test Pres-
sure 700 PSI - Thread
Length 0.79



Part # Galv	List Price	Length	Box/Case	Approx. Wt. Lbs.	Part # Black	List Price
56080	---	X Close (1-3/8")	50/300	0.13	57080	---
56081	---	x 1-1/2"	125/250	0.10	57081	---
56082	---	x 2"	125/250	0.15	57082	---
56083	---	x 2-1/2"	50/250	0.20	57083	---
56084	---	x 3"	50/200	0.24	57084	---
56085	---	x 3-1/2"	50/150	0.29	57085	---
56086	---	x 4"	50/150	0.34	57086	---
56087	---	x 4-1/2"	50/150	0.39	57087	---
56088	---	x 5"	50/150	0.43	57088	---
56089	---	x 5-1/2"	60/120	0.48	57089	---
56090	---	x 6"	50/100	0.53	57090	---
56091	---	x 7"	50/100	0.63	57091	---
56092	---	x 8"	50/100	0.72	57092	---
56093	---	x 9"	40/80	0.82	57093	---
56094	---	x 10"	40/80	0.91	57094	---
56095	---	x 11"	30/60	1.01	57095	---
56096	---	x 12"	30/60	1.10	57096	---
56250	---	x 18"	1/3	1.63	57250	---
56251	---	x 24"	1/3	2.20	57251	---
56252	---	x 30"	1/3	2.73	57252	---
56253	---	x 36"	1/3	3.30	57253	---
56255	---	x 48"	1/3	4.40	57255	---
56256	---	x 60"	1/3	5.50	57256	---
56257	---	x 72"	1/3	6.60	57257	---

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FITTINGS & NIPPLES

BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES



1" DIAMETER SCH 40 WELDED

Wall Thickness 0.133 -
Grade B - Test Pressure
700 PSI - Thread Length
0.98



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56100	---	X Close (1-1/2")	50/200	0.16	57100	---
56101	---	x 2"	50/150	0.23	57101	---
56102	---	x 2-1/2"	50/150	0.29	57102	---
56103	---	x 3"	50/100	0.36	57103	---
56104	---	x 3-1/2"	50/100	0.43	57104	---
56105	---	x 4"	50/100	0.50	57105	---
56106	---	x 4-1/2"	50/100	0.56	57106	---
56107	---	x 5"	50/100	0.63	57107	---
56108	---	x 5-1/2"	50/100	0.70	57108	---
56109	---	x 6"	40/80	0.77	57109	---
56110	---	x 7"	25/50	0.90	57110	---
56111	---	x 8"	25/50	1.03	57111	---
56112	---	x 9"	15/30	1.17	57112	---
56113	---	x 10"	15/30	1.30	57113	---
56114	---	x 11"	15/30	1.44	57114	---
56115	---	x 12"	15/30	1.57	57115	---
56260	---	x 18"	1/3	2.34	57260	---
56261	---	x 24"	1/3	3.14	57261	---
56262	---	x 30"	1/3	3.91	57262	---
56263	---	x 36"	1/3	4.71	57263	---
56265	---	x 48"	1/3	6.28	57265	---
56266	---	x 60"	1/3	7.85	57266	---
56267	---	x 72"	1/3	9.42	57267	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES



1-1/4" DIAMETER SCH 40 WELDED

Wall Thickness 0.14 - Grade B -
Test Pressure 1300 PSI -
Thread Length 1.01



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56120	---	X Close (1-5/8")	50/100	0.25	57120	---
56121	---	x 2"	50/100	0.32	57121	---
56122	---	x 2-1/2"	50/100	0.41	57122	---
56123	---	x 3"	50/100	0.50	57123	---
56124	---	x 3-1/2"	30/60	0.60	57124	---
56125	---	x 4"	30/60	0.69	57125	---
56126	---	x 4-1/2"	30/60	0.78	57126	---
56127	---	x 5"	25/50	0.87	57127	---
56128	---	x 5-1/2"	25/50	0.96	57128	---
56129	---	x 6"	25/50	1.06	57129	---
56130	---	x 7"	15/30	1.24	57130	---
56131	---	x 8"	15/30	1.42	57131	---
56132	---	x 9"	15/30	1.61	57132	---
56133	---	x 10"	15/30	1.79	57133	---
56134	---	x 11"	10/20	1.97	57134	---
56135	---	x 12"	10/20	2.16	57135	---
56270	---	x 18"	1/3	3.22	57270	---
56271	---	x 24"	1/3	4.32	57271	---
56272	---	x 30"	1/3	3.22	57272	---
56273	---	x 36"	1/3	6.48	57273	---
56275	---	x 48"			57275	---
		x 48"	1/3	8.64	57275	---
56276		x 60"	1/3	10.80	57276	



1-1/2" DIAMETER SCH 40 WELDED

Wall Thickness 0.145 - Grade B -
Test Pressure 1300 PSI - Thread
Length 1.03



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56140	---	X Close (1-3/4")	50/100	0.31	57140	---
56141	---	x 2"	40/80	0.37	57141	---
56142	---	x 2-1/2"	40/80	0.47	57142	---
56143	---	x 3"	40/80	0.58	57143	---
56144	---	x 3-1/2"	25/50	0.68	57144	---
56145	---	x 4"	25/50	0.78	57145	---
56146	---	x 4-1/2"	25/50	0.89	57146	---
56147	---	x 5"	25/50	1.10	57147	---
56148	---	x 5-1/2"	20/40	1.10	57148	---
56149	---	x 6"	15/30	1.20	57149	---
56150	---	x 7"	15/30	1.41	57150	---
56151	---	x 8"	15/30	1.62	57151	---
56152	---	x 9"	15/30	1.83	57152	---
56153	---	x 10"	1/20	2.04	57153	---
	---	x 11"	1/20	2.25	57154	---
56155	---	x 12"	1/20	2.46	57155	---
56280	---	x 18"	1/3	3.66	57280	---
56281	---	x 24"	1/3	4.92	57281	---
56282	---	x 30"	1/3	6.12	57282	---
56283	---	x 36"	1/3	7.38	57283	---
56285	---	x 48"	1/3	9.84	57285	---
		x 60"			57286	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES



**2" DIAMETER
SCH 40 WELDED**
Wall Thickness 0.154 -
Grade B - Test Pressure
2500 PSI - Thread Length
1.06



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56160	---	X Close (2")	40/80	0.55	57160	---
56161	---	x 2-1/2"	25/50	0.70	57161	---
56162	---	x 3"	25/50	0.86	57162	---
56163	---	x 3-1/2"	1/30	1.01	57163	---
56164	---	x 4"	1/30	1.16	57164	---
56165	---	x 4-1/2"	1/25	1.31	57165	---
56166	---	x 5"	1/30	1.47	57166	---
56167	---	x 5-1/2"	1/30	1.62	57167	---
56168	---	x 6"	1/20	1.77	57168	---
56169	---	x 7"	1/20	2.08	57169	---
56170	---	x 8"	1/20	2.39	57170	---
56171	---	x 9"	1/10	2.70	57171	---
56172	---	x 10"	1/10	3.00	57172	---
	---	x 11"	1/10	3.31	57173	---
56174	---	x 12"	1/10	3.62	57174	---
56290	---	x 18"	1/3	5.39	57290	---
56291	---	x 24"	1/3	5.26	57291	---
56292	---	x 30"	1/3	7.03	57292	---
56293	---	x 36"	1/3	10.86	57293	---
	----	x 42"	1/3	12.63		---
56295	---	x 48"	1/3	14.48	57295	---
56296	---	x 60"	1/3	18.10	57296	---
56297	---	x 72"	1/3	18.10	57297	---



**2-1/2" DIAMETER
SCH 40 WELDED**
Wall Thickness 0.203 - Grade
B - Test Pressure 2500 PSI -
Thread Length 1.57



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56180	---	X Close (2-1/2")	1/20	1.09	57180	---
56181	---	x 3"	1/20	1.33	57181	---
56182	---	x 3-1/2"	1/20	1.57	57182	---
56183	---	x 4"	1/20	1.82	57183	---
56184	---	x 4-1/2"	1/20	2.06	57184	---
56185	---	x 5"	1/20	2.30	57185	---
56186	---	x 5-1/2"	1/10	2.54	57186	---
56187	---	x 6"	1/10	2.78	57187	---
	---	x 7"	1/10	3.27	57188	---
56189	---	x 8"	1/10	3.75	57189	---
56191	---	x 10"	1/8	4.72	57191	---
56193	---	x 12"	1/8	5.69	57193	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov



BLACK AND GALVANIZED SCH 40

FITTINGS AND NIPPLES



**3" DIAMETER
SCH 40 WELDED**
Wall Thickness 0.216 - Grade
B - Test Pressure 2500 PSI -
Thread Length 1.64



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56200	---	X Close (2-5/8")	1/20	1.52	57200	---
56201	---	x 3"	1/20	1.76	57201	---
56202	---	x 3-1/2"	1/10	2.08	57202	---
56203	---	x 4"	1/10	2.39	57203	---
56204	---	x 4-1/2"	1/10	2.71	57204	---
56205	---	x 5"	1/10	3.03	57205	---
56206	---	x 5-1/2"	1/10	3.35	57206	---
56207	---	x 6"	1/10	3.66	57207	---
56208	---	x 7"	1/8	4.30	57208	---
56209	---	x 8"	1/8	4.93	57209	---
56210	---	x 9"	1/8	5.57	57210	---
56211	---	x 10"	1/5	6.20	57211	---
56212	---	x 11"	1/5	7.20	57212	---
56213	---	x 12"	1/5	7.47	57213	---
		x 24"	1	14.94	57311	---



4" DIAMETER SCH 40 WELDED

Wall Thickness 0.237 - Grade B - Test Pres-
sure 2210 PSI - Thread Length 1.74



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56220	---	X Close (2-7/8")	1/10	2.00	57220	---
56221	---	3-1/2"	1/8	2.21		---
56223	---	x 4"	1/8	3.41	57223	---
56224	---	x 4-1/2"	1/6	3.86	57224	---
56225	---	x 5"	1/6	4.31	57225	---
56226	---	x 5-1/2"	1/6	4.76	57226	---
56227	---	x 6"	1/6	5.21	57227	---
	---	x 7"	1/5	6.48	57330	---
56229	---	x 8"	1/5	7.01	57229	---
	---	x 9"	1/5	7.54	57331	---
56332	---	x 10"	1/5	8.14	57332	---
56228	---	x 12"	1/4	8.54	57228	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

NIPPLES AND ASSORTMENTS

FITTINGS AND NIPPLES



6" DIAMETER SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure
2500 PSI - Thread Length 1.06



PART # GALV	LIST PRICE	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
56300	---	X Close (3-1/8")	1/1	3.80	57300	---
		x 4"	1/1	5.30	57304	---
56301		x 6"	1/1	8.30	57301	---
		x 8"	1/1	11.30	57305	---
		x 10"			57306	---
		x 12"	1/1	17.20	57308	---



8" DIAMETER SCH 40 WELDED

Wall Thickness 0.154 - Grade B - Test Pressure
2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
57320	X Close (3-1/8")	1/1	5.80	---
57322	x 6"	1/1	6.50	---
57326	x 10"	1/1	19.00	---
57328	x 12"	1/1	28.55	---



SCH 40 SINGLE RUN NIPPLE BLACK

PART	DESCRIPTION	CLOSE	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5	5 1/2	6	TOTAL PCS	LIST
973570	1/2"	1	1	1	1	1	1	1	1	1	1	1	11	
973571	3/4"	1	1	1	1	1	1	1	1	1	1	1	11	
973572	1"	1		1	1	1	1	1	1	1	1	1	10	
973573	1-1/4"	1		1	1	1	1	1	1	1	1	1	10	
973574	1-1/2"	1		1	1	1	1	1	1	1	1	1	10	
973575	2"	1			1	1	1	1	1	1	1	1	9	

SCH 40 SINGLE RUN NIPPLE GALVANIZED

PART	DESCRIPTION	CLOSE	1-1/2	2	2-1/2	3	3-1/2	4	4-1/2	5	5 1/2	6	TOTAL PCS	LIST
973670	1/2"	1	1	1	1	1	1	1	1	1	1	1	11	
973671	3/4"	1	1	1	1	1	1	1	1	1	1	1	11	
973672	1"	1		1	1	1	1	1	1	1	1	1	10	
973673	1-1/4"	1		1	1	1	1	1	1	1	1	1	10	
973674	1-1/2"	1		1	1	1	1	1	1	1	1	1	10	
973675	2"	1			1	1	1	1	1	1	1	1	9	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

NIPPLES AND ASSORTMENTS

FITTINGS AND NIPPLES

STEEL NIPPLE ASSORTMENTS

B "6" ASSORTMENTS



BLACK		LENGTH											WT. TOTAL			
		CLOSE	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	LBS.	PIECES		
973567	1/2"	6	6	6	6	6	6	6	6	6	6	6	6	20	66	---
973568	3/4"	6	6	6	6	6	6	6	6	6	6	6	6	27	66	---
973569	1"	6		6	6	6	6	6	6	6	6	6	6	34	60	---

GALV.		LENGTH											WT. TOTAL			
		CLOSE	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	LBS.	PIECES		
973667	1/2"	6	6	6	6	6	6	6	6	6	6	6	6	20	66	---
973668	3/4"	6	6	6	6	6	6	6	6	6	6	6	6	27	66	---
973669	1"	6		6	6	6	6	6	6	6	6	6	6	34	60	---

STEEL TOTE TRAYS



PART #	SIZE	CAPACITY	LIST PRICE
990781	1/2"	77pcs	---
990782	3/4"	66pcs	---
990783	1"	50pcs	---
990786	1-1/4"	40pcs	---
990784	1-1/2"	30pcs	---
990785	2"	27pcs	---

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FITTINGS & NIPPLES

BLACK SCH 80 SEAMLESS

FITTINGS AND NIPPLES

EXTRA HEAVY SEAMLESS STEEL PIPE NIPPLES

1/8" - 27



1/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.094 - Grade B - Test Pressure 850 PSI - Thread Length 0.39

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59001SMLS	x Close	40/480	0.02	---
59002SMLS	x 1-1/2"	40/480	0.03	---
59003SMLS	x 2"	100/400	0.05	---
59004SMLS	2-1/2"	100/400	0.06	---
59005SMLS	x 3"	40/240	0.08	---
59006SMLS	x 3-1/2"	40/240	0.09	---
59007SMLS	x 4"	40/240	0.11	---
59009SMLS	x 5"	40/120	0.12	---
59010SMLS	x 5-1/2"	40/120	0.13	---
59011SMLS	x 6"	40/80	0.16	---

1/4" - 18



1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.119 - Grade B - Test Pressure 850 PSI - Thread Length 0.59

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59020SMLS	x Close (7/8")	40 / 480	0.03	---
59021SMLS	x 1-1/2"	100 / 400	0.06	---
59022SMLS	x 2"	100 / 400	0.08	---
59023SMLS	x 2-1/2"	80 / 320	0.10	---
59024SMLS	x 3"	40 / 240	0.12	---
59025SMLS	x 3-1/2"	40 / 240	0.15	---
59026SMLS	x 4"	40 / 240	0.17	---
59027SMLS	x 4-1/2"	40 / 120	0.19	---
59028SMLS	x 5"	40 / 120	0.21	---
59029SMLS	x 5-1/2"	40 / 80	0.24	---
59030SMLS	x 6"	40 / 80	0.26	---
59032SMLS	x 8"	40 / 80	0.35	---
59034SMLS	x 10"	40 / 80	0.44	---
59036SMLS	x 12"	40 / 80	0.53	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BLACK SCH 80 SEAMLESS

FITTINGS AND NIPPLES

3/8" - 18



3/8" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.126 - Grade B - Test Pressure 850 PSI - Thread Length 0.6

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59040SMLS	X Close (3/8")	40 / 480	0.05	---
59041SMLS	x 1-1/2"	100 / 400	0.08	---
59042SMLS	x 2"	100 / 400	0.11	---
59043SMLS	x 2-1/2"	80 / 320	0.14	---
59044SMLS	x 3"	40 / 240	0.17	---
59045SMLS	x 3-1/2"	40 / 240	0.20	---
59046SMLS	x 4"	40 / 240	0.23	---
59047SMLS	x 4-1/2"	40 / 160	0.26	---
59048SMLS	x 5"	40 / 120	0.29	---
59049SMLS	x 5-1/2"	40 / 120	0.32	---
59050SMLS	x 6"	40 / 80	0.35	---
59056SMLS	x 12"	40/80	0.65	---

1/2" - 14



1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.147 - Grade B - Test Pressure 850 PSI - Thread Length 0.78

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59060SMLS	X Close (1-1/8")	40 / 480	0.07	---
59061SMLS	x 1-1/2"	100 / 400	0.11	---
59062SMLS	x 2"	100 / 400	0.15	---
59063SMLS	x 2-1/2"	80 / 320	0.20	---
59064SMLS	x 3"	40 / 240	0.24	---
59065SMLS	x 3-1/2"	40 / 240	0.29	---
59066SMLS	x 4"	40 / 240	0.33	---
59067SMLS	x 4-1/2"	40 / 160	0.38	---
59068SMLS	x 5"	40 / 120	0.42	---
59069SMLS	x 5-1/2"	40 / 120	0.47	---
59070SMLS	x 6"	40 / 80	0.51	---
59071SMLS	x 7"	40 / 80	0.60	---
59072SMLS	x 8"	40 / 80	0.69	---
59074SMLS	x 10"	40 / 80	0.88	---
59076SMLS	x 12"	32 / 64	1.06	---

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BLACK SCH 80 SEAMLESS

FITTINGS AND NIPPLES

FITTINGS & NIPPLES



3/4" - 14

3/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.154 - Grade B - Test Pressure 850 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59080SMLS	X Close (1-3/8")	40/240	0.13	---
59081SMLS	x 1-1/2"	100/200	0.15	---
59082SMLS	x 2"	100/200	0.21	---
59083SMLS	x 2-1/2"	40/160	0.27	---
59084SMLS	x 3"	40/160	0.33	---
59085SMLS	x 3-1/2"	40/120	0.39	---
59086SMLS	x 4"	40/120	0.45	---
59087SMLS	x 4-1/2"	40/120	0.51	---
59088SMLS	x 5"	40/120	0.57	---
59089SMLS	x 5-1/2"	48/96	0.64	---
59090SMLS	x 6"	40/80	0.69	---
59091SMLS	x 7"	40/80	0.82	---
59092SMLS	x 8"	40/80	0.94	---
59094SMLS	x 10"	32/64	1.19	---
59096SMLS	x 12"	24/48	1.44	---



1" - 11 1/2

1" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.179 - Grade B - Test Pressure 850 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59100SMLS	X Close (1-1/2")	40 / 160	0.21	---
59101SMLS	x 2"	40 / 120	0.30	---
59102SMLS	x 2-1/2"	40 / 120	0.37	---
59103SMLS	x 3"	40 / 80	0.47	---
59104SMLS	x 3-1/2"	40 / 80	0.56	---
59105SMLS	x 4"	40 / 80	0.65	---
59106SMLS	x 4-1/2"	40 / 80	0.74	---
59107SMLS	x 5"	40 / 80	0.83	---
59108SMLS	x 5-1/2"	40 / 80	0.92	---
59109SMLS	x 6"	32 / 64	1.01	---
59110SMLS	x 7"	20 / 40	1.19	---
59111SMLS	x 8"	20 / 40	1.37	---
59112SMLS	x 9"	20 / 40	1.55	---
59113SMLS	x 10"	12 / 24	1.74	---
59115SMLS	x 12"	12 / 24	2.10	---

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BLACK SCH 80 SEAMLESS

FITTINGS AND NIPPLES



1-1/4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.191 - Grade B - Test Pressure 1900 PSI - Thread Length 1.01

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59120SMLS	X Close (1-5/8")	40 / 80	0.31	---
59121SMLS	x 2"	40 / 80	0.42	---
59122SMLS	x 2-1/2"	40 / 80	0.52	---
59123SMLS	x 3"	40 / 80	0.64	---
59124SMLS	x 3-1/2"	24 / 48	0.77	---
59125SMLS	x 4"	24 / 48	0.90	---
59126SMLS	x 4-1/2"	24 / 48	1.02	---
59127SMLS	x 5"	20 / 40	1.15	---
59128SMLS	x 5-1/2"	20 / 40	1.27	---
59129SMLS	x 6"	20 / 40	1.40	---
59130SMLS	x 7"	20 / 40	1.65	---
59131SMLS	x 8"	12 / 24	1.90	---
59132SMLS	x 9"	12 / 24	2.15	---
59133SMLS	x 10"	12 / 24	2.40	---
59134SMLS	x 11"	8 / 16	2.65	---
59135SMLS	x 12"	8 / 16	2.90	---



1-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.2 - Grade B - Test Pressure 1900 PSI - Thread Length 1.03

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59140SMLS	X Close (1-3/4")	40 / 80	0.41	---
59141SMLS	x 2"	32 / 64	0.51	---
59142SMLS	x 2-1/2"	32 / 64	0.64	---
59143SMLS	x 3"	32 / 64	0.78	---
59144SMLS	x 3-1/2"	20 / 40	0.94	---
59145SMLS	x 4"	20 / 40	1.09	---
59146SMLS	x 4-1/2"	20 / 40	1.23	---
59147SMLS	x 5"	20 / 40	1.39	---
59148SMLS	x 5-1/2"	16 / 32	1.54	---
59149SMLS	x 6"	12 / 24	1.69	---
59150SMLS	x 7"	12 / 24	2.00	---
59151SMLS	x 8"	12 / 24	2.30	---
59153SMLS	x 10"	8 / 16	2.90	---
59155SMLS	x 12"	8 / 16	3.51	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

BLACK SCH 80 SEAMLESS

FITTINGS AND NIPPLES



2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.218 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59160SMLS	X Close (2")	32/64	0.30	---
59161SMLS	x 2-1/2"	20 / 40	0.80	---
59162SMLS	x 3"	20 / 40	1.10	---
59163SMLS	x 3-1/2"	12 / 24	1.31	---
59164SMLS	x 4"	12 / 24	1.52	---
59165SMLS	x 4-1/2"	12 / 24	1.72	---
59166SMLS	x 5"	12 / 24	1.94	---
59167SMLS	x 5-1/2"	12 / 24	2.15	---
59168SMLS	x 6"	8 / 16	2.35	---
59169SMLS	x 7"	8 / 16	2.78	---
59170SMLS	x 8"	8 / 16	3.19	---
59171SMLS	x 9"	1 / 8	3.62	---
59172SMLS	x 10"	1 / 8	4.03	---
59173SMLS	x 11"	1 / 8	4.44	---
59174SMLS	x 12"	1 / 8	4.87	---
59197SMLS	x 24"	1/1	9.74	---



2-1/2" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.276 - Grade B - Test Pressure 2500 PSI - Thread Length 1.57

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59180SMLS	x Close (2-1/2")	1 / 16	1.25	---
59181SMLS	x 3"	1 / 16	1.57	---
59182SMLS	x 3-1/2"	1 / 16	1.82	---
59183SMLS	x 4"	1 / 16	2.15	---
59184SMLS	x 4-1/2"	1 / 16	1.75	---
59185SMLS	x 5"	1 / 16	2.78	---
59186SMLS	x 5-1/2"	1 / 8	2.25	---
59187SMLS	x 6"	1 / 8	3.41	---
59188SMLS	x 7"	1 / 8	3.89	---
59189SMLS	x 8"	1 / 8	4.69	---
59190SMLS	x 9"	1 / 8	5.34	---
59191SMLS	x 10"	1 / 6	5.97	---
59192SMLS	x 11"	1 / 6	4.89	---
59193SMLS	x 12"	1 / 5	7.26	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
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BLACK SCH 80 SEAMLESS

FITTINGS AND NIPPLES



3" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.3 - Grade B - Test Pressure 2500 PSI - Thread Length 1.64

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59200SMLS	X Close (2-5/8")	1 / 16	1.79	---
59201SMLS	x 3"	1 / 16	2.11	---
59202SMLS	x 3-1/2"	1 / 16	2.55	---
59203SMLS	x 4"	1 / 8	2.89	---
59204SMLS	x 4-1/2"	1 / 8	3.30	---
59205SMLS	x 5"	1 / 8	3.73	---
59206SMLS	x 5-1/2"	1 / 8	4.17	---
59207SMLS	x 6"	1 / 8	4.57	---
59209SMLS	x 8"	1 / 6	6.29	---
59211SMLS	x 10"	1 / 4	8.01	---
59212SMLS	x 11"	1 / 4	8.85	---
59213SMLS	x 12"	1 / 4	9.72	---



4" DIAMETER SCHEDULE 80 SEAMLESS

Wall Thickness 0.337 - Grade B - Test Pressure 2800 PSI - Thread Length 1.74

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59220SMLS	X Close (2-7/8")	1 / 8	2.91	---
59221SMLS	x 4"	1 / 6	4.26	---
59223SMLS	x 5"	1 / 5	5.49	---
59224SMLS	x 5-1/2"			
59225SMLS	x 6"	1 / 5	6.72	---
59227SMLS	x 8"	1 / 3	9.23	---
59228SMLS	9"			
59229SMLS	x 10"	1 / 3	11.73	---
59231SMLS	x 12"	1 / 3	14.24	---



6" DIAMETER

SCHEDULE 80 SEAMLESS



8" DIAMETER

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.		PART #		
			6"	8"			
59300SMLS	---	X Close	2	3.57	4.62	59320SMLS	---
59301SMLS	---	x 6"	2	14.29	16.91	59322SMLS	---
59305SMLS	---	x 8"	2	19.05	22.54	59324SMLS	---
59308SMLS	---	x 12"	2	28.57	34.18	59328SMLS	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK EXTRA HEAVY XXS SEAMLESS

FITTINGS AND NIPPLES



1/2" DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS
 Wall Thickness 0.294 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59060SMLSXX	x Close	100 / 200	0.31	---
59062SMLSXX	x 2"	100 / 200	0.58	---
59064SMLSXX	x 3"	50 / 100	0.62	---
59066SMLSXX	x 4"	50 / 100	0.66	---
59070SMLSXX	x 6"	25 / 50	0.75	---



3/4" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS
 Wall Thickness 0.308 - Grade B - Test Pressure 1000 PSI - Thread Length 0.79

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59080SMLSXX	x Close	40/240	0.55	---
59082SMLSXX	x 2"	50 / 100	0.62	---
59086SMLSXX	x 4"	25 / 50	0.68	---
59090SMLSXX	x 6"	25 / 50	0.71	---



1" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS
 Wall Thickness 0.358 - Grade B - Test Pressure 1000 PSI - Thread Length 0.98

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59100SMLSXX	x close	50 / 100	0.88	---
59101SMLSXX	x 2"	50 / 100	1.07	---
59103SMLSXX	x 3"	20/40	1.10	---
59105SMLSXX	x 4"	20 / 40	1.14	---
59109SMLSXX	x 6"	20 / 40	1.75	---



2" DIAMETER DIAMETER BLACK EXTRA HEAVY XXS SEAMLESS
 Wall Thickness 0.436 - Grade B - Test Pressure 2500 PSI - Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.	LIST PRICE
59160SMLSXX	x close	1 / 25	1.36	---
59161SMLSXX	x 2-1/2"	1 / 20	1.67	---
59162SMLSXX	x 3"	1 / 20	2.09	---
59163SMLSXX	x 3-1/2"	1 / 12	2.51	---
59164SMLSXX	x 4"	1 / 12	2.86	---
59166SMLSXX	x 5"	1/12	3.04	---
59168SMLSXX	x 6"	1 / 11	3.20	---
59170SMLSXX	x 8"	1 / 8	5.86	---
59172SMLSXX	x 10"	1 / 8	7.31	---
59174SMLSXX	x 12"	1 / 8	9.34	---

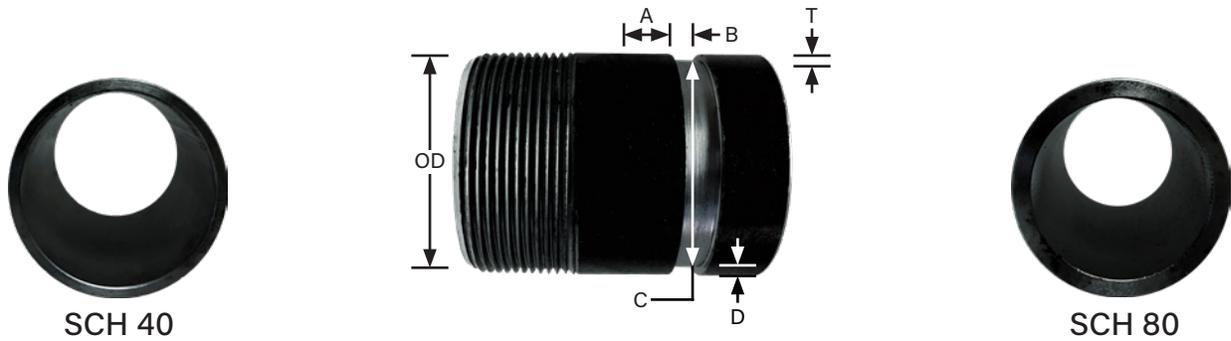
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov



SCH 40 AND SCH 80 GROOVE NIPPLES

FITTINGS AND NIPPLES

THREAD X GROOVE



2" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57162TV	---	50	0.70	x 3	1.03	40	59162TV	---
57164TV	---	30	0.97	x 4	1.40	24	59164TV	---
57168TV	---	20	1.64	x 6	2.41	16	59168TV	---
57170TV	---	20	2.15	x 8	3.20	16	59170TV	---
57172TV	---	10	2.80	x 10	3.65	8	59172TV	---
57174TV	---	10	3.45	x 12	4.01	8	59174TV	---

3" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57201TV	---	20	1.26	x 3	2.01	16	59201TV	---
57203TV	---	10	1.80	x 4	3.01	8	59203TV	---
57207TV	---	10	3.17	x 6	4.87	8	59207TV	---
57209TV	---	8	4.13	x 8	5.86	6	59209TV	---
57211TV	---	5	5.48	x 10	6.19	4	59211TV	---
57213TV	---	5	6.24	x 12	6.37	4	59213TV	---

4" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57222TV	---	8	2.40	x 3	4.11	6	59222TV	---
57223TV	---	8	2.52	x 4	4.15	6	59221TV	---
57227TV	---	6	4.30	x 6	6.52	5	59225TV	---
57229TV	---	4	5.63	x 8	7.18	3	59229TV	---
57332TV	---	4	7.90	x 10	11.74	3	59231TV	---
57228TV	---	4	8.25	x 12	14.24	3	59227TV	---

NOMINAL IPS PIPE SIZE	O.D. ACTUAL	GASKET SEAT "A"	GROOVE WIDTH "B"	GROOVE DIAMETER "C"	ACTUAL GROOVE DEPTH "D"
2	2.375	0.625	0.312	2.250	0.062
3	3.500	0.625	0.312	3.344	0.078
4	4.500	0.625	0.375	4.334	0.083

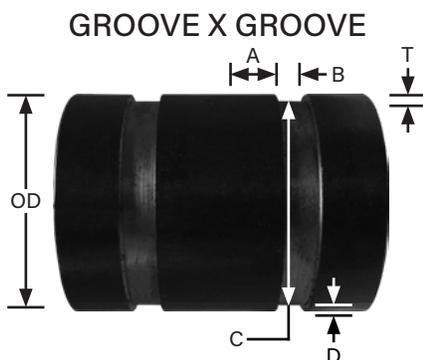
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK SCH 40 AND SCH 80 SEAMLESS GROOVE NIPPLES

FITTINGS AND NIPPLES



SCH 40



SCH 80

2" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57162V	---	50	0.70	x 3	1.03	40	59162V	---
57164V	---	30	0.97	x 4	1.40	24	59164V	---
57168V	---	20	1.64	x 6	2.41	16	59168V	---
57170V	---	20	2.15	x 8	3.20	16	59170V	---
57172V	---	10	2.80	x 10	3.65	8	59172V	---
57174V	---	10	3.45	x 12	4.01	8	59174V	---

3" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57201V	---	20	1.26	x 3	2.01	16	59201V	---
57203V	---	10	1.80	x 4	3.01	8	59203V	---
57207V	---	10	3.17	x 6	4.87	8	59207V	---
57209V	---	8	4.13	x 8	5.86	6	59209V	---
57211V	---	5	5.48	x 10	6.19	4	59211V	---
57213V	---	5	6.24	x 12	6.37	4	59213V	---

4" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #	LIST PRICE
57223V	---	8	2.52	x 4	4.15	6	59221V	---
57227V	---	6	4.35	x 6	6.52	5	59225V	---
57229V	---	4	5.63	x 8	7.18	3	59227V	---
57332V	---	4	7.90	x 10	11.74	3	59229V	---
57228V	---	4	8.25	x 12	14.24	3	59231V	---

SEAMLESS SCH 40 GROOVE X BEVEL NIPPLES



PART #	DIA. X LENGTH	
57162GBS	2 x 3	---
57201GBS	3 x 3	---
57222GBS	4 x 3	---
57400GBS	8 x 3	---
57500GBS	10 x 3	---
57600GBS	12 x 3	---

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MERCHANT COUPLINGS

FITTINGS AND NIPPLES

MERCHANT COUPLINGS

Product Specifications

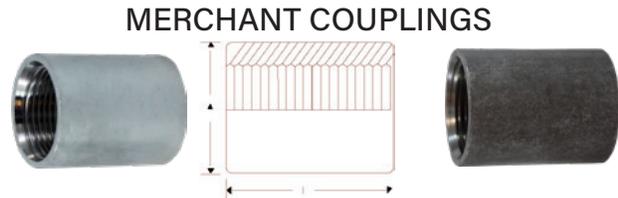
Welded steel couplings both galvanized and black in diameters from 1/8" up to 4".

Technical Specifications

Standards: Product complies with ASTM A865 and ANSI B1.20.1 for threading, dimensions and pipe specifications. Federal Spec WW-P-404

Pipe: Complies with ASTM A-53 milltested schedule 40 and 80. Meets ANSI B36.1. All pipe is hydrostatic tested.

Galvanized: Zinc coating applied by hot dipping. Galvanized complying with ASTM-A-123.



• Straight threads thru 2"

PART # GALV	LIST PRICE	SIZE	PART # BLACK	LIST PRICE
64770	---	1/8"	65770	---
64771	---	1/4"	65771	---
64772	---	3/8"	65772	---
64773	---	1/2"	65773	---
64774	---	3/4"	65774	---
64775	---	1"	65775	---
64776	---	1-1/4"	65776	---
64777	---	1-1/2"	65777	---
64778	---	2"	65778	---
64779	---	2-1/2"	65779	---
64780	---	3"	65780	---
64781	---	4"	65781	---
		5"	65782	---
		6"	65783	---

HALF MERCHANT COUPLINGS



• Straight threads thru 2"

PART # GALV	LIST PRICE	SIZE	PART # BLACK	LIST PRICE
		1/8"	65770H	
		1/4"	65771H	---
		3/8"	65772H	---
64773H	---	1/2"	65773H	---
64774H	---	3/4"	65774H	---
64775H	---	1"	65775H	---
64776H	---	1-1/4"	65776H	---
64777H	---	1-1/2"	65777H	---
64778H	---	2"	65778H	---
		2-1/2"	65779H	---
	---	3"	65780H	---
	---	4"	65781H	---



#304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE	LIST PRICE
61775	1	---
61776	1-1/4	---
61777	1-1/2	---
61778	2	---

Also available:
Extra Heavy Merchant Couplings

MERCHANT COUPLINGS SPECIFICATIONS

SIZE	OUTSIDE DIAM.	LENGTH	WEIGHT 100 PCS APPROX.	QUANTITY PER BOX	THREADS PER INCH	THREADS
		INCHES	POUNDS			TYPE
1/8"	.59"	.78	3.5	1000	27	Straight
1/4"	.73"	1.18	7.5	500	18	Straight
3/8"	.86"	1.18"	9	600	18	Straight
1/2"	1.063"	1-9/16"	13.0	100	14	Straight
3/4"	1.313"	1-5/8"	28.3	50	14	Straight
1"	1.576"	2"	40.1	30	11-1/2	Straight
1-1/4"	1.900"	2-1/16"	49.5	25	11-1/2	Straight
1-1/2"	2.17"	2-3/64"	71.48	25	11-1/2	Straight
2"	2.750"	2-1/8"	112.0	20	11-1/2	Straight
2-1/2"	3.250"	3-1/8"	231.2	8	8	Taper Tapped
3"	4.000"	3-1/4"	353.8	5	8	Taper Tapped
4"	5.000"	3-1/2"	471.8	4	8	Taper Tapped
6"	7.32	4"	1000.05	4	8	Taper Tapped

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FITTINGS & NIPPLES

API LINE PIPE

FITTINGS AND NIPPLES

API LINE COUPLINGS

A105 BLACK STEEL TAPER TAPPED COUPLINGS

Product Specifications

These couplings are manufactured in accordance with American Petroleum Institute specifications 5L & 5B.

All couplings are phosphated.

All sizes are taper tapped 3/4" per foot on the diameter.

*CERTIFIED BY THE AMERICAN PETROLEUM INSTITUTE



A105

- Black Steel
- API line API SL

- Each end has a short, unthreaded recess before the threads start.
- Use with sch 80 & sch. 160 nipples & pipe.
- Max. pressure: 3000PSI

API LINE PIPE COUPLINGS

PART #	NPT SIZE	THREADS PER INCH	OUTSIDE DIAMETER	LENGTH	UNIT WEIGHT	LIST PRICE
65770API	1/8"	27	0.563	1-1/16	0.04	---
65771API	1/4"	18	0.719	1-5/8	0.10	---
65772API	3/8"	18	0.875	1-5/8	0.13	---
65773API	1/2"	14	1.063	2-1/8	0.24	---
65774API	3/4"	14	1.313	2-1/8	0.35	---
65775API	1"	11.5	1.576	2-5/8	0.52	---
65776API	1-1/4"	11.5	2.054	2-3/4	1.00	---
65777API	1-1/2"	11.5	2.200	2-3/4	0.88	---
65778API	2"	11.5	2.875	2-7/8	1.83	---
65780API	3"	8	4.000	4-1/4	4.09	---
65781API	4"	8	5.200	4-1/2	7.59	---
65783API	6"	8	7.390	4-5/8	12.92	---
65784API	8"	8	9.625	5-3/4	23.18	---

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MALLEABLE FITTINGS

FITTINGS AND NIPPLES

MALLEABLE FITTINGS



- SATURATED STEAM PRESSURE 150 PSI @ 350°F
- MAX PRESSURE 300 PSI @ 150°F
- TEMP RANGE -20°F TO 350°F

ISO 9002 - CERTIFICATE OF QUALITY - UL/FM LISTED

Our quality fittings are made with care and attention to detail. With better molds we can reduce parting lines and rough edges resulting in better fluid flow. By using a low temperature galvanizing process the coating is more durable which means a longer lasting fitting. All Fittings are 100% Pressure Tested to 300# Class. (Every fitting is subjected to an underwater fitness test to ensure the highest quality)

SPECIFICATIONS

- MATERIAL: ASTM A 197 - Cuppla Malleable Iron, ASTM A 153 - Hot dipped galvanizing • Coating ASTM A164 LS
- DIMENSIONS: ANSI B 16.3 - Malleable Iron threaded fittings, ANSI B 16.14 - Ferrous Pipe Plugs, Bushings etc..., ANSI B 16.39 - Malleable Iron threaded pipe unions.
- THREADS: ANSI B 2.1 or BS 21 ASME B1.20.1 • RoHS Compliant • Tapered Threads
- Pressure - Saturated steam 150 PSI @350°F: Max pressure 300 PSI - 150°F
- Temperature range -20 - 350°F

MALLEABLE IRON - ANSI B 16.3				
F°	CLASS 150 PSIG	SIZES 1/4-1 300#	SIZES 1 1/4-2 300#	SIZES 2 1/4-3 300#
-200-150	300	2000	1500	1000
200	265	1785	1350	910
250	225	1575	1200	825
300	185	1360	1050	735
366*	150	1150	900	650

*Permissible for service temperature up to 366°F, reflecting the temperature of saturated steam at 150 psig.

STEEL FITTINGS



- 1010 Carbon Steel, 3/4 taper threads (see hydraulic section for 7/8 taper threads.)
- Finish or coating • Black Dipped in rust resistant • Galvanized, Zinc Plated (Inside and Out)

300LB MALLEABLE FITTINGS



- MAX. PRESSURE: 300 PSI WOG @ 72°F; 150 PSI WOG SATURATED STEAM
- MEET ANSI/ ASME B1.20.1 STANDARDS
 - BLACK MEET ASTM 197 STANDARDS

BULL PLUGS AND SWAGES



FLANGES



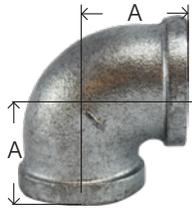
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

ELBOWS 90°



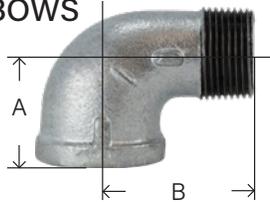
PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64100	---	1/8"	0.69	50/600	0.07	65100	---
64101	---	1/4"	0.81	35/420	0.10	65101	---
64102	---	3/8"	0.95	90/360	0.16	65102	---
64103	---	1/2"	1.12	50/200	0.23	65103	---
64104	---	3/4"	1.31	35/105	0.35	65104	---
64105	---	1"	1.50	20/60	0.57	65105	---
64106	---	1-1/4"	1.75	20/40	0.86	65106	---
64107	---	1-1/2"	1.94	15/30	1.31	65107	---
64108	---	2"	2.25	8/16	1.79	65108	---
64109	---	2-1/2"	2.70	6/12	3.35	65109	---
64110	---	3"	3.08	4/8	5	65110	---
64112	---	4"	3.79	1/2	9.02	65112	---
64114	---	6"	5.13	1/1	23.68	65114	---

REDUCING ELBOWS 90°



PART # GALVANIZED	LIST PRICE	SIZE	A	B	BOX/ CASE	AP-PROX. WT. LBS.	PART # BLACK	LIST PRICE
64123	---	3/8" x 1/4"	0.88	0.90	90/360	0.16	65122	---
64124	---	1/2" x 1/4"	0.97	0.98	60/240	0.21	65123	---
64126	---	1/2" x 3/8"	1.04	1.03	60/240	0.24	65124	---
64127	---	3/4" x 3/8"	1.12	1.13	40/160	0.31	65126	---
64127	---	3/4" x 1/2"	1.20	1.22	40/160	0.44	65127	---
64130	---	1" x 1/2"	1.26	1.40	25/100	0.52	65130	---
64131	---	1" x 3/4"	1.37	1.45	50/100	0.58	65131	---
64133	---	1-1/4" x 3/4"	1.45	1.62	15/120	0.79	65133	---
64134	---	1-1/4" x 1"	1.58	1.67	10/40	0.80	65134	---
64137	---	1-1/2" x 3/4"	1.52	1.75	10/40	0.88	65136	---
64137	---	1-1/2" x 1"	1.65	1.80	10/40	1.07	65137	---
64138	---	1-1/2" x 1-1/4"	1.82	1.88	15/30	1.12	65138	---
64140	---	2" x 3/4"					65139	---
64140	---	2" x 1"	1.73	2.02	14/28	1.41	65140	---
64141	---	2" x 1-1/4"	1.90	2.10	10/20	1.53	65141	---
64142	---	2" x 1-1/2"	2.02	2.16	10/20	1.65	65142	---
64145	---	2-1/2" x 1-1/2"	2.16	2.51	6/12	2.97	65145	---
64146	---	2-1/2" x 2"	2.39	2.60	6/12	3.18	65146	---
65150	---	3 x 2					65150	---
65151	---	3 x 2-1/2					65151	---

90° STREET ELBOWS



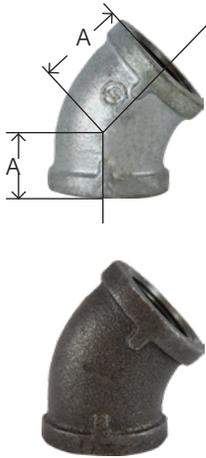
PART # GALVANIZED	LIST PRICE	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64160	---	1/8"	0.69	1.00	60/720	.06	65160	---
64161	---	1/4"	0.80	1.17	35/420	.10	65161	---
64162	---	3/8"	0.95	1.48	40/240	.15	65162	---
64163	---	1/2"	1.10	1.59	60/180	.22	65163	---
64164	---	3/4"	1.28	1.85	35/105	.39	65164	---
64165	---	1"	1.47	2.10	35/105	.60	65165	---
64166	---	1-1/4"	1.75	2.57	25/50	.95	65166	---
64167	---	1-1/2"	1.90	2.63	9/27	1.37	65167	---
64168	---	2"	2.21	3.19	8/16	2.25	65168	---
64169	---	2-1/2"	2.65	3.78	5/10	3.32	65169	---
64170	---	3"	3.02	4.42	4/8	5.27	65170	---
64171	---	4"	3.72	5.57	2/4	8.94	65171	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

ELBOWS 45°



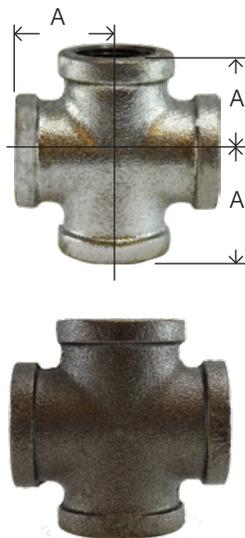
PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64180	---	1/8"	0.63	50/600	.07	65180	---
64181	---	1/4"	0.73	30/360	.10	65181	---
64182	---	3/8"	0.80	75/300	.14	65182	---
64183	---	1/2"	0.88	50/200	.21	65183	---
64184	---	3/4"	0.98	40/120	.33	65184	---
64185	---	1"	1.12	20/60	.50	65185	---
64186	---	1-1/4"	1.29	20/40	.74	65186	---
64187	---	1-1/2"	1.43	10/30	1.01	65187	---
64188	---	2"	1.68	12/24	1.53	65188	---
64189	---	2-1/2"	1.95	9/18	2.78	65189	---
64190	---	3"	2.17	1/10	4.49	65190	---
64191	---	4"	2.61	2/4	7.44	65191	---
64192	---	6"	3.46	1/1	18.63	65192	---

45° STREET ELBOWS



PART # GALVANIZED	LIST PRICE	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64200	---	1/8"	0.63	0.83	70/840	.05	65200	---
64201	---	1/4"	0.73	0.94	40/480	.09	65201	---
64202	---	3/8"	0.80	1.03	100/400	.14	65202	---
64203	---	1/2"	0.86	1.30	75/225	.19	65203	---
64204	---	3/4"	0.96	1.48	40/120	.28	65204	---
64205	---	1"	1.10	1.69	25/75	.48	65205	---
64206	---	1-1/4"	1.26	1.87	10/40	.71	65206	---
64207	---	1-1/2"	1.40	2.05	10/30	1.02	65207	---
64208	---	2"	1.65	2.38	12/24	1.68	65208	---
64209	---	2-1/2"	1.95	2.72	6/12	2.69	65209	---
64210	---	3"	2.17	3.16	3/6	4.61	65210	---
	---	4"	2.61	3.90	2/4	7.74	65211	---

CROSSES



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
	---	1/8"	0.65	50/600	.14	65390	---
64391	---	1/4"	0.80	60/240	.17	65391	---
64392	---	3/8"	0.95	50/150	.26	65392	---
64393	---	1/2"	1.12	30/90	.42	65393	---
64394	---	3/4"	1.31	20/60	.64	65394	---
64395	---	1"	1.50	15/30	.98	65395	---
64396	---	1-1/4"	1.75	10/20	1.45	65396	---
64397	---	1-1/2"	1.94	8/16	1.90	65397	---
64398	---	2"	2.25	5/10	2.96	65398	---
	---	3"	3.06	2/4	7.71	65400	---
	---	4"		1/1	14.77	65401	---

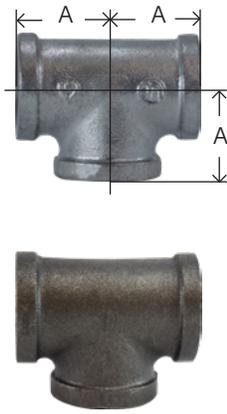
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

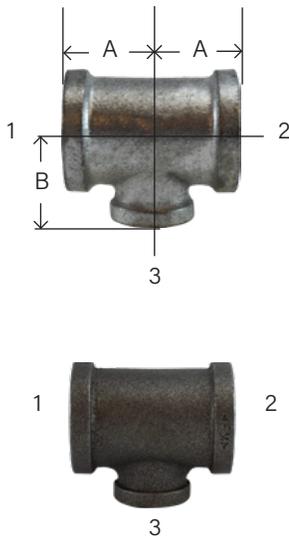
TEES



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64250	---	1/8"	0.69	120/480	.11	65250	---
64251	---	1/4"	0.81	75/300	.15	65251	---
64252	---	3/8"	0.95	45/180	.22	65252	---
64253	---	1/2"	1.12	40/120	.36	65253	---
64254	---	3/4"	1.31	35/70	.48	65254	---
64255	---	1"	1.50	20/40	.83	65255	---
64256	---	1-1/4"	1.75	14/28	1.29	65256	---
64257	---	1-1/2"	1.94	12/24	1.66	65257	---
64258	---	2"	2.26	8/16	2.50	65258	---
64259	---	2-1/2"	2.70	4/8	4.45	65259	---
64260	---	3"	3.08	1/6	6.72	65260	---
64261	---	4"	3.79	1/2	11.31	65261	---
64262	---	6"	5.13	1/1	30.75	65262	---

REDUCING TEES

(Same Size On Run, Reducing On Branch)



PART # GALVANIZED	LIST PRICE	SIZE (1&2) X 3	A	B	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
	---	3/8" x 1/4"	0.81	0.90	25/300	.18	65273	---
	---	1/2" x 1/4"	0.97	0.98	40/160	.24	65276	---
64279	---	1/2" x 3/8"	1.04	1.03	40/160	.35	65279	---
	---	3/4" x 1/4"	1.05	1.08	25/100	.43	65282	---
64286	---	3/4" x 1/2"	1.20	1.18	20/80	.49	65286	---
	---	1" x 1/4"	1.11	1.22	20/80	.51	65268	---
64269	---	1" x 3/8"	1.18	1.27	15/60	.55	65269	---
64291	---	1" x 1/2"	1.26	1.40	15/60	.63	65291	---
64298	---	1" x 3/4"	1.37	1.45	12/48	.71	65298	---
64301	---	1-1/4" x 1/2"	1.34	1.45	20/40	.91	65301	---
64303	---	1-1/4" x 3/4"	1.45	1.62	20/40	.99	65303	---
64306	---	1-1/4" x 1"	1.58	1.66	20/40	1.07	65306	---
64721	---	1-1/2" x 1/2"				1.12	65721	---
64316	---	1-1/2" x 3/4"	1.41	1.75	15/30	1.23	65316	---
64318	---	1-1/2" x 1"	1.65	1.88	10/30	1.33	65318	---
	---	1-1/2" x 1-1/4"	1.65	1.88	12/24	1.52	65322	---
64327	---	2" x 1/2"	1.49	1.88	10/20	1.64	65327	---
64328	---	2" x 3/4"	1.60	1.97	10/20	1.71	65328	---
64330	---	2" x 1"	1.73	2.02	10/20	1.88	65330	---
	---	2" x 1-1/4"	1.86	2.06	8/16	2.03	65334	---
64336	---	2" x 1-1/2"	1.98	2.12	8/16	2.22	65336	---
	---	2-1/2" x 1"				2.85	65342	---
	---	2-1/2" x 1-1/2"	2.16	2.51	5/10	2.97	65343	---
	---	3" x 1-1/2"				5.19	65359	---
64351	---	3" x 2"	2.52	2.89	3/6	5.35	65351	---

BULLHEAD TEES



PART # GALVANIZED	LIST PRICE	SIZE (1&2) X 3	A	B	BOX/CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64280	---	1/2" x 3/4"	1.22	1.20	30/120	.4	65280	---
64289	---	3/4" x 1"	1.45	1.37	20/120	.60	65289	---
64299	---	1" x 1-1/4"	1.67	1.58	15/30	.96	65299	---
64300	---	1" x 1-1/2"	1.80	1.65	9/36	1.11	65300	---
64317	---	1-1/4" x 1-1/2"	1.88	1.82	12/24	1.07	65317	---
64319	---	1-1/2" x 2"	2.12	1.98	8/32	2.10	65319	---
		2" x 1 1/4" x 2"					65335	

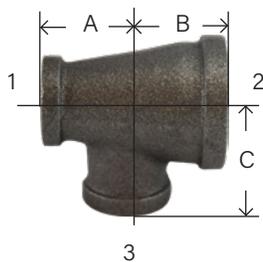
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

REDUCING TEES

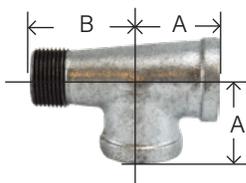
REDUCING ON RUN



PART #	SIZE 1 X 2 X 3	A	B	C	BOX/CASE	APPROX. WT. LBS.	LIST PRICE	PART # BLACK
64287	3/4" x 1/2" x 1/2"	1.18	1.18	1.20	25/100	0.39	---	65287
	3/4" x 1/2" x 3/4"	1.28	1.20	1.28	20/80	0.49	---	65288
	1" x 1/2" x 1/2"	1.31	1.22	1.31	20/80	0.51	---	65292
	1" x 1/2" x 3/4"	1.22	1.37	1.45	20/80	0.53	---	65293
	1" x 1/2" x 1"	1.40	1.50	1.50	15/60	0.54	---	65294
	1" x 3/4" x 1/2"	1.20	1.26	1.40	20/80	0.58	---	65295
64296	1" x 3/4" x 3/4"	1.34	1.28	1.42	15/60	0.63	---	65296
64297	1" x 3/4" x 1"	1.45	1.50	1.50	15/60	0.62	---	65297
	1-1/4" x 1/2" x 1"							65311
	1-1/4" x 1/2" x 1 1/4"							65314
	1-1/4" x 3/4" x 3/4"	1.31	1.45	1.64	10/40	0.66	---	65347
	1-1/4" x 3/4" x 1"							65348
	1-1/4" x 3/4" x 1-1/4"	1.62	1.75	1.75	10/40	1.14	---	65305
64309	1-1/4" x 1" x 1"	1.55	1.47	1.63	20/40	1.00	---	65309
	1-1/4" x 1" x 1/2"	1.26	1.34	1.53	20/40	1.10	---	65349
	1-1/4" x 1" x 3/4"							65350
	1-1/4" x 1" x 1-1/4"	1.30	1.36	1.44	15/30	1.21	---	65310
	1-1/2" x 3/4" x 1-1/2"							65281
64372	1-1/2" x 1" x 1"	1.50	1.65	1.78	15/30	1.28	---	65372
	1-1/2" x 1" x 1-1/2"							65323
	1-1/2" x 1-1/4" x 3/4"	1.43	1.52	1.25	15/30	1.30	---	65375
	1-1/2" x 1 1/4" x 1"							65325
	1-1/2" x 1-1/4" x 1-1/4"	1.75	1.82	1.88	15/30	1.35	---	65377
	2" x 3/4" x 2"							65267
	2" x 1" x 2"							65332
	2" x 1-1/4" x 1 1/4"							65302
	2" x 1-1/4" x 2"							65335
	2" x 1-1/2" x 1-1/4"	1.82	1.90	2.10	10/30	1.21	---	65312
	2" x 1-1/2" x 1-1/2"	1.94	2.02	2.16	10/30	1.79	---	65313
	2 x 1-1/2 x 2							65339

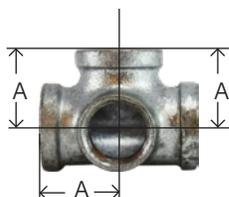
MALLEABLE SERVICE TEE

(STREET TEE)



PART # GALVANIZED	LIST PRICE	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64364	---	3/4"	1.31	1.89	25/75	0.49	65364	---

SIDE OUTLET TEES



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64383	---	1/2"	1.12	25/100	.39	65383	---
64385	---	1"	1.50	20/40	.88	65385	---
		1-1/2"	1.97	1/1	1.56	65387	---
		2"	2.29	1/1	1.81	65388	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

COUPLINGS



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64410	---	1/8"	0.96	70/840	.07	65410	---
64411	---	1/4"	1.06	40/480	.09	65411	---
64412	---	3/8"	1.16	40/480	.13	65412	---
64413	---	1/2"	1.34	60/240	.19	65413	---
64414	---	3/4"	1.52	50/150	.28	65414	---
64415	---	1"	1.67	25/100	.45	65415	---
64416	---	1-1/4"	1.93	16/64	.66	65416	---
64417	---	1-1/2"	2.15	18/36	.84	65417	---
64418	---	2"	2.54	12/24	1.39	65418	---
64419	---	2-1/2"	2.88	8/16	2.42	65419	---
64420	---	3"	3.18	1/12	3.49	65420	---
64421	---	4"	3.69	3/6	5.81	65421	---
64422	---	6"	4.23	1/2	28.62	65422	---

REDUCING COUPLINGS



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64430	---	1/4" x 1/8"	1.00	50/600	.07	65430	---
64431	---	3/8" x 1/8"	1.13	35/420	.09	65431	---
64432	---	3/8" x 1/4"	1.13	30/360	.11	65432	---
64433	---	1/2" x 1/8"	1.25	75/300	.13	65433	---
64434	---	1/2" x 1/4"	1.25	75/300	.11	65434	---
64435	---	1/2" x 3/8"	1.25	60/240	.15	65435	---
	---	3/4" x 1/8"	1.44	60/240	.18	65439	---
64436	---	3/4" x 1/4"	1.44	45/18	.19	65436	---
64437	---	3/4" x 3/8"	1.44	45/18	.21	65437	---
64438	---	3/4" x 1/2"	1.44	60/180	.25	65438	---
64459	---	1" x 1/4"	1.69	45/135	.34	65459	---
64440	---	1" x 3/8"	1.69	30/120	.35	65440	---
64441	---	1" x 1/2"	1.69	30/120	.36	65441	---
64442	---	1" x 3/4"	1.69	25/100	.39	65442	---
	---	1-1/4" x 3/8"	2.06	25/75	.55	65460	---
	---	1-1/4" x 1/2"	2.06	25/75	.53	65444	---
64445	---	1-1/4" x 3/4"	2.06	25/75	.57	65445	---
64446	---	1-1/4" x 1"	2.06	15/60	.61	65446	---
	---	1-1/2" x 3/8"	2.31	20/60	.71	65443	---
64447	---	1-1/2" x 1/2"	2.31	20/60	.69	65447	---
64448	---	1-1/2" x 3/4"	2.31	15/60	.71	65448	---
64449	---	1-1/2" x 1"	2.31	25/50	.78	65449	---
64450	---	1-1/2" x 1-1/4"	2.31	12/48	.87	65450	---
64458	---	2" x 1/2"	2.81	12/36	1.14	65458	---
64451	---	2" x 3/4"	2.81	12/36	1.14	65451	---
64452	---	2" x 1"	2.81	12/36	1.21	65452	---
64453	---	2" x 1-1/4"	2.81	9/27	1.19	65453	---
64454	---	2" x 1-1/2"	2.81	9/27	1.38	65454	---
		2 1/2" x 1"				65455	
		2 1/2" x 1 1/4"				65429	
64461	---	2-1/2" x 1-1/2"	3.25	20/40	2.07	65461	---
64462	---	2-1/2" x 2"	3.25	7/14	2.23	65462	---
64466	---	3" x 1"				65466	
64486	---	3" x 1-1/2"	3.69	6/12	3.23	65486	---
64456	---	3" x 2"	3.69	6/12	3.30	65456	---
64463	---	3" x 2-1/2"	3.69	5/10	3.55	65463	---
		4" x 1 1/2"				65468	
64464	---	4" x 2"	4.38	3/6	5.55	65464	---
64465	---	4" x 2-1/2"	4.38	3/6	5.90	65465	---
64457	---	4" x 3"	4.38	3/6	6.05	65457	---
		6" x 4"	4.24	1/2	10.86	65491	---

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BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

HEX BUSHING



Hex



* INSIDE HEX

PART # GALVANIZED	LIST PRICE	SIZE M X F	A	HEX	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64500	---	*1/4" x 1/8"	0.79	0.67	1/25	.03	65500	---
	---	*3/8" x 1/8"	0.79	0.75	1/25	.06	65501	---
64502	---	*3/8" x 1/4"	0.79	0.75	1/25	.05	65502	---
	---	1/2" x 1/8"	0.84	1.03	150/600	.09	65503	---
64504	---	1/2" x 1/4"				.08	65504	---
64505	---	1/2" x 3/8"	0.75	1.03	150/600	.07	65505	---
64506	---	3/4" x 1/8"	0.85	1.15	75/300	.14	65506	---
64507	---	3/4" x 1/4"	0.85	1.15	75/300	.13	65507	---
64508	---	3/4" x 3/8"	0.85	1.15	75/300	.12	65508	---
64509	---	3/4" x 1/2"	0.93	1.15	75/300	.10	65509	---
		1" x 1/8"					65557	
64510*	---	1" x 1/4"	1.13	1.12	50/200	.20	65510*	---
64511*	---	1" x 3/8"	1.13	1.12	50/200	.18	65511*	---
64512	---	1" x 1/2"	1.10	1.42	50/200	.21	65512	---
64513	---	1" x 3/4"	1.10	1.42	50/200	.17	65513	---
	---	1-1/4" x 1/4"	1.24	1.12	30/120	.29	65514*	---
	---	1-1/4" x 3/8"	1.24	1.12	30/120	.29	65515*	---
64516*	---	1-1/4" x 1/2"	1.24	1.24	30/120	.31	65516*	---
64517	---	1-1/4" x 3/4"	1.08	1.76	30/120	.35	65517	---
64518	---	1-1/4" x 1"	1.08	1.76	30/120	.29	65518	---
64519*	---	1-1/2" x 1/4"	1.30	1.12	25/75	.40	65519*	---
64520*	---	1-1/2" x 3/8"	1.30	1.12	25/75	.38	65520*	---
64521*	---	1-1/2" x 1/2"	1.30	1.34	25/75	.38	65521*	---
64522*	---	1-1/2" x 3/4"	1.30	1.44	25/75	.40	65522*	---
64523	---	1-1/2" x 1"	1.23	2.00	25/75	.45	65523	---
64524	---	1-1/2" x 1-1/4"	1.23	2.00	25/75	.34	65524	---
64526	---	2" x 1/4"	1.29	1.12	20/60	.57	65526	---
64525*	---	2" x 3/8"	1.28	1.12	20/60	.57	65525*	---
64527*	---	2" x 1/2"	1.39	1.34	20/60	.57	65527*	---
64528*	---	2" x 3/4"	1.39	1.63	20/60	.63	65528*	---
64529*	---	2" x 1"	1.39	1.77	20/60	.66	65529*	---
64530	---	2" x 1-1/4"	1.50	2.48	20/60	.74	65530	---
64531	---	2" x 1-1/2"	1.50	2.48	20/60	.61	65531	---
64546*	---	2-1/2" x 1/2"	1.51	1.34	15/30	.97	65546*	---
64547*	---	2-1/2" x 3/4"	1.51	1.63	15/30	.91	65547*	---
64532*	---	2-1/2" x 1"	1.51	1.95	15/30	.97	65532*	---
64533*	---	2-1/2" x 1-1/4"	1.51	2.39	15/30	1.03	65533*	---
64534	---	2-1/2" x 1-1/2"	1.51	2.98	15/30	1.16	65534	---
64535	---	2-1/2" x 2"	1.54	2.98	15/30	1.01	65535	---
64550	---	3" x 1"	1.61	1.95	12/24	1.41	65550	---
64549*	---	3" x 1-1/4"	1.61	2.39	12/24	1.42	65549*	---
64537*	---	3" x 1-1/2"	1.61	2.68	12/24	1.51	65537*	---
64538	---	3" x 2"	1.61	3.86	12/24	1.71	65538	---
64539	---	3" x 2-1/2"	1.61	3.86	12/24	1.68	65539	---
		3-1/2" x 3"	1.86	4.20	5/10	2.17	65555	---
64553*	---	4" x 1"	2.00	4.75	5/10	3.79	65553*	---
	---	4" x 1-1/4"	1.82	2.39	5/10	2.39	65552	---
64540	---	4" x 1-1/2"	1.82	2.68	5/10	2.39	65540	---
64541*	---	4" x 2"	1.82	3.31	5/10	2.52	65541*	---
64542*	---	4" x 2-1/2"	2.06	3.87	5/10	2.87	65542*	---
64543	---	4" x 3"	2.17	4.96	5/10	2.95	65543	---
		5" x 4"	2.16	5.34	2/4	6.80	65544	---
		6" x 2"					65558	
64549		6" x 3"					65559	
64545*	---	6" x 4"	2.33	5.79	2/4	7.11	65545*	---

Note: Add Dt To The Part# For A Double-Tapped Bushing

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

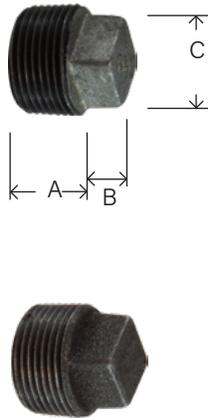
UNIONS

• Brass Seat



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64600	---	1/8"	1.26	60/240	.17	65600	---
64601	---	1/4"	1.44	20/240	.25	65601	---
64602	---	3/8"	1.61	40/160	.37	65602	---
64603	---	1/2"	1.72	50/100	.52	65603	---
64604	---	3/4"	1.94	35/70	.78	65604	---
64605	---	1"	2.06	20/40	1.18	65605	---
64606	---	1-1/4"	2.26	15/30	1.64	65606	---
64607	---	1-1/2"	2.41	10/20	2.08	65607	---
64608	---	2"	2.75	6/12	3.24	65608	---
64609	---	2-1/2"	3.22	4/8	5.31	65609	---
64610	---	3"	3.50	4/8	6.94	65610	---
64611	---	4"	3.85	2/4	12.02	65611	---

SQUARE HEAD PLUGS



PART # GALVANIZED	LIST PRICE	SIZE	A	B	C	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
		*1/8"	0.41	0.23	0.30	1/25	.02	65650	---
64651	---	*1/4"	0.48	0.28	0.38	1/25	.03	65651	---
64652	---	*3/8"	0.53	0.31	0.43	1/25	.04	65652	---
64653	---	1/2"	0.58	0.38	0.56	50/600	.08	65653	---
64654	---	3/4"	0.65	0.44	0.63	30/360	.13	65654	---
64655	---	1"	0.75	0.50	0.82	20/240	.22	65655	---
64656	---	1-1/4"	0.82	0.56	0.94	40/120	.33	65656	---
64657	---	1-1/2"	0.85	0.62	1.13	30/90	.41	65657	---
64658	---	2"	0.91	0.68	1.31	20/60	.68	65658	---
64659	---	2-1/2"	1.26	0.74	1.50	16/64	.89	65659	---
64660	---	3"	1.16	0.80	1.69	16/32	1.68	65660	---
64661	---	4"	1.22	1.00	2.28	6/12	3.02	65661	---
64662	---	6"	1.85	1.13	5.97	5/10	11.41	65662	---
		8"				1/1		65664	---

CAPS



PART # GALVANIZED	LIST PRICE	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
64470	---	1/8"	0.55	1/25	.03	65470	---
64471	---	1/4"	0.62	80/960	.07	65471	---
64472	---	3/8"	0.74	60/720	.08	65472	---
64473	---	1/2"	0.87	75/300	.13	65473	---
64474	---	3/4"	0.97	40/160	.18	65474	---
64475	---	1"	1.16	25/100	.30	65475	---
64476	---	1-1/4"	1.28	20/80	.47	65476	---
64477	---	1-1/2"	1.33	18/54	.66	65477	---
64478	---	2"	1.45	12/36	.99	65478	---
64479	---	2-1/2"	1.70	20/40	1.58	65479	---
64480	---	3"	1.80	12/24	2.51	65480	---
64481	---	4"	2.08	6/12	4.09	65481	---
64482	---	6"	2.55	2/4	5.18	65482	---

* Use steel fittings for smaller sizes. See Steel Fittings for Galvanized and Black Steel Fittings.

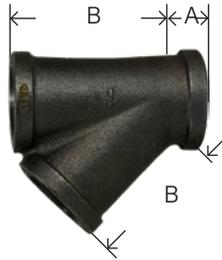
WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BLACK AND GALVANIZED IRON #150

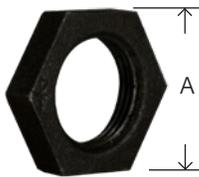
FITTINGS AND NIPPLES

LATERAL YS



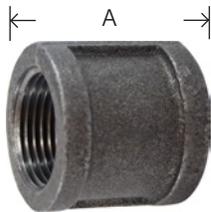
PART #	SIZE	A	B	CASE	WEIGHT	LIST PRICE	PART #
64963	1/2	2.32	1.71	120	.35	---	65963
64964	3/4	2.77	2.05	60	.58	---	65964
	1	3.28	2.42	40	.97	---	65965
	1-1/4	3.94	2.92	24	1.44	---	65966
	1-1/2	4.38	3.28	16	1.93	---	65967
64968	2	5.41	3.98	8	3.12	---	65968
	3	7.26	5.55	2	8.36	---	65970
	4	8.98	6.97	2	14.88	---	65971

LOCKNUTS *STRAIGHT THREAD



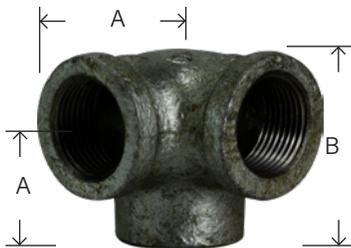
PART # GALV	LIST PRICE	SIZE	A HEX	THICKNESS	BOX/ CASE	WEIGHT	PART # BLACK	LIST PRICE
64703	---	1/2		0.31	150/600	0.08		---
64704	---	3/4		0.34	90/360	0.13	65704	---
64705	---	1		0.38	60/240	0.19		---
64706	---	1-1/4		0.42	45/180	0.27	65706	---
64707	---	1-1/2		0.47	45/135	0.47		---
64708	---	2		0.53	25/75	0.56		---

RIGHT & LEFT COUPLINGS



PART # GALV	LIST PRICE	SIZE	A	CASE	WEIGHT	PART # BLACK	LIST PRICE
		3/4	1.52	150	0.28	65574	---
		1	1.67	100	0.45	65575	---
		1-1/4	1.93	64	0.66	65576	---

SIDE OUTLET ELBOW



PART # GALV	LIST PRICE	SIZE	A	B	CASE	PART # BLACK	LIST PRICE
64583	---	1/2	1.10		135	65583	---
64584	---	3/4	1.30		80	65584	---
64585	---	1	1.50		40		

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

BLACK AND GALVANIZED IRON #150

FITTINGS AND NIPPLES

FLOOR FLANGES



PART # GALVANIZED	LIST PRICE	SIZE	A	THICK-NESS	HOLE SIZE	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
		3/8"						65690	
64692	---	1/2"	3.50	0.50	0.25	25/100	.63	65692	---
64693	---	3/4"	3.50	0.63	0.25	15/45	.73	65693	---
64694	---	1"	4.00	0.69	0.25	15/45	1.02	65694	---
64695	---	1-1/4"	4.00	0.75	0.25	15/30	1.00	65695	---
64696	---	1-1/2"	4.50	0.87	0.31	8/24	1.37	65696	---
64697		2"						65697	

MUSHROOM VENT CAP



PART #	SIZE	LIST PRICE
21174	3/4"	---
21175	1"	---
21176	1-1/2"	---
21177	1-1/2"	---
21178	2"	---
21179	3"	---
21180	4"	---

Cast Iron Galvanized Threaded Cap. 30 Mesh screen. Protects against driving rain, snow, sleet and insects.

DOUBLE TAPPED BUSHINGS



PART #	SIZE	
65518DT	1-1/4" x 1"	
65522DT	1-1/2" x 3/4"	
65523DT	1-1/2" x 1"	
65527DT	2" x 1/2"	
65528DT	2" x 3/4"	
65529DT	2" x 1"	
65530DT	2" x 1 1/4"	
65531DT	2" x 1-1/2"	
65541DT	4" x 2"	
65543DT	4" x 3"	

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL FITTINGS

FITTINGS AND NIPPLES

STEEL FITTINGS

This will certify that the material was manufactured in accordance with ASME B16.14 - 1991 Standards. All Threads are Dryseal (NPTF) - 3/4 inch taper per foot and are made of Carbon Steel 12L14. Pressure rating: 150/300 PSI

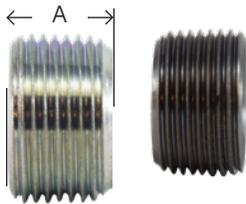
- Clear Zinc plating specifications ASTM B633-07
- Federal Specification QQ-Z-325 (Zinc Plate)
- Type III with supplemental clear Trivalent chromate
- .00015" Zinc (Minimum)
- ROHS Compliant
- Lead Free

HEX BUSHINGS



PART # ZINC	LIST PRICE	SIZE M X F	A	HEX	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66500	---	1/4" x 1/8"	0.63	0.62	0.02	67500	---
66501	---	3/8" x 1/8"	0.66	0.68	0.04	67501	---
66502	---	3/8" x 1/4"	0.66	0.68	0.02	67502	---
66503	---	1/2" x 1/8"	0.80	0.87	0.10	67503	---
66504	---	1/2" x 1/4"	0.80	0.87	0.08	67504	---
66505	---	1/2" x 3/8"	0.80	0.87	0.06	67505	---
66506	---	3/4" x 1/8"	0.94	1.06	0.18	67506	---
66507	---	3/4" x 1/4"	0.94	1.06	0.14	67507	---
66508	---	3/4" x 3/8"	0.94	1.06	0.14	67508	---
66509	---	3/4" x 1/2"	0.94	1.06	0.10	67509	---
66510	---	1" x 1/4"	1.00	1.31	0.16	67510	---
66511	---	1" x 3/8"	1.00	1.31	0.26	67511	---
66512	---	1" x 1/2"	1.00	1.31	0.22	67512	---
66513	---	1" x 3/4"	1.00	1.31	0.14	67513	---

FACE BUSHING



PART # ZINC	LIST PRICE	SIZE M X F	A	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
	---	1/4" x 1/8"	0.44	0.01	67700	---
	---	1/2" x 1/4"	0.56	0.04	67704	---
	---	1/2" x 3/8"	0.56	0.04	67705	---
	---	3/4" x 1/2"	0.62	0.10	67709	---
66713	---	1" x 3/4"	0.75	0.16	67713	---

CAPS



PART # ZINC	LIST PRICE	SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66470	---	1/8"	0.53	0.56	0.02	67470	---
66471	---	1/4"	0.63	0.62	0.04	67471	---
66472	---	3/8"	0.69	0.81	0.06	67472	---
66473	---	1/2"	0.87	1.00	0.12	67473	---
66474	---	3/4"	0.97	1.18	0.16	67474	---
	---	1"	1.16	1.50	0.30	67475	---
	---	1-1/4"	1.28	2.00	0.68	67476	---
	---	1-1/2"	1.35	2.25	0.83	67477	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

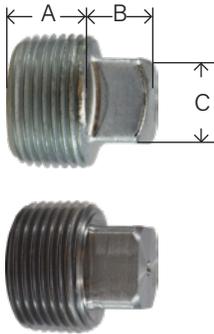
STEEL FITTINGS

FITTINGS AND NIPPLES

This will certify that the plugs are dimensional per SAE J531 MAY 95 Standards. All threads are Dryseal (NPTF) - 3/4" Taper per foot and are made of SAE J403 Low Carbon Steel 1010 Cold headed.

SQUARE HEAD PLUGS

• SOLID



PART # ZINC	LIST PRICE	SIZE NPTF	A	B	C	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66670	---	1/8"	0.33	0.24	0.28	0.01	67670	---
66671	---	1/4"	0.45	0.28	0.37	0.02	67671	---
66672	---	3/8"	0.50	0.31	0.43	0.04	67672	---
66653	---	1/2"	0.59	0.38	0.55	0.12	67653	---
66654	---	3/4"	0.63	0.44	0.62	0.18	67654	---
66655	---	1"	0.75	0.5	0.81	0.34	67655	---
66656	---	1-1/4"	0.80	0.56	0.93	0.62	67656	---
66657	---	1-1/2"	0.83	0.62	1.12	0.82	67657	---
66658	---	2"	0.88	0.68	1.31	1.36	67658	---

HEX HEAD PLUGS

• SOLID



PART # ZINC	LIST PRICE	SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66770	---	1/8"	0.55	0.43	0.01	67770	---
66771	---	1/4"	0.74	0.56	0.04	67771	---
66772	---	3/8"	0.67	0.68	0.06	67772	---
66773	---	1/2"	0.80	0.70	0.12	67773	---
66774	---	3/4"	0.94	1.06	0.18	67774	---
66775	---	1"	1.00	1.31	0.22	67775	---
66776	---	1-1/4"	1.17	1.75	0.7	67776	---
66777	---	1-1/2"	1.51	2.00	1.2	67777	---
66778	---	2"	1.65	2.50	2.06	67778	---

COUNTERSUNK PLUG - SQUARE SOCKET



PART # ZINC	LIST PRICE	SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66630	---	1/8"	0.29	0.19	0.01	67630	---
66631	---	1/4"	0.45	0.25	0.02	67631	---
66632	---	3/8"	0.45	0.31	0.04	67632	---
66633	---	1/2"	0.59	0.38	0.08	67633	---
66634	---	3/4"	0.60	0.50	0.12	67634	---
66635	---	1"	0.75	0.50	0.16	67635	---
66636	---	1-1/4"	0.80	0.75	0.32	67636	---
66637	---	1-1/2"	0.83	0.75	0.45	67637	---
66638	---	2"	0.88	0.875	2.06	67638	---

COUNTERSUNK PLUG - HEX SOCKET



PART # ZINC	LIST PRICE	SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK	LIST PRICE
66760	---	1/16"	0.29	0.15	0.01	67760	---
66761	---	1/8"	0.29	0.18	0.01	67761	---
66762	---	1/4"	0.44	0.25	0.02	67762	---
66763	---	3/8"	0.44	0.31	0.04	67763	---
66764	---	1/2"	0.59	0.37	0.08	67764	---
66765	---	3/4"	0.60	0.56	0.14	67765	---
66766	---	1"	0.75	0.625	0.22	67766	---
66767	---	1-1/4"	0.80	0.75	0.37	67767	---
66768	---	1-1/2"	0.83	1.0	0.45	67768	---
66769	---	2"	0.88	1.0	0.86	67769	---

• SLOTTED AND FLUSH PLUGS AVAILABLE UPON REQUEST

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BLACK EXTRA HEAVY 300# IRON

FITTINGS AND NIPPLES

300# MALLEABLE

90° ELBOW



PART #	SIZE	LIST PRICE
69101	1/4"	---
69102	3/8"	---
69103	1/2"	---
69104	3/4"	---
69105	1"	---
69106	1-1/4"	---
69107	1-1/2"	---
69108	2"	---

45° ELBOW



PART #	SIZE	LIST PRICE
69181	1/4"	---
69182	3/8"	---
69183	1/2"	---
69184	3/4"	---
69185	1"	---
69186	1-1/4"	---
69187	1-1/2"	---
69188	2"	---

90° STREET ELBOW



PART #	SIZE	LIST PRICE
69161	1/4"	---
69162	3/8"	---
69163	1/2"	---
69164	3/4"	---
69165	1"	---
69166	1-1/4"	---
69167	1-1/2"	---
69168	2"	---

TEE



PART #	SIZE	LIST PRICE
69252	3/8"	---
69253	1/2"	---
69254	3/4"	---
69255	1"	---
69256	1-1/4"	---
69257	1-1/2"	---
69258	2"	---

COUPLING



PART #	SIZE	LIST PRICE
69411	1/4"	---
69412	3/8"	---
69413	1/2"	---
69414	3/4"	---
69415	1"	---
69416	1-1/4"	---
69417	1-1/2"	---
69418	2"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

FITTINGS & NIPPLES

BLACK EXTRA 300# IRON

FITTINGS AND NIPPLES

REDUCING COUPLING



PART #	SIZE	LIST PRICE
69432	3/8 x 1/4"	---
69434	1/2 x 1/4"	---
69435	1/2 x 3/8"	---
69438	3/4 x 1/2"	---
69441	1 x 1/2"	---
69442	1 x 3/4"	---

CAP



PART #	SIZE	LIST PRICE
69471	1/4"	---
69472	3/8"	---
69473	1/2"	---
69474	3/4"	---
69475	1"	---
69476	1-1/4"	---
69477	1-1/2"	---
69478	2"	---

UNION

• BRASS SEAT



PART #	SIZE	LIST PRICE
69600	1/8"	---
69601	1/4"	---
69602	3/8"	---
69603	1/2"	---
69604	3/4"	---
69605	1"	---
69606	1-1/4"	---
69607	1-1/2"	---
69608	2"	---

STEEL MAGNETIC PLUGS

STEEL MAGNETIC DRAIN PLUGS - NPT THREADED

Magnetic Drain Plugs are similar to standard pipe or straight thread drain plugs with one important difference - a permanent magnet is fastened to the plug body. This magnet attracts and holds abrasive, ferrous metal particles preventing their circulation through the lubrication or hydraulic system.

These abrasive, ferrous metal particles appear in lubricating or hydraulic systems as a result of the following conditions:

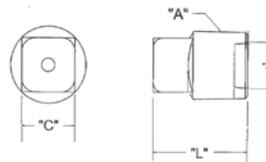
- The constant flaking effect of normal wear of moving parts.
- Particles not removed by flushing operations after boring or machining.
- Chipping due to sub-surface casting flaws.
- Minute component breakdown caused by stress usage.

Magnetic Drain Plugs prevent excessive wear to the system's components.

Magnetic Plugs are used by numerous manufacturers of gear boxes, transmissions, engines, and hydraulic systems for the automotive, aircraft, agricultural and machinery industries.

Typical applications include:

- Outboard Engines
- Earthmoving Equipment
- Combines
- Balers
- Crawler Tractors
- Lift Trucks
- Mining Equipment
- Military Vehicles
- Turbine Engines
- Truck Axles
- Heavy-Duty Transmissions



PART	SIZE "A"	HEAD WIDTH "C"	RECESS DIA. "H"	O/L LENGTH "L"	LIST PRICE
28996	3/8 - 18	.428 - .440	.435 - .445	.805 - .860	---
28997	1/2 - 14	.553 - .565	.560 - .570	.970 - 1.04	---
28998	3/4 - 14	.615 - .627	.725 - .735	1.120 - 1.170	---
28999	1-11/2	.803 - .815	.895 - .905	1.25 - 1.33	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BULL PLUGS AND SWAGS

FITTINGS AND NIPPLES

BULL PLUGS AND SWAGES

STANDARD BULL PLUG

- SCH 40 150#
- ZINC PLATED



PART #	DESCRIPTION	LIST PRICE
91008	2"	---
	2" w/ 1/2" TAP	---
	2-1/2"	---
	3"	---
91011	4"	---

XH BULL PLUG

- MADE FROM SCH. 80 PIPE.
- ZINC PLATED
- HOLLOW



PART #	DESCRIPTION	LIST PRICE
	1/4"	---
90005	1"	---
	1-1/4"	---
	1-1/2"	---
90008	2"	---
90212	2" w/ 1/2" TAP	---
93212*	2"XXH w/1/2" TAP	---
	2-1/2"	---
90010	3"	---
90215	3" w/ 1/2" TAP	---
90011	4"	---

* XXH

STANDARD SCH. 40 SWAGE MIP X MIP

- ZINC PLATED



PART #	DESCRIPTION	LIST PRICE
93113	1-1/4" x 1"	---
93121	2" x 1"	---
93123	2" x 1-1/2"	---
	2-1/2" x 2"	---
93124	3" x 1"	---
93127	3" x 1-1/2"	---
93128	3" x 2"	---
	3" x 2-1/2"	---
93130	4" x 2"	---
93131	4" x 3"	---
93139	6" x 3"	---

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FITTINGS & NIPPLES

SWAGES

FITTINGS AND NIPPLES

SCH 80 XH SWAGES MIP X MIP



* HEX STYLE



XXH SWAGE



PART #	DESCRIPTION	LIST PRICE
	1/4" x 1/8"	---
90102	1/2" x 1/4"	---
90103*	1/2" x 3/8"	---
90104*	3/8" x 1/4"	---
90105*	3/4" x 1/4"	---
90106*	3/4" x 3/8"	---
90107*	3/4" x 1/2"	---
	1" x 1/4"	---
	1" x 3/8"	---
90110*	1" x 1/2"	---
90111*	1" x 3/4"	---
90140	1-1/4" x 3/4"	---
90141	1-1/4" x 1"	---
90114	1-1/2" x 1/2"	---
90115	1-1/2" x 3/4"	---
90116	1-1/2" x 1"	---
90117	1-1/2" x 1-1/4"	---
	2" x 1/4"	---
90119	2" x 1/2"	---
90120	2" x 3/4"	---
90121	2" x 1"	---
90122	2" x 1-1/4"	---
90123	2" x 1-1/2"	---
90124	2-1/2" x 2"	---
	3" x 1"	---
90128	3" x 2"	---
	3" x 2-1/2"	---
	4" x 1"	---
90130	4" x 2"	---
90131	4" x 3"	---
90132	6" x 4"	---
	6" x 2"	---
90150	6" x 3"	---

PART #	DESCRIPTION	LIST PRICE
	1/2" x 1/4"	---
92107	3/4" x 1/2"	---
	1" x 1/4"	---
	1" x 3/8"	---
	1" x 3/4"	---
	1-1/2" x 1/2"	---
	1-1/2" x 3/4"	---
92116	1-1/2" x 1"	---
	2" x 1/2"	---
	2" x 3/4"	---
92121	2" x 1"	---
	2" x 1-1/4"	---
	2" x 1-1/2"	---
92128	3" x 2"	---


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PLASTIC FITTINGS



PIPE FITTINGS



- Nylon
- Polyethylene
- Polypropylene

HOSE BARB FITTINGS



- Nylon
- Polyethylene
- Polypropylene

NYLON & POLYPROPYLENE COMPRESSION FITTINGS



GARDEN HOSE FITTINGS



- Nylon

POLYPROPYLENE PUSH-IN TUBE FITTINGS AND VALVES



PLASTIC PIPE

PLASTIC FITTINGS

PIPE-NYLON POLY

AVAILABLE IN THREE TYPES OF PLASTIC

(W) White Nylon

Made from virgin grade formulated to resist physical stress and abrasion. This material meets F.D.A. requirements of Code of Federal Regulation part 177.1500 and is therefore suitable for food contact surfaces.

Temperature Range: -40°F to 200° F

Working Pressure: 125 PSI maxi-

mum.

(B) Black Polyethylene

Made from a high molecular weight linear polyethylene formulated for chemical compatibility and high impact resistance at lower temperatures. Polyethylene is NSF approved for potable water.

Temperature Range: -65°F to 190°F

Working Pressure: 125 PSI maximum.

(P) Polypropylene

Made from the finest polypropylene resins. Polypropylene is used for its resistance to a wide range of chemicals. Working pressures decrease as temperatures increase.

- NSF-approved materials
- FDA-approved materials

Note: Do not use with compressed air or gas.

- 10% Fiberglass fill for extra strength

ELBOW



P

POLYPROPYLENE ELBOWS

PART #	SIZE	LIST PRICE
28704P	3/4"	---



W

NYLON ELBOWS

PART #	SIZE	LIST PRICE
28703W	1/2"	---
28704W	3/4"	---
28705W	1"	---
28706W	1-1/4"	---
28707W	1-1/2"	---

TEE



P

POLYPROPYLENE TEES

PART #	SIZE	LIST PRICE
28742P	3/8"	---
28743P	1/2"	---
28744P	3/4"	---



W

NYLON TEES

PART #	SIZE	LIST PRICE
28741W	1/4"	---
28743W	1/2"	---
28744W	3/4"	---
28745W	1"	---
28746W	1-1/4"	---
28747W	1-1/2"	---

STREET ELBOW



P

POLYPROPYLENE STREET ELBOW

PART #	SIZE	LIST PRICE
28819P	1/8"	---
28723P	1/2"	---



W

NYLON STREET ELBOW

PART #	SIZE	LIST PRICE
28819W	1/8"	---
28720W	1/4"	---
28721W	3/8"	---
28723W	1/2"	---
28724W	3/4"	---
28725W	1"	---
28726W	1-1/4"	---
28727W	1-1/2"	---

HEX HEAD PLUGS



- Cored

B

POLYETHYLENE PLUGS

PART #	SIZE	LIST PRICE
28601B	1/8"	---
28602B	1/4"	---
28603B	3/8"	---
28604B	1/2"	---
28605B	3/4"	---



W

NYLON PLUGS

PART #	SIZE	LIST PRICE
28601W	1/8"	---
28602W	1/4"	---
28603W	3/8"	---
28604W	1/2"	---
28605W	3/4"	---
28606W	1"	---
28607W	1-1/4"	---
28608W	1-1/2"	---
28609W	2"	---

PLASTIC PIPE

PLASTIC FITTINGS

HEX BUSHING

P



POLYPROPYLENE BUSHINGS

PART #	SIZE	LIST PRICE
28659P	1/4 x 1/8"	---
28660P	3/8 x 1/8"	---
28661P	3/8 x 1/4"	---
28663P	1/2 x 1/4"	---
28664P	1/2 x 3/8"	---
28666P	3/4 x 1/4"	---
28668P	3/4 x 1/2"	---
28671P	1 x 1/2"	---
28672P	1 x 3/4"	---
28675P	1-1/4" x 1"	---
28678P	1-1/2 x 3/4"	---
28816P	2 x 1-1/4"	---
28818P	3 x 2"	----

W



NYLON BUSHINGS

PART #	SIZE	LIST PRICE
28659W	1/4 x 1/8"	---
28660W	3/8 x 1/8"	---
28661W	3/8 x 1/4"	---
28663W	1/2 x 1/4"	---
28664W	1/2 x 3/8"	---
28666W	3/4 x 1/4"	---
28667W	3/4 x 3/8"	---
28668W	3/4 x 1/2"	---
28671W	1 x 1/2"	---
28672W	1 x 3/4"	---
28674W	1-1/4 x 3/4"	---
28675W	1-1/4 x 1"	---
28678W	1-1/2 x 3/4"	---
28679W	1-1/2 x 1"	---
28680W	1-1/2 x 1-1/4"	---
28682W	2 x 3/4"	---
28683W	2 x 1"	---
28685W	2 x 1-1/2"	---

HEX NIPPLES

B



POLYETHYLENE HEX NIPPLES

PART #	SIZE	LIST PRICE
28611B	1/8"	---
28612B	1/4"	---
28613B	3/8"	---
28614B	1/2"	---

P



POLYPROPYLENE HEX NIPPLES

PART #	SIZE	LIST PRICE
28614P	1/2"	---
28615P	3/4"	---
28619P	2"	---

W



NYLON HEX NIPPLES

PART #	SIZE	LIST PRICE
28611W	1/8"	---
28612W	1/4"	---
28613W	3/8"	---
28614W	1/2"	---
28615W	3/4"	---
28616W	1"	---
28617W	1 1/4 "	---
28618W	1 1/2"	---
28619W	2"	----

REDUCER NIPPLES

B



POLYETHYLENE HEX NIPPLES

PART #	SIZE	LIST PRICE
28623B	1/2 x 1/4"	---
28625B	3/4 x 1/2"	---

W



NYLON REDUCING HEX NIPPLES

PART #	SIZE	LIST PRICE
28620W	1/4 x 1/8"	---
28622W	3/8 x 1/4"	---
28663W	1-1/4 x 1"	---

P = Polypropylene

W = White Nylon

B = Black Polyethylene

PLASTIC PIPE/ HOSE BARB

PLASTIC FITTINGS

COUPLING



W

NYLON COUPLINGS

PART #	SIZE	LIST PRICE
28762W	3/8"	---
28763W	1/2"	---
28764W	3/4"	---
28765W	1"	---
28767W	1-1/2"	---
28768W	2"	---

PIPE CAP



W

NYLON CAPS

PART #	SIZE	LIST PRICE
28640W	1/4"	---
28641W	3/8"	---
28642W	1/2"	---
28643W	3/4"	---

MALE ADAPTERS



B

POLYETHYLENE BARB X MALE

PART #	SIZE	LIST PRICE
33004B	1/4 x 1/8"	---
33005B	1/4 x 1/4"	---
33007B	1/4 x 1/2"	---
33012B	3/8 x 1/4"	---
33013B	3/8 x 3/8"	---
33014B	3/8 x 1/2"	---
33026B	3/8 x 3/4"	---
33015B	1/2 x 1/4"	---
33016B	1/2 x 3/8"	---
33017B	1/2 x 1/2"	---
33018B	1/2 x 3/4"	---
33020B	5/8 x 1/2"	---
33021B	5/8 x 3/4"	---
33022B	3/4 x 1/2"	---
33023B	3/4 x 3/4"	---
33024B	1 x 3/4"	---
33025B	1 x 1"	----

PLASTIC BULKHEAD



P

20% Glass Filled Polypropylene
w/ Santoprene Gasket

PART #	FPT	HOLE	LIST PRICE
28693P	1/2"	1-3/8"	---
28694P	3/4"	1-3/8"	---
28695P	1"	1-3/4"	---
28696P	1-1/4"	2"	---
28697P	1-1/2"	3"	---
28698P	2"	3"	---
28699P	3"	4-1/2"	---

P = Polypropylene

W = White Nylon

B = Black Polyethylene



P

POLYPROPYLENE HOSE BARB HOSE ID X MIP

PART #	SIZE	LIST PRICE
33012P	3/8 x 1/4"	---
33013P	3/8 x 3/8"	---
33014P	3/8 x 1/2"	---
33015P	1/2 x 1/4"	---
33016P	1/2 x 3/8"	---
33017P	1/2 x 1/2"	---
33018P	1/2 x 3/4"	---
33020P	5/8 x 1/2"	---
33022P	3/4 x 1/2"	---
33023P	3/4 x 3/4"	---
33000P	3/4 x 1"	---
33024P	1 x 3/4"	---
33025P	1 x 1"	---

PLASTIC BARBS

PLASTIC FITTINGS

W



NYLON BARB MALE ADAPTERS
HOSE ID X MIP

PART #	SIZE	LIST PRICE
33002W	3/16 x 1/8"	---
33003W	3/16 x 1/4"	---
33004W	1/4 x 1/8"	---
33005W	1/4 x 1/4"	---
33006W	1/4 x 3/8"	---
33007W	1/4 x 1/2"	---
33380W	1/4 x 3/4"	---
33008W	5/16 x 1/8"	---
33009W	5/16 x 1/4"	---
33010W	5/16 x 3/8"	---
33011W	3/8 X 1/8"	---
33012W	3/8 x 1/4"	---
33013W	3/8 x 3/8"	---
33014W	3/8 x 1/2"	---
33026W	3/8 x 3/4"	---
33015W	1/2 x 1/4"	---
33016W	1/2 x 3/8"	---
33017W	1/2 x 1/2"	---
33018W	1/2 x 3/4"	---
33019W	5/8 x 3/8"	---
33020W	5/8 x 1/2"	---
33021W	5/8 x 3/4"	---
33306W	3/4" x 3/8"	---
33022W	3/4 x 1/2"	---
33023W	3/4 x 3/4"	---
33000W	3/4 x 1"	---
33024W	1 x 3/4"	---
33025W	1 x 1"	---
33029W	1 x 1-1/4"	---
33320W	1" x 1-1/2"	---
33028W	1-1/4 x 1"	---
33030W	1-1/4 x 1-1/4"	---
33032W	1-1/4 x 1-1/2"	---
33321W	1-1/2" x 1-1/4"	---
33033W	1-1/2 x 1-1/2"	---
33322W	2" x 1-1/2"	----
33035W	2 x 2"	----

ELBOWS

B



POLYETHYLENE ELBOWS
HOSE ID X MALE PIPE

PART #	SIZE	LIST PRICE
33308B	3/16 x 1/8	---
33038B	1/4 x 1/8	---
33039B	1/4 x 1/4	---
33046B	3/8 x 1/8	---
33041B	3/8 x 1/4	---
33042B	3/8 x 3/8	---
33047B	3/8 x 1/2	---
33043B	1/2 x 3/8	---
33311B	1/2 x 1/2	---
33385B	1/2 x 3/4	---
33045B	5/8 x 1/2	---
33312B	5/8 x 3/4	---
33313B	3/4 x 1/2	---
33314B	3/4 x 3/4	---
33316B	1 x 1	----

P



POLYPROPYLENE BARB ELBOW

PART #	SIZE	LIST PRICE
33311P	1/2 x 1/2	---
33385P	1/2 x 3/4	---
33313P	3/4 x 1/2	---
33314P	3/4 x 3/4	---
33316P	1 x 1	---
33461P	1-1/4 x 1-1/4	---
33463P	1-1/2 x 1-1/2	---

W



NYLON BARB X MIP ELBOWS

PART #	SIZE	LIST PRICE
33038W	1/4 x 1/8	---
33039W	1/4 x 1/4	---
33351W	1/4 x 1/2	---
33046W	3/8 x 1/8	---
33041W	3/8 x 1/4	---
33042W	3/8 x 3/8	---
33047W	3/8 x 1/2	---
33384W	3/8 x 3/4	---
33048W	1/2 x 1/4	---
33043W	1/2 x 3/8	---
33311W	1/2 x 1/2	---
33385W	1/2 x 3/4	---
33044W	5/8 x 3/8	---
33045W	5/8 x 1/2	---
33312W	5/8 x 3/4	---
33313W	3/4 x 1/2	---
33314W	3/4 x 3/4	---
33315W	3/4 x 1	---
33386W	1x3/4	---
33316W	1 x 1	---
33460W	1 x 1-1/4	---
33461W	1-1/4 x 1-1/4	---
33462W	1-1/2 x 1-1/4	---
33463W	1-1/2 x 1-1/2	---
33464W	2 x 2	---

- P** = Polypropylene
- W** = White Nylon
- B** = Black Polyethylene

PLASTIC BARBS

PLASTIC FITTINGS

HOSE BARB X FE ADAPTERS



B

POLYETHYLENE ADAPTER
HOSE ID X FIP

PART #	SIZE	LIST PRICE
33053B	1/4 x 1/4"	---



W

NYLON ADAPTER
BARB X FIP

PART #	SIZE	LIST PRICE
33052W	1/4 x 1/8"	---
33053W	1/4 x 1/4"	---
33058W	3/8 x 1/4"	---
33059W	3/8 x 3/8"	---
33060W	3/8 x 1/2"	---
33442W	3/8 x 3/4"	---
33062P	1/2 x 3/8"	----
33061W	1/2 x 1/2"	---
33067W	1/2 x 3/4"	---
33068W	5/8 x 1/2"	---
33063W	5/8 x 3/4"	---
33064W	3/4 x 1/2"	---
33065W	3/4 x 3/4"	----
33396B	3/4 x 3/4"	---

HOSE BARB X FE ELBOW



P

W

NYLON ELBOW
HOSE ID X FEMALE PIPE

PART #	SIZE	LIST PRICE
33343W	1/2 x 1/2"	---
33344P	5/8 x 3/4"	---
33470W	5/8 x 1/2"	---
33345W	3/4 x 1/2"	---
33471W	3/4 x 3/4"	---

UNION ELBOWS



B

POLYETHYLENE ELBOW

PART #	SIZE	LIST PRICE
33390B	1/4	---
33391B	3/8	---
33394B	1/2	---
33395B	5/8	---
33396B	3/4	---



W

NYLON ELBOW

PART #	SIZE	LIST PRICE
33390W	1/4	---
33391W	3/8	---
33394W	1/2	---
33395W	5/8	---
33396W	3/4	---
33397W	1	---
33398W	1-1/4	---
33399W	1-1/2	---
33389W	2	----

SPLICERS



B

POLYETHYLENE SPLICER

PART #	SIZE	LIST PRICE
33091B	1/8	---
33092B	3/16	---
33093B	1/4	---
33095B	3/8	---
33096B	1/2	---
33097B	5/8	---
33098B	3/4	----



POLYPROPYLENE SPLICER

PART #	SIZE	LIST PRICE
33095P	3/8	---
33096P	1/2	---
33098P	3/4	---
33099P	1	---

SPLICERS



W

NYLON SPLICES

PART #	SIZE	LIST PRICE
33091W	1/8	---
33092W	3/16	---
33093W	1/4	---
33094W	5/16	---
33095W	3/8	---
33096W	1/2	---
33097W	5/8	---
33098W	3/4	---
33099W	1	---
33480W	1-1/4	---
33481W	1-1/2	---
33482W	2	----

REDUCING SPLICERS



B

POLYETHYLENE SPLICES

PART #	SIZE	LIST PRICE
33406B	3/8 x 1/4	---
33407B	1/2 x 1/4	---
33408B	1/2 x 3/8	---
33410B	5/8 x 1/2	---



W

NYLON SPLICES

PART #	SIZE	LIST PRICE
33079W	1/4 x 1/8	---
33347W	1/4 x 3/16	---
33406W	3/8 x 1/4	---
33348W	3/8 x 5/16	---
33407W	1/2 x 1/4	---
33408W	1/2 x 3/8	---
33409W	5/8 x 3/8	---
33410W	5/8 x 1/2	---
33089W	3/4 x 1/2	---

PLASTIC BARBS

PLASTIC FITTINGS

TEES BARBED ON ALL SIDES

B



POLYETHYLENE TEE

PART #	SIZE	LIST PRICE
33415B	1/8	---
33420B	3/16	---
33422B	1/4	---
33426B	5/16	---
33429B	3/8	---
33433B	1/2	---
33436B	5/8	---
33437B	3/4	---
33438B	1	---

P



POLYPROPYLENE TEE

PART #	SIZE	LIST PRICE
33440P	1-1/2	---

ALL HOSE BARB "Y"

P



POLYPROPYLENE WYE

PART #	SIZE	LIST PRICE
33300P*	1/4"	---
33301P*	3/8"	---
33302P*	1/2"	---

*Natural Polypro

W



NYLON WYE

PART #	SIZE	LIST PRICE
33301W	3/8"	---

W



NYLON TEE

PART #	SIZE	LIST PRICE
33415W	1/8	---
33417W	5/32	---
33420W	3/16	---
33422W	1/4	---
33426W	5/16	---
33429W	3/8	---
33433W	1/2	---
33436W	5/8	---
33437W	3/4	---
33438W	1	---
33439W	1-1/4	---
33440W	1-1/2	---

REDUCING TEES

B



POLYETHYLENE TEE

PART #	SIZE	LIST PRICE
33430B	1/2 x 1/2 x 3/8	---
33434B	1/2 x 1/2 x 5/8	---
33435B	3/4 x 3/4 x 1/2	---

W



NYLON TEE

PART #	SIZE	LIST PRICE
33430W	1/2 x 1/2 x 3/8	---
53725-0604	3/8 x 3/8 x 1/4	---
33431W	5/8 x 5/8 x 3/8	---
33432W	3/8 x 3/8 x 1/2	---
33435W	3/4 x 3/4 x 1/2	---
53725-1008	5/8 x 5/8 x 1/2	---

MALE BRANCH TEE

W



NYLON BRANCH TEE

PART #	SIZE	LIST PRICE
33448W	1/4 x 1/4	---

PLASTIC GARDEN HOSE

PLASTIC FITTINGS

GARDEN HOSE

PLASTIC GARDEN HOSE FITTINGS

FITTINGS WITH GARDEN HOSE THREAD

GARDEN HOSE CAP

• Washer not included



• White Nylon

P

PART #	SIZE	LIST PRICE
30103P	3/4"	---

GARDEN HOSE THREAD ADAPTERS

BARB X MALE GARDEN HOSE



• White Nylon

PART #	SIZE	LIST PRICE
31038	1/4"	---
53748-0812	1/2 x 3/4"	
53748-1012	5/8 x 3/4"	
53748-1212	3/4 x 3/4"	

BARB X FEMALE SWIVEL



PART #	SIZE	LIST PRICE
53746-0812	1/2 x 3/4	
53746-1012	5/8 x 3/4	
53746-1212	3/4 x 3/4	

GARDEN HOSE ADAPTER INSERTS

• for assembly with 31-022



• White Nylon

PART #	SIZE	LIST PRICE
31031	3/8"	---
31033	5/8"	---
31034	3/4"	---

GARDEN HOSE NUT



• White Nylon

PART #	SIZE	LIST PRICE
31022	3/4"	---

MALE GARDEN HOSE X FEMALE PIPE



• White Nylon

PART #	SIZE	LIST PRICE
31067	MGH X 1/4	---
31068	MGH X 1/2 FIP	---
31069	MGH X 3/4	---

MALE GARDEN HOSE X MALE PIPE



• White Nylon

PART #	SIZE	LIST PRICE
31055	GHT X 3/8 MPT	---
31058	GHT X 1/2 MPT	---
31063	GHT X 3/4 MPT	---

PLASTIC PUSH-IN

PLASTIC FITTINGS

PLASTIC PUSH-IN TUBE FITTINGS

Manufactured from safe, non-toxic materials meeting the requirements of the US FDA, WRAS, ANSI/NSF-51, 61, and SK Zert. Our products are widely used in water purification, food/beverage and pneumatic systems.

- **Function & Quality :** provides quick and convenient assembly - saving time & expense. Our ISO9001, 14001 registered quality system ensures our customers a superior level of product quality. Defects are easily detectable and maintenance is easy with its easy dismantling for access.
- **Collet Design :** Unique oval collet design is superior and more practical.
- **Applications :** Beyond water and food use, fittings can be used with air, gases, vacuum, & liquids. And all connections can be assembled & disassembled repeatedly.
- **Material :** Grey Acetal Copolymer, also known as POM. Highly durable and resistant to fatigue and creep. It has high resistance to a wide range of organic & inorganic chemicals and detergents. Not recommended for use with strong acids or repeated exposure to strong oxidizers. (polypropylene may be subbed)

Temperature	Small Size						Large Size				
	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	7/8"	28mm		
4mm	5mm	6mm	8mm	10mm	12mm	15mm	16mm	18mm	22mm	28mm	
1°C (34°F)	16bar (230PSI)						11bar (170PSI)		11bar (170PSI)		
20°C (68°F)	16bar (230PSI)						11bar (170PSI)		11bar (170PSI)		
65°C (150°F)	10bar (150PSI)						7bar (100PSI)		7bar (100PSI)		

- Fittings are not recommended for use with liquids other than water and food or beverage products.
- Do not use pipe dope or other liquid thread sealers. Use only Teflon tape to seal threaded connections.
- After assembling a tube connection, tug with moderate force to check for proper gripping of the tube.
- Before disassembling tube connections, always verify that pressure has been removed from the system.

UNION CONNECTOR



PART #	TUBE OD	LIST PRICE
20018P	5/32"	---
20019P	1/4"	---
20020P	3/8"	---
20021P	1/2"	---

UNION TEE



PART #	TUBE OD	LIST PRICE
20028P	1/4"	---
20029P	3/8"	---
20030P	1/2"	---

UNION ELBOW



PART #	TUBE OD	LIST PRICE
20152P	1/4"	---
20153P	3/8"	---
20154P	1/2"	---

REDUCING UNION



PART #	TUBE OD	TUBE OD	LIST PRICE
20755P	3/8"	1/4"	---
20756P	3/8"	5/16"	---
20758P	1/2"	3/8"	---

REDUCING BRANCH TEE



PART #	TUBE OD 1	TUBE OD 2	LIST PRICE
20725P	3/8"	1/4"	---
20724P	1/2"	3/8"	---

REDUCING ELBOW



PART #	TUBE OD	TUBE OD	LIST PRICE
20734P	3/8"	1/4"	---
20736P	1/2"	3/8"	---

BULKHEAD UNION



PART #	TUBE OD	LIST PRICE
20127P	1/4"	---
20128P	3/8"	---
20129P	1/2"	----

PLASTIC PUSH-IN

PLASTIC FITTINGS

FEMALE CONNECTOR



Female Pipe

PART #	TUBE OD	THREAD NPTF	LIST PRICE
20993P	1/4"	1/8"	---
20035P	1/4"	1/4"	---
20036P	3/8"	1/4"	---

MALE CONNECTOR



Male Pipe

PART #	TUBE OD	THREAD NPTF	LIST PRICE
20050P	5/32"	1/8"	---
20054P	1/4"	1/8"	---
20055P	1/4"	1/4"	---
20056P	1/4"	3/8"	---
20057P	3/8"	1/8"	---
20058P	3/8"	1/4"	---
20059P	3/8"	3/8"	---
20062P	3/8"	1/2"	---
20061P	1/2"	3/8"	---
20063P	1/2"	1/2"	---

STEM ADAPTER



PART #	STEM OD	THREAD NPTF	LIST PRICE
20524P	1/4"	1/8"	---
20525P	1/4"	1/4"	---
20528P	3/8"	1/4"	---
20529P	3/8"	3/8"	---

REDUCER



PART #	TUBE OD 1	STEM OD 2	LIST PRICE
20512P	3/8"	1/4"	---
20514P	1/2"	3/8"	---

FIXED ELBOW



PART #	TUBE OD	THREAD NPTF	LIST PRICE
20068P	1/4"	1/8"	---
20069P	1/4"	1/4"	---
20070P	1/4"	3/8"	---
20072P	3/8"	1/4"	---
20073P	3/8"	3/8"	---



20-152P + 20-525P = 20973P

SWIVEL ELBOW

Union Elbow + Stem Adapter



PART #	STEM OD	TUBE ID	LIST PRICE
20973P	1/4"	1/4"	----
20974P	3/8"	3/8"	----

PLASTIC PUSH-IN

PLASTIC FITTINGS

PLASTIC

PLUG-IN ELBOW



PART #	TUBE OD	STEM	LIST PRICE
20742P	1/4"	1/4"	---
20747P	3/8"	3/8"	---
20748P	1/2"	1/2"	---

2-WAY DIVIDER



PART #	TUBE OD	LIST PRICE
20776P	5/16"	---
20777P	3/8"	---

PLUG



PART #	TUBE OD	LIST PRICE
20878P	1/4"	---
20880P	3/8"	---
20881P	1/2"	---

TUBE END STOP



PART #	TUBE OD	LIST PRICE
20925P	1/4"	---
20927P	3/8"	---

PL X PL



PART #	TUBE OD	LIST PRICE
20900P	1/4"	---
20901P	3/8"	---

PL X MALE NPTF



PART #	TUBE OD	MALE THREAD NPTF	LIST PRICE
20904P	1/4"	1/4"	---
20905P	3/8"	3/8"	---

CHECK VALVE

STOP VALVE ADAPTER



PART #	TUBE OD	LIST PRICE
20778P	1/4"	---
20779P	3/8"	---

3/8 MALE COMP X 3/8 FEMALE COMP



PART #	TUBE OD	LIST PRICE
20985P	1/4"	---
20986P	3/8"	---

HOSE ACCESSORIES



CAM AND GROOVE



ALUMINIUM



POLYPROPLYENE



STAINLESS STEEL



BRASS

COMBINATION HOSE NIPPLES



FIRE HOSE FITTINGS



UNIVERSAL/ GROUND JOINT COUPLINGS



CAM AND GROOVE

MALE ADAPTER X FEMALE NPT TYPE A



CGA
6191X

PART#	SIZE	LIST PRICE
CGA-050-A1	1/2"	---
CGA-075-A1	3/4"	---
CGA-100-A1	1"	---
CGA-125-A1	1-1/4"	---
CGA-150-A1	1-1/2"	---
CGA-200-A1	2"	---
CGA-250-A1	2-1/2"	---
CGA-300-A1	3"	---
CGA-400-A1	4"	---
CGA-500-A1	5"	---
CGA-600-A1	6"	---
CGA-800-A1	8"	---

FEMALE COUPLER X HOSE SHANK TYPE C



CGC
6193X

PART#	SIZE	LIST PRICE
CGC-050-A1	1/2"	---
CGC-075-A1	3/4"	---
CGC-100-A1	1"	---
CGC-125-A1	1-1/4"	---
CGC-150-A1	1-1/2"	---
CGC-200-A1	2"	---
CGC-250-A1	2-1/2"	---
CGC-300-A1	3"	---
CGC-400-A1	4"	---
CGC-500-A1	5"	---
CGC-600-A1	6"	---
CGC-800-A1	8"	---

FEMALE COUPLER X MALE NPT TYPE B



CGB
6192X

PART#	SIZE	LIST PRICE
CGB-050-A1	1/2"	---
CGB-075-A1	3/4"	---
CGB-100-A1	1"	---
CGB-125-A1	1-1/4"	---
CGB-150-A1	1-1/2"	---
CGB-200-A1	2"	---
CGB-250-A1	2-1/2"	---
CGB-300-A1	3"	---
CGB-400-A1	4"	---
CGB-500-A1	5"	---
CGB-600-A1	6"	---
CGB-800-A1	8"	---

FEMALE COUPLER X FEMALE NPT TYPE D



CGD
6194X

PART#	SIZE	LIST PRICE
CGD-050-A1	1/2"	---
CGD-075-A1	3/4"	---
CGD-100-A1	1"	---
CGD-125-A1	1-1/4"	---
CGD-150-A1	1-1/2"	---
CGD-200-A1	2"	---
CGD-250-A1	2-1/2"	---
CGD-300-A1	3"	---
CGD-400-A1	4"	---
CGD-500-A1	5"	---
CGD-600-A1	6"	---
CGD-800-A1	8"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



ALUMINUM CAM AND GROOVE

HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK

TYPE E



CGE
61-95X

PART#	SIZE	LIST PRICE
CGE-050-A1	1/2"	---
CGE-075-A1	3/4"	---
CGE-100-A1	1"	---
CGE-125-A1	1-1/4"	---
CGE-150-A1	1-1/2"	---
CGE-200-A1	2"	---
CGE-250-A1	2-1/2"	---
CGE-300-A1	3"	---
CGE-400-A1	4"	---
CGE-500-A1	5"	---
CGE-600-A1	6"	---
CGE-800-A1	8"	---

MALE ADAPTER X MALE NPT

TYPE F



CGF
61-96X

PART#	SIZE	LIST PRICE
CGF-050-A1	1/2"	---
CGF-075-A1	3/4"	---
CGF-100-A1	1"	---
CGF-125-A1	1-1/4"	---
CGF-150-A1	1-1/2"	---
CGF-200-A1	2"	---
CGF-250-A1	2-1/2"	---
CGF-300-A1	3"	---
CGF-400-A1	4"	---
CGF-500-A1	5"	---
CGF-600-A1	6"	---
CGF-800-A1	8"	---

DUST CAP

TYPE DC



CDC
61-97X

PART#	SIZE	LIST PRICE
CDC-050-A1	1/2"	---
CDC-075-A1	3/4"	---
CDC-100-A1	1"	---
CDC-125-A1	1-1/4"	---
CDC-150-A1	1-1/2"	---
CDC-200-A1	2"	---
CDC-250-A1	2-1/2"	---
CDC-300-A1	3"	---
CDC-400-A1	4"	---
CDC-500-A1	5"	---
CDC-600-A1	6"	---
CDC-800-A1	8"	---

DUST PLUG

TYPE DP



CDP
61-98X

PART#	SIZE	LIST PRICE
CDP-050-A1	1/2"	---
CDP-075-A1	3/4"	---
CDP-100-A1	1"	---
CDP-125-A1	1-1/4"	---
CDP-150-A1	1-1/2"	---
CDP-200-A1	2"	---
CDP-250-A1	2-1/2"	---
CDP-300-A1	3"	---
CDP-400-A1	4"	---
CDP-500-A1	5"	---
CDP-600-A1	6"	---
CDP-800-A1	8"	---

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ALUMINUM (AL) SPOOL & PART A

MALE ADAPTER X MALE ADAPTER
ALUMINUM
SPOOL ADAPTER



SA-XXX-A
61910

PART#	SIZE	LIST PRICE
SA-200-A	2"	---
SA-2030-A	2" x 3"	---
SA-300-A	3"	---
SA-3040-A	3" x 4"	---
SA-400-A	4"	---

REDUCER ADAPTER FEMALE
NPT ALUMINUM



CGA-XXX-A

MALE ADAPTER X FEMALE PIPE

PART#	SIZE	LIST PRICE
CGA-3040-A	3" x 4"	---
CGA-4030-A	4" x 3"	---

ALUMINUM SWIVEL



PART#	SIZE	LIST PRICE
CGASV-300-A	3"	---

REDUCER COUPLER M NPT
PART B



CGB-XXX-A

FEMALE COUPLER X MALE PIPE

PART#	SIZE	LIST PRICE
CGB-3020-A	3" x 2"	---
CGB-3040-A	3" x 4"	---

REDUCER COUPLER ADAPTER
PART D



DA-XXX-A

FEMALE COUPLER X MALE ADAPTER

PART#	SIZE	LIST PRICE
DA-2015-A	2" x 1-1/2"	---
DA-2030-A	2" x 3"	---
DA-3015-A	3" x 1-1/2"	---
DA-3020-A	3" x 2"	---
DA-3040-A	3" x 4"	---
DA-4030-A	4" x 3"	---
DA-6040-A	6" x 4"	----

REDUCER COUPLER FEMALE
NPT PART D



CGD

FEMALE COUPLER X FEMALE PIPE

PART#	SIZE	LIST PRICE
CGD-3020-A	3" x 2"	---
CGD-4030-A	4" x 3"	----

SPOOL COUPLER
PART D



FEMALE COUPLER X FEMALE COUPLER

PART#	SIZE	LIST PRICE
DD-2020-A	2" x 2"	---
DD-2030-A	2" x 3"	---
DD-3030-A	3" x 3"	---
DD-3040-A	3" x 4"	---
DD-4040-A	4" x 4"	----

REDUCER ADAPTER MALE
NPT PART F



CGF

MALE ADAPTER X MIP

PART#	SIZE	LIST PRICE
CGF-3040-A	3" x 4"	---
CGF-4030-A	4" x 3"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

POLY CAM AND GROOVE

HOSE ACCESSORIES

POLYPROPYLENE (PP)**MALE ADAPTER X FEMALE NPT
TYPE A**

35-91X

PART#	SIZE	LIST PRICE
CGA-050-PP	1/2"	---
CGA-075-PP	3/4"	---
CGA-100-PP	1"	---
CGA-125-PP	1-1/4"	---
CGA-150-PP	1-1/2"	---
CGA-200-PP	2"	---
CGA-300-PP	3"	---
CGA-400-PP	4"	---

**FEMALE COUPLER X HOSE SHANK
TYPE C**CGC
35-93X

PART#	SIZE	LIST PRICE
CGC-050-PP	1/2"	---
CGC-075-PP	3/4"	---
CGC-100-PP	1"	---
CGC-125-PP	1-1/4"	---
CGC-150-PP	1-1/2"	---
CGC-200-PP	2"	---
CGC-300-PP	3"	---
CGC-400-PP	4"	---

**FEMALE COUPLER X MALE NPT
TYPE B**CGB
35-92X

PART#	SIZE	LIST PRICE
CGB-050-PP	1/2"	---
CGB-075-PP	3/4"	---
CGB-100-PP	1"	---
CGB-125-PP	1-1/4"	---
CGB-150-PP	1-1/2"	---
CGB-200-PP	2"	---
CGB-300-PP	3"	---
CGB-400-PP	4"	---

**FEMALE COUPLER X FEMALE NPT
TYPE D**

35-94X

PART#	SIZE	LIST PRICE
CGD-050-PP	1/2"	---
CGD-075-PP	3/4"	---
CGD-100-PP	1"	---
CGD-125-PP	1-1/4"	---
CGD-150-PP	1-1/2"	---
CGD-200-PP	2"	---
CGD-300-PP	3"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

POLYPROPYLENE CAM AND GROOVE

HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK TYPE E



35-95X

PART#	SIZE	LIST PRICE
CGE-050-PP	1/2"	---
CGE-075-PP	3/4"	---
CGE-100-PP	1"	---
CGE-125-PP	1-1/4"	---
CGE-150-PP	1-1/2"	---
CGE-200-PP	2"	---
CGE-300-PP	3"	---
CGE-400-PP	4"	---

MALE ADAPTER X MALE NPT TYPE F



35-96X

PART#	SIZE	LIST PRICE
CGF-050-PP	1/2"	---
CGF-075-PP	3/4"	---
CGF-100-PP	1"	---
CGF-125-PP	1-1/4"	---
CGF-150-PP	1-1/2"	---
CGF-200-PP	2"	---
CGF-300-PP	3"	---
CGF-400-PP	4"	---

DUST CAP TYPE DC



CDC
35-97X

PART#	SIZE	LIST PRICE
CDC-050-PP	1/2"	---
CDC-075-PP	3/4"	---
CDC-100-PP	1"	---
CDC-125-PP	1-1/4"	---
CDC-150-PP	1-1/2"	---
CDC-200-PP	2"	---
CDC-300-PP	3"	---
CDC-400-PP	4"	---

DUST PLUG TYPE DP



CDP
35-98X

PART#	SIZE	LIST PRICE
CDP-050-PP	1/2"	---
CDP-075-PP	3/4"	---
CDP-100-PP	1"	---
CDP-125-PP	1-1/4"	---
CDP-150-PP	1-1/2"	---
CDP-200-PP	2"	---
CDP-300-PP	3"	---
CDP-400-PP	4"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

MALE ADAPTER X FEMALE NPT TYPE A



CGA
6391X

PART#	SIZE	LIST PRICE
CGA-050-SS1	1/2"	---
CGA-075-SS1	3/4"	---
CGA-100-SS1	1"	---
CGA-125-SS1	1-1/4"	---
CGA-150-SS1	1-1/2"	---
CGA-200-SS1	2"	---
CGA-250-SS1	2-1/2"	---
CGA-300-SS1	3"	---
CGA-400-SS1	4"	---
CGA-600-SS1	6"	---

FEMALE COUPLER X HOSE SHANK TYPE C



CGC
6393X

PART#	SIZE	LIST PRICE
CGC-050-SS1	1/2"	---
CGC-075-SS1	3/4"	---
CGC-100-SS1	1"	---
CGC-125-SS1	1-1/4"	---
CGC-150-SS1	1-1/2"	---
CGC-200-SS1	2"	---
CGC-250-SS1	2-1/2"	---
CGC-300-SS1	3"	---
CGC-400-SS1	4"	---
CGC-600-SS1	6"	---

FEMALE COUPLER X MALE NPT TYPE B



CGB
6392X

PART#	SIZE	LIST PRICE
CGB-050-SS1	1/2"	---
CGB-075-SS1	3/4"	---
CGB-100-SS1	1"	---
CGB-125-SS1	1-1/4"	---
CGB-150-SS1	1-1/2"	---
CGB-200-SS1	2"	---
CGB-250-SS1	2-1/2"	---
CGB-300-SS1	3"	---
CGB-400-SS1	4"	---

FEMALE COUPLER X FEMALE NPT TYPE D



CGD
6394X

PART#	SIZE	LIST PRICE
CGD-050-SS1	1/2"	---
CGD-075-SS1	3/4"	---
CGD-100-SS1	1"	---
CGD-125-SS1	1-1/4"	---
CGD-150-SS1	1-1/2"	---
CGD-200-SS1	2"	---
CGD-250-SS1	2-1/2"	---
CGD-300-SS1	3"	---
CGD-400-SS1	4"	---
CGD-500-SS1	5"	---
CGD-600-SS1	6"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK TYPE E



SA
6395X

PART#	SIZE	LIST PRICE
CGE-050-SS1	1/2"	---
CGE-075-SS1	3/4"	---
CGE-100-SS1	1"	---
CGE-125-SS1	1-1/4"	---
CGE-150-SS1	1-1/2"	---
CGE-200-SS1	2"	---
CGE-300-SS1	3"	---
CGE-400-SS1	4"	---
CGE-600-SS1	6"	---

MALE ADAPTER X MALE NPT TYPE F



CGF
6396X

PART#	SIZE	LIST PRICE
CGF-050-SS1	1/2"	---
CGF-075-SS1	3/4"	---
CGF-100-SS1	1"	---
CGF-125-SS1	1-1/4"	---
CGF-150-SS1	1-1/2"	---
CGF-200-SS1	2"	---
CGF-300-SS1	3"	---
CGF-400-SS1	4"	---
CGF-600-SS1	6"	---

DUST CAP TYPE DC



6397X

PART#	SIZE	LIST PRICE
CDC-050-SS1	1/2"	---
CDC-075-SS1	3/4"	---
CDC-100-SS1	1"	---
CDC-125-SS1	1-1/4"	---
CDC-150-SS1	1-1/2"	---
CDC-200-SS1	2"	---
CDC-250-SS1	2-1/2"	---
CDC-300-SS1	3"	---
CDC-400-SS1	4"	---
CDC-600-SS1	6"	---

DUST PLUG TYPE DP



6398X

PART#	SIZE	LIST PRICE
CDP-100-SS1	1"	---
CDP-125-SS1	1-1/4"	---
CDP-150-SS1	1-1/2"	---
CDP-200-SS1	2"	---
CDP-300-SS1	3"	---
CDP-400-SS1	4"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



BRASS CAM AND GROOVE

HOSE ACCESSORIES

BRASS**MALE ADAPTER X FEMALE NPT
TYPE A**

4491X

PART#	SIZE	LIST PRICE
CGA-050-B1	1/2"	---
CGA-075-B1	3/4"	---
CGA-100-B1	1"	---
CGA-125-B1	1-1/4"	---
CGA-150-B1	1-1/2"	---
CGA-200-B1	2"	---
CGA-300-B1	3"	---
CGA-400-B1	4"	---
CGA-600-B1	6"	---

**FEMALE COUPLER X HOSE SHANK
TYPE C**

4493X

PART#	SIZE	LIST PRICE
CGC-050-B1	1/2"	---
CGC-075-B1	3/4"	---
CGC-100-B1	1"	---
CGC-125-B1	1-1/4"	---
CGC-150-B1	1-1/2"	---
CGC-200-B1	2"	---
CGC-250-B1	2-1/2"	---
CGC-300-B1	3"	---
CGC-400-B1	4"	---

**FEMALE COUPLER X MALE NPT
TYPE B**

4492X

PART#	SIZE	LIST PRICE
CGB-100-B1	1"	---
CGB-125-B1	1-1/4"	---
CGB-150-B1	1-1/2"	---
CGB-200-B1	2"	---
CGB-250-B1	2-1/2"	---
CGB-300-B1	3"	---
CGB-400-B1	4"	---

**FEMALE COUPLER X FEMALE NPT
TYPE D**

4494X

PART#	SIZE	LIST PRICE
CGD-050-B1	1/2"	---
CGD-075-B1	3/4"	---
CGD-100-B1	1"	---
CGD-125-B1	1-1/4"	---
CGD-150-B1	1-1/2"	---
CGD-200-B1	2"	---
CGD-300-B1	3"	---
CGD-400-B1	4"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BRASS CAM AND GROOVE

HOSE ACCESSORIES

MALE ADAPTER X HOSE SHANK
TYPE E



4495X

PART#	SIZE	LIST PRICE
CGE-075-B1	3/4"	---
CGE-100-B1	1"	---
CGE-150-B1	1-1/2"	---
CGE-200-B1	2"	---
CGE-300-B1	3"	---
CGE-400-B1	4"	---

DUST CAP
TYPE DC



4497X

PART#	SIZE	LIST PRICE
CDC-100-B1	1"	---
CDC-200-B1	2"	---
CDC-300-B1	3"	---
CDC-400-B1	4"	---

MALE ADAPTER X MALE NPT
TYPE F



4496X

PART#	SIZE	LIST PRICE
CGF-050-B1	1/2"	---
CGF-075-B1	3/4"	---
CGF-100-B1	1"	---
CGF-150-B1	1-1/2"	---
CGF-200-B1	2"	---
CGF-250-B1	2-1/2"	---
CGF-300-B1	3"	---
CGF-400-B1	4"	---

DUST PLUG
TYPE DP



4498X

PART#	SIZE	LIST PRICE
CDP-200-B1	2"	---
CDP-250-B1	2-1/2"	---
CDP-300-B1	3"	---
CDP-400-B1	4"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

CRIMPLOK

SELF LOCKING CAM & GROOVE



STAINLESS STEEL & ALUMINUM

UNIVERSAL FITTINGS

CRIMPLOCK KING NIPPLES

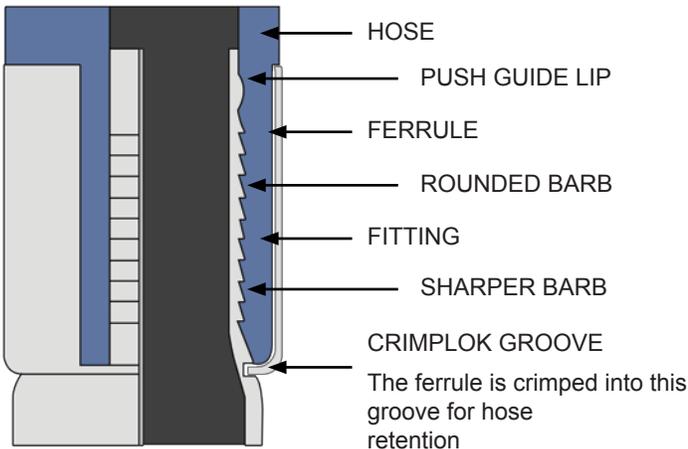


CRIMPLOK FERRULES - PLATED STEEL - STAINLESS STEEL ALUMINUM



SOLID DEPENDABLE SAFE

FEATURES AND BENEFITS



Crimplok is the best way to ensure a perfect hose connection every time!

- All fittings have a Crimplok groove for the ferrule end the Lok into for a strong permanent seal.
- Serrations on the couplings and fittings are not as sharp at the top, but become sharper towards the Crimplok groove.
- The length of the barb and sleeve/ ferrule are matched for a safer, cleaner connection.
- Crimplok connections do not have sharp clamp buckles or edges
- Interchangeable with most market systems

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



ALUMINUM SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
 - Dust Cap
 - Part B
 - Part C
 - Part D

Sample item code	Description
CDCSL-XXX-A1	X" DUST CAP ALUMINUM CRIMPLOK SELF LOCKING
CGBSL-XXX-A1	X" PART B ALUMINUM CRIMPLOK SELF LOCKING
CGCSL-XXXCR-A1	X" PART C ALUMINUM CRIMPLOK SELF LOCKING
CGDSL-XXX-A1	X" PART D ALUMINUM PRIMPLOK SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

FEMALE COUPLER X MALE NPT TYPE B



CGBSL

PART#	SIZE	LIST PRICE
CGBSL-200-A1	2"	---
CGBSL-300-A1	3"	---
CGBSL-400-A1	4"	---

FEMALE COUPLER X FEMALE NPT TYPE D



CGDSL

PART#	SIZE	LIST PRICE
CGDSL-200-A1	2"	---
CGDSL-300-A1	3"	---
CGDSL-400-A1	4"	---
CGDSL-600-A1	6"	---

FEMALE COUPLER X HOSE SHANK TYPE C



CGCSL

PART#	SIZE	LIST PRICE
CGCSL-200CR-A1	2"	---
CGCSL-300CR-A1	3"	---
CGCSL-400CR-A1	4"	---
CGCSL-600CR-A1	6"	---

DUST CAP TYPE DC



CDCSL

PART#	SIZE	LIST PRICE
CDCSL-200-A1	2"	---
CDCSL-300-A1	3"	---
CDCSL-400-A1	4"	---
CDCSL-600-A1	6"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

CRIMPLOK
HOSE ACCESSORIES

STAINLESS STEEL SELF LOCKING CAM & GROOVE

- Automatic Self-Locking Arms Prevent Accidental Disconnection
- Machined multi-serrated shank with interlocking groove
- Aluminum with Brass Self Locking Arms
- 316 Stainless with Investment Cast Self-Locking Arms
- Available in sizes 2" through 6"
- 2" @250 psi 3" & 4" @150 psi 6" @75 psi
- 6" @150 psi 4 arms
- Configurations
 - Dust Cap
 - Part B
 - Part C
 - Part D

Sample item code	Description
CDCL-XXX-SS1	X" DUST CAP STAINLESS CRIMPLOK 316 SELF LOCKING
CGBSL-XXX-SS1	X" PART B STAINLESS CRIMPLOK 316 SELF LOCKING
CGCSL-XXXCR-SS1	X" PART C STAINLESS 316 CRIMPLOK SELF LOCKING
CGDSL-XXX-SS1	X" PART D STAINLESS CRIMPLOK 316 SELF LOCKING

Designed for use with Buchanan Crimp Sleeves and Interlocking Ferrules

**FEMALE COUPLER X MALE NPT
TYPE B**

CGBSL



PART#	SIZE	LIST PRICE
CGBSL-200-SS1	2"	---
CGBSL-300-SS1	3"	---
CGBSL-400-SS1	4"	---

**FEMALE COUPLER X FEMALE NPT
TYPE D**

CGDSL



PART#	SIZE	LIST PRICE
CGDSL-200-SS1	2"	---
CGDSL-300-SS1	3"	---
CGDSL-400-SS1	4"	---
CGDSL-600-SS1	5"	---

**FEMALE COUPLER X HOSE SHANK
TYPE C**

CGCSL



PART#	SIZE	LIST PRICE
CGCSL-200CR-SS1	2"	---
CGCSL-300CR-SS1	3"	---
CGCSL-400CR-SS1	4"	---

**DUST CAP
TYPE DC**

CDCSL



PART#	SIZE	LIST PRICE
CDCSL-200-SS1	2"	---
CDCSL-300-SS1	3"	---
CDCSL-400-SS1	4"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

CRIMPLOK ALUMINUM CAM & GROOVE COUPLINGS

TYPE C



PART#	SIZE	LIST PRICE
CGC-150CR-A1	1-1/2"	---
CGC-200CR-A1	2"	---
CGC-250CR-A1	2-1/2"	---
CGC-300CR-A1	3"	---
CGC-400CR-A1	4"	---
CGC-600CR-A1	6"	---

TYPE E



PART#	SIZE	LIST PRICE
CGE-150CR-A1	1-1/2"	---
CGE-200CR-A1	2"	---
CGE-250CR-A1	2-1/2"	---
CGE-300CR-A1	3"	---
CGE-400CR-A1	4"	---
CGE-600CR-A1	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK STAINLESS CAM & GROOVE COUPLINGS

TYPE C



PART#	SIZE	LIST PRICE
CGC-100CR-SS1	1"	---
CGC-150CR-SS1	1-1/2"	---
CGC-200CR-SS1	2"	---
CGC-300CR-SS1	3"	---
CGC-400CR-SS1	4"	---

TYPE E



PART#	SIZE	LIST PRICE
CGE-100CR-SS1	1"	---
CGE-150CR-SS1	1-1/2"	---
CGE-200CR-SS1	2"	---
CGE-300CR-SS1	3"	---
CGE-400CR-SS1	4"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HANDLES, RINGS AND PINS

HOSE ACCESSORIES

QUICKLOK HANDLE FOR SS AND ALUMINUM



PART#	SIZE	
HSK5-200-SS	1-1/2-2"	---
HSK5-300-SS	3-4"	---

INVESTMENT CAST STAINLESS STEEL HANDLE, RING & PIN



PART#	SIZE	
61452	3" & 4"	---

FORGED BRASS HANDLE - RING & PIN STEEL



PART#	SIZE	
61455	3/4"	---
61451	1-1/4" - 2-1/2"	---
61453	3" & 4"	---
61457	6"	---

SAFETY CLIP



PART #	SIZE	
66015	1-1/4" - 2-1/2"	---

HANDLE + PIN + RING BRASS

GASKETS

CAMLOCK GASKET EPDM



PART#	SIZE	
CG-200-EPDM	2"	---
CG-300-EPDM	3"	---

CAMLOCK GASKET VITON



PART#	SIZE	
CG-100-VI	1	---
CG-200-VI	2	---
CG-300-VI	3	---
CG-400-VI	4	---

CAMLOCK GASKET NBR



PART#	SIZE	
CG-075-NBR	3/4	---
CG-100-NBR	1	---
CG-125-NBR	1-1/4	---
CG-150-NBR	1-1/2	---
CG-200-NBR	2	---
CG-250-NBR	2-1/2	---
CG-300-NBR	3	---
CG-400-NBR	4	---
CG-600-NBR	6	---
CG-800-NBR	8	---

BUNA-N GASKET



PART#	SIZE	
BG50	1/2"	---
BG75	3/4"	---
BG100	1"	---
BG150	1-1/2"	---
BG200	2"	---
BG250	2-1/2"	---
BG300	3"	---
BG400	4"	---
BG600	6"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

KING NIPPLES

HOSE ACCESSORIES

COMBINATION NIPPLES

HOSE BARB X MALE PIPE

STEEL HOSE NIPPLES



CNT-XXX-S

• BLACK

(BARB X MALE PIPE)

PART #	HOSE SIZE	LIST PRICE
CNT-050-S	1/2"	---
CNT-075-S	3/4"	---
CNT-100-S	1"	---
CNT-125-S	1-1/4"	---
CNT-150-S	1-1/2"	---
CNT-200-S	2"	---
CNT-250-S	2-1/2"	---
CNT-300-S	3"	---
CNT-400-S	4"	---
CNT-600-S	6"	---

1/2-2" KNURLED || 2-12/ -12" NON-KNURLED

ZINC PLATED STEEL



CNT-XXX-SP

PART #	SIZE	LIST PRICE
CNT-050-SP	1/2"	---
CNT-075-SP	3/4"	---
CNT-100-SP	1"	---
CNT-125-SP	1-1/4"	---
CNT-150-SP	1-1/2"	---
CNT-200-SP	2"	---
CNT-250-SP	2-1/2"	---
CNT-300-SP	3"	---
CNT-400-SP	4"	---
CNT-500-SP	5"	---
CNT-600-SP	6"	---
CNT-800-SP	8"	---

COMBINATION NIPPLE 316 STAINLESS



CNT-XXX-S316

PART #	SIZE	LIST PRICE
CNT-050-S316	1/2"	---
CNT-075-S316	3/4"	---
CNT-100-S316	1"	---
CNT-125-S316	1-1/4"	---
CNT-150-S316	1-1/2"	---
CNT-200-S316	2"	---
CNT-250-S316	2-1/2"	---
CNT-300-S316	3"	---
CNT-400-S316	4"	---

ZINC PLATED STEEL EXPANDER & REDUCER



EXP

RED

HOSE X MIP

PART #	SIZE	LIST PRICE
973862	3/4 x 1	---
973884	1 x 3/4	---
973863	1 x 1-1/4	---
973885	1-1/4 x 1	---
973886	1-1/4 x 1-1/2	---
973887	1-1/2 x 1-1/4	---
973864	1-1/2 x 2	---
973888	2 x 1-1/2	---
973859	2 x 2-1/2	---
973869	2-1/2 x 2	---
973866	3 x 4	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HOSE ACCESSORIES



KING NIPPLES

HOSE ACCESSORIES

COMBINATION NIPPLES HOSE BARB X MALE PIPE

BRASS



CNT-XXX-B

• LEAD FREE

PART #	SIZE	LIST PRICE
CNT-075-B	3/4"	---
CNT-100-B	1"	---
CNT-125-B	1-1/4"	---
CNT-150-B	1-1/2"	---
CNT-200-B	2"	---
CNT-250-B	2-1/2"	---
CNT-300-B	3"	---

ALUMINUM



CNT-XXX-A

PART #	SIZE	LIST PRICE
CNT-050-A	1/2"	---
CNT-075-A	3/4"	---
CNT-100-A	1"	---
CNT-200-A	2"	---

VICTAULIC GROOVED COMBINATION NIPPLES

COMBINATION NIPPLE PLAIN STEEL
VICTAULIC GROOVED



CNG-S

PART #	HOSE SIZE	LIST PRICE
CNG-200-S	2"	---
CNG-300-S	3"	---
CNG-400-S	4"	---
CNG-600-S	6"	---

COMBINATION NIPPLE
PLATED VICTAULIC GROOVED



PART #	SIZE	LIST PRICE
CNG-200-SP	2"	---
CNG-300-SP	3"	---
CNG-400-SP	4"	---
CNG-600-SP	6"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov

CRIMPLOK CRIMP UNIVERSAL FITTINGS



PART#	SIZE	MAX OPERATING PSI 70F	LIST PRICE
HE-050CF-SP	1/2	150	---
HE-075CF-SP	3/4	150	---
HE-075CR-SP	3/4	150	---
HE-100CF-SP	1	150	---
HE-100CR-SP	1	150	---
HE-101CF-SP	1	150	----

HIGH PRESSURE FEMALE STEM



PART#	SIZE	LIST PRICE
GJS-125CR-DP	1-1/4	----
GJS-150CR-DP	1-1/2	----
GJS-200CR-DP	2	----
GJS-250CR-DP	2-1/2	----
GJS-300CR-DP	3	----
GJS-400CR-SP	4	----

HIGH PRESSURE MALE STEM



PART#	SIZE	LIST PRICE
GJM-125CR-DP	1-1/4	----
GJM-150CR-DP	1-1/2	----
GJM-200CR-DP	2	----
GJM-250CR-DP	2-1/2	----
GJM-300CR-DP	3	----
GJM-400CR-SP	4	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

CRIMPLOK KING NIPPLES

HOSE ACCESSORIES

CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL



PART#	SIZE	LIST PRICE
CNT-100CR-SP	1"	---
CNT-125CR-SP	1-1/4"	---
CNT-150CR-SP	1-1/2"	---
CNT-200CR-SP	2"	---
CNT-250CR-SP	2-1/2"	---
CNT-300CR-SP	3"	---
CNT-400CR-SP	4"	---
CNT-600CR-SP	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP COMBINATION NIPPLES STAINLESS



PART#	SIZE	LIST PRICE
CNT-100CR-SS316	1"	---
CNT-125CR-SS316	1-1/4"	---
CNT-150CR-SS316	1-1/2"	---
CNT-200CR-SS316	2"	---
CNT-250CR-SS316	2-1/2"	---
CNT-300CR-SS316	3"	---
CNT-400CR-SS316	4"	---
CNT-600CR-SS316	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK COMBINATION NIPPLE PLATED LONG NPT



PART#	SIZE	LIST PRICE
CNL-200CR-SP	2"	---
CNL-250CR-SP	2-1/2"	---
CNL-300CR-SP	3"	---
CNL-400CR-SP	4"	---

Project Information: For use with CRIMPLOK Long Ferrules CF-XXXXXL-SP

CRIMPLOK HD COMBINATION NIPPLE PLATED



PART#	SIZE	LIST PRICE
CNT-400CS-SP	4"	---
CNT-600CS-SP	6"	---
CNT-800CS-SP	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE UNPLATED



PART#	SIZE	LIST PRICE
CNT-400CS-S	4"	---
CNT-600CS-S	6"	---
CNT-800CS-S	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC PLATED



PART#	SIZE	LIST PRICE
CNG-400CS-SP	4"	---
CNG-600CS-SP	6"	---
CNG-800CS-SP	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

CRIMPLOK HD COMBINATION NIPPLE VICTAULIC UNPLATED



PART#	SIZE	LIST PRICE
CNG-400CS-S	4"	---
CNG-600CS-S	6"	---
CNG-800CS-S	8"	---

Project Information: For use with CRIMPLOK Sleeves CSL-XXXXX-SP

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

CRIMPLOK KING NIPPLES

HOSE ACCESSORIES

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES PLATED STEEL



PART#	SIZE	LIST PRICE
CNG-200CR-SP	2"	---
CNG-300CR-SP	3"	---
CNG-400CR-SP	4"	---
CNG-600CR-SP	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP VICTAULIC COMBINATION NIPPLES STAINLESS



PART#	SIZE	LIST PRICE
CNG-200CR-SS316	2"	---
CNG-250CR-SS316	2-1/2"	---
CNG-300CR-SS316	3"	---
CNG-400CR-SS316	4"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK FIXED FLANGE NIPPLE STEEL 125 - 150#



PART#	SIZE	LIST PRICE
CNFL-200CR-S	2"	---
CNFL-300CR-S	3"	---
CNFL-400CR-S	4"	---
CNFL-600CR-S	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP
Stainless Steel available - add S316 to part #

CRIMPLOK CRIMP TURNBACK COMBINATION NIPPLES STEEL



PART#	SIZE	LIST PRICE
CNTB-200CR-S	2"	---
CNTB-300CR-S	3"	---
CNTB-400CR-S	4"	---
CNTB-600CR-S	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK CRIMP TURN BACK NIPPLES STAINLESS



PART#	SIZE	LIST PRICE
CNTB-200CR-SS316	2"	---
CNTB-300CR-SS316	3"	---
CNTB-400CR-SS316	4"	---
CNTB-600CR-SS316	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SS304

CRIMPLOK CRIMP SQUARE CUT COMBINATION NIPPLES UNPLATED



PART#	SIZE	LIST PRICE
CNSC-300CR-SP	3"	---
CNSC-400CR-SP	4"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

CRIMPLOK FIXED FLANGE NIPPLE STAINLESS STEEL 125 - 150#



PART#	SIZE	LIST PRICE
CNFL-200CR-SS316	2"	---
CNFL-300CR-SS316	3"	---
CNFL-400CR-SS316	4"	---
CNFL-600CR-SS316	6"	---

Project Information: For use with CRIMPLOK Ferrules CF-XXXXX-SP

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

HOSE ACCESSORIES

HOSE MENDERS

MENDER PLAIN STEEL

HM-S



PART #	HOSE SIZE	LIST PRICE
HM-050-S	1/2"	---
HM-075-S	3/4"	---
HM-100-S	1"	---
HM-125-S	1-1/4"	---
HM-150-S	1-1/2"	---
HM-200-S	2"	---
HM-300-S	3"	---
HM-600-S	6"	---

316 STAINLESS STEEL HOSE MENDER



PART #	SIZE	LIST PRICE
ME-050-SS	1/2"	---
ME-075-SS	3/4"	---
ME-100-SS	1"	---
ME-125-SS	1-1/4"	---
ME-150-SS	1-1/2"	---
ME-200-SS	2"	---
ME-250-SS	2-1/2"	----
ME-300-SS	3"	----
ME-400-SS	4"	----

MENDER PLATED STEEL



PART #	SIZE	LIST PRICE
HM-038-SP	3/8"	---
HM-050-SP	1/2"	---
HM-063-SP	5/8"	---
HM-075-SP	3/4"	---
HM-100-SP	1"	---
HM-125-SP	1-1/4"	---
HM-150-SP	1-1/2"	---
HM-200-SP	2"	---
HM-250-SP	2-1/2"	---
HM-300-SP	3"	---
HM-400-SP	4"	---
HM-600-SP	6"	---

BRASS HOSE MENDER



• LEAD FREE

PART #	SIZE	LIST PRICE
ME-075-B	3/4"	---
ME-100-B	1"	---

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

UNIVERSAL COUPLINGS

HOSE ACCESSORIES

UNIVERSAL COUPLING

MALE NPT ENDS

- Twist claw/ universal/ chicago



- Malleable iron
- ISO PSI

ME-XXX-SP

Safety clip included

PART #	SIZE	LIST PRICE
ME-025-SP	1/4"	---
ME-038-SP	3/8"	---
ME-050-SP	1/2"	---
ME-075-SP	3/4"	---
ME-100-SP	1"	---

WASHER



PART #	LIST PRICE
66000	---

FEMALE NPT ENDS



Safety clip included

PART #	SIZE	LIST PRICE
FE-025-SP	1/4"	---
FE-038-SP	3/8"	---
FE-050-SP	1/2"	---
FE-075-SP	3/4"	---
FE-100-SP	1"	---
FE-125-SP	1-1/4"	---
FE-150-SP	1-1/2"	---
FE-200-SP	2"	---

HOSE END



SEE CRIMPLOK SECTION

HE-XXX-SP

Safety clip included

PART #	SIZE	LIST PRICE
HE-038-SP	3/8"	---
HE-050-SP	1/2"	---
HE-075-SP	3/4"	---
HE-100-SP	1"	---

TRIPLE CONNECTIONS



UW-300-SP

PART #	LIST PRICE
UW-300-SP	---

UNIVERSAL BLANK END



ISO PSI

PART #	SIZE	LIST PRICE
BE-300-SP		---

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GROUND JOINT COUPLINGS/ ALUMINUM SHORT SHANKS

HOSE ACCESSORIES

2 BOLT HIGH PRESSURE CLAMP

PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	LIST PRICE
BC2-075A-DP	3/4"	1-5/32"-1-9/32"	21FT LBS	---
BC2-075C-DP	3/4"	1-5/16"-1-1/2"	21FT LBS	---

4 BOLT HIGH PRESSURE CLAMP

PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE	LIST PRICE
BC4-100B-DP	1"	1.53-1.72	21FT LBS	---
BC4-125-DP	1-1/4"	2.06-2.25	40FT LBS	---
BC4-200A-DP	2"	2-11/32"-2-17/32"	60FT LBS	---
BC4-200-DP	2-1/2"	3-3/32"-3-7/16"	60FT LBS	---

HIGH PRESSURE MALE STEM

PART #	LIST	SIZE	PART #	LIST PRICE
73043		1/2	GJM-050-SP	---
73044		3/4	GJM-075-SP	---
73045		1	GJM-100-SP	---
73046		1-1/4	GJM-125-DP	---

SHORT SHANK ALUMINUM SET NPS

PART #	SIZE	LIST PRICE
PL-200-AD	2	---
PL-300-AD	3	---

FEMALE END

PART #	SIZE	LIST PRICE
PF-200-AD	2	---
PF-300-AD	3	---

MALE END

PART #	SIZE	LIST PRICE
PM-200-A	2	---
PM-300-A	3	---

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STRAINERS/ NOZZLES

HOSE ACCESSORIES

LARGE SAFETYCHECK FOR HOSE/ HOSE AND HOSE/TOOL



HOSE TO HOSE

PART #	SIZE	LIST PRICE
WHIP-L	1-1/2" HOSE, 37" LONG	---
WHIP-S	1/2-1-1/4" HOSE 22" LONG	---

FOOT VALVE



PART #	SIZE	LIST PRICE
FV-200-DP	2	---
FV-300-DP	3	---
FV-400-DP	4	---
FV-600-DP	6	---

STRAINER ROUND HOLE



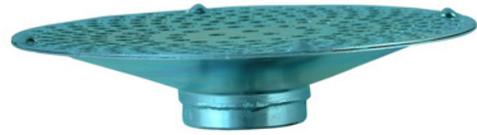
PART #	SIZE	LIST PRICE
SR-200-SP	2	---
SR-250-SP	2-1/2	---
SR-300-SP	3	---
SR-400-SP	4	---
SR-600-SP	6	---
SR-800-SP	8	---

STRAINER ROUND HOLE LONG THIN



PART #	SIZE	LIST PRICE
SL-200-SP	2	---
SL-300-SP	3	---

STRAINER BOTTOM HOLE



PART #	SIZE	STRAINER HOSE SIZE	LIST PRICE
SB-200-SP	2		---
SB-300-SP	3		---

STRAINER STRAINER BOTTOM HOLE



PART #	SIZE	LIST PRICE
SCR-300-SS304	3	---
SCR-400-SS304	4	---

PLASTIC FOG NOZZLE GHT



PART #	SIZE	LIST PRICE
FN-075	3/4	---

PLASTIC FOG NOZZLE NPS



PART #	SIZE	LIST PRICE
FN-100	1	---
FN-150	1-1/2	---
FN-200	2	---

GREEN ABS FOG NOZZLE GHT



PART #	SIZE	LIST PRICE
FN-075G	3/4	---

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FIRE HOSE FITTINGS

HOSE ACCESSORIES

FIRE HOSE FITTINGS**HYDRANT ADAPTERS - BRASS**

PART #	DESCRIPTION	LIST PRICE
444000	2-1/2" NST x 3/4" GHT	---
444001	2-1/2" NST x 3/4" NPT	---
444002	2-1/2" NST x 1" NPT	---
444005	2-1/2" NST x 1-1/2" NPT	---
444007	2-1/2" NST x 2" NPSH	---
444008	2-1/2" NST x 2" NPT	---
444006	2-1/2" NST x 1-1/2" NST	---

FEMALE TO MALE HEX ADAPTER - BRASS

PART #	FEMALE X MALE	LIST PRICE
444021	1-1/2" NST x 1-1/2" NPSH	---
444023	1-1/2" NPT x 1-1/2" NPSH	---
444020	1-1/2" NST x 1-1/2" NPT	---
444318	2 NPT x 2-1/2" NST	---
444026	2-1/2" NST x 2-1/2" NPT	---

DOUBLE MALE HEX NIPPLE - BRASS

PART #	DESCRIPTION	LIST PRICE
444042	1-1/2" NPT x 1-1/2" NPSH	---
444040	1-1/2" NPT x 1-1/2" NST	---
444048	2" NPT x 2-1/2" NST	---
444045	2-1/2" NPT x 2-1/2" NST	---
444049	3" NPT x 2-1/2" NST	---

MALE SWIVEL ADAPTER - BRASS W/ LUGS

PART #	DESCRIPTION FEMALE X MALE	LIST PRICE
444111	2-1/2" NST x 2" NPT	---
444112	2-1/2" NST x 2-1/2" NPT	---
444113	2-1/2" NST x 3" NPT	---

BRASS NOZZLE

PART #	PIPE	LIST PRICE
HN-075-B	3/4"	---
HN-100-B	1"	---
HN-125-B	1-1/4"	---
HN-250-B	2-1/2"	----

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HAMMER UNIONS

HOSE ACCESSORIES

HAMMER UNIONS

FIG 100

Economical and for use in water, oil and gas low pressure applications up to 1,000 PSI CWP. Color coded with Yellow subs and Black nut.



PART#	SIZE	
HAM100-200-SET	2"	----
HAM100-300-SET	3"	----
HAM100-400-SET	4"	----
HAM100-600-SET	6"	----
HAM100-800-SET	8"	----
HAM100-1000-SET	10"	----

FIG 200/ 206

Medium pressure for use in water, oil and gas applications up to 2,000 PSI CWP. Color coded with Grey subs and Blue Nut. The O-Ring in the Male Sub of the FIG206 spec provides greater sealing and protects metal-to-metal seal against corrosion.



PART# FIG 200	SIZE	
HAM200-100-SET	1"	----
HAM200-200-SET	2"	----
HAM200-300-SET	3"	----
HAM200-400-SET	4"	----
HAM200-500-SET	5"	----
PART# FIG 206		
HAM206-200-SET	2"	----
HAM206-300-SET	3"	----
HAM206-400-SET	4"	----
HAM206-500-SET	5"	----
HAM206-600-SET	6"	----
HAM206-800-SET	8"	----

CRIMPLOK HAMMER UNIONS

HAMMER UNION

Our hose barb union is constructed of high quality forged steel. The integral hose shank is featured on both the male and female subs. Both time and money is saved by combining the unions with the integral shanks. No more welding hammer unions to combination nipples. Fig100 (black nut) configurations for dewatering applications and fig 200/206 (blue nut) configurations for Frac and Steam applications where a gasket seal is preferred. The union end connection is interchangeable with all major hammer union manufacturers products



PART#	SIZE	
HAM206-400CR-SET	4"	----



PART#	SIZE	
HAM100-400CR-SET	4"	----
HAM100-600CR-SET	6"	----

WARNING: This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

BUCHANAN HOSE



HOSE INFORMATION

HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Air Hoses - Also Available: Montana, Hi-Temp Steelflex Air, Oroflex Air, Oroflex 20, Duraflex 20 & Hot Air Blower					
	Yellow cut and abrasion resistant cover with blue stripe. Tube is oil resistant synthetic rubber.	A superior quality mining, construction and industrial hose.	400 PSI	1/2" - 4"	-35°C to +80°C -30°F to +180°F
Super Service Air					
	Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	For mining, construction, and industrial use.	250 - 300 PSI	1/2" - 4"	-35°C to +80°C -30°F to +180°F
Contractors Air					
	Yellow cut and abrasion resistant cover with red stripe. Tube is oil resistant synthetic rubber.	High pressure steel reinforced air service for mining, construction and industrial use. More resistant to external abuse than textile air hose. Mandrel built.	400 - 1000 PSI	1/2" - 4"	-35°C to +80°C -30°F to +180°F
Steelflex Air					
	Smooth Yellow cut and abrasion resistant rubber cover with oil mist resistant synthetic rubber tube.	An economical air hose for jackhammer and other uses on construction sites. Also for general industrial use.	300 PSI	3/4"	-35°C to +80°C -30°F to +180°F
Jackhammer					
General Purpose - Also Available: General Purpose, Urethane General Purpose & Self Storing Air					
	Red, oil, grease, weather and abrasion resistant nitrile/pvc cover with nitrile tube.	A premium quality long length hose for petroleum based fluids, lubricating oils, air, hot water and some chemical solutions.	250 - 300 PSI	1/4" - 1 1/2"	-32°C to +85°C -25°F to +185°F
Premium General Purpose - Non Conductive					
	Smooth red abrasion and weather resistant EPDM synthetic rubber tube and cover.	Air, water, agricultural spray solutions, and other dilute chemicals. Excellent resistance to heat and weathering. Also resists animal fats, vegetable oils and Methyl Ethyl Ketone.	150 - 250 PSI	1/4" - 2"	-30°C to +93°C -20°F to +200°F
EPDM General Purpose					
	Clear smooth PVC.	An economical FDA quality hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product. 3A/USDA/NSF-51 Compliant.	65 - 250 PSI	3/16" - 2"	-5°C to +65°C +25°F to +150°F
Clear Reinforced PVC					
	Black, Grey, Red, Blue, or Yellow oil, weather and abrasion resistant nitrile/pvc cover with nitrile tube.	Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions.	250 - 300 PSI	1/4" - 3/4"	-32°C to +80°C -25°F to +180°F
Push On					
	Blue weather and oil resistant synthetic rubber specially compounded for arctic service featuring a static wire.	A premium general purpose hose for conveying air, water, petroleum products and some chemicals under arctic conditions.	300 PSI	1/2" - 2"	-54°C to +65°C -65°F to +150°F
Arctic General Purpose					
Water Discharge - Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown, White Sanitary & Single Jacket Industrial Mill					
	Black abrasion, weather and oil resistant nitrile rubber cover with oil resistant nitrile rubber tube.	A lightweight high pressure, extremely strong hose for general water and oil discharge, and for some chemicals.	150 - 200 PSI	1 1/2" - 8"	-20°C to +80°C 0°F to +180°F
Oroflex 10 Layflat					
	Black abrasion, weather and oil resistant nitrile rubber.	This is a lightweight high pressure, extremely strong hose for general water discharge service. Ideal for rental service where long life and competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water.	150 - 200 PSI	2" - 6"	-20°C to +80°C 0°F to +180°F
Duraflex - Rubber Layflat					
	Smooth cover blue and black (also wrapped version) oil resistant synthetic rubber cover. One high tensile steel braid with oil resistant synthetic rubber tube.	Extremely flexible, compact hose for use on pressure washers with working pressures up to 3000 psi. Available in 4500 psi, 250°F.	3000 PSI	3/8"	-29°C to +100°C -20°F to +212°F
Pressure Washer					

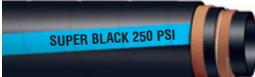
HOSE INFORMATION

HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Discharge - Also Available: <i>H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown & White Sanitary</i>					
	Blue, Brown or Green PVC impregnation.	Light (Blue) to Heavy (Brown and Green) duty layflat hose for portable pump and irrigation use.	30 - 150 PSI	3/4" - 12"	-10°C to +60°C +15°F to +140°F
PVC Layflat					
	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	A lightweight water discharge hose which is ideal for use with portable pumps, and general water discharge service.	75 - 100 PSI	1 1/4" - 12"	-35°C to +80°C -30°F to +180°F
Contractors and Contractors Plus Water Discharge					
	Black abrasion and weather resistant synthetic rubber cover with synthetic rubber tube.	For use on construction sites and general water service.	150 - 300PSI	1/2" - 1"	-35°C to +80°C -30°F to +180°F
Contractors Water Discharge - Industrial Garden Hose					
Water Suction - Also Available: <i>EPDM Aggie Water S & D</i>					
	A hose constructed with extra soft PVC, a feature that ensures greater flexibility and ease of handling at very low temperatures. Also available with static wire.	Can be used for light oil, grease and animal fat suction. It can also be used in more general applications where great flexibility is required at very low temperatures.	35 - 70 PSI 29" HG	2" - 6"	-40°C to +60°C -40°F to +140°F
Superflex					
	Black smooth abrasion and weather resistant synthetic rubber.	A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.	50 - 200 PSI 29" HG	3/4" - 12"	-30°C to +80°C -22°F to +180°F
Rubber Water S & D					
	Clear abrasion and weather resistant extra soft low temperature PVC with blue helix	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Soft low temperature compounds allow for increased flexibility.	25 - 45 PSI 29" HG	3/4" - 6"	-40°C to +65°C -40°F to +150°F
Saturn Water S & D					
	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	25 - 90 PSI 28 - 29" HG	3/4" - 8"	-20°C to +65°C -5°F to +150°F
Saturn Green PVC Water S & D					
	Clear abrasion and weather resistant extra soft PVC.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds allow for increased flexibility at low temperatures.	35 - 90 PSI 29" HG	3/4" - 6"	-40°C to +65°C -40°F to +150°F
Saturn Low Temperature PVC Water S & D					
	Clear abrasion and weather resistant PVC.	An economical, flexible hose for construction pumps, septic tank & irrigation lines. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.	15 - 45 PSI 26 - 29" HG	1" - 12"	-40°C to +65°C -40°F to +150°F
Saturn Grey PVC Water S & D					
	Clear abrasion and weather resistant PVC with high tensile synthetic yarn reinforcement.	Good for both suction and discharge applications, this heavy duty hose can be used for rental/construction pumping as well as fish suction hose.	40 - 110 PSI 28 - 29" HG	2" - 10"	-23°C to +65°C -10°F to +150°F
Textile Reinforced S & D					
	Clear abrasion and weather resistant PVC with white helix.	An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Can also be used in air seeder applications.	35 - 90 PSI	3/4" - 8"	-20°C to +65°C -4°F to +150°F
Saturn White PVC Water Suction and Discharge Hose					

HOSE INFORMATION

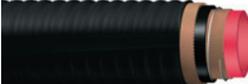
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Water Suction - Also Available: EPDM Aggie Water S & D					
	Green polypropylene and Black EPDM.	Agricultural suction, general industrial use where high working pressures are not required.	22 - 50 PSI 29" HG	1 1/2" - 6"	-40°C to +60°C -40°F to +140°F
EPDM Water Suction					
Steam - Also Available: Textile Steam					
	Red, heat, weather and abrasion resistant EPDM synthetic rubber tube and cover.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI.	250 PSI	1/2" - 3"	-40°C to +210°C -40°F to +406°F
Steam 250					
	Red abrasion resistant EPDM cover with Chlorobutyl synthetic rubber tube.	An extremely flexible steel reinforced hose for use with saturated steam at pressures to 250 PSI. Chlorobutyl tube has a low permeation factor resulting in resistance to popcorning of tube.	250 PSI	1/2" - 2"	-40°C to +210°C -40°F to +406°F
CB Steam 250					
Petroleum - Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt					
	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI 29" HG	3/4" - 6"	-35°C to +93°C -30°F to +200°F
Tank Truck					
	Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure.	An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 250 PSI. May also be used as hydraulic return line and suction.	250 PSI	2" - 6"	-35°C to +93°C -30°F to +200°F
Super Black 250					
	Blue weather and oil resistant synthetic rubber specially compounded for arctic service. Corrugated with white stripe.	Specially designed to remain flexible while handling a wide range of petroleum products, including gasoline and diesel under arctic conditions.	150 PSI	1 1/2" - 6"	-54°C to +90°C -65°F to +195°F
LW Arctic Superflex 150 Petroleum					
	Black, abrasion and oil resistant synthetic rubber with red stripe.	Specially designed for conveying hot oil and/or Glycol at temperatures up to 120°C (250°F).	150 PSI	2" - 4"	up to +120°C 250°F
H.O.T Oil Tank Truck					
	Black, abrasion, gasoline and oil resistant synthetic rubber with green stripe.	An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic return line and suction.	150 PSI	2" - 6"	-40°C to +93°C -40°F to +200°F
LW Petroleum Tank 150					
	Red, heat, oil and weather resistant Neoprene cover with nitrile tube.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	150 - 200 PSI	3/4" - 4"	-35°C to +88°C -30°F to +190°F
Petroleum Discharge					
	Black, heat, oil and weather resistant Neoprene.	For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.	250 PSI	2" - 6"	-35°C to +88°C -30°F to +190°F
Petroleum Discharge 250					
	Orange PVC helix with high tensile synthetic yarn reinforcement and built in static wire.	For use as a tank truck gravity drop hose. Also for use with oil, fuel and grease transfer, oil slurry, hydrocarbons and animal fat handling. Features an external helix that protects the hose cover as well as enabling the hose to slide over rough surface.	65 - 70 PSI 28" HG	2" - 4"	-29°C to +65°C -20°F to +150°F
Petroleum Drop Hose					



HOSE INFORMATION

HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Petroleum - Also Available: <i>Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery & Hot Tar & Asphalt</i>					
	Green PVC Helix with polyurethane cover. BDROP is clear wall for flow visibility and BDROPB is black with added UV resistance.	For use as a tank truck gravity drop hose with biofuel, gasoline, diesel and ethanol. Lightweight and flexible with exposed pvc helix making it very user friendly.	65 PSI	3" - 4"	-40°C to +65°C -40°F to +150°F
Urethane Bio-Drop Fuel Hose					
	Convuluted yellow helix.	Vapour recovery from petroleum transfer operations. Embedded static wire serves to dissipate static electricity. NOT SUITABLE FOR CONVEYING LIQUIDS	9 - 17 PSI	2" - 4"	-40°C to +65°C -40°F to +150°F
Vapour Thane Dust & Vapour Recovery Hose					
Material Handling - Also Available: <i>Tan Bulkmaster, Furnace Door Cooling, Concrete Boom, Concrete Placement & Bulkmaster Hardwall</i>					
	Thick black corrugated abrasion and weather resistant synthetic blend cover. Red 3/8" thick super abrasion resistant natural rubber tube.	Primarily designed for handling abrasive slurries in mines and quarries. Can also be used for dry material handling of sand, gravel, grain, slag, and other such materials. External re-usable bolt on flanges allow for ease of installation, and uninterrupted free flow.	150 PSI 30" HG	3" - 12"	-40°C to +80°C -40°F to +180°F
Aztec					
	Black abrasion and weather resistant synthetic rubber cover with black abrasion resistant natural rubber tube. Green stripe on 1/4" thick tube.	Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.	75 PSI	3" - 6"	-30°C to +80°C -25°F to +180°F
Bulkmaster Softwall					
	Black static conductive synthetic rubber cover with thick black static conductive abrasion resistant natural rubber tube.	For conducting sand, steel shot, and other abrasives for blast cleaning.	150 PSI	1/2" - 3"	-35°C to +80°C -30°F to +180°F
Sandblast					
	Black weather and abrasion resistant cover with black abrasion resistant pure gum rubber tube.	For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.	40 PSI 10 - 24" HG	1" - 6"	-30°C to +80°C -25°F to +180°F
Industrial Vacuum					
Chemical - Also Available: <i>Hypalon Acid S & D, Viton Lined S & D, EPDM Acid S & D</i>					
	Green smooth chemical resistant EPDM rubber cover with cross-linked polyethylene tube.	The cross-linked polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 90% of known chemical and petroleum products in both suction and discharge applications.	200 PSI 29" HG	1/2" - 4"	-29°C to +120°C -20°F to +248°F
Chemical					
	Green corrugated chemical resistant EPDM rubber with FDA UHMW polyethylene tube.	Similar to Chemical hose above but may be used at lower temperatures. More versatile than our Chemical hose, Flexchem handles 98 per cent of known chemicals and can be steam cleaned. Corrugated cover results in more flexible hose.	200 PSI 29" HG	3/4" - 4"	-40°C to +65°C -40°F to +150°F
Flexchem					
Material Handling Polyurethane and PVC - Also Available: <i>Grey PVC Vacuum</i>					
	Corrugated clear PVC rigid helix. FDA, 3A and USDA compliant.	Conveying of dry powders, grains and plastic pellets where viewing the product is important. B Flex Static has built-in static wire.	25 - 45 PSI 29" HG	1 1/2" - 3" and 39mm	-23°C to +65°C -10°F to +150°F
B Flex/B Flex Static					
	Corrugated clear PVC with clear rigid PVC helix. FDA, 3A and USDA compliant.	Suction and discharge of liquids, grains, plastic pellets and powders where moderate abrasion is a factor. Neptune Static has built-in static wire.	20 - 55 PSI 29" HG	1" - 8"	-23°C to +65°C -10°F to +150°F
Neptune Suction/Neptune Static Suction					

Other Hoses Available: *Auto Heater Hose, Marine Hardwall/Softwall/Fuel Fill Hose, Silicone Coolant and Heater Hose, Garage Exhaust Hose, Welding Hose, Pressure Washer Hose, Paint Spray Hose, Auto Fuel Line Hose.*

HOSE INFORMATION

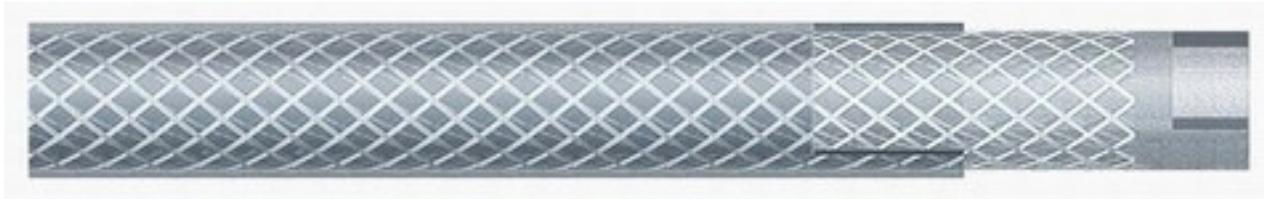
HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
Material Handling Polyurethane and PVC - Also Available: Grey PVC Vacuum					
	Corrugated clear abrasion and weather resistant Polyurethane with grey PVC helix. FDA, 3A and USDA compliant.	Ideal for applications where conventional rubber or PVC hose will wear rapidly, i.e. grain transfer, abrasive powder recovery, leaf collection. PU Vac Static has built-in static wire.	3 - 50 PSI 29" HG	1 1/2" - 6"	-40°C to +65°C -40°F to +150°F
PU Vac/PU Vac Lite/PU Vac Static					
	Blue HMW PVC up to 5" I.D. Black cover in 6" and 8" I.D.	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Also for use on vacuum excavation trucks. Cover is a specially formulated static dissipative compound with low temperature flexibility.	30 - 45 PSI 28 - 29" HG	2" - 8"	-40°C to +65°C -40°F to +150°F
ARI HD					
	This hose has a polyurethane tube with an HMC cover. Cover is a specially formulated technical alloy that makes this hose antistatic.	Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash.	30 - 45 PSI 29" HG	2" - 8"	-40°C to +65°C -40°F to +150°F
ARI					
Food - Also Available: Pure Gum Tubing, Polyethylene Tubing & Clear Vinyl Tubing					
	Smooth clear, food grade PVC non-marking with red rigid PVC helix. FDA, 3A and USDA compliant.	Alcoholic beverages up to 25% alcohol content. Fruit juices, soft drinks and other liquid foodstuffs. Also suitable for dry bulk foodstuffs.	35 - 85 PSI 29" HG	3/4" - 5" and 38 - 50mm	-23°C to +65°C -10°F to +150°F
Bacco					
	Red abrasion resistant natural rubber tube and cover.	Will handle a wide range of non fatty-oily food products up to 80°C where taste and aroma must not be affected.	140 PSI	3/4" - 3"	-35°C to +80°C -30°F to +180°F
Brewers and Beverage Discharge					
	Smooth clear PVC with wire helix. Super Wirevac has additional layer of fabric reinforcement. FDA, 3A, USDA and NSF-51 compliant.	An extremely flexible transparent hose for use where full vacuum performance is required while monitoring the contents of the hose. Ideal for use with most foodstuffs, cosmetics, beverages, and a wide range of chemical solutions. Also suitable for lubricating oils and animal fats.	45 - 250 PSI 28" HG	3/8" - 3"	-10°C to +65°C +15°F to +150°F
Wirevac					
	Clear PVC non-marking. FDA, 3A and USDA compliant.	For dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar etc. Clear wall allows visual inspection of the product.	50 - 85 PSI 29" HG	3/4" - 4"	-23°C to +65°C -10°F to +150°F
Foodflex PVC S & D					
	Clear PVC non-marking with high tensile yarn reinforcement. FDA, 3A and USDA compliant.	For liquid or dry bulk foodstuffs, pharmaceuticals, cosmetics, milk, fruit and vegetable juices, soft drinks, alcoholic beverages, flour, sugar, poultry or meat packing etc. Clear wall allows visual inspection of the product.	60 - 110 PSI 28 - 29" HG	2" - 8"	-23°C to +65°C -10°F to +150°F
Foodflex Textile Reinforced S & D (Food Grade)					



AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

CLEAR REINFORCED PVC (FOOD QUALITY)

APPLICATION: An economical hose for handling air, water, oil, mild chemicals, and alkalis. Clear wall allows visual inspection of product. COVER: Clear smooth PVC REINFORCEMENT: Multiple layers of synthetic yarns TUBE: Clear smooth PVC TEMPERATURE: -5C to +65C(+25F to +150F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
CRPVC-019	3/16	0.38	250	300	0.05	---
CRPVC-025	1/4	0.43	250	300	0.07	---
CRPVC-025-100	1/4	0.43	250	100	0.07	---
CRPVC-031	5/16	0.53	300	300	0.08	---
CRPVC-031-100	5/16	0.53	300	100	0.08	---
*CRPVC-038	3/8	0.59	250	300	0.09	---
CRPVC-038-100	3/8	0.59	250	100	0.09	---
*CRPVC-050	1/2	0.71	250	300	0.15	---
*CRPVC-050-100	1/2	0.71	250	100	0.15	---
CRPVC-063	5/8	0.87	200	300	0.17	---
CRPVC-063-100	5/8	0.87	200	100	0.17	---
CRPVC-075	3/4	1.02	180	300	0.23	---
CRPVC-075-100	3/4	1.02	180	100	0.23	---
*CRPVC-100	1	1.30	150	300	0.32	---
*CRPVC-100-100	1	1.30	150	100	0.32	---
CRPVC-125	1-1/4	1.61	100	100	0.58	---
CRPVC-150	1-1/2	1.89	85	100	0.69	---
CRPVC-200	2	2.44	65	100	1.00	---

Standard Length: 3/16"-3/4" 100'/300' coil, 1" 100'/200' coil, 1-1/4"-2" 100' coil

Product Info: Compliant with the applicable requirements and standards of FDA USDA 3-A and NSF-51. Please specify length when ordering i.e. 100' or 300'

Safety Info: Working pressure ratings are based on 20C (68F). At operating temperature of +65C (150F) reduce working pressure by 50%. Recommended Couplings: Combination nipples, short shank, brass barbed, cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

HOT AIR BLOWER HOSE



APPLICATION:FOR CONVEYING HOT AIR FROM BLOWER TO TANK ON DRY BULK TRUCKS.

COVER:Black heat and weather resistant EPDM rubber.

REINFORCEMENT:High tensile wire helix embedded between layers of heat resistant synthetic fabric.

TUBE:Black specially compounded heat resistant EPDM rubber.

TEMPERATURE:-40C to +163C(-40F to +350F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS	STD PACK	WEIGHT#	LIST PRICE
*BLOW150-300	3	3.62	150	12.00	100	1.75	---
*BLOW150-400	4	4.65	150	15.00	100	2.40	---

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

JACKHAMMER - AIR



APPLICATION:An economical air hose for jackhammer and other uses on construction sites. Also for general industrial use

COVER:Red smooth cut and abrasion resistant **REINFORCEMENT:**Multiple layers of synthetic yarn **TUBE:**Synthetic oil mist resistant

TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	COLOR	LIST PRICE
JACK-075-50	3/4	1.14	300	50	0.40	Yellow	---
JACK-075R-50	3/4	1.14	300	50	0.40	Red	---
JACK-075G-50	3/4	1.14	300	50	0.40	Green	---
JACK-075BL-50	3/4	1.14	300	50	0.40	Blue	---
JACK-075-CUASSP*	3/4"	1.14	300	50	0.40	Yellow	---
JACK-075R-CUASSP	3/4"	1.14	300	50	.40	Red	---

Standard Length: 50'

Recommended Couplings: High Pressure, mine stem and nut, Universal quick acting. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

* C/W CRIMP UNIVERSAL ASSEMBLED

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

EPDM GENERAL PURPOSE 300

APPLICATION: Air, water, agricultural spray solutions, and other dilute chemicals Excellent resistance to heat and weathering Also resists animal fats, vegetable oils.

COVER: Smooth red abrasion and weather resistant EPDM synthetic rubber

REINFORCEMENT: Multiple layers of synthetic yarn TUBE: Synthetic oil mist resistant EPDM synthetic rubber

TEMPERATURE: -30C to +93C (-20F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
*GPE-025-300	1/4	0.55	300	300	0.14	---
*GPE-038-300	3/8	0.70	300	300	0.20	---
*GPE-050-300	1/2	0.87	300	300	0.27	---
*GPE-063-300	5/8	0.98	300	300	0.31	---
GPE-075-300	3/4	1.16	300	300	0.44	---
*GPE-100-300	1	1.42	300	300	0.59	---

Standard Length: 300'

Recommended Couplings: High Pressure, Short shank, universal, or Combination nipples all other sizes. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PREMIUM GENERAL PURPOSE NON CONDUCTIVE WITH REEL

APPLICATION: Air, water, agricultural spray solutions, and other dilute chemicals Excellent resistance to heat and weathering Also resists animal fats, vegetable oils.

COVER: Red, Oil, Grease, Weather & Abrasion resistant nitrile

REINFORCEMENT: Multiple layers of synthetic yarn TUBE: Synthetic oil mist resistant EPDM synthetic rubber

TEMPERATURE: -30C to +93C (-20F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PREMR-038-300	3/8	0.67	300	300	0.17	---
PREMR-050-300	1/2	0.79	300	300	0.21	---
PREMR-075-300	3/4	1.14	300	300	0.39	---
PREMR-100-300	1	1.42	300	300	0.51	---
PREM-125-250	1-1/4	1.77	300	200	0.70	---

Standard Length: 1/4"- 1" 50'/100'/300'. 1-1/4" - 2" 50'/100'.

Recommended Couplings: High Pressure 1" to 1-1/2" for air service if the working pressure exceeds 150 psi. High Pressure, Short shank, universal, or Combination nipples all other sizes. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

AIR & GENERAL PURPOSE HOSE

HOSE ACCESSORIES

PUSH-ON BLACK



APPLICATION: Transmission of most petroleum-based hydraulic fluids, mineral oil, diesel fuel, engine coolant solutions, agricultural sprays and a wide range of chemical solutions. Also suitable for air and water service

COVER: Black, oil, weather and abrasion resistant Neoprene.

REINFORCEMENT: Multiple layers of polyester yarns.

TUBE: Black oil resistant nitrile rubber.

TEMPERATURE: -32C to +80C (-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PON-025-B	1/4	0.50	250	700'	0.10	---
PON-038-B	3/8	0.63	250	700'	0.14	---
PON-050-B	1/2	0.75	250	700'	0.17	---
PON-063-B	5/8	0.91	250	700'	0.19	---
PON-075-B	3/4	1.03	250	700'	0.19	---

Standard Length: Supplied on reels

Recommended Couplings: Push-on

MARINE EXHAUST HARDWALL



APPLICATION: Marine exhaust applications, and other general applications where non-standard sizes are specified. Meets SAEJ 2006 R1

COVER: Black heat and weather resistant synthetic rubber with blue identification stripe.

REINFORCEMENT: High tensile wire helix embedded between layers of textile cords.

TUBE: Black heat resistant rubber specially compounded for wet marine exhaust service.

TEMPERATURE: -40C to +100C (-40F to +212F)

PART #	NOM. ID"	NOM. OD"	STD PACK	WEIGHT#	LIST PRICE
MXH-238	2-3/8	2.68	100'	1.98	---
MXH-250	2-1/2	2.81	100'	1.82	---
MXH-300	3	3.54	100'	2.12	---
MXH-350	3-1/2	4.09	100'	2.77	---
MXH-400	4	4.57	100'	3.22	---
MXH-500	5	5.55	100'	3.59	---

Standard Length: not on reels

Recommended Couplings: Push-on

MATERIAL HANDLING**HOSE ACCESSORIES****FUEL LINE**

APPLICATION: Fuel and vapour emission lines, meets SAE 30R7 specification and is USCG Type B and BIA approved.

COVER: Black heat and fuel resistant Hypalon.

REINFORCEMENT: Two layers of synthetic yarns.

TUBE: Black fuel resistant nitrile rubber.

TEMPERATURE: -40C to +120C (-40F to +250F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
FUEL-025	1/4	0.49	50	300'	0.10	---
FUEL-031	5/16	0.58	50	300'	0.13	---
FUEL-038	3/8	0.63	50	300'	0.13	---

Cut Lengths: Plus 5%

Standard Length: 300' coils:

Recommended Couplings: Barbed short shank, combination nipples.

ARI SUCTION

APPLICATION: Used in a variety of material handling application where a good resistance to abrasion is required, such as transfer of sands, plastic pellets, gravel, wood chips, slurries and fly ash. Cover is a specially formulated static dissipative compound with low temperature flexibility.

COVER: Black HMW PVC

REINFORCEMENT: Anti shock rigid pvc helix

TUBE: Polyurethane

TEMPERATURE: -40C to +65C (-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
ARI-300	3	3.65	29	40	4.00	100'	1.18	---
ARI-400	4	4.76	29	35	6.00	100'	1.95	---
ARI-600	6	6.80	28	30	12.00	100'	3.51	---

Standard Length: 100'

Safety Info: Suction and pressure ratings are based on a temperature of 20C (68F), reduce ratings by 50% at maximum working temperature. This hose has no fabric reinforcement and normally should not be used under pressure for service at temperatures above 25C (75F).

Recommended Couplings: Cam and groove

MATERIAL HANDLING

HOSE ACCESSORIES

BULKMASTER SOFTWALL



APPLICATION: Dry bulk discharge including limestone, ground silica, chalk, dry cement, fertilizer etc. May also be used for wet abrasive applications.

COVER: Black abrasion and weather resistant synthetic rubber.

REINFORCEMENT: Multiple layers of high tensile synthetic cords.

TUBE: Black abrasion resistant ant-static natural rubber in 1/8", 3/16" and 1/4"

TEMPERATURE: -30C to +80C (-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
BSB-400-187	4	4.64	75	100'	2.33	---
BSB-400-250	4	4.72	75	100'	2.65	---
BSB-450-125	4-1/2	5.00	75	100'	2.09	---
BSB-500-187	5	5.63	75	100'	2.75	---
BSB-500-250	5	5.79	75	100'	3.50	---
BSB-600-250	6	6.81	75	100'	4.29	---

Standard Length: 100'

Product Info: Longer lengths available, check for price and availability

Recommended Couplings: Cam and groove. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

INDUSTRIAL VACUUM HEAVY DUTY LENGTHS



APPLICATION: For handling abrasive dust from wood, metal, rock, marble and concrete grinding machines under vacuum.

COVER: Black abrasion resistant rubber, corrugated for flexibility.

REINFORCEMENT: A high tensile steel helix embedded between layers of textile cords.

TUBE: 1/4" or 1/8" red Pure Gum abrasion resistant rubber standard.

TEMPERATURE: -30C to +80C (-25F to +180F)

PART #	ASSEMBLY DESCRIPTION	NOM. OD"	VACUUM	PSI	BEND RADIUS"	WEIGHT#	LIST PRICE
IVB-800-250RPG2	8"x25' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	190.00	---
IVB-800-250RPG3	8"x32' H.D.IND VAC. 1/4" Red w/cuffs	9.01	28	50	30.00	243.80	---
IVB-800-250RPG7	8"x70' H.D.IND VAC. 1/4" Red Tube	9.01	28	50	30.00	716.10	----

MATERIAL HANDLING**HOSE ACCESSORIES****SANDBLAST**

APPLICATION: For conducting sand, steel shot, and other abrasives for blast cleaning.

COVER: Black static conductive synthetic rubber.

REINFORCEMENT: Two (SBB) or Four (SBB4) layers of synthetic textile cords.

TUBE: Thick black static conductive abrasion resistant natural rubber.

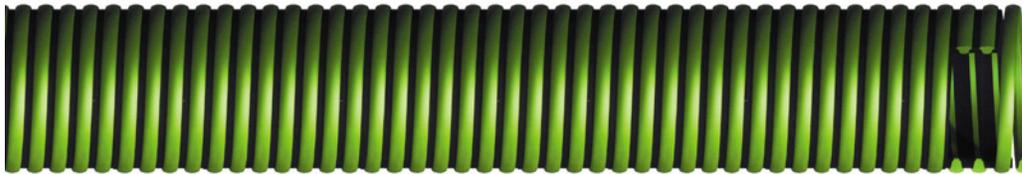
TEMPERATURE: -35C to +80C (-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
SBB-075-100	3/4	1.50	150	100'	0.68	---
SBB-075-50	3/4	1.50	150	50'	0.68	---
SBB-125-100S	1-1/4	2.16	150	100'	1.22	---
SBB-125-50S	1-1/4	2.16	150	50'	1.22	---
SBB-150-50	1-1/2	2.36	150	50'	1.36	---
SBB-300	3	3.98	150	100'	2.57	---

Standard Length: 50'/100'

Product Info: Longer lengths available up to 200'. Surcharges may apply

Recommended Couplings: Sandblast

EPDM WATER SUCTION

APPLICATION: For use in liquid waste suction application. Also for use with liquid or dry chemical suction applications or general industrial use where high working pressures are not required.

COVER: Green Polyethylene helix and specially formulated rubber.

REINFORCEMENT: Rigid green Polyethylene helix.

TUBE: Smooth specially formulated rubber

TEMPERATURE: -40C to +60C (-40F to +140F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
EPDM-150	1-1/2	1.85	29	50	3.50	100'	0.40	---
EPDM-200	2	2.44	29	50	5.50	100'	0.67	---
EPDM-300	3	3.52	29	42	7.50	100'	1.10	---
EPDM-400	4	4.61	29	38	12.00	100'	1.84	---

Standard Length: 100'

Recommended Couplings: Cam and groove or short shank, Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM & CHEMICAL HOSE

HOSE ACCESSORIES

FLEXLITE UHMW



APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications. This hose is very flexible due to its corrugated cover and low temperature characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.

COVER:Green corrugated chemical resistant EPDM rubber

REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.

TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube

TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
FLX-075	3/4	1.22	29	200	2.00	100'	0.40	---
FLX-100	1	1.46	29	200	2.50	100'	0.47	---
FLX-150	1-1/2	2.01	29	200	3.75	100'	0.80	---
FLX-200	2	2.52	29	200	5.00	100'	1.00	---
FLX-300	3	3.58	29	200	7.50	100'	1.74	---
FLX-400	4	4.64	29	150	10.00	100'	2.48	---

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple.

All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose.

FLEXLITE CORRUGATED



APPLICATION:The (UHMW) Ultra High Molecular Weight polyethylene tube makes this one of the most versatile types of hose available to the chemical industry today. It will handle 94% of common chemical and petroleum products in both suction and discharge applications. This hose is very flexible due to its corrugated cover and low temperature characteristics. This hose can also be used in dry food applications due to its FDA Compliant tube.

COVER:Green chemical resistant EPDM rubber

REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.

TUBE:Smooth chemical resistant (UHMW) Ultra High Molecular Weight polyethylene FDA Compliant tube

TEMPERATURE:-40C to +100C(-40F to +212F) Can be open end steam cleaned to 120C or 248F for 30 minutes

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
FLXS-100	1	1.46	29	200	4.00	100'	0.62	---
FLXS-200	2	2.60	29	200	6.00	100'	1.14	---
FLXS-300	3	3.62	29	200	8.00	100'	2.26	---
FLXS-400	4	4.65	29	200	12.00	100'	3.25	---

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple.

All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

FLEXLITE PETROLEUM TANK 150

APPLICATION:An all purpose lightweight and flexible petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black corrugated, abrasion, gasoline and oil resistant synthetic rubber with green stripe.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
TTD150-200	2	2.53	29	150	4.00	100'	1.44	---
TTD150-300	3	3.62	29	150	6.00	100'	2.48	---
TTD150-400	4	4.72	29	150	9.00	100'	3.63	---

Standard Length: 100'

Product Info: Longer lengths available on request. Please check for availability and pricing

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

TANK TRUCK 150

APPLICATION: An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.
COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.
REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.
TUBE:Black nitrile rubber for maximum oil resistance.
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
TLBS150-100	1	1.42	29	150	3.00	100	0.57	---
TLBS150-150	1-1/2	1.93	29	150	4.00	100	0.81	---
TLBS150-200	2	2.52	29	150	4.50	100	1.38	---
TLBS150-300	3	3.54	29	150	7.00	100	2.19	---
TLBS150-400	4	4.68	29	150	10.00	100	3.56	---
TLBS150-600	6	6.89	29	150	21.00	100	6.65	---

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM & CHEMICAL HOSE

HOSE ACCESSORIES

TANK TRUCK



APPLICATION: An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.

COVER: Black, abrasion, gasoline and oil resistant synthetic rubber with blue stripe and pressure

REINFORCEMENT: High tensile wire helix embedded between layers of textile cords.

TUBE: Black nitrile rubber for maximum oil resistance.

TEMPERATURE: -35C to +93C (-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
TLB-075	3/4	1.14	29	150	3.00	100'	0.43	---
TLB-100	1	1.42	29	150	3.00	100'	0.57	---
TLB-125	1-1/4	1.65	29	150	3.50	100'	0.62	---
TLB-150	1-1/2	1.93	29	150	4.00	100'	0.81	---
TLB-200	2	2.52	29	150	4.50	100'	1.38	---
TLB-250	2-1/2	2.99	29	150	4.75	100'	1.72	---
TLB-400	4	4	29	150	10.00	100'	3.56	---
TLB-600	6	6	29	150	21.00	100'	6.65	----

OIL VACUUM - SMOOTH



APPLICATION: An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions. May also be used as hydraulic suction and return line.

COVER: Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure.

REINFORCEMENT: High tensile wire helix embedded between layers of textile cords.

TUBE: Black nitrile rubber for maximum oil resistance.

TEMPERATURE: -35C to +93C (-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
OILVS-150	1-1/2	1.89	29	150	4.00	100	0.75	---
OILVS-200	2	2.43	29	150	4.50	100	1.07	---
OILVS-300	3	3.47	29	150	7.00	100	1.78	---
OILVS-400	4	4.52	29	150	10.00	100	2.58	---
OILVS-600	6	6.60	29	150	21.00	100	5.50	----

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

TANK TRUCK 300



APPLICATION:An all purpose petroleum suction and discharge hose for use with gasoline, kerosene, diesel, oil suspensions and emulsions up to 300 PSI. May also be used as hydraulic suction and return line.

COVER:Black, abrasion, gasoline and oil resistant synthetic rubber with red stripe and pressure

REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.

TUBE:Black nitrile rubber for maximum oil resistance.

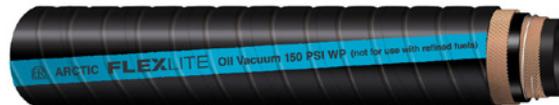
TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
TLBS300-200	2	2.62	29	300	5.00	100'	1.43	---
TLBS300-300	3	3.67	29	300	7.00	100'	2.20	---
TLBS300-400	4	4.71	29	300	10.00	100'	3.63	---
TLBS300-600	6	6.91	29	300	21.00	100'	6.90	---

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

OIL VACUUM CORRUGATED



APPLICATION:Designed for transferring petroleum waste, sediments, sludge, diluted mild chemicals, brine and water in oil field tank and waste pit recovery applications, not suitable for refined petroleum products or high concentrations of chemicals

COVER:Black, corrugated abrasion oil resistant synthetic rubber with blue stripe and pressure

REINFORCEMENT:High tensile wire helix embedded between layers of textile cords.

TUBE:Black synthetic rubber for maximum oil resistance.

TEMPERATURE:-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
OILVC-200	2	2.44	29	150	4.00	100'	0.89	---
OILVC-300	3	3.46	29	150	6.00	100'	1.42	---
OILVC-400	4	4.52	29	150	9.00	100'	2.44	---

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

FRACLINE 400



APPLICATION: For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.

COVER: Black, heat, oil and weather resistant Neoprene.

REINFORCEMENT: Multiple layers of synthetic textile cords, with static wire.

TUBE: Black, heat and oil resistant synthetic rubber.

TEMPERATURE: -35C to +88C (-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
FRAC400-300	3	3.65	400	100'	1.80	---
FRAC400-400	4	4.80	400	100'	2.81	---
FRAC400-600	6	6.80	400	100'	5.20	---

Standard Length: 100'

Recommended Couplings: Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM DISCHARGE



APPLICATION: For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions.

COVER: Red, heat, oil and weather resistant Neoprene.

REINFORCEMENT: Multiple layers of synthetic textile cords, with static wire.

TUBE: Black, heat and oil resistant synthetic rubber.

TEMPERATURE: -35C to +88C (-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PDR-125	1-1/4	1.69	150	100'	0.58	---
PDR-150	1-1/2	1.97	150	100'	0.78	---
PDR-300	3	3.50	150	100'	1.64	---
PDR-400	4	4.57	150	100'	2.46	---
PDR-600	6	6.72	150	100'	3.89	---

Standard Length: 50'/100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference.

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

PETROLEUM DISCHARGE 250



APPLICATION:For handling a wide range of petroleum products, including gasoline, as well as a number of chemical solutions. Specifically designed for use in Frac service.

COVER:Black, heat, oil and weather resistant Neoprene.

REINFORCEMENT:Multiple layers of synthetic textile cords, with static wire.

TUBE:Black, heat and oil resistant synthetic rubber.

TEMPERATURE:-35C to +88C(-30F to +190F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
PDB250-200	2	2.50	250	100'	1.14	---
PDB250-300	3	3.54	250	100'	1.80	---
PDB250-400	4	4.64	250	100'	2.81	---
PDB250-600	6	6.69	250	100'	5.20	---

Standard Length: 50'/100'

Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HOT TAR AND ASPHALT



APPLICATION:Specially designed for conveying hot tar and asphalt at temperatures up to 160 C (350 F).

COVER:Black Neoprene synthetic rubber.

REINFORCEMENT:High tensile wire helix embedded between multiple layers of heat resistant synthetic yarns

TUBE:Specially compounded heat resistant synthetic rubber compound.

TEMPERATURE:up to +177C(350F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
HTA-300	3	3.77	150	100'	2.94	---
HTA-400	4	4.85	150	100'	4.20	---

Standard Length: 100'

Recommended Couplings: Cam and Grove, combination nipple. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

PETROLEUM STEAM AND CHEMICAL HOSE

HOSE ACCESSORIES

STEAM 250 BLACK



APPLICATION: An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER: Black abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT: Multiple layers of high tensile steel cords.
TUBE: Black heat resistant EPDM synthetic rubber.
TEMPERATURE: -40C to +210C (-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
ST250B-075-50	3/4	1.26	250	50'	0.48	---
ST250B-100-50	1	1.50	250	50'	0.60	---
ST250B-150-50	1-1/2	2.13	250	50'	1.10	---
ST250B-200-50	2	2.64	250	50'	1.48	---

Standard Length: 50'
Recommended Couplings: High Pressure with interlocking clamps

STEAM 250



APPLICATION: An extremely flexible hose for use with saturated steam at pressures to 250 PSI .
COVER: Red abrasion and heat resistant EPDM rubber, with embossed brand and pressure.
REINFORCEMENT: Multiple layers of high tensile steel cords.
TUBE: Black heat resistant EPDM synthetic rubber.
TEMPERATURE: -40C to +210C (-40F to +406F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
ST250-075-50	3/4	1.26	250	50'	0.48	---
ST250-075-100	3/4	1.26	250	100'	0.48	---
ST250-100-50	1	1.50	250	50'	0.60	---
ST250-100-100	1	1.50	250	100'	0.60	---
ST250-200-50	2	2	250	50'	1.48	---
ST250-200-100	2	2	250	100'	1.48	---
ST250-300	3	3	250	100'	3.40	---

Standard Length: 50'/100'
Product Info: Longer lengths available on request. Please check for availability and pricing
Recommended Couplings: High Pressure with interlocking clamps



WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

BLUE LAYFLAT

APPLICATION: A light duty layflat hose for portable pump and irrigation use.

COVER: Blue PVC impregnation. REINFORCEMENT: Woven high tensile synthetic yarns. TUBE: Blue PVC impregnation.

TEMPERATURE: -10C to +55C (15F to +130F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
BLAY-100	1	1.11	150	300	0.13	---
BLAY-125	1-1/4	1.37	130	300	0.15	---
BLAY-150	1-1/2	1.63	70	300	0.15	---
*BLAY-200	2	2.13	65	300	0.20	---
BLAY-250	2-1/2	2.63	65	300	0.27	---
*BLAY-300	3	3.13	60	300	0.33	---
*BLAY-400	4	4.14	60	300	0.46	---
*BLAY-600	6	6.15	35	300	0.78	---

Standard Length: Multiples of 50' up to 300' maximum

Product Info: Please specify length required when ordering, i.e. 50', 100'

Safety Info: Reduce pressures by 50% at maximum working temperature

Recommended Couplings: Cam and groove or short shank

BLUE LAYFLAT ASSEMBLY

PART #	ASSEMBLY DESCRIPTION	WEIGHT#	LIST PRICE
BLAY-150-CASS	1-1/2" X 50' BLUE LAYFLAT +C/E CAMLOCK	7.00	---
BLAY-200-CASS	2" X 50' BLUE LAYFLAT +C/E CAMLOCK	12.20	---
*BLAY-300-CASS	3" X 50' BLUE LAYFLAT +C/E CAMLOCK	20.63	---
*BLAY-400-CASS	4" X 50' BLUE LAYFLAT +C/E CAMLOCK	29.49	---
BLAY-600-CASS	6" X 50' BLUE LAYFLAT +C/E CAMLOCK	51.08	---

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

BROWN LAYFLAT - HEAVY DUTY



APPLICATION: Heavy duty layflat hose for portable pump and irrigation use.

COVER: Brown PVC impregnation.

REINFORCEMENT: Woven high tensile synthetic yarns.

TUBE: Brown heavy PVC impregnation.

TEMPERATURE: -10C to +60C (15F to +140F)

PART #	NOM. ID"	NOM.OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
BRLAYHD-200	2	2.15	150	300'	0.26	---
BRLAYHD-300	3	3.19	150	300'	0.52	---
BRLAYHD-400	4	4.27	135	300'	0.74	---
BRLAYHD-600	6	6.26	115	300'	1.21	---



WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

DURAFLEX - RUBBER LAYFLAT

APPLICATION: Specifically manufactured to compete with OROFLEX imitation hose. This is a lightweight high pressure, extremely strong hose for general water discharge service. Ideal for rental service where long life and competitive pricing is paramount. Its compact characteristics make this an ideal hose for use with portable pumps. Especially suited for pumping oily contaminated water. **COVER:** Black abrasion, weather and oil resistant nitrile rubber. **REINFORCEMENT:** Circular woven synthetic yarns.

TUBE: Black abrasion and oil resistant nitrile rubber.

TEMPERATURE: -20C to +80C (0F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
DURFL-200	2	2.18	200	300	0.31	---
*DURFL-300	3	3.22	175	300	0.59	---
*DURFL-400	4	4.24	150	300	0.65	---
*DURFL-600	6	6.26	150	300	1.10	---

Standard Length: 50'/100'

Product Info: 200 Lengths Will Be Shipped Unless Otherwise Specified On Duraflex

Recommended Couplings: Cam and groove, combination nipples or short shank. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases, the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

DURAFLEX - RUBBER LAYFLAT ASSEMBLY

PART #	ASSEMBLY DESCRIPTION	WEIGHT#	LIST PRICE
DURFL-200-CCASSP	2"x50' DURAFLEX + C/E CAMLOCK	14.20	---
DURFL-300-CCASSP	3"x50' DURAFLEX + C/E CAMLOCK	21.63	---
DURFL-400-CCASSP	4" x 50' DURAFLEX + C/E CAMLOCK	28.99	----
DURFL-400-CASSP	4"x50' DURAFLEX + C/E CAMLOCK	28.99	---
DURFL-600-CASSP	6"x50' DURAFLEX + C/E CAMLOCK	51.67	----

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

HIGH PRESSURE CONTRACTORS WATER DISCHARGE



APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads

COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.

REINFORCEMENT:Multiple layers of synthetic yarn.

TUBE:Black synthetic rubber compounded for water service.

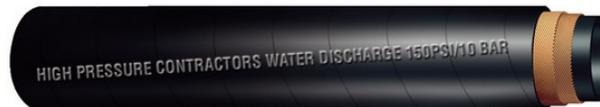
TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
HPCWB-150	1-1/2	1.77	150	100'	0.49	---
HPCWB-200	2	2.28	150	100'	0.48	---
HPCWB-300	3	3.35	150	100'	1.08	---
HPCWB-400	4	4.37	150	100'	1.38	---
HPCWB-600	6	6.46	150	100'	2.62	---

Standard Length: 50'/100'

Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

HIGH PRESSURE WATER DISCHARGE 250



APPLICATION:For use on construction sites and general water service. High pressure allows pumping against greater vertical heads

COVER:Black abrasion and weather resistant synthetic rubber, with embossed brand and pressure.

REINFORCEMENT:Multiple layers of synthetic yarn.

TUBE:Black synthetic rubber compounded for water service.

TEMPERATURE:-35C to +80C(-30F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#	LIST PRICE
HPCWB200-150	1-1/2			100'		---
HPCWB250-200	2	2.40	250	100'	1.15	---
HPCWB250-300	3	3.46	250	100'	1.60	---
HPCWB200-400	4	4.48	200	100'	2.15	---

Standard Length: 100'

Recommended Couplings: Cam and groove, combination nipples or short shank. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

SATURN GREEN PVC WATER S&D

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.

COVER:Clear abrasion and weather resistant PVC.

REINFORCEMENT:Green PVC helix.

TUBE:Smooth clear PVC.

TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SATG-075	3/4	0.95	29	90	2.00	100	0.16	---
*SATG-100	1	1.24	29	85	3.00	100	0.26	---
*SATG-125	1-1/4	1.54	29	80	4.00	100	0.34	---
*SATG-150	1-1/2	1.81	29	70	6.00	100	0.44	---
*SATG-200	2	2.29	29	65	5.00	100	0.57	---
SATG-250	2-1/2	2.85	29	60	6.00	100	0.87	---
*SATG-300	3	3.43	29	60	12.00	100	1.21	---
SATG-400	4	4.45	29	50	10.00	100	1.78	----

Standard Length: 100'

Safety Info: Reduce pressures by 50% at maximum working temperature

Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN OLIVE GREEN PVC WATER S&D

APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.

COVER:Green abrasion and weather resistant PVC.

REINFORCEMENT:Green PVC helix

TUBE:Smooth green PVC

TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
*SATO-200	2	2.34	29	5.00	100	0.66	---
*SATO-300	3	3.46	29	12.00	100	1.24	---
SATO-400	4	4.49	29	10.00	100	1.85	----

Standard Length: 100'

Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature

Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

SATURN PVC WATER S&D



APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations. Specially formulated compounds and a slightly corrugated cover allow for increased flexibility at low temperatures.

COVER:Clear abrasion and weather resistant extra soft PVC.

REINFORCEMENT:Blue PVC helix. SAT-XXX-BLK - Black helix

TUBE:Smooth clear extra soft PVC.

TEMPERATURE:-40C to +65C(-40F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SAT-200	2	2.35	26	35	5.00	100'	0.49	---
SAT-300	3	3.42	24	30	7.50	100'	0.81	---
SAT-400	4	4.50	22	25	10.00	100'	1.52	---
SAT-600	6	6.58	22	21	15.00	100'	2.72	----

Standard Length: 100'

Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature. **Recommended Couplings:** Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

SATURN WHITE PVC WATER SUCTION AND DISCHARGE HOSE



APPLICATION:An economical, flexible hose for construction pumps, septic tank & marine pump-out service. Resistant to some chemicals, mild acids & alkalis. Consult us for recommendations.

COVER:Clear abrasion and weather resistant PVC.

REINFORCEMENT:White PVC helix.

TUBE:Smooth clear PVC.

TEMPERATURE:-20C to +65C(-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SATW-100	1	1.18	29	85	3.00	100'	0.19	---
SATW-125	1-1/4	1.47	29	80	3.00	100'	0.29	---
SATW-150	1-1/2	1.72	29	70	4.00	100'	0.35	---
SATW-200	2	2.29	29	65	5.00	100'	0.57	---
SATW-300	3	3.35	29	55	8.00	100'	1.03	---
SATW-400	4	4.45	29	50	10.00	100'	1.78	---
SATW-600	6	6.56	29	40	24.00	100'	3.70	----

Standard Length: 100'

Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature. **Recommended Couplings:** Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

SUPERFLEX PVC SUCTION

APPLICATION: Specially designed for use in the installation of pool, spa and hot tubs. Can also be used in a variety of water transfer applications where flexible lines are needed to replace rigid piping.

COVER: Blue extra soft low temperature PVC

REINFORCEMENT: Anti-shock rigid PVC helix

TUBE: Blue Extra Soft Low temperature PVC

TEMPERATURE: -20C to +65C (-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
SUPER-200	2	2.39	29	70	7.00	100'	0.75	---

Standard Length: 100'

Product Info: Our warranty does not cover damage caused by rodents or any insect. Not for underground use in areas infested by termites.

Safety Info: Suction and Pressure ratings are based on a temperature of 20C (68F), reduce by 50% at maximum working temperature

Recommended Couplings: SCH40

RUBBER WATER S&D

APPLICATION: A heavy duty wire reinforced rubber suction hose for construction, quarries and general use.

COVER: Black smooth abrasion and weather resistant synthetic rubber. REINFORCEMENT: High tensile wire helix embedded between layers of textile cords. TUBE: Smooth black synthetic rubber.

TEMPERATURE: -30C to +80C (-22F to +180F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
WSB-125	1-1/4	1.65	29	150	4.00	100	0.77	---
*WSB-150	1-1/2	1.93	29	150	4.00	100	1.00	---
*WSB-200	2	2.48	29	150	5.00	100	1.37	---
*WSB-300	3	3.50	29	150	10.00	100	2.23	---
*WSB-400	4	4.64	29	150	14.00	100	3.73	---
*WSB-600	6	6.66	29	150	30.00	100	5.99	----

Standard Length: 3/4" to 4" - 50'/100' -- 5" and 6" - 20'/100' -- 8" - 20'/60' -- 10" - 40' -- 12" - 20'

Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. Cam and groove,

combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are

derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose.

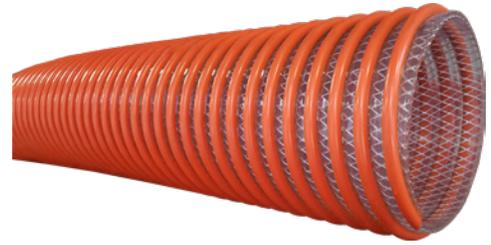
Never exceed the working

pressure of the lowest rated component in the assembly.

WATER SUCTION & DISCHARGE HOSE

HOSE ACCESSORIES

TEXTILE REINFORCED S&D



APPLICATION: Good for both suction and discharge applications, this heavy duty hose can be used for rental/construction pumping as well as fish suction hose.

COVER: Clear abrasion and weather resistant PVC. REINFORCEMENT: Orange PVC helix with high tensile synthetic textile yarn. TUBE: Smooth clear PVC.

TEMPERATURE: -23C to +65C (-10F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#	LIST PRICE
*RSPVC -200	2	2.59	29	110	4.00	100	0.65	----
*RSPVC-300	3	3.71	29	100	6.00	100	1.12	---
*RSPVC-400	4	4.78	29	80	7.00	100	1.74	---
*RSPVC-600	6	7.17	28	70	10.50	100	3.87	---

Standard Length: 100'

Safety Info: Reduce pressures by 50% at maximum working temperature

Recommended Couplings: Cam and groove, combination nipple or short shank. Crimplok cam and groove, Crimplok nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never exceed the working pressure of the lowest rated component in the assembly.



**BUCHANAN
RUBBER LTD**

A MIDLAND INDUSTRIES COMPANY

Air & Water Hoses



HOSE ASSEMBLES

HOSE ACCESSORIES

MIDLAND GENERAL PURPOSE AIR HOSE



COVER: Mix of Natural & Synthetic Rubbers
 REINFORCEMENT: Polyester Yarn
 TUBE: Natural Rubber
 TEMPERATURE: "-40°F to 190°F, -40°C to 90°C"

PART #	DESCRIPTION	COVER COLOR	BEND RADIUS (UOM) (IN)	W.P. (PSI)	B.P. (PSI)	WAR-RANTY (YEARS)	CASE QTY	CASE WEIGHT	LIST PRICE
RAIR-025-300BM45	1/4" Hose x 1/4"mnpt 50' Red	Red	0.5	300	1200	2	6	19.72	
RAIR-038-300BM45	3/8" Hose x 1/4"mnpt 50' Red	Red	0.6	300	1200	2	4	15.67	
RAIR-050-300BM65	1/2" Hose x 3/8"mnpt 50' Red	Red	0.8	300	1200	2	4	17.32	

MIDLAND PLUS RUBBER AIR HOSE



COVER: Ozone & Weather Resistant Synthetic EPDM Rubber & Other synthetic rubbers
 REINFORCEMENT: Polyester Yarn
 TUBE: Mix of Natural & Synthetic Rubbers
 TEMPERATURE: "-50°F to 190°F, -45°C to 90°C"

PART #	DESCRIPTION	COVER COLOR	BEND RADIUS (UOM) (IN)	W.P. (PSI)	B.P. (PSI)	WAR-RANTY (YEARS)	CASE QTY	CASE WEIGHT	LIST PRICE
BAIRLT-025-300BM45-25	1/4" Hose x 1/4"mnpt 50' Blue	Blue	0.48	300	1200	10	6	11.86	
BAIRLT-025-300BM45	3/8" Hose x 1/4"mnpt 50' Blue	Blue	58	300	1200	10	4	10.54	
BAIRLT-025-300BM45-100	1/2" Hose x 3/8"mnpt 50' Blue	Blue	0.95	300	1200	10	4	13.54	
BAIRLT-038-300BM45-25	1/4" Hose x 1/4"mnpt 25' Blue	Blue							
BAIRLT-038-300BM45	1/4" Hose x 1/4"mnpt 100' Blue	Blue							
BAIRLT-038-300BM45-100	3/8" Hose x 1/4"mnpt 25' Blue	Blue							
BAIRLT-050-300BM65-25	3/8" Hose x 1/4"mnpt 100' Blue	Blue							
BAIRLT-050-300BM65	1/2" Hose x 3/8"mnpt 25' Blue	Blue							
BAIRLT-050-300BM65-100	1/2" Hose x 3/8"mnpt 100' Blue	Blue							

HOSE ASSEMBLES

HOSE ACCESSORIES

MIDLAND PREMIUM RUBBER AIR HOSE

COVER: Oil Resistant NBR Rubber making it Class A Oil Resistant & Other Synthetic Rubbers

REINFORCEMENT: Polyester Yarn

TUBE: Oil Resistant NBR Rubber making it Class A Oil Resistant & Other Synthetic Rubbers

TEMPERATURE: "-30°F to 190°F, -35°C to 90

PART #	DESCRIPTION	COVER COLOR	BEND RADIUS (UOM) (IN)	W.P. (PSI)	B.P. (PSI)	WAR-RANTY (YEARS)	CASE QTY	CASE WEIGHT	LIST PRICE
YAIROR-038-300BM45-25	3/8" Hose x 1/4"mnpt 50' Yellow	Yellow	0.75	300	1200	3	4	11.59	
YAIROR-038-300BM45	1/2" Hose x 3/8"mnpt 50' Yellow	Yellow	0.95	300	1200	3	4	14.57	
YAIROR-038-300BM45-100	3/8" Hose x 1/4"mnpt 25' Yellow	Yellow							
YAIROR-050-300BM65-25	3/8" Hose x 1/4"mnpt 100' Yellow	Yellow							
YAIROR-050-300BM65	1/2" Hose x 3/8"mnpt 25' Yellow	Yellow							
YAIROR-050-300BM65-100	1/2" Hose x 3/8"mnpt 100' Yellow	Yellow							

MIDLAND RUBBER WATER HOSE

COVER: Ozone & Weather Resistant Synthetic EPDM Rubber & Other synthetic rubbers

REINFORCEMENT: Polyester Yarn

TUBE: Natural Rubber

TEMPERATURE: "33°F to 180°F, 0°C to 80°C"

PART #	DESCRIPTION	COVER COLOR	BEND RADIUS (UOM) (IN)	W.P. (PSI)	B.P. (PSI)	WAR-RANTY (YEARS)	CASE QTY	CASE WEIGHT	LIST PRICE
OPPWB-063-150GH50	5/8" x 50' x150psi Black Water hose w/ fittings Midland	Red/ Black	1.6	150	500	2	4	18.79	
OPPWR-063-150GH50	5/8" x 50' x150psi Red Water hose w/ fittings Midland	Red/ Black	1.6	150	500	2	4	16.39	
OPPWB-075-150GH50	3/4" x 50' x150psi Black Water hose w/ fittings Midland	Red/ Black	1.8	150	500	2	3	17.17	
OPPWR-075-150GH50	3/4" x 50' x150psi Red Water hose w/ fittings Midland	Red/ Black	1.8	150	500	2	3	15.06	

HOSE ASSEMBLES

HOSE ACCESSORIES

MIDLAND PLUS RUBBER WATER HOSE



COVER: Ozone & Weather Resistant Synthetic EPDM Rubber & Other synthetic rubbers

REINFORCEMENT: Polyester Yarn

TUBE: Natural Rubber

TEMPERATURE: "-40°F to 212°F, -40°C to 100°C"

PART #	DESCRIPTION	COVER COLOR	BEND RADIUS (UOM) (IN)	W.P. (PSI)	B.P. (PSI)	WAR-RANTY (YEARS)	CASE QTY	CASE WEIGHT	LIST PRICE
AVAWB-063-150GH50	5/8" x 50' x150psi Black Water hose w/ fittings	Red/Black	1.7	150	500	5	4	18.79	
AVAWR-063-150GH50	5/8" x 50' x150psi Red Water hose w/ fittings	Red/Black	1.7	150	500	5	4	16.39	
AVAWB-075-150GH50	3/4" x 50' x150psi Black Water hose w/ fittings	Red/Black	1.8	150	500	5	3	17.17	
AVAWR-075-150GH50	3/4" x 50' x150psi Red Water hose w/ fittings	Red/Black	1.8	150	500	5	3	15.06	

MIDLAND PREMIUM RUBBER WATER HOSE



COVER: Ozone & Weather Resistant Synthetic EPDM Rubber & Other synthetic rubbers

REINFORCEMENT: Polyester Yarn

TUBE: Natural Rubber

TEMPERATURE: "-50°F to 212°F, -45°C to 100°C"

PART #	DESCRIPTION	COVER COLOR	BEND RADIUS (UOM) (IN)	W.P. (PSI)	B.P. (PSI)	WAR-RANTY (YEARS)	CASE QTY	CASE WEIGHT	LIST PRICE
BSWBLT-063-150GH50	5/8" x 50' x150psi Blue Water hose w/ fittings	Blue	1.55	150	500	10	4	18.79	
BSWBLT-075-150GH50	3/4" x 50' x150psi Blue Water hose w/ fittings	Blue	2.1	150	500	10	3	15.06	

HOSE ASSEMBLES

HOSE ACCESSORIES

KEVLAR BRAIDED RUBBER PRESSURE WASHER HOSE

COVER: Oil Resistant NBR Rubber making it Class A Oil Resistant & Other Synthetic Rubbers

REINFORCEMENT: Aramid / Kevlar

TUBE: Oil Resistant NBR Rubber making it Class A Oil Resistant & Other Synthetic Rubbers

TEMPERATURE: "-30F to 250F, -35°C to 120°C"

PART #	DESCRIPTION	COVER COLOR	BEND RADIUS (UOM) (IN)	W.P. (PSI)	B.P. (PSI)	WAR-RANTY (YEARS)	CASE QTY	CASE WEIGHT	LIST PRICE
PWAG-038-50AS	3/8" x 50' with 3/8" Male NPT Revolving + Fixed Grey	Grey	0.53	4100	16400	1	4	13.52	
PWAG-038-100AS	3/8" x 100' with 3/8" Male NPT Revolving + Fixed Grey	Grey	0.53	4100	16400	1	2	12.96	
PWAG-038-200AS	3/8" x 200' with 3/8" Male NPT Revolving + Fixed Grey	Grey	0.53	4100	16400	1			

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES



CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-08106T-SP	3/4	FLPS075112	1.1875"	2.14"	0.04	---
CFT-08107T-SP	3/4	FLPS075114	1.2188"	2.14"	0.04	---
CFT-08108T-SP	3/4	FLPS075116	1.2500"	2.14"	0.04	---
CFT-08109T-SP	3/4	FLPS075118	1.2812	2.14"	0.04	---

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE - HD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-05101S-SP	3/4	FPS050104S	1.0625"	1.41"	0.06	---

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D Tolerance = +/-0.012

CRIMPLOK FERRULES STEEL PLATED FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-08105-SP	3/4	FPS075120	1.3125"	2.14"	0.06	---

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-10114T-SP	1	FLPS100128	1.4375"	2.29"	0.04	---
CFT-10115T-SP	1	FLPS100130	1.4687"	2.29"	0.04	---
CFT-10117T-SP	1	FLPS100134	1.5000"	2.29"	0.04	---
CFT-10118T-SP	1	FLPS100136	1.5312"	2.29"	0.04	---

Project Information: For use with CRIMPLOK Universal Crimp fittings (HE-XXXCR-SP). Ferrule thickness is .040"

CRIMPLOK FERRULES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-10109-SP	1	FPS100136	1.5625"	2.29"	0.06	---
CF-10110-SP	1	FPS100140	1.6250"	2.29"	0.06	---
CF-10111-SP	1	FPS100144	1.6875"	2.29"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-13113-SP	1-1/4	FPS125152	1.8125"	2.32"	0.06	---
CF-13114-SP	1-1/4	FPS125156	1.8750"	2.32"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGC/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

**CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE**

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-15115-SP	1-1/2	FPS150160	1.9375"	2.36"	0.06	---
CF-15201-SP	1-1/2	FPS150204	2.0625"	2.36"	0.06	---
CF-15202-SP	1-1/2	FPS150208	2.1250"	2.36"	0.06	---
CF-15203-SP	1-1/2	FPS150212	2.1875"	2.36"	0.06	---
CF-15205-SP	1-1/2	FPS150220	2.3125	2.36"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 1-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-15202L-SP	1-1/2	FPS150208L	2.1250"	2.91	0.06	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-20208-SP	2	FPS200232	2.5000"	2.79"	0.06	---
CF-20209-SP	2	FPS200236	2.5625"	2.79"	0.06	---
CF-20210-SP	2	FPS200240	2.6250"	2.79"	0.06	---
CF-20211-SP	2	FPS200244	2.6875"	2.79"	0.06	---
CF-20212-SP	2	FPS200248	2.7500"	2.79"	0.06	---
CF-20213-SP	2	FPS200252	2.8125"	2.79"	0.06	---
CF-20214-SP	2	FPS200256	2.8750"	2.79"	0.06	---
CF-20215-SP	2	FPS200260	2.9375"	2.79"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-20209L-SP	2	FPS200236L	2.5625"	3.41"	0.06	---
CF-20211L-SP	2	FPS200244L	2.6875"	3.41"	0.06	---
CF-20212L-SP	2	FPS200248L	2.7500"	3.41"	0.06	---
CF-20213L-SP	2	FPS200252L	2.8125"	3.41"	0.06	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-25303-SP	2-1/2	FPS250312	3.1875"	3.11"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-25303L-SP	2-1/2	FPS250312L	3.1875"	3.88"	0.06	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-30309-SP	3	FPS300336	3.5625"	3.94"	0.09	---
CF-30310-SP	3	FPS300340	3.6250"	3.94"	0.09	---
CF-30311-SP	3	FPS300344	3.6875"	3.94"	0.09	---
CF-30312-SP	3	FPS300348	3.7500"	3.94"	0.09	---
CF-30313-SP	3	FPS300352	3.8125"	3.94"	0.09	---
CF-30314-SP	3	FPS300356	3.8750"	3.94"	0.09	---
CF-30315-SP	3	FPS300360	3.9375"	3.94"	0.09	---
CF-30400-SP	3	FPS300400	4.000"	3.94"	0.09	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 3" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-30310L-SP	3	FPS300340L	3.6250"	4.36"	0.09	---
CF-30311L-SP	3	FPS300344L	3.6875"	4.36"	0.09	---
CF-30312L-SP	3	FPS300348L	3.7500"	4.36"	0.09	---
CF-30313L-SP	3	FPS300352L	3.8125"	4.36"	0.09	---
CF-30314L-SP	3	FPS300356L	3.8750"	4.36"	0.09	---
CF-30315L-SP	3	FPS300360L	3.9375"	4.36"	0.09	---
CF-30400L-SP	3	FPS300400L	4.000"	4.36"	0.09	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES PLATED

HOSE ACCESSORIES

**CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE**

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-40409-SP	4	FPS400436	4.5625"	4.19"	0.09	---
CF-40410-SP	4	FPS400440	4.6250"	4.19"	0.09	---
CF-40411-SP	4	FPS400444	4.6875"	4.19"	0.09	---
CF-40412-SP	4	FPS400448	4.7500"	4.19"	0.09	---
CF-40413-SP	4	FPS400452	4.8125"	4.19"	0.09	---
CF-40414-SP	4	FPS400456	4.8750"	4.19"	0.09	---
CF-40415-SP	4	FPS400460	4.9375"	4.19"	0.09	---
CF-40500-SP	4	FPS400500	5.000"	4.19"	0.09	---
CF-40501-SP	4	FPS400504	5.0625"	4.19"	0.09	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE - LONG

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-40410L-SP	4	FPS400440L	4.6250"	5.20"	0.09	---
CF-40411L-SP	4	FPS400444L	4.6875"	5.20"	0.09	---
CF-40412L-SP	4	FPS400448L	4.7500"	5.20"	0.09	---
CF-40413L-SP	4	FPS400452L	4.8125"	5.20"	0.09	---
CF-40414L-SP	4	FPS400456L	4.8750"	5.20"	0.09	---
CF-40415L-SP	4	FPS400460L	4.9375"	5.20"	0.09	---
CF-40500L-SP	4	FPS400500L	5.000"	5.20"	0.09	---
CF-40501L-SP	4	FPS400504L	5.0625"	5.20"	0.09	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-60610-SP	6	FPS600640	6.6250"	5.67"	0.12	---
CF-60612-SP	6	FPS600648	6.7500"	5.67"	0.12	---
CF-60614-SP	6	FPS600656	6.8750"	5.67"	0.12	---
CF-60702-SP	6	FPS600708	7.1250"	5.67"	0.12	---
CF-60704-SP	6	FPS600716	7.2500"	5.67"	0.12	---

Project Information: For use with CRIMPLOK ground joint fittings (GJM/GJS-XXXCR-SP) and CRIMPLOK long crimp combination nipples (CNL-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES



CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-05101-SS304	1/2	FSS050104	1.0625"	2.14"	0.06	---
CF-05102-SS304	1/2	FSS050108	1.1250"	2.14"	0.06	---

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-08105-SS304	3/4	FSS075120	1.3125"	2.14"	0.06	---
CF-08106-SS304	3/4	FSS075124	1.3750"	2.14"	0.06	---
CF-08108-SS304	3/4	FSS075132	1.5000"	2.14"	0.06	---

Project Information: For use with CRIMPLOK crimp ground joints (GJM/GJS-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3/4" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-08104T-SS304	3/4	FLSS075108	1.1250"	2.14"	0.04	---
CFT-08106T-SS304	3/4	FLSS075112	1.1875"	2.14"	0.04	---
CFT-08107T-SS304	3/4	FLSS075114	1.2188"	2.14"	0.04	---
CFT-08108T-SS304	3/4	FLSS075116	1.2500"	2.14"	0.04	---
CFT-08109T-SS304	3/4	FLSS075118	1.2812"	2.14"	0.04	---

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-10108-SS304	1	FSS100132	1.5000"	2.29"	0.06	---
CF-10109-SS304	1	FSS100136	1.5625"	2.29"	0.06	---
CF-10110-SS304	1	FSS100140	1.6250"	2.29"	0.06	---
CF-10111-SS304	1	FSS100144	1.6875"	2.29"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1" HOSE - LD FOR UNIVERSAL

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CFT-10117T-SS304	1	FLSS100134	1.5312"	2.29"	0.04	---

Project Information: For use with CRIMPLOK Universal crimp fittings (HE-XXXCR-SP) Ferrule thickness is .040"

CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES

**CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE**

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-13114-SS304	1-1/4	FSS125156	1.8750"	2.32"	0.06	---
CF-13115-SS304	1-1/4	FSS125160	1.9375"	2.32"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SP) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-15115-SS304	1-1/2	FSS150160	1.9375"	2.36"	0.06	---
CF-15200-SS304	1-1/2	FSS150200	2.000"	2.36"	0.06	---
CF-15201-SS304	1-1/2	FSS150204	2.0625"	2.36"	0.06	---
CF-15202-SS304	1-1/2	FSS150208	2.1250"	2.36"	0.06	---
CF-15203-SS304	1-1/2	FSS150212	2.1875"	2.36"	0.06	---
CF-15204-SS304	1-1/2	FSS150216	2.2500"	2.36"	0.06	---
CF-15205-SS304	1-1/2	FSS150220	2.3125"	2.36"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-20208-SS304	2	FSS200232	2.5000"	2.79"	0.06	---
CF-20209-SS304	2	FSS200236	2.5625"	2.79"	0.06	---
CF-20210-SS304	2	FSS200240	2.6250"	2.79"	0.06	---
CF-20211-SS304	2	FSS200244	2.6875"	2.79"	0.06	---
CF-20212-SS304	2	FSS200248	2.7500"	2.79"	0.06	---
CF-20213-SS304	2	FSS200252	2.8125"	2.79"	0.06	---
CF-20214-SS304	2	FSS200256	2.8750"	2.79"	0.06	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK FERRULES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-30309-SS304	3	FSS300336	3.5625"	3.94"	0.10	---
CF-30310-SS304	3	FSS300340	3.6250"	3.94"	0.10	---
CF-30311-SS304	3	FSS300344	3.6875"	3.94"	0.10	---
CF-30312-SS304	3	FSS300348	3.7500"	3.94"	0.10	---
CF-30313-SS304	3	FSS300352	3.8125"	3.94"	0.10	---
CF-30314-SS304	3	FSS300356	3.8750"	3.94"	0.10	---
CF-30315-SS304	3	FSS300360	3.9375"	3.94"	0.10	---
CF-30400-SS304	3	FSS300400	4.000"	3.94"	0.10	---

Project Information: For use with CRIMPLOK crimp cam and groove fitting (CGE/CGE-XXXCR-A1) and CRIMPLOK crimp combination nipples (CNT-XXXCR-SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM

HOSE ACCESSORIES

CRIMPLOK FERRULES STAINLESS 304 FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS	LIST PRICE
CF-40410-SS304	4	FSS400440	4.6250"	4.19"	0.10	---
CF-40411-SS304	4	FSS400444	4.6875"	4.19"	0.10	---
CF-40412-SS304	4	FSS400448	4.7500"	4.19"	0.10	---
CF-40413-SS304	4	FSS400452	4.8125"	4.19"	0.10	---
CF-40414-SS304	4	FSS400456	4.8750"	4.19"	0.10	---
CF-40415-SS304	4	FSS400500	5.000"	4.19"	0.10	---

Project Information: For use with crimp cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"



CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20209-A	2	SAL200236	2.5625"	2.79"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20210-A	2	SAL200240	2.6250"	2.79"	0.12	---
CSL-20211-A	2	SAL200244	2.6875"	2.79"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30310-A	3	SAL300340	3.6250"	3.94"	0.12	---
CSL-30313-A	3	SAL300352	3.8125"	3.94"	0.12	---
CSL-30314-A	3	SAL300356	3.8750"	3.94"	0.12	---
CSL-30315-A	3	SAL300360	3.9375"	3.94"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES ALUMINUM FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-40411-A	4	SAL400444	4.6875"	4.19"	0.12	---
CSL-40412-A	4	SAL400448	4.7500"	4.19"	0.12	---
CSL-40413-A	4	SAL400452	4.8125"	4.19"	0.12	---
CSL-40414-A	4	SAL400456	4.8750"	4.19"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

**CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE**

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-08106-SP	3/4	SPS075124	1.3750"	2.14"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-05100S-SP	1/2	SPS050100S	1.0000"	0.91"	0.06	---
CSL-08102S-SP	3/4	SPS075108S	1.1250"	1.10"	0.06	---
CSL-08105S-SP	3/4	SPS075120S	1.3125"	1.10"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10107-SP	1	SPS100128	1.4375"	2.29"	0.06	---
CSL-10108-SP	1	SPS100132	1.5000"	2.29"	0.06	---
CSL-10109-SP	1	SPS100136	1.5625"	2.29"	0.06	---
CSL-10110-SP	1	SPS100140	1.6250"	2.29"	0.06	---
CSL-10111-SP	1	SPS100144	1.6875"	2.29"	0.06	---
CSL-10112-SP	1	SPS100148	1.7500"	2.29"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10107S-SP	1	SPS100128S	1.4375"	2.26"	0.06	---
CSL-10108S-SP	1	SPS100132S	1.5000"	2.26"	0.06	---
CSL-10109S-SP	1	SPS100136S	1.5625"	2.26"	0.06	---
CSL-10111S-SP	1	SPS100144S	1.6875"	2.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-13113S-SP	1-1/4	SPS125152S	1.8125"	1.26"	0.06	---
CSL-13114S-SP	1-1/4	SPS125156S	1.8750"	1.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-15112-SP	1-1/2	SPS150148	1.7500"	2.36"	0.06	---
CSL-15115-SP	1-1/2	SPS150160	1.9375"	2.36"	0.06	---
CSL-15200-SP	1-1/2	SPS150200	2.0000"	2.36"	0.06	---
CSL-15201-SP	1-1/2	SPS150204	2.0625"	2.36"	0.06	---
CSL-15202-SP	1-1/2	SPS150208	2.1250"	2.36"	0.06	---
CSL-15203-SP	1-1/2	SPS150212	2.1875"	2.36"	0.06	---
CSL-15204-SP	1-1/2	SPS150216	2.2500"	2.36"	0.06	---
CSL-15205-SP	1-1/2	SPS150220	2.3125"	2.36"	0.06	---
CSL-15206-SP	1-1/2	SPS150224	2.3750"	2.36"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 1-1/2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-15202S-SP	1-1/2	SPS150208S	2.1250"	1.46"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20204-SP	2	SPS200216	2.2500"	2.79"	0.06	---
CSL-20206-SP	2	SPS200224	2.3750"	2.79"	0.06	---
CSL-20207-SP	2	SPS200228	2.4375"	2.79"	0.06	---
CSL-20208-SP	2	SPS200232	2.5000"	2.79"	0.06	---
CSL-20209-SP	2	SPS200236	2.5625"	2.79"	0.06	---
CSL-20210-SP	2	SPS200240	2.6250"	2.79"	0.06	---
CSL-20211-SP	2	SPS200244	2.6875"	2.79"	0.06	---
CSL-20212-SP	2	SPS200248	2.7500"	2.79"	0.06	---
CSL-20213-SP	2	SPS200252	2.8125"	2.79"	0.06	---
CSL-20214-SP	2	SPS200256	2.8750"	2.79"	0.06	---
CSL-20215-SP	2	SPS200260	2.9375"	2.79"	0.06	---
CSL-20300-SP	2	SPS200300	3.0000"	2.79"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 2" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20206S-SP	2	SPS200224S	2.3750"	1.81"	0.06	---
CSL-20207S-SP	2	SPS200228S	2.4375"	1.81"	0.06	---
CSL-20209S-SP	2	SPS200236S	2.5625"	1.81"	0.06	---
CSL-20210S-SP	2	SPS200240S	2.6250"	1.81"	0.06	---
CSL-20211S-SP	2	SPS200244S	2.6875"	1.81"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

**CRIMPLOK SLEEVES STEEL PLATED FOR 2-1/2" HOSE**

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-25302-SP	2-1/2	SPS250308	3.1250"	3.11"	0.06	---
CSL-25306-SP	2-1/2	SPS250324	3.3750"	3.11"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30304-SP	3	SPS300316	3.2500"	3.94"	0.09	---
CSL-30306-SP	3	SPS300324	3.3750"	3.94"	0.09	---
CSL-30307-SP	3	SPS300328	3.4375"	3.94"	0.09	---
CSL-30308-SP	3	SPS300332	3.5000"	3.94"	0.09	---
CSL-30309-SP	3	SPS300336	3.5625"	3.94"	0.09	---
CSL-30310-SP	3	SPS300340	3.6250"	3.94"	0.09	---
CSL-30311-SP	3	SPS300344	3.6875"	3.94"	0.09	---
CSL-30312-SP	3	SPS300348	3.7500"	3.94"	0.09	---
CSL-30313-SP	3	SPS300352	3.8125"	3.94"	0.09	---
CSL-30314-SP	3	SPS300356	3.8750"	3.94"	0.09	---
CSL-30400-SP	3	SPS300400	4.000"	3.94"	0.09	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 3" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30306S-SP	3	SPS300324S	3.3750"	2.44"	0.09	---
CSL-30308S-SP	3	SPS300332S	3.5000"	2.44"	0.09	---
CSL-30309S-SP	3	SPS300336S	3.5625"	2.44"	0.09	---
CSL-30310S-SP	3	SPS300340S	3.6250"	2.44"	0.09	---
CSL-30311S-SP	3	SPS300344S	3.6875"	2.44"	0.09	---
CSL-30312S-SP	3	SPS300348S	3.7500"	2.44"	0.09	---
CSL-30313S-SP	3	SPS300352S	3.8125"	2.44"	0.09	---
CSL-30314S-SP	3	SPS300356S	3.8750"	2.44"	0.09	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES PLATED

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-40406-SP	4	SPS400424	4.3750"	4.19"	0.09	---
CSL-40408-SP	4	SPS400432	4.5000"	4.19"	0.09	---
CSL-40409-SP	4	SPS400436	4.5625"	4.19"	0.09	---
CSL-40410-SP	4	SPS400440	4.6250"	4.19"	0.09	---
CSL-40411-SP	4	SPS400444	4.6875"	4.19"	0.09	---
CSL-40412-SP	4	SPS400448	4.7500"	4.19"	0.09	---
CSL-40413-SP	4	SPS400452	4.8125"	4.19"	0.09	---
CSL-40414-SP	4	SPS400456	4.8750"	4.19"	0.09	---
CSL-40415-SP	4	SPS400460	4.9375"	4.19"	0.09	---
CSL-40500-SP	4	SPS400500	5.0000"	4.19"	0.09	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-40410S-SP	4	SPS400440S	4.6250"	3.31"	0.09	---
CSL-40411S-SP	4	SPS400444S	4.6875"	3.31"	0.09	---
CSL-40412S-SP	4	SPS400448S	4.7500"	3.31"	0.09	---
CSL-40413S-SP	4	SPS400452S	4.8125"	3.31"	0.09	---
CSL-40414S-SP	4	SPS400456S	4.9375"	3.31"	0.09	---
CSL-40500S-SP	4	SPS400500S	5.0000"	3.31"	0.09	---

Project Information: For use with regular combination nipples (CNT-XXX-S/SP) and short shank fittings (PL-XXX-AD) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 6" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-60604-SP	6	SPS600616	6.2500"	5.67"	0.12	---
CSL-60606-SP	6	SPS600624	6.3750"	5.67"	0.12	---
CSL-60608-SP	6	SPS600632	6.5000"	5.67"	0.12	---
CSL-60610-SP	6	SPS600640	6.6250"	5.67"	0.12	---
CSL-60612-SP	6	SPS600648	6.7500"	5.67"	0.12	---
CSL-60614-SP	6	SPS600656	6.8750"	5.67"	0.12	---
CSL-60700-SP	6	SPS600700	7.0000"	5.67"	0.12	---
CSL-60702-SP	6	SPS600708	7.1250"	5.67"	0.12	---
CSL-60704-SP	6	SPS600716	7.2500"	5.67"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STEEL PLATED FOR 8" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-80812-SP	8	SPS800848	8.7500"	6.50"	0.12	---
CSL-80900-SP	8	SPS800900	9.0000"	6.50"	0.12	---
CSL-80904-SP	8	SPS800916	9.2500"	6.50"	0.12	---
CSL-80908-SP	8	SPS800932	9.5000"	6.50"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS

HOSE ACCESSORIES

CRIMPLOK SLEEVES STEEL PLATED FOR 10" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-100108-SP	10	SPS100132	10.5000"	7.25"	0.12	---
CSL-100114-SP	10	SPS100156	10.8750"	7.25"	0.12	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXXCR-A1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

**CRIMPLOK SLEEVES STAINLESS 304 FOR 1/2" HOSE - SHORT**

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-05100S-SS304	1/2	SSS050100S	1.000"	0.91"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-08104-SS304	3/4	SSS075116	1.2500"	2.14"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1), CRIMPLOK crimp long combination nipples (CNL-XXXCR-SP) and CRIMPLOK (CNT/G-XXXCS-S/P) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-08104S-SS304	3/4	SSS075116S	1.2500"	1.10"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10108-SS304	1	SSS100132	1.5000"	2.29"	0.06	---
CSL-10110-SS304	1	SSS100140	1.6250"	2.29"	0.06	---
CSL-10112-SS304	1	SSS100148	1.7500"	2.29"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-10109S-SS304	1	SSS100136S	1.5625"	1.26"	0.06	---
CSL-10110S-SS304	1	SSS100140S	1.6250"	1.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS

HOSE ACCESSORIES

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-13114-SS304	1-1/4	SSS125156	1.8750"	2.32"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/4" HOSE - SHORT

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-13113S-SS304	1-1/4	SSS125152S	1.8125"	1.26"	0.06	---

Project Information: For use with regular combination nipples (CNT-XXX-SS/SS316) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 1-1/2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-15201-SS304	1-1/2	SSS150204	2.0625"	2.36"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 2" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-20206-SS304	2	SSS200224	2.3750"	2.79"	0.06	---
CSL-20207-SS304	2	SSS200228	2.4375"	2.79"	0.06	---
CSL-20208-SS304	2	SSS200232	2.5000"	2.79"	0.06	---
CSL-20209-SS304	2	SSS200236	2.5625"	2.79"	0.06	---
CSL-20210-SS304	2	SSS200240	2.6250"	2.79"	0.06	---
CSL-20211-SS304	2	SSS200244	2.6875"	2.79"	0.06	---
CSL-20212-SS304	2	SSS200248	2.7500"	2.79"	0.06	---
CSL-20214-SS304	2	SSS200256	2.8750"	2.79"	0.06	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

CRIMPLOK SLEEVES STAINLESS 304 FOR 3" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS	LIST PRICE
CSL-30309-SS304	3	SSS300336	3.5625"	3.94"	0.10	---
CSL-30310-SS304	3	SSS300340	3.6250"	3.94"	0.10	---
CSL-30311-SS304	3	SSS300344	3.6875"	3.94"	0.10	---
CSL-30312-SS304	3	SSS300348	3.7500"	3.94"	0.10	---
CSL-30313-SS304	3	SSS300352	3.8125"	3.94"	0.10	---
CSL-30314-SS304	3	SSS300356	3.8750"	3.94"	0.10	---

Project Information: For use with cam and groove fitting (CGE/CGE-XXX-SS1) I.D. Tolerance = +/-0.012"

HOSE CLAMPS
HOSE CLAMPS

HOSE CLAMPS



	WORM GEAR		QUICK RELEASE
	MEGA & MAXI T-BOLT CLAMPS		SPRING LOADED T-BOLT
	CONSTANT TORQUE & V-BAND		DOUBLE BOLT CLAMP
	SPIRAL CLAMP MAXI CLAMP		MUFFLER & EXHAUST
	1 EAR, 2 EAR, GAPLESS		HAMMERLOCK & PUNCH-LOK
	TOOLS		NON-PERFORATED OR LINED BAND MARINE CLAMPS
	RUBBER LINED		HOSE FERRULES

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

300 & 600 WORM GEAR CLAMPS

HOSE CLAMPS

WORM GEAR CLAMPS

MINIATURE CLAMPS - 5/16" BAND



Stainless Steel band with Carbon Steel Housing and Screw

5/16" band, 1/4" screw

300 Series

- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- Carbon Steel Housing

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
3000004	7/32"	5/8"	200/2400	---
3000005	7/16"	11/16"	200/2400	---
3000006	5/16"	7/8"	200/2400	---
3000008	7/16"	1"	200/1200	---
3000010	1/2"	1-1/16"	200/1200	---
3000012	9/16"	1-1/4"	200/1200	---
3000016	11/16"	1-1/2"	200/1200	---
3000020	7/8"	1-3/4"	200/1200	---

Stainless Steel band with Carbon Steel Housing and Screw

1/2" band, 5/16" screw

1/2" BAND CLAMPS



600 Series

- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- Carbon Steel Housing

Applications: A general purpose clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

PART #	#	DIA. RANGE		BAG/CASE	LIST PRICE
		MIN.	MAX.		
600006	6	3/8"	7/8"	100/600	---
600008	8	7/16"	1"	100/600	---
600010	10	9/16"	1-1/16"	100/600	---
600012	12	9/16"	1-1/4"	100/600	---
600016	16	11/16"	1-1/2"	100/600	---
600020	20	3/4"	1-3/4"	100/300	---
600024	24	1-1/16"	2"	100/300	---
600028	28	1-5/16"	2-1/4"	100/300	---
600032	32	1-9/16"	2-1/2"	100/300	---
600036	36	1-13/16"	2-3/4"	50/200	---
600040	40	2-1/16"	3"	50/200	---
600044	44	2-5/16"	3-1/4"	50/200	---
600048	48	2-9/16"	3-1/2"	50/200	---
600052	52	2-13/16"	3-3/4"	25/100	---
600056	56	3-1/16"	4"	25/100	---
600060	60	3-5/16"	4-1/4"	25/100	---
600064	64	2-1/2"	4-1/2"	25/100	---
600072	72	3"	5"	25/100	---
600080	80	3-1/2"	5-1/2"	10/100	---
600088	88	4"	6"	10/100	---
600096	96	4-1/2"	6-1/2"	10/100	---
600104	104	5"	7"	10/100	---

325 & 611 WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND**325 Series**

- 1/4" Hex Slotted Carbon Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Stainless Steel band and housing with Carbon Steel Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
325004	7/32"	5/8"	200/2400	---
325005	7/16"	11/16"	200/2400	---
325006	5/16"	7/8"	200/2400	---
325008	7/16"	1"	200/1200	---
325010	1/2"	1-1/16"	200/1200	---
325012	9/16"	1-1/4"	200/1200	---
325016	11/16"	1-1/2"	200/1200	---
325020	7/8"	1-3/4"	200/1200	---

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

Stainless Steel band and housing with Carbon Steel Screw

1/2" band, 5/16" screw

1/2" BAND CLAMPS**611 Series**

- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" Wide 201 Stainless Steel Band
- 301 Stainless Steel Housing

Applications: The perfect clamp for automobiles, plumbing, home and garden general clamping applications, with anti-corrosive properties varying with the number of components made from stainless steel.

- No PSI Rating
- 50lb/ Inch Torque Rating Die Set Function

PART #	#	DIA. RANGE		BAG/CASE	LIST PRICE
		MIN.	MAX.		
611006	6	3/8"	7/8"	100/600	---
611008	8	7/16"	1"	100/600	---
611010	10	9/16"	1-1/16"	100/600	---
611012	12	9/16"	1-1/4"	100/600	---
611016	16	11/16"	1-1/2"	100/600	---
611020	20	3/4"	1-3/4"	100/300	---
611024	24	1-1/16"	2"	100/300	---
611028	28	1-5/16"	2-1/4"	100/300	---
611032	32	1-9/16"	2-1/2"	100/300	---
611036	36	1-13/16"	2-3/4"	50/200	---
611040	40	2-1/16"	3"	50/200	---
611044	44	2-5/16"	3-1/4"	50/200	---
611048	48	2-9/16"	3-1/2"	50/200	---
611052	52	2-13/16"	3-3/4"	25/100	---
611056	56	3-1/16"	4"	25/100	---
611060	60	3-5/16"	4-1/4"	25/100	---
611064	64	2-1/2"	4-1/2"	25/100	---
611072	72	3"	5"	25/100	---
611080	80	3-1/2"	5-1/2"	10/100	---
611088	88	4"	6"	10/100	---
611096	96	4-1/2"	6-1/2"	10/100	---
611104	104	5"	7"	10/100	---
611116	116	5-3/4"	7-3/4"	100/100	---
611128	128	6-1/2"	8-1/2"	100/100	---
611152	152	2"	10"	100/100	---
611164	164	1-3/4"	10-3/4"	100/100	---
611176	176	9-1/4"	11-1/4"	100/100	---
611188	188	2-1/16"	12-1/4"	100/100	---
611200	200	11"	13"	100/100	---
611212	212	11-3/4"	13-3/4"	100/100	---
611224	224	12-1/2"	14-1/2"	100/100	---
611248	248	10-3/4"	16"	100/100	---
611270	270	15-3/8"	17-3/8"	100/100	---
611312	312	18"	20"	100/100	---
611332	332	19-1/8"	21-1/4"	100/100	---
611390	390	22-7/8"	24-7/8"	100/100	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

350 & 620 WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND



350 Series

- 1/4" Hex Slotted 410 Stainless Steel Screw
- 5/16" Wide 301 Stainless Steel Band
- 301 stainless Steel Housing
- 6mm thick

All Stainless Steel
5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
350004	7/32"	5/8"	200/2400	---
350005	7/16"	11/16"	200/2400	---
350006	5/16"	7/8"	200/2400	---
350008	7/16"	1"	200/1200	---
350010	1/2"	1-1/16"	200/1200	---
350012	9/16"	1-1/4"	200/1200	---
350016	11/16"	1-1/2"	200/1200	---
350020	7/8"	1-3/4"	200/1200	---

Applications: For agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)



620 Series

- 5/16" Hex Slotted 305 Stainless Steel Screw
- 1/2" Wide 301 Stainless Steel Band
- 301 Stainless Steel Housing
- 6mm Thickness
- Use for underground and other high corrosive applications.
- For a sure grip application.
- Especially suited to industrial applications

All Stainless Steel
1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BOX/CASE	LIST PRICE
		MIN.	MAX.		
620006	6	3/8"	7/8"	100/600	---
620008	8	7/16"	1"	100/600	---
620010	10	9/16"	1-1/16"	100/600	---
620012	12	9/16"	1-1/4"	100/600	---
620016	16	11/16"	1-1/2"	100/600	---
620020	20	3/4"	1-3/4"	100/300	---
620024	24	1-1/16"	2"	100/300	---
620028	28	1-5/16"	2-1/4"	100/300	---
620032	32	1-9/16"	2-1/2"	100/300	---
620036	36	1-13/16"	2-3/4"	50/200	---
620040	40	2-1/16"	3"	50/200	---
620044	44	2-5/16"	3-1/4"	50/200	---
620048	48	2-9/16"	3-1/2"	50/200	---
620052	52	2-13/16"	3-3/4"	25/100	---
620056	56	3-1/16"	4"	25/100	---
620060	60	3-5/16"	4-1/4"	25/100	---
620064	64	2-1/2"	4-1/2"	25/100	---
620072	72	3"	5"	25/100	---
620080	80	3-1/2"	5-1/2"	10/100	---
620088	88	4"	6"	10/100	---
620096	96	4-1/2"	6-1/2"	10/100	---
620104	104	5"	7"	10/100	---
620116	116	5-3/4"	7-3/4"	100/100	---
620128	128	6-1/2"	8-1/2"	100/100	---
620152	152	2"	10"	100/100	---
620164	164	1-3/4"	10-3/4"	100/100	---
620176	176	9-1/4"	11-1/4"	100/100	---
620188	188	9.9"	12-1/4"	100/100	---
620200	200	11"	13"	100/100	---
620212	212	11-3/4"	13-3/4"	100/100	---
620224	224	12-1/2"	14-1/2"	100/100	---
620248	248	10-3/4"	16"	100/100	---
620270	270	15-3/8"	17-3/8"	100/100	---
620312	312	18"	20"	100/100	---
620332	332	19-1/8"	21-1/4"	100/100	---
620390	390	22-7/8"	24-7/8"	100/100	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CLAMPS

#316 MARINE WORM GEAR CLAMPS

HOSE CLAMPS

MINIATURE CLAMPS - 5/16" BAND

All #316 SS for Marine Environments

5/16" band, 1/4" screw

**350SS Series**

- 1/4" Hex Slotted 316 Stainless Steel S
- 316 Stainless Steel Band
- 8mm wide
- 6 mm thick
- 316 stainless Steel Housing

PART #	DIA. RANGE		BOX/CASE	LIST PRICE
	MIN.	MAX.		
350004SS	7/32"	5/8"	200/2400	---
350005SS	7/16"	11/16"	200/2400	---
350006SS	5/16"	7/8"	200/2400	---
350008SS	7/16"	1"	200/1200	---
350010SS	1/2"	1-1/16"	200/1200	---
350012SS	9/16"	1-1/4"	200/1200	---
350016SS	11/16"	1-1/2"	200/1200	---
350020SS	7/8"	1-3/4"	200/1200	---

Applications: For marine, agricultural, industrial and automotive uses. Corrosion resistance varies with stainless components.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

1/2" WIDE BAND CLAMPS (12.70MM)

All #316 SS for Marine Environments

1/2" band, 5/16" screw

**620SS Series**

- 5/16" Hex Slotted 316 Stainless Steel Screw
- 1/2" Wide 316 Stainless Steel Band
- 316 Stainless Steel Housing

- 6mm Thickness
- Use for marine, underground and other high corrosive applications.

ALL 316SS PART #	#	DIA. RANGE		BOX/CASE	LIST PRICE
		MIN.	MAX.		
620006SS	6	3/8"	7/8"	100/600	---
620008SS	8	7/16"	1"	100/600	---
620010SS	10	9/16"	1-1/16"	100/600	---
620012SS	12	9/16"	1-1/4"	100/600	---
620016SS	16	11/16"	1-1/2"	100/600	---
620020SS	20	3/4"	1-3/4"	100/300	---
620024SS	24	1-1/16"	2"	100/300	---
620028SS	28	1-5/16"	2-1/4"	100/300	---
620032SS	32	1-9/16"	2-1/2"	100/300	---
620036SS	36	1-13/16"	2-3/4"	50/200	---
620040SS	40	2-1/16"	3"	50/200	---
620044SS	44	2-5/16"	3-1/4"	50/200	---
620048SS	48	2-9/16"	3-1/2"	50/200	---
620052SS	52	2-13/16"	3-3/4"	25/100	---
620056SS	56	3-1/16"	4"	25/100	---
620060SS	60	3-5/16"	4-1/4"	25/100	---
620064SS	64	2-1/2"	4-1/2"	25/100	---
620072SS	72	3"	5"	25/100	---

QUICK RELEASE

HOSE CLAMPS

QUICK RELEASE

500/550 SERIES

These clamps feature a unique quick release design between the one piece housing and band allowing for quick and easy installation in restricted or difficult areas.

Applications: Quick release action permits easy installation in applications where clamp must be opened to be applied. Quick release clamps are used extensively in the telecommunications industry on cable enclosures where open air application demands durability.



- 500 Series
- 5/16" Hex Slotted Carbon Steel Screw
 - 1/2" 301 Stainless Steel band
 - 301 Stainless Steel Housing
 - 410 Stainless Steel Bridge

Open/Close design allows easy installation.



- 550 Series
- 5/16" Hex Slotted 410 Stainless Steel Screw
 - 1/2" 301 Stainless Steel band
 - 301 Stainless Steel Housing
 - 410 Stainless Steel Bridge

PART #	LIST PRICE	#	DIA. RANGE		PART #	LIST PRICE
			MIN.	MAX.		
500012	---	12	1/2"	1-1/4"	550012	---
	---	20	3/4"	1-3/4"	550020	---
	---	28	1"	2-1/4"	550028	---
	---	36	1"	2-3/4"	550036	---
	---	48	1-1/2"	3-1/2"	550048	---
	---	56	1"	4"	550056	---
	---	72	2"	5"	550072	---
500088	---	88	2-1/16"	6"	550088	---
500104	---	104	1-3/4"	7"	550104	---
500128	---	128	1-3/4"	8-9/16"	550128	---
500152	---	152	2"	10"	550152	---
500188	---	188	2-1/16"	12-5/16"	550188	---
500216	---	216	10-3/16"	14"	550216	---
500248	---	248	10-3/4"	16"	550248	---
500280	---	280	14-1/4"	18"	550280	---
		312	14"	20"	550312	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

CLAMPS

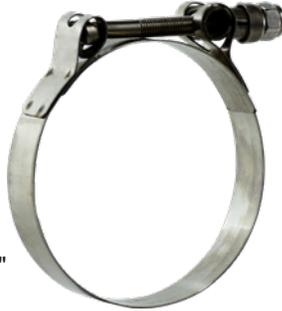
T-BOLT CLAMPS

HOSE CLAMPS

T-Bolt Clamps

- All designs meet SAE J1508 specifications.
- .025" Band Thickness
- 3/4" Wide Band
- Band Material: 301 Series Stainless Steel
- Bolt Material: 304 Series Stainless Steel
- Nut Material: 304 Series Stainless Steel
- Nuts are Self-locking
- Torque Rating 75 in/lb

Opens 1/16" above and tightens 1/8" smaller than nominal I.D. for a total of 3/16" range for clamps sizes 150 through 250. Opens 1/16" above and tightens 7/32" smaller than nominal I.D. for clamps sizes 256 through 750.



Purpose: To provide a quick, yet effective means of clamping a variety of fittings to a wide range of hose. T-Bolts can be applied with a standard 7/16" socket wrench. They provide 3600 sealing surface by using a shoe or formed bridge.

Services: The T-Bolt clamp is a high strength, reliable clamp with numerous applications in both the commercial and industrial markets including hose and ductwork connections for air, oil, water, other types of low pressure fluid lines, engine air intake, exhaust, hose and filters.

ALL STAINLESS STEEL

PART#	NOMINAL SIZE	O.D. RANGE		LIST PRICE
		FROM:	TO:	
840131	1-1/4	1-5/32"	1-15/32"	---
840150	1-1/2	1-3/8"	1-9/16"	---
840175	1-3/4	1-5/8"	1-13/16"	---
840188	1-7/8	1-3/4"	1-15/16"	---
840200	2	1-7/8"	2-1/16"	---
840225	2-1/4	2-1/8"	2-5/16"	---
840238	2-3/8	2-1/4"	2-7/16"	---
840250	2-1/2	2-3/8"	2-9/16"	---
840256	2-9/16	2-11/32"	2-5/8"	---
840263	2-5/8	2-13/32"	2-11/16"	---
840275	2-3/4	2-17/32"	2-13/16"	---
840288	2-7/8	2-21/32"	2-15/16"	---
840300	3	2-25/32"	3-1/16"	---
840312	3-1/8	2-29/32"	3-3/16"	---
840325	3-1/4	3-1/32"	3-5/16"	---
840350	3-1/2	3-9/32"	3-9/16"	---
840375	3-3/4	3-17/32"	3-13/16"	---
840382	3-53/64	3-19/32"	3-7/8"	---
840400	4	3-25/32"	4-1/16"	---
840425	4-1/4	4-1/32"	4-5/16"	---
840450	4-1/2	4-9/32"	4-9/16"	---
840475	4-3/4	4-17/32"	4-13/16"	---
840500	5	4-25/32"	5-1/16"	---
840525	5-1/4	5-1/32"	5-5/16"	---
840550	5-1/2	5-9/32"	5-9/16"	---
840575	5-3/4	5-17/32"	5-13/16"	---
840600	6	5-25/32"	6-1/16"	---
840625	6-1/4	6-1/32"	6-5/16"	---
840650	6-1/2	6-9/32"	6-9/16"	---
840675	6-3/4	6-17/32"	6-13/16"	---
840700	7	6-25/32"	7-1/16"	---
840750	7-1/2	7-9/32"	7-9/16"	---
840800	8	7-25/32"	8-1/16"	---
840850	8-1/4	8-9/32"	8-9/16"	---
840888	8-7/8	8-21/32"	8-15/16"	---
8401088	10-7/8	10-21/32"	10-15/16"	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

SPRING LOADED T-BOLT

HOSE CLAMPS

SPRING LOADED T-BOLT HOSE CLAMP

- Per SAE standard J1508 Type "SLTB"
- .025 Band Thickness
- 3/4 (19mm) band width
- Heavy duty springs
- Band Material: 300 stainless
- T-bolt: Carbon steel w/ zinc plating
- Housing (Bridge): 300 Stainless
- Hex nut: Carbon Steel, Nylon insert
- Torque rating: 150 in-lbs (8.5 mm)



Purpose: To provide constant tension performance to compensate for the expansion and contraction when temperatures fluctuate. Provides high strength and a 360° seal. Tighten with a 7/16" wrench or hex nutdriver.

Services: Designed for use in high vibration and large diameter applications common in heavy trucks, industrial machinery, off road equipment, agricultural irrigation and machinery, for air intake and coolant adapter

PART #	SAE #	MIN - MAX	WGT	BOX QTY	LIST PRICE
844213	40	2.13 - 2.44	0.170	100	---
844225	44	2.25 - 2.56	0.174	100	---
844238	48	2.38 - 2.69	0.179	100	---
844250	52	2.50 - 2.81	0.181	100	---
844263	56	2.63 - 2.94	0.183	100	---
844275	60	2.75 - 3.06	0.185	100	---
844300	68	3 - 3.31	0.187	100	---
844306	70	3.06 - 3.38	0.190	100	---
844313	72	3.13 - 3.44	0.192	100	---
844325	76	3.25 - 3.56	0.194	100	---
844338	80	3.38 - 3.69	0.196	100	---
844350	84	3.50 - 3.81	0.196	100	---
844356	86	3.56 - 3.88	0.196	100	---
844363	88	3.63 - 3.94	0.198	100	---
844375	92	3.75 - 4.06	0.198	100	---
844406	102	4.06 - 4.38	0.203	100	---
844413	104	4.13 - 4.44	0.209	100	---
844425	108	4.25 - 4.56	0.214	100	---
844456	118	4.56 - 4.88	0.216	100	---
844500	132	5 - 5.31	0.218	100	---
844525	140	5.25 - 5.56	0.220	100	---
844600	164	6 - 6.31	0.223	100	---
844625	172	6.25 - 6.56	0.225	100	---

Automatically adjust diameter for hose expansion and contraction due to temperature changes.

CONSTANT TORQUE/ V-BAND

HOSE CLAMPS

Constant Torque Hose Clamps

- All designs meet SAE J1508 specifications type "SLHD"
- .028 Band thickness
- Band material: 304 thickness
- Band width: 9/16" for 45in-lb
5/8" for 90in-lb
- Band material: 304 stainless
- Housing: 304 stainless steel
- Bridge: 410 stainless steel
- Hex screw: 410 stainless steel



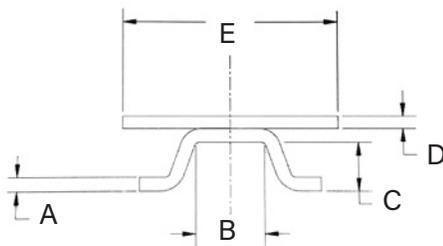
Purpose: To eliminate leaks by automatically increasing or decreasing the clamps diameter, decreasing the need for retightening. Constant torque clamps have an extended tail on the band to protect soft hose or tube from being cut.

Services: Constant torque clamps are an excellent choice for fluctuating and extreme temperature applications and thermal compensation.

PART #	CLAMPING RANGE	BAND WIDTH	TORQUE	SCREW SIZE	WGT	BOX QTY	LIST PRICE
842010	9/16" - 1 1/16"	9/16"	72 in-lb	5/16"	0.106	100	---
842012	11/16" - 1 1/4"	9/16"	72 in-lb	5/16"	0.108	100	---
842016	13/16" - 1 1/2"	9/16"	72 in-lb	5/16"	0.112	100	---
842020	13/16" - 1 3/4"	9/16"	72 in-lb	5/16"	0.119	100	---
842024	1 1/16" - 2"	9/16"	72 in-lb	5/16"	0.121	100	---
842200	1 1/4" - 2 1/8"	5/8"	130 in-lb High	3/8"	0.207	100	---
842250	1 3/4" - 2 5/8"	5/8"	130 in-lb High	3/8"	0.216	100	---
842300	2 1/4" - 3 1/8"	5/8"	130 in-lb High	3/8"	0.220	100	---
842350	2 3/4" - 3 5/8"	5/8"	130 in-lb High	3/8"	0.225	100	---
842400	3 1/4" - 4 1/8"	5/8"	130 in-lb High	3/8"	0.231	100	---
842450	3 3/4" - 4 5/8"	5/8"	130 in-lb High	3/8"	0.238	100	---
842500	4 1/4" - 5 1/8"	5/8"	130 in-lb High	3/8"	0.256	100	---
842550	4-3/4"-5-5/8"	5/8"	130 in-lb High	3/8"	0.284	100	---

V-BAND HOSE CLAMPS

- Band thickness: see chart
- Band width: see chart
- Band material: 300 stainless
- Trunnion: 300 stainless
- 1/4" T-bolt: 300 Ziact plated steel



Purpose: to provide a fast, secure coupling for connecting flanged joints.

Services: V-Band clamps feature high strength and positive sealing integrity for applications including: heavy duty diesel engine exhaust and turbochargers, filter housings, emissions and general industrial applications.

PART#	NOMINAL DIAMETER	V-INSERT SECTIONS			BANDS		WGT	BOX QTY	LIST PRICE
		A	B	C	D	E			
843321	3.21	0.050	0.262	0.141	0.035	0.750	0.525	100	---
843382	3.82	0.077	0.207	0.281	0.040	0.875	0.531	100	---
843388	3.88	0.050	0.400	0.281	0.040	0.875	0.536	100	---
843450	4.50	0.077	0.207	0.281	0.040	0.875	0.547	100	---
843461	4.61	0.050	0.156	0.281	0.035	0.750	0.549	100	---
843475	4.75	0.050	0.400	0.281	0.040	0.875	0.553	100	---
843525	5.25	0.050	0.262	0.141	0.035	0.750	0.567	100	---
843588	5.88	0.050	0.400	0.281	0.040	0.875	0.575	100	---

HOSE CLAMPS

HOSE CLAMPS



R88 Series

Rugged, heavy duty two bolt clamps without saddles
Zinc plated ductile iron clamp
Zinc plated carbon steel bolt and nuts

DOUBLE BOLT CLAMPS

PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS	LIST PRICE
R88DB-12-DP*	1-1/8	1-1/8" - 1-1/4"	15	---
R88DB-16-DP*	1-3/8	1-3/8" - 1-1/2"	20	---
R88DB-20-DP*	1-5/8	1-5/8" - 1-3/4"	25	---
R88DB-24-DP*	2	2" - 2-1/8"	25	---
R88DB-32-DP*	2-1/4	2-1/4" - 2-3/8"	30	---

SC SPIRAL CLAMP SERIES

Spiral wound clamps specifically designed for use on heavily corrugated suction hoses. Available in left hand (counter clockwise) and right hand (clockwise) spiral. Zinc plated steel construction.



PART #	LIST	HOSE ID	O.D. RANGE MM	PART #	LIST PRICE
SC-200R-SP*	---	2"	51 - 56	SC-200L-SP	---
SC-300R-SP*	---	3"	76 - 90	SC-300L-SP	---
SC-400R-SP*	---	4"	106 - 118	SC-400L-SP	---
SC-600R-SP*	---	6"	151 - 170	SC-600L-SP	---



M10DC MAXICLAMP SERIES

Clamp sizes for hose O.D. from 131 mm to 252 mm
Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt
10 mm silver zinc plated steel bolts
1.7 mm thick x 30 mm wide band
Suggested installation torque 30 Nm (22 Ft lbs)
Minimum breaking torque 40 Nm (29.5 ft.lbs.)

PART #	SIZE MM	RANGE	LIST PRICE
M10DC-86	86 - 91	3.38" - 3.58"	---
M10DC-92	92 - 97	3.62" - 3.82"	---
M10DC-104	104 - 112	4.09" - 4.41"	---
M10DC-113	113 - 121	4.45" - 4.76"	---
M10DC-122	122 - 130	4.80" - 5.12"	---
M10DC-131	131 - 139	5.16" - 5.47"	---
M10DC-140	140 - 148	5.51" - 5.83"	---
M10DC-149	149 - 161	5.87" - 6.34"	---
M10DC-162	162 - 174	6.38" - 6.85"	---
M10DC-175	175 - 187	6.89" - 7.36"	---
M10DC-188	188 - 200	7.40" - 7.87"	---
M10DC-200	200 - 220	7.87" - 8.66"	---
M10DC-220	220 - 240	8.66" - 9.45"	---
M10DC-240	240 - 260	9.45" - 10.24"	---
M10DC-260	260 - 280	10.24" - 11.02"	---
M10DC-280	280 - 300	11.02" - 11.81"	---
M10DC-300	300 - 325	11.81" - 12.80"	---
M10DC-325	325 - 350	12.80" - 13.78"	---
M10DC-350	350 - 375	13.78" - 14.76"	---
M10DC-375	375 - 400	14.76" - 15.75"	---
M10DC-400	400 - 425	15.75" - 16.73"	---
M10DC-425	425 - 450	17.73" - 17.72"	---
M10DC-450	450 - 475	17.72" - 18.70"	---

CARBON STEEL 1-EAR

HOSE CLAMPS

CARBON STEEL 1-EAR CLAMPS

1-Ear Clamps are intended for low pressure applications such as automotive (not fuel lines), appliances, industrial machinery, underground irrigation systems and beverage dispensing equipment. They are specifically designed for mass production applications where inexpensive clamps are needed.

Pressure:

As a guideline, 1-Ear Clamps have held

30 bar - 441 psi.

This was done using a static water pressure test.

- 100 PER BAG

**Material:**

Hot dipped galvanized carbon steel band - G90

PART #	REF#	NOMINAL SIZE	INCHES		LIST PRICE
			CLOSE	OPEN	
1050000	105	3/8"	0.350	0.414	---
1050001	113	7/16"	0.381	0.444	---
1050002	123	15/32"	0.394	0.486	---
1050003	133	1/2"	0.453	0.524	---
1050006	140	35/64"	0.472	0.551	---
1050007	145	9/16"	0.496	0.571	---
1050008	157	5/8"	0.543	0.618	---
1050009	170	11/16"	0.594	0.669	---
1050010	185	23/32"	0.618	0.728	---
1050011	198	3/4"	0.669	0.779	---
1050012	210	13/16"	0.716	0.827	---
1050013	226	7/8"	0.779	0.890	---
1050014	241	15/16"	0.839	0.949	---
1050015	256	1"	0.898	1.008	---
1050016	271	1-1/16"	0.945	1.067	---
1050017	286	1-1/8"	1.004	1.126	---
1050018	301	1-3/16"	1.063	1.185	---
1050020	331	1-5/16"	1.181	1.303	---
1050021	346	1-3/8"	1.240	1.362	---
1050023	376	1-15/32"	1.358	1.480	---
1050025	396	1-9/16"	1.437	1.559	---
1050026	410	1-5/8"	1.492	1.614	---
1050029	455	1-3/4"	1.669	1.791	---
1050030	470	1-16/16"	1.728	1.850	---
1050032	500	1-15/16"	1.846	1.968	---
1050033	515	2"	1.905	2.028	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



2 EAR AND GAPLESS

HOSE CLAMPS

2-EAR CLAMPS

2-Ear Clamps are especially suited for industrial use and with heavily vibrating equipment.

This is a medium pressure clamp and is widely used for maintenance and OEM applications. Rubber hose, plastic tubing, coaxial and electrical cable, rope, etc. are all easily clamped. These clamps are installed on air, fluid, gas and steam lines. The one piece design offers a positive, tamper-proof seal without damaging the hose.

PRESSURE:

As a guideline, 2-Ear Clamps successfully seal at 54 bar - 800 psi with 35 pulsating strokes a minute.

MATERIAL:

Zinc plated carbon steel
SAE 1008/1010 or DIN 1.0338
Stainless steel tubing
UNS S30400 or DIN 1.4301



• 100 PER BAG

Note: When ordering your 2-Ear Clamps select nominal clamp size nearest to, but always larger than, O.D. of material to be clamped after insert has been fitted.

ZINC PLATED CARBON STEEL

PART #	NOMI-NAL SIZE	INCHES		LIST PRICE
		CLOSE	OPEN	
1010002	3/16"	0.134	0.197	
1010008	5/16"	0.276	0.354	
1010011	3/8"	0.319	0.433	
1010016	1/2"	0.425	0.512	
1010019	9/16"	0.492	0.591	
1010022	19/32"	0.551	0.669	
1010024	5/8"	0.591	0.709	
1010027	3/4"	0.638	0.787	

STAINLESS STEEL

PART #	NOMINAL SIZE	INCHES		LIST PRICE
		CLOSE	OPEN	
1510003	1/4"	0.197	0.276	
1510004	5/16"	0.276	0.354	
1510023	3/8"	0.319	0.433	
1510006	1/2"	0.425	0.512	
1510007	9/16"	0.492	0.591	
1510008	19/32"	0.551	0.669	
1510009	5/8"	0.591	0.709	
1510010	3/4"	0.638	0.787	
1510011	13/16"	0.709	0.866	
1510012	7/8"	0.748	0.906	
1510013	15/16"	0.827	0.984	
1510014	1"	0.886	1.063	
1510016	1-1/8"	1.035	1.221	
1510019	1-9/16"	1.260	1.457	
1510020	1-1/2"	1.378	1.575	

Minimum QTYs may apply

GAPLESS EAR CLAMPS

Features

- Assured clamping seal
- For low durometer and/ or thin-walled hose/ tubing
- Perfect for silicon, vinyl, polyurethane or other high tech materials used in all industries.
- Once installed, smooth inner band circumference prevents damage to the hose while the unique tongue-in-groove design provides a 360° seal
- There are no steps or gaps inside clamp



Material

- Stainless steel tubing UNS S30400 or DIN 1.4301

• 100 PER BAG

PART #	NOMI-NAL SIZE	BAND WIDTH	INCHES		LIST PRICE
			CLOSE	OPEN	
16700001	9/32"	5mm	0.228	0.276	
16700004	3/8"	5mm	0.307	0.374	
16700007	7/16"	5mm	0.378	0.445	
16700010	1/2"	7mm	0.425	0.524	
16700012	35/64"	7mm	0.453	0.551	
16700013	9/16"	7mm	0.472	0.571	
16700016	5/8"	7mm	0.520	0.618	
16700017	11/16"	7mm	0.571	0.669	
16700022	3/4"	7mm	0.654	0.780	
16700024	13/16"	7mm	0.701	0.827	

HOSE CLAMPS

HOSE CLAMPS

EAR CLAMPS**2-EAR PINCH CLAMPS**

Robust, durable one-piece design offers positive, tamper resistant seal for air and fluid media lines smooth edges prevent damage to hose designed for one time use only

CIRCLE CLAMP 2 EAR

White zinc plated carbon steel



PART #	SIZE	CLOSED	OPEN	LIST PRICE
CC-1113	1/2	0.433	0.512	---
CC-1315	9/16	0.512	0.591	---
CC-1517	19/32	0.591	0.669	---
CC-1518	5/8	0.591	0.709	---
CC-1720	3/4	0.669	0.787	---
CC-2023	7/8	0.787	0.906	---
CC-2225	15/16	0.866	0.984	---
CC-2327	1	0.906	1.063	---
CC-2528	1-1/16	0.984	1.102	---
CC-2731	1-1/8	1.063	1.220	---
CC-3134	1-5/16	1.220	1.339	---
CC-3740	1-1/2	1.457	1.575	----

hammerlock CLAMPS**HAMMERLOCK CPHL SERIES**

Double wrapped galvanized steel band preformed to a given diameter and ready for application.



IMPORT



PART #	SIZE	WIDTH	LIST PRICE
CPHL-03	1-3/16"	3/8"	---
CPHL-04	1"	5/8"	---
CPHL-05	1-1/4"	5/8"	---
CPHL-06	1-1/2"	5/8"	---
CPHL-07	1-3/4"	5/8"	---
CPHL-08	2"	5/8"	---
CPHL-09	2-1/4"	5/8"	---
CPHL-10	2-1/2"	5/8"	---
CPHL-11	2-3/4"	5/8"	---
CPHL-12	3"	5/8"	---
CPHL-14	3-1/2"	5/8"	---
CPHL-16	4"	5/8"	---
CPHL-18	4-1/2"	5/8"	---
CPHL-20	5"	5/8"	---

HAMMERLOCK CPHLS SERIES

Double wrapped stainless steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.

IMPORT



PART #	SIZE	WIDTH	LIST PRICE
CPHLS-04	1"	5/8"	---
CPHLS-05	1-1/4"	5/8"	---
CPHLS-06	1-1/2"	5/8"	---
CPHLS-07	1-3/4"	5/8"	---
CPHLS-08	2"	5/8"	---
CPHLS-09	2-1/4"	5/8"	---
CPHLS-10	2-1/2"	5/8"	---
CPHLS-11	2-3/4"	5/8"	---
CPHLS-12	3"	5/8"	---
CPHLS-14	3-1/2"	5/8"	---
CPHLS-16	4"	5/8"	---
CPHLS-18	4-1/2"	5/8"	---
CPHLS-20	5"	5/8"	---
CPHLS-24	6"	5/8"	---
CPHLS-28	7"	5/8"	---
CPHLS-32	8"	5/8"	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PREFORMED

HOSE CLAMPS

TO ORDER the correct size Fast Lok Clamps, measure the outside diameter of the hose or article and then select the next larger inside diameter clamp by catalog number.

- Minimum Qty may apply



Preformed Clamps are double wrapped and formed to a given diameter. Used primarily where one end of the hose or article is free to allow the clamps to be slid over the hose end before the fitting is inserted. All clamps may be pulled down to a smaller diameter but cannot be adjusted to a larger diameter.

PREFORMED CLAMPS

(3/8" AND 5/8" (NOMINAL) WIDTH) - 100/BOX

PART #	BAND WIDTH & THICKNESS	LIST PRICE	CLAMP I.D. INCHES	CATALOG NUMBER SS	BAND WIDTH & THICKNESS	LIST PRICE
F-3	3/8 x .025		13/16			
F-311	3/8 x .025		1 3/8			
F-4	5/8 x .025		1	FS-4	5/8 x .022	
F-5	5/8 x .025		1 1/4	FS-5	5/8 x .022	
F-6	5/8 x .031		1 1/2	FS-6	5/8 x .022	
F-7	5/8 x .031		1 3/4	FS-7	5/8 x .022	
F-8	5/8 x .031		2	FS-8	5/8 x .022	
F-9	5/8 x .031		2 1/4	FS-9	5/8 x .022	

WITH STAINLESS STEEL LOK - 50/BOX

F-10	5/8 x .031		2 1/2	FS-10	5/8 x .022	
F-11	5/8 x .031		2 3/4	FS-11	5/8 x .022	
F-12	5/8 x .031		3	FS-12	5/8 x .022	
F-14	5/8 x .031		3 1/2	FS-14	5/8 x .022	
25/ BOX						
F-16	5/8 x .031		4	FS-16	5/8 x .022	
F-18	5/8 x .031		4 1/2	FS-18	5/8 x .022	
F-20	5/8 x .031		5	FS-20	5/8 x .022	
	5/8 x .031		6	FS-24	5/8 x .022	
	5/8 x .031		7	FS-28	5/8 x .022	

Double-wrapped, Triple Punched, Holds Permanently



Galvanized Preformed Clamps 2 1/2 inch I.D. and above, and 5/8" wide open end clamps have a stainless steel lock for greater strength and rigidity.

K-CLAMP PREFORMED HOSE CLAMPS

Each clamp is a double wrapped metal band formed to a given diameter. The clamp is designed to be slid over the hose end before the fitting is inserted. A punch-type or fold-up tool is then used to apply the clamp.

Punch Indentation for ease of center punching

Heavy Duty Lock for greater strength and rigidity



Heavy Duty Clamp



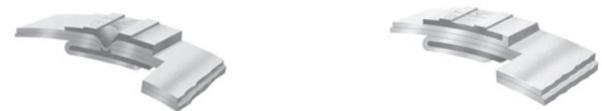
K-Clamps may be secured by either a punch or fold-up method. (See cross sectioned views)

- Minimum Qty may apply

Center Punched

Less tension loss. Patented hole in inner band gives better internal mechanical locking after punching

Fold-up



PREFORMED CLAMPS

(3/8" AND 5/8" (NOMINAL) WIDTH) - 100/BOX

GALVANIZED STEEL

STAINLESS STEEL
TYPE 301

PART #	LIST	CLAMP I.D. INCHES	BAND WIDTH & THICKNESS	PART #	LIST PRICE
K-3		13/16"	3/8" x .025	KS-3	
K-311		1-3/8"	3/8" x .025	KS-311	
K-4		1"	5/8" x .030	KS-4	
K-5		1-1/4"	5/8" x .030	KS-5	
K-6		1-1/2"	5/8" x .030	KS-6	
K-7		1-3/4"	5/8" x .030	KS-7	
K-8		2"	5/8" x .030	KS-8	
K-9		2-1/4"	5/8" x .030	KS-9	
50/BOX					
K-10		2-1/2"	5/8" x .030	KS-10	
K-11		2-3/4"	5/8" x .030	KS-11	
K-12		3"	5/8" x .030	KS-12	
K-14		3-1/2"	5/8" x .030	KS-14	
25/BOX					
K-16		4"	5/8" x .030	KS-16	
K-18		4-1/2"	5/8" x .030	KS-18	
K-20		5"	5/8" x .030	KS-20	
K-24		6"	5/8" x .030		
K-28		7"	5/8" x .030		

CLAMPING TOOLS

HOSE CLAMPS

MODEL 1098 I STANDARD JAW PINCERS

Domestic

PART #	LIST PRICE
OETP-1098	---



PART #	LIST PRICE
1410118	---

SIDE JAW PINCERS

This dual purpose, side jaw design allows clamps to be applied or removed in confined areas with pincers held parallel to the hose. Also used like standard Pincers.

Domestic



PART #	LIST PRICE
1410083	Model 10991 ---

TPT TOOLS AND PARTS



PART #	LIST PRICE
TPT-1	---

HOSE CRIMPER



HOSE CRIMPER COMES WITH 5 DIES
Die Sizes = 5/8", 37/64", 12/32", 31/64", 11/16"

PART #	LIST PRICE
308070	Hose Crimper ---

LOKING TOOL



PART #	LIST PRICE
F38	---

Portable hand tool used to apply punch Type 3/8 & 5/8 Clamps

BUCHANAN TYPE



P38

LOKING TOOL



PART #	LIST PRICE
F40	---

Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

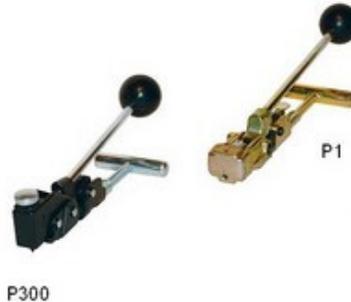
LOKING TOOL



Used to apply Punch Type 3/8 & 5/8 clamps. Order mallet separately

PART #	LIST PRICE
F100	---

LOKING TOOL HD



P300

P1

PART #	LIST PRICE
P1	HEAVY DUTY ---
P300	IMPORTED VERSION ---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

LINED BAND CLAMPS

HOSE CLAMPS

Features unique one-piece housing, rolled-up band edges and a non-perforated (embossed) band that protects the hose. For added corrosion resistance, the band in the 12mm Standard is made of Aluzinc which gives three times the protection offered by conventional galvanized steel.

- Features high clamping force and high durability torque.
- Stainless: All parts in AISI 304 Stainless Steel.

A non-perforated band with rolled up edges eliminates hose damage while increasing clamping force. Per SAE standard J1508 Type "FEO"



GENERAL PURPOSE EMBOSSED WORM-GEAR HOSE CLAMPS

• Minimum Qty may apply

PART # ALUZINC	LIST PRICE	SAE SIZE	CLAMPING RANGE		BAG	PART# 304 SS	LIST PRICE
			INCHES	MM			
88024	-----	8	5/8-1	15-24	1000	89024	-----
88028	-----	10	3/4-1-1/8	19-28	500	89028	-----
88032	-----	12	7/8-1-1/4	22-32	500	89032	-----
88038	-----	16	1-1/16-1-1/2	26-38	500	89038	-----
		20	1-1/4-1-3/4	32-44	500	89044	-----
88050	-----	24	1-1/2-2	38-50	500	89050	-----
88056	-----	28	1-3/4-2-1/4	44-56	500	89056	-----
88065	-----	32	2-2-9/16	50-65	200	89065	-----
88075	-----	40	2-5/16-3	58-75	200	89075	-----
88085	-----	44	2-11/16-3-3/8	68-85	200	89085	-----
88095	-----	52	3-3-3/4	77-95	200	89095	-----
		64	3-7/16-4-7/16	87-112	200	89112	-----

MINI CLAMPS

Sure seal for small, thin walled hoses. The nut is secured to the clamp, making installation easier and the hexagonal head can be tightened with a socket wrench or screw driver. Bandwidth is 9mm.

PAINTED ALUZINC STANDARD MINI CLAMPS



PART # ALUZINC	CLAMPING RANGE		QTY PER BAG	LIST PRICE
	INCHES	MM		
92010	.36-.41	9-10.5	1000	-----
92011	.37-.45	9.5-11.5	900	-----
92012	.41-.49	10.5-12.5	800	-----
92013	.45-.53	11.5-13.5	800	-----
92014	.49-.57	12.5- 14.5	700	-----
92015	.53-.61	13.5-15.5	600	-----
92016	.55-.65	14-16.5	500	-----
92017	.59-.69	15-17.5	500	-----

MINI CLAMPS

304 SS MINI CLAMPS



PART # 304 SS	CLAMPING RANGE		QTY PER BAG	LIST PRICE
	INCHES	MM		
93008	.30-.34	7.5-8.5	1000	---
93009	.34-.37	8.5-9.5	1000	---
93011	.41-.47	10.5-12	900	---
93013	.49-.55	12.5-14	800	---
93017	.63-.71	16-18	500	---

LINED, MINI/ RUBBER LINED**HOSE CLAMPS****RUBBER LINED CLAMPS**

Multiple uses for holding cable, wire, pipe and hose. The rubber cushion absorbs vibration, provides protection against scratching and is made of black EPDM type rubber.

Rubber cushion clamps are used in a variety of industries and applications including automotive, truck, hydraulics and pneumatics, ship building, refrigeration, large equipment packaging etc.

Bandwidths and mounting hose sizes vary by diameter and material.

- Aluzinc clamps have a .26 hole diameter
- Stainless Steel .20 diameter

PART # ALUZ- INC	QTY PER BAG	LIST PRICE	CLAMPING RANGE		PART# 304 SS	QTY PER BAG	LIST PRICE
			INCHES	MM			
95300	100	-----	1/8	3			
95301	100	-----	3/16	5	96301	1000	---
95302	100	-----	1/4	6	96302	200	---
95303	100	-----	5/16	8	96303	1000	---
95304	100	-----	3/8	10	96304	100	---
95305	100	-----	7/16	11	96305	1000	---
95306	100	-----	1/2	13	96306	100	---
95307	100	-----	9/16	14	96307	100	---
95308	100	-----	5/8	16	96308	100	---
95309	50	-----	11/16	18			
95310	50	-----	3/4	19	96310	500	---
95311	50	-----	13/16	21			
95312	50	-----	7/8	22	96312	500	---
95313	50	-----	15/16	24			
95314	50	-----	1	25	96314	500	---
95315	50	-----	1-1/16	27			
95316	50	-----	1-1/8	29	96316	500	---
95317	50	-----	1-3/16	30			
95318	50	-----	1-1/4	32	96318	500	---
95319	50	-----	1-5/16	33			
95320	50	-----	1-3/8	35	96320	500	---
95321	50	-----	1-7/16	36			
95322	500	-----	1-1/2	38	96322	100	---
95326	50	-----	1-5/8	41			
95323	25	-----	1-3/4	45	96323	500	---
95328	25	-----	1-7/8	47			
95324	25	-----	2	51			
95325	25	-----	2-1/8	54			
95329	25	-----	2-3/8	60			
95327	25	-----	2-1/2	65			
95330	15	-----	2-15/16	74			
95331	10	-----	4-5/16	110			

**RUBBER CUSHIONED CLAMP, ZINC PLATED STEEL**

PART #	MOUNTING DIA	CLAMP DIA	LIST PRICE
95402	3/8"	1/4"	-----
95404	3/8"	3/8"	-----
95406	3/8"	1/2"	-----
95408	3/8"	5/8"	-----
95410	3/8"	3/4"	-----
95414	3/8"	1"	-----
95418	3/8"	1 1/4"	-----
95422	3/8"	1 1/2"	-----
95424	3/8"	2"	-----
95427	3/8"	2 1/2"	-----
95432	3/8"	3"	-----
95433	3/8"	4"	-----
95434	3/8"	5"	----

**GALVANIZED STEEL VINYL COATED CLAMP**

PART #	MOUNTING DIA	CLAMP DIA	LIST PRICE
95504	1/4"	3/8"	-----
95506	1/4"	1/2"	-----
95508	1/4"	5/8"	-----
95510	1/4"	3/4"	-----
95512	1/4"	7/8"	-----
95514	1/4"	1"	-----
95516	1/4"	1 1/8"	-----
95518	1/4"	1 1/4"	-----
95522	1/4"	1 1/2"	-----
95523	1/4"	1 3/4"	-----
95524	1/4"	2"	-----

HOSE FERRULES

HOSE CLAMPS

HOSE FERRULES

Brass Hose Ferrules offer an alternative to hose clamps. After crimping, the ferrule will provide a permanent clamping force on both the hose and fitting.

I.D.  Pierce/ Hole

• ASTM B36 Alloy 268

PART #	FER-RULE #	I.D.	LENGTH	PIERCE	GAUGE	LIST
32500	6231	0.330	0.49	0.250	0.020	---
32501	833	0.358	0.500	0.265	0.020	---
32503	833B	0.375	0.718	0.265	0.025	---
32502	622	0.380	0.500	0.265	0.020	---
32550	619	0.400	0.47	0.27	0.020	---
32504	620	0.410	0.500	0.265	0.020	---
32505		.405	.718	.265	0.020	
32551	769R	0.450	0.562	0.343	0.020	---
32552	4750	0.478	0.687	0.328	0.025	---
32553	624R	0.500	0.500	0.343	0.020	---
32506	7322A	0.500	1.000	0.343	0.025	---
32554	7322	0.500	1.000	0.328	0.025	---
32555	625	0.525	0.47	0.36	0.020	---
32517	625A	0.525	0.56	0.360	0.020	---
32556	7323	0.525	1.000	0.375	0.025	---
32521	9974	0.525	1.000	0.437	0.025	---
32557	7324	0.531	1.000	0.375	0.025	---
32558	626	0.550	0.484	0.375	0.020	---
32507	3588	0.56	0.75	0.375	0.020	---
32559	7325	0.56	1.000	0.437	0.025	---
32561	7326	0.593	1.000	0.437	0.025	---
32563	JJ	0.600	0.500	0.500	0.020	---
32526	II	0.625	0.500	0.500	0.020	---
32564	7327	0.625	1.000	0.437	0.025	---
32565	HH	0.650	0.500	0.500	0.020	---
32566	7328	0.656	1.000	0.437	0.025	---
32567	GG	0.675	0.515	0.500	0.020	---
32568	7329	0.69	1.000	0.500	0.025	---

PART #	FER-RULE #	I.D.	LENGTH	PIERCE	GAUGE	LIST
32570	7330	0.718	1.000	0.500	0.025	---
32508	7330A	0.718	1.000	0.625	0.025	---
32571	EE	0.725	0.530	0.500	0.020	---
32572	DD	0.750	0.531	0.500	0.020	---
32510	7331B	0.75	1.00	0.500	0.025	---
32573	7331	0.750	1.000	0.625	0.025	---
32574	CC	0.775	0.531	0.500	0.020	---
32533	7332B	0.781	1.000	0.500	0.025	---
32575	7332	0.781	1.000	0.625	0.025	---
32576	BB	0.800	0.546	0.562	0.020	---
32577	7333	0.812	1.000	0.625	0.025	---
32578	AA	0.825	0.546	0.562	0.020	---
32535		0.85	0.968	0.687	0.025	---
32579	7244	0.875	0.843	0.687	0.025	---
32539	5029A	0.900	0.875	0.687	0.025	---
32580	7113	0.925	0.968	0.750	0.025	---
32543	5028A	0.975	0.843	0.687	0.025	---
32545	5235A	1.000	0.843	0.687	0.025	---
32549	7145A	1.050	0.843	0.687	0.025	---
32584	5027	1.100	0.843	0.812	0.025	---
32586	7104A	1.15	0.843	0.875	0.025	---
32588	7088A	1.175	0.875	0.875	0.025	---
32590	875L	1.200	0.843	0.875	0.025	---
32591	7291	1.225	0.968	0.875	0.025	---
32592	7255	1.25	0.968	1.000	0.04	---
32596	8000	1.425	0.875	1.062	0.025	---
32597	1500	1.50	0.875	1.125	0.025	---

STAINLESS STEEL FERRULES



PART #	CROSS #	I.D.	LENGTH	HOLE	METAL THICKNESS	LIST PRICE
32552SS	x4750	.478	.687	.328	.020	---
32557SS	7324	.531	1.00	.438	.020	---
32559SS	7325	.56	1.00	.437	.020	---
32561SS	7326	.593	1.00	.437	.020	---
32564SS	7327	.625	1.00	.437	.020	---
32566SS	7328	.656	1.00	.437	.020	---
32568SS	7329	.69	1.00	.50	.020	---
32570SS	7330	.718	1.00	.625	.020	---
32575SS	7332	.781	1.00	.625	.020	---
32577SS	7333	.812	1.00	.625	.020	---
32588SS	7088A	1.175	.844	.875	.020	---

TUBING
TUBING

TUBING

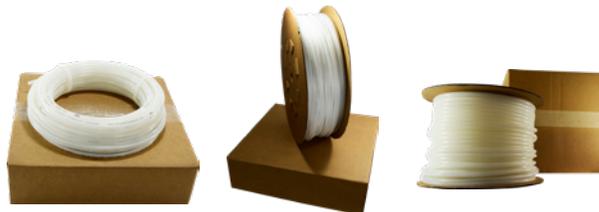


POLYURETHANE



POLYETHYLENE

Sold individually boxed



Natural, Black, Blue, Green, Red, Yellow, Orange

NYLON

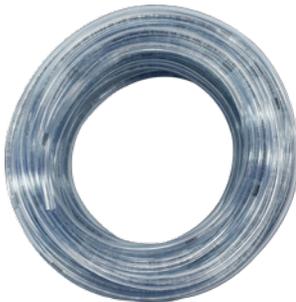
Sold individually boxed



PVC

• Clear

Sold individually boxed



COPPER AND ALUMINUM



TYPE L AND REFRIGERATION

ALUMINUM



POLYURETHANE NSF 51®



NSF 51® polyurethane (PUR) Shore A 98 tubing is made from the highest quality raw materials available. It is etherbased to provide excellent hydrolysis, oil and cold resistance. Polyurethane NSF 51® is strong and flexible and offers superior kink resistance compared to other tubing. It is 5 to 10 times more wear resistant and lighter in weight than any rubber hose.

Polyurethane NSF 51® tubing has an outside diameter made to extremely tight tolerances. It is ideal for use with push-to-connect fittings, as well as barb-type and compression fittings for simple installation.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat & Cold Resistant
- Chemical Resistant
- Kink Resistant
- NSF 51® Certified
- Meets NSF 61® Requirements

Specifications

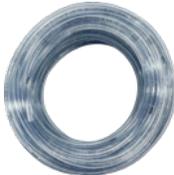
Temperature Range: -40°F to +160°F
 Hardness: Shore A 98
 Vacuum Rating:
 To 28" Hg
 Tolerances:
 1/8"-1/2" O.D. +/- .005
 9/16"-3/4" O.D. +/- .006
 RoHS Compliant

Applications

Pneumatic Tools Lube Lines
 Pneumatic Piping Painting Systems
 Vacuum Food & Beverages
 Laboratories
 Robotics
 Motion Control
 Instrumentation
 Agriculture

100' FOOT LENGTHS

CLEAR



PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRESSURE	PACKAGE WEIGHT (LBS)	LIST PRICE
973343	.250	.156	.047	.476	180	70	540	1.50	---
973345	.375	.250	.063	1.000	150	70	450	3.40	---
973345	.375	.250	.063	1.000	150	70	450	3.40	---
973346	.500	.328	.086	1.102	150	70	450	5.60	---

BLACK



PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRESSURE	PACKAGE WEIGHT (LBS)	LIST PRICE
73341B	4mm, 5/32	.093	.031	.250	200	85	600	.70	---
73343B	.250	.156	.047	.476	180	70	540	1.50	---
73345B	.375	.250	.063	1.000	150	70	450	3.40	---
73346B	.500	.328	.086	1.102	150	70	450	5.60	---

BLUE



PART #	O.D. (IN)	I.D. (IN)	WALL THICKNESS (IN)	BEND RADIUS (IN)	W.P. @70°F (PSI)	W.P. @150°F (PSI)	3:1 BURST PRESSURE	PACKAGE WEIGHT (LBS)	LIST PRICE
73343U	.250	.156	.047	.476	180	70	540	1.50	---
73345U	.375	.250	.063	1.000	150	70	450	3.40	---
73346U	.500	.328	.086	1.102	150	70	450	5.60	---

POLYETHYLENE

LINEAR LOW DENSITY POLYETHYLENE TUBING (LLDPE)

Features

- Chemically Inert
- Chemical Resistant
- Lightweight & Flexible
- Good Dielectric Properties
- Impermeable to Gases
- Meets FDA Requirements
- Multiple Colors Available
- Vacuum rating to 28" Hg

Polyethylene is made from 100% non-toxic ingredients. It's inert nature and FDA compliant status makes it perfect for food, water and beverage piping. It is ideal for use in pneumatic, drain piping, lab use and chemical transfer applications which require an inexpensive tubing.

Polyethylene is highly-resistant to stress cracking from chemicals, aging and ultraviolet exposure. For use with barb-type, push-to-connect or compression-style fittings.

Specifications

Temperature Range: -50°F to +140°F

Hardness: Shore A 93A

Shore D 45D

Applications

Food & Beverage
 Pneumatic Tools
 Pneumatic Piping
 Electrical Jacketing
 Drain Lines
 Instrumentation
 Chemical Transfer

Process Control
 Laboratories



100' LENGTH



500' LENGTH



1000' LENGTH

100' LENGTH - Natural

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
973200	1/8"	0.08	0.022	250	---
973201	5/32"				---
973203	1/4"	0.17	0.040	150	---
973204	1/4"	0.125	0.0625	350	---
973205	8mm/5/16"	0.236	0.038	150	---
973206	3/8"	0.25	0.0625	150	---
973207	1/2"	0.375	0.0625	125	---
973208	5/8"	0.50	0.0625	100	---
973211	3/4"				---

500' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
73200N5	1/8"	0.085	0.020	250	---
73203N5	1/4"	0.17	0.040	150	---
73204N5	1/4"	0.125	0.0625	350	---
73206N5	3/8"	0.25	0.0625	150	---
73207N5	1/2"	0.375	0.0625	125	---

1000' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
73203N1	1/4"	0.17	0.040	150	---
73206N1	3/8"	0.25	0.0625	150	---

POLYETHYLENE

TUBING

LLDPE POLYETHYLENE TUBING - COLORS



BLACK

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	LIST PRICE
73201B	Black	100'	5/32	
73203B	Black	100'	1/4"	---
73204B	Black	100'	1/4"	---
73205B	Black	100'	5/16"	---
73206B	Black	100'	3/8"	---
73207B	Black	100'	1/2"	---
73203B5	Black	500'	1/4"	---
73206B5	Black	500'	3/8"	---
73207B5	Black	500'	1/2"	---
73203B1	Black	1000'	1/4"	---



GREEN

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	LIST PRICE
73203G	Green	100'	1/4"	---

PART #	COLOR	LENGTH	NOMINAL O.D.	LIST PRICE
73203G5	Green	500'	1/4"	
73204G	Green	100'	1/4"	
73206G	Green	100'	3/8"	
73207G	Green	100'	1/2"	



RED

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	LIST PRICE
73203R	Red	100'	1/4"	---
73206R	Red	100'	3/8"	---
73203R5	Red	500'	1/4"	---
73206R5	Red	500'	3/8"	---
73207R	Red	100'	1/2"	



BLUE

- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMINAL O.D.	LIST PRICE
73203U	Blue	100'	1/4"	---
73206U	Blue	100'	3/8"	---
73207U	Blue	100'	1/2"	---
73203U5	Blue	500'	1/4"	---
73206U5	Blue	500'	3/8"	---
73204U	Blue	100'	1/4"	

MORE COLORS AVAILABLE

PART #	COLOR	LENGTH	NOMINAL O.D.	LIST PRICE
73203W	White	100'	1/4"	
73203Y	Yellow	100'	1/4"	
73207Y	Yellow	100'	1/2"	

NYLON
TUBING

NYLON 12 TUBING

Nylon 12 tubing is recognized as an industry standard for applications which require higher working pressures and higher heat and/or chemical resistance. It is ideal for outdoor use applications because of its superior stress crack resistance. Nylon 12 is strong, lightweight and has a very low moisture absorption rate compared to other nylons. By not absorbing moisture, Nylon 12 remains more flexible, which in turn extends it's service life. Nylon 12 tubing can be used with standard push-to-connect fittings and compression fittings for simple installation.

Because of it's semi-rigid properties, a thinner tube wall provides higher flow rates and working pressure.

Features

- Strong
- Lightweight
- Flexible
- Abrasion Resistant
- Heat Resistant
- Chemical Resistant
- Heat/ Light Stabilized
- Black - UV Rated

Specifications

Temperature Range: -60°F to +200°F
 Hardness: Rockwell 78 R
 Shore D 70
 Vacuum Rating: To 28" Hg
 Higher Flow Rates & Working Pressure
 Tolerances: 1/8"-1/4" +/- .004
 3/4"-1/2" +/- .006

Applications

Pneumatic Tools Chemical Transfer
 Pneumatic Piping Vacuum
 Instrumentation Process Control
 Lube Lines Fuel Lines
 Coolants Paint Supply Lines
 Refrigeration Laboratories

Part #'s shown are for natural. 500' and 1000' reels available on request.



100' LENGTH



BLACK TUBING & MISC.



METRIC LENGTH

100' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE	LIST PRICE
973230	1/8"	0.08	.022	420	---
973231	5/32"	0.106	.025	350	---
973232	1/4"	0.18	.035	290	---
973238	1/4"	0.15	.05	800	---
973226	5/16"	0.236	.039	250	---
973233	3/8"	0.275	.050	250	---
973234	1/2"	0.375	.062	240	---

BLACK TUBING & MISC.

PART #	O.D.	TUBE ID	WALL	WORKING PRESSURE	LIST PRICE
73230B	1/8	0.08	0.022	420	---
73231B	5/32	0.106	0.025	350	---
73232B	1/4	0.18	0.035	290	---
73238B	1/4	0.15	0.05	800	---
73233B	3/8	0.275	0.05	250	---
73232N5*	1/4	0.18	0.035	290	---

• 500' Natural **Blue

*METRIC LENGTH - 100 ft. coils • available in natural color only

PART #	MM O.D.	MM I.D.	MM WALL	WORKING PRESSURE	LIST PRICE
973323	4	2.7	0.65	350	---
973326	6	3.5	1.25	350	---
973325	6	4	1	340	---
973327	8	6	1	250	---
973329	10	8	1	225	---
973332	12	10	1	200	---
973334	14	11	1.5	175	---

PVC TUBING AND TUBING CUTTERS

TUBING

PVC POLYVINYLCHLORIDE TUBING - NSF61



PVC is suited for general, low-pressure, industrial applications for the conveyance of liquids and solids of suitable granular size. Made from a PVC compound that complies with FDA regulations. Although it is primarily intended for applications where pressure is not essential, it will withstand the pressures shown.

The clear PVC Tubing provides good chemical resistance, is lightweight, flexible and economically priced.

Features

- Lightweight
- Flexible
- Food Grade
- Clear Color/ Blue tint

Specifications

Temperature Range: +25°F to +150°F
 Hardness: Shore A 75 PVC
 Meets FDA requirements
 NSF 61 Certified
 USP Class VI rated materials
 RoHS Compliant

Applications

Beverage Dispensing Distilled Water Transfer
 Drain Tubing Light Vacuum
 Potable Water Wire Harness
 Laboratory Tubing 3:1 Burst Pressure
 Wine Transfer
 Low Pressure Air Line

Colors Available: Clear

Package Lengths: 100'

100' LENGTH

PART #	TUBE I.D.	TUBE O.D.	TUBE WALL	WORKING PRESSURE	LIST PRICE
973224	1/8 (.125)	1/4 (.25)	1/16 (.032)	50	---
973223	3/16 (.187)	5/16 (.313)	1/16 (.062)	55	---
973215	1/4 (.25)	3/8 (.375)	1/16 (.062)	55	---
973252	5/16 (.312)	7/16 (.438)	1/16 (.062)	50	---
973253	5/16 (.312)	1/2 (.500)	3/32 (.094)	55	---
973216	3/8 (.375)	1/2 (.500)	1/16 (.062)	45	---
973255	3/8 (.375)	5/8 (.625)	1/8 (.125)	55	---
973262	3/8 (.375)	9/16 (.563)	3/32 (.094)	50	---
973217	1/2 (.500)	5/8 (.625)	1/16 (.062)	30	---
973219	3/4 (.750)	1 (1.00)	1/8 (.125)	35	---
973221	1 (1.00)	1-1/4 (1.25)	1/8 (.125)	25	---

TUBE CUTTERS

MINI-TUBING CUTTER

- Great for tight places



PART #	SIZE	LIST PRICE
990571	3mm-22mm (1/8"-7/8")	---

TUBING CUTTER



PART #	SIZE	LIST PRICE
990570	1/8"-1-1/8"	---

PLASTIC TUBE CUTTER

Range: 1/8" - 3/8" I.D. (3mm-10mm)



PART #	DESCRIPTION	LIST PRICE
91707	Cutter w/Blade	---

ALUMINUM AND COPPER

TUBING

ALUMINUM TUBING - EASY BEND

Alloy
3003-0
ASTM
B-483



Material
to ASTM
B-483

900 PSI max
3700 Burst PSI

Bend this tubing into the shape you need without special tools or elbow fittings. It is also known as Alloy 3003. Tubing has seamless construction, which provides a smooth interior and allows it to be flared without splitting. Use with water, air, alcohol and oil. Tubing meets ASTM B483 and has a soft (annealed) temper. OD tolerance is ± 0.004 "

ALUMINUM VERSATUBE 50' COILS

PART #	O.D.	WALL THICK	ID	MAX PSI @ 100°F	CASE	50' COILS
972190	1/8	.025	.075"	2,300	10 coils	---
972191	3/16	.028	.132"	1,600	10 coils	---
972192	1/4	.032	.186"	1,400	10 coils	---
972193	5/16	.035	.243"	1,200	10 coils	---
972194	3/8	.035	.305"	1,000	10 coils	---
972195	1/2	.035	.43"	740	10 coils	---

COPPER TUBING - REFRIGERATION TUBING

ASTMB280



- Temp range: 32° to 400°F
- Bend with a bending tool
- Use with copper solder-connect fittings

This copper Alloy 122 tube comes cleaned and capped to prevent moisture and dirt from contaminating the inside. It's often called refrigeration and air conditioning tubing. Use with water, natural gas, oil and R22 refrigerant. Tubing meets ASTM B280. It has seamless construction, which provides a smooth interior. Tubing has a soft (annealed) temper.

REFRIGERATION COPPER TUBE 50' COILS

PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 50' COIL	50' COILS
972180	-	1/8	.030	.065"	3,000	1.74	---
972181	-	3/16	.030	.128"	1,900	2.88	---
972182	1/8	1/4	.030	.19"	1,400	4.02	---
972183	-	5/16	.032	.248"	1,100	5.45	---
972184	1/4	3/8	.032	.311"	980	6.70	---
972185	3/8	1/2	.032	.436"	720	9.10	---
972186	1/2	5/8	.035	.555"	610	12.55	---
972187	5/8	3/4	.035	.68'	510	15.25	---

COPPER TUBING - DRINKING WATER

For residential water lines



- Temp range: 32° to 180°F
- Bend with a bending tool
- Use with copper solder-connect fittings

NSF 61 certified for drinking (potable) water, this copper Alloy 122 tubing is also called type L. Tubing meets ASTM B88. It has seamless construction, which provides a smooth interior. Coils - Have a soft (annealed) temper.

• Water service • Natural, liquified and petroleum gases • Fire protection • Solar • Fuel/ Fuel oil • HVAC • Snow melting - Air Brake

TYPE L SOFT COPPER TUBING 60' COILS

PART #	TUBE SIZE	OD	WALL	ID	MAX PSI @ 100°F	WEIGHT PER 60' COIL	60' COILS
972171	1/4	3/8"	.03"	.315"	910	7.56	---
972172	3/8	1/2	.035"	.43"	770	11.88	---
972173	1/2	5/8"	.04"	.545"	720	17.10	---

WARNING: This product can expose you to chemicals, including Lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

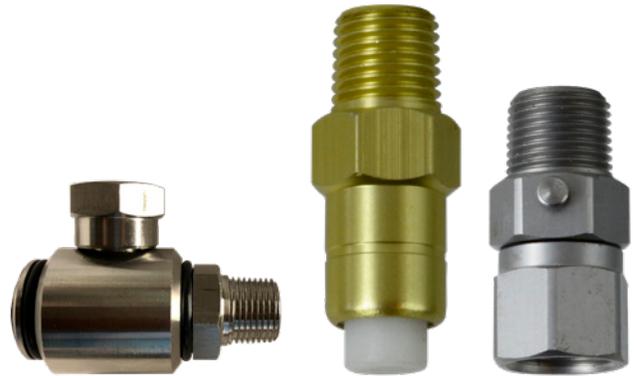
HIGH PRESSURE SPRAYERS



STRAIGHT THROUGH QDS



FITTINGS AND SWIVELS



NOZZLES



SPRAY GUNS AND WANDS



WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE SPRAYER

NOZZLES

HIGH PRESSURE SPRAYER

NOZZLES**QUICK DISCONNECT NOZZLE**

0-degree red tip nozzle, 15-degree yellow tip nozzle, 25-degree green tip nozzle, 40-degree white tip nozzle, and 65-degree black tip detergent nozzle. All nozzles are 4000 PSI and stainless steel, except for detergent nozzle, which is 600 PSI and brass. All Nozzles are rated for temperatures up to 300°F. Nozzles attach with ¼" quick disconnect plug.



PART #	DEGREE OF SPRAY	GPM @ 4000PSI	LIST PRICE
DX250030	0	3.0	---
DX251530	15	3.0	---
DX252530	25	3.0	---
DX254030	40	3.0	---
DX250040	0	4.0	---
DX251540	15	4.0	---
DX252540	25	4.0	---
DX254040	40	4.0	---
DX250050	0	5.0	---
DX251550	15	5.0	---
DX252550	25	5.0	---
DX254050	40	5.0	---
DX250060	0	6.0	---
DX251560	15	6.0	---
DX252560	25	6.0	---
DX254060	40	6.0	---
DX256500	65		---

MEG NOZZLE

Available in 0-degree nozzle, 15-degree nozzle, 25-degree nozzle, or 40-degree nozzle. Nozzle sizes 3.0, 4.0, 5.0, 6.0 or 7.0. All nozzles are 7250 PSI 300°F, stainless steel and ¼" male pipe thread.



PART #	DEGREE OF SPRAY	GPM @ 4000PSI	LIST PRICE
DX140030MG	0	3.0	---
DX141530MG	15	3.0	---
DX142530MG	25	3.0	---
DX144030MG	40	3.0	---
DX140040MG	0	4.0	---
DX141540MG	15	4.0	---
DX142540MG	25	4.0	---
DX144040MG	40	4.0	---
DX140050MG	0	5.0	---
DX141550MG	15	5.0	---
DX142550MG	25	5.0	---
DX144050MG	40	5.0	---
DX140060MG	0	6.0	---
DX141560MG	15	6.0	---
DX142560MG	25	6.0	---
DX144060MG	40	6.0	---
DX141570MG	15	7.0	---
DX142570MG	25	7.0	---
DX144070MG	40	7.0	---

QUICK DISCONNECT NOZZLE 5-PIECE KIT

PART #	GPM @ 4000PSI	LIST PRICE
DX259520	2.0	---
DX259530	3.0	---
DX259540	4.0	---
DX259550	5.0	---
DX259560	6.0	---
DX259570	7.0	---



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SWIVELS

HIGH PRESSURE SPRAYER

SWIVELS

RUBBER-TIP TURBO NOZZLE

Rubber tip, rotating turbo nozzle, 1/4" NPT with steel male quick disconnect plug adaptor, rated for temperatures up to 300°F.



PART #	PSI	GPM @ 4000PSI	LIST PRICE
DX722530	2500	3.0	---
DX722540	2500	4.0	---
DX722550	2500	5.0	---
DX723230	3200	3.0	---
DX723240	3200	4.0	---
DX723250	3200	5.0	---
DX723260	3200	6.0	---
DX724030	4000	3.0	---
DX724040	4000	4.0	---
DX724050	4000	5.0	---
DX724060	4000	6.0	---
DX725030	5000	3.0	---
DX725040	5000	4.0	---
DX725050	5000	5.0	---
DX725060	5000	6.0	---

THERMAL RELIEF VALVE

140F Thermal Relief Valve, Brass, 300 PSI

- Attaches directly to pump



PART #	SIZE	LIST PRICE
DX35TR25	1/4"	---
DX35TR38	3/8"	---

90° BOOM SWIVEL

Male x Female 90° Boom swivel, Stainless Steel, 5000 PSI, 7GPM, 300°F



PART #	SIZE	LIST PRICE
DX60092	3/8"	---

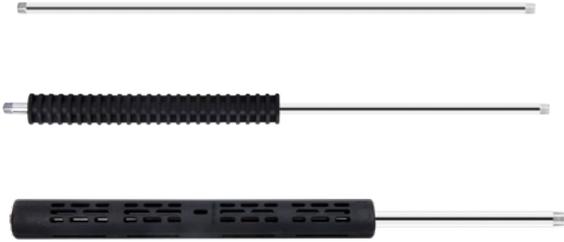


SPRAY GUNS
HIGH PRESSURE SPRAYER

SPRAYERS

CHROMED STEEL WAND

1/4" MNPT x 1/4" Extension Wands, 10.5 GPM, 300F



PART #	SIZE	GRIP	LIST PRICE
DX4324	24"	No Grip	---
DX4336	36"	No Grip	---
DX4424	24"	Molded Grip	---
DX4436	36"	Molded Grip	---
DX4524VG	24"	Vented Grip	---
DX4536VG	36"	Vented Grip	---

SPRAY GUN

Rear entry spray gun, 4000 PSI, 7 GPM, 212F max, inlet 3/8", outlet 1/4"



PART #	PRESSURE	FLOW	TEMPERATURE	LIST PRICE
DX5090	4000	7	212	---
DX5022	4000	6.6	300	---
DX5005	5075	10.5	300	---

WEEPING SPRAY GUN

Rear entry spray gun, weeping, 5000 PSI, 10.5 GPM, 300F, , inlet 3/8", outlet 1/4"

Weep style spray guns allow for a continuous flow of water by way of a small hole in the bottom of the gun that produces a slight leak, or a weeping effect. This helps prevent lines freezing in cold weather or scalding water temperatures in hot weather that could damage the pumps.



PART #	LIST PRICE
DX5006	---

SPRAY GUN WITH EXTENSION*

Rear entry spray gun with 12" extension, 4000psi, 7gpm, 300F max, inlet 3/8", outlet M22



PART #	LIST PRICE
DX5190	---

SPRAY GUN WITH EXTENSION*

Rrear entry spray gun with 12" extension, 5075psi, 10.5gpm, 300F max, inlet 3/8", outlet M22



PART #	LIST PRICE
DX5197	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

*Requires a 86-005 for MEG Nozzle and a 86-005 & 86-030 for QD Nozzle

COUPLERS/ PLUGS

HIGH PRESSURE SPRAYER

QUICK DISCONNECTS

- Brass couplers have brass bodies and brass valves, 8 steel locking balls, Buna-N seal, and stainless steel springs
- Stainless steel couplers have stainless steel bodies, 8 stainless steel locking balls, Buna-N seal, and stainless steel springs
- Plugs are steel with green blue zinc plating or stainless steel
- Straight through design means there is no positive shut-off after disconnect
- Fully interchangeable with Parker, Hansen, Foster and Adams
- Use with liquids, hydraulic service, compressed air, gases, water and vacuum
- Ideal for applications such as high pressure water, steam washers, and carpet cleaners
- Max. Temp. 212°F for Couplers/ 300°F for Plugs • Max Flow: 10.5 GPM

STRAIGHT THROUGH STYLE

MALE BRASS COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86030	1/4	1/4	4000	---
86031	3/8	3/8	4000	---
86032	1/2	1/2	4000	---

FEMALE BRASS COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86035	1/4	1/4	4000	---
86036	3/8	3/8	4000	---
86037	1/2	1/2	4000	---

MALE STAINLESS STEEL COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86030SS	1/4	1/4	6000	---
86031SS	3/8	3/8	6000	---

FEMALE STAINLESS STEEL COUPLERS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86035SS	1/4	1/4	6000	---
86036SS	3/8	3/8	6000	---

MALE STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86040	1/4	1/4	4000	---
86041	3/8	3/8	4000	---
86042	1/2	1/2	4000	---

FEMALE STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86045	1/4	1/4	4000	---
86046	3/8	3/8	4000	---
86047	1/2	1/2	4000	---

MALE STAINLESS STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86040SS	1/4	1/4	6000	---
86041SS	3/8	3/8	6000	---

FEMALE STAINLESS STEEL PLUGS



PART #	BODY SIZE	THREAD SIZE	PSI	LIST PRICE
86045SS	1/4	1/4	6000	---
86046SS	3/8	3/8	6000	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

HIGH PRESSURE SPRAYER

COUPLERS/ KNOBS

HIGH PRESSURE SPRAYER

MOLDED GRIP MALE BRASS COUPLER



PART #	THREAD SIZE	THREAD SIZE	PSI	LIST PRICE
86030RG	1/4	1/4	4000	---

MOLDED GRIP FEMALE BRASS COUPLER



PART #	THREAD SIZE	PLUG	PSI	LIST PRICE
86035RG	1/4	1/4	4000	---
86036RG	3/8	3/8	4000	---

M22 SCREW TYPE X MNPT



PART #	THREAD SIZE	MALE	PSI	LIST PRICE
86001	M22	1/4	4000	---
86002	M22	3/8	4000	---

M22 SCREW TYPE X FNPT



PART #	THREAD SIZE	FEMALE SIZE	PSI	LIST PRICE
86005	M22	1/4	4000	---
86006	M22	3/8	4000	---

INSULATED KNOB

M22 INSULATED KNOB X MNPT



PART #	THREAD SIZE	MALE SIZE	PSI	LIST PRICE
86012	M22	1/4	4000	---
86013	M22	3/8	4000	---

M22 INSULATED KNOB X FNPT



PART #	THREAD SIZE	FEMALE SIZE	PSI	LIST PRICE
86017	M22	1/4	4000	---
86018	M22	3/8	4000	---

M22 X M22 FNPT



PART #	THREAD SIZE	THREAD SIZE	PSI	LIST PRICE
86022	M22	M22	4000	---

M22 INSULATED KNOB X QC PLUG



PART #	THREAD SIZE	PLUG	PSI	LIST PRICE
86020	M22	3/8	4000	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PNEUMATICS



1/4" INDUSTRIAL INTERCHANGE 3/8" 1/2" 1/4" ARO 1/4" AUTO 3/8" AUTO 1/4" LINCOLN 1/4" STRAIGHT THRU 3/8" STRAIGHT THRU

QUICK DISCONNECTS



- Universal
- ARO 210
- Lincoln
- Industrial
- Automotive
- ST Series - High Flow

BREATHER VENTS, MUFFLERS



- Mufflers
- Snubbers
- In-line filters
- Breather vents
- Control valves
- Manifolds

PNEUMATIC ACCESSORIES



- Kits NEW
- Tire gauge
- Tank and vent valves
- Blow guns
- Air chucks
- Inflators

GAUGES



- Liquid filled & Dry
- Lower mount & center mount
- Water test
- Syphons

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

INDUSTRIAL
PNEUMATICS

INDUSTRIAL INTERCHANGE

• Couplers are brass or plated steel body with brass or steel valves, 6 steel locking balls, NBR seal and stainless steel springs

6 Steel locking balls (1/2" body size has 8 steel locking balls)

- Plugs are brass or steel with green blue zinc plating
- Industry standard design for compressed air, water, grease, paint, limited vacuum and limited gases
- Manual retract for connecting and disconnecting
- Maximum working pressure is 250 PSI

BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28540	1/4"	1/4"	---
28541	1/4"	3/8"	---

BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28552	1/4"	1/4"	---
28553	1/4"	3/8"	---

STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28540S	1/4"	1/4"	---
28541S	1/4"	3/8"	---
98810	3/8"	1/4"	---
98811	3/8"	3/8"	---
98812	3/8"	1/2"	---
99812	1/2"	1/2"	---
99813	3/4"	3/4"	---

STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28552S	1/4"	1/4"	---
28553S	1/4"	3/8"	---
98823	3/8"	1/4"	---
98824	3/8"	3/8"	---
98825	3/8"	1/2"	---
99825	1/2"	1/2"	---
99826	1/2"	3/4"	---

BRASS HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28562	1/4"	1/4"	---
28564	1/4"	3/8"	---

STEEL HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28562S	1/4"	1/4"	---
28564S	1/4"	3/8"	---
98840	3/8"	1/4"	---
98841	3/8"	3/8"	---
99841	1/2"	3/8"	---
99843	1/2"	1/2"	---

BRASS PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28565	1/4"	1/4"	---
28566	1/4"	3/8"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STEEL PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28565S	1/4"	1/4"	---
28566S	1/4"	3/8"	---
98842	3/8"	3/8"	---

STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28545	1/4"	1/8"	---
28546	1/4"	1/4"	---
28547	1/4"	3/8"	---
98814	3/8"	1/4"	---
98815	3/8"	3/8"	---
99816	1/2"	1/2"	---
99817	1/2"	3/4"	---

STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28533	1/4"	1/8"	---
28534	1/4"	1/4"	---
28535	1/4"	3/8"	---
98801	3/8"	1/4"	---
98802	3/8"	3/8"	---
99803	1/2"	1/2"	---
99804	1/2"	3/4"	---

BRASS MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28546B	1/4"	1/4"	---

BRASS FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28534B	1/4"	1/4"	---

STEEL HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28557	1/4"	1/4"	---
28559	1/4"	3/8"	---
98828	3/8"	3/8"	---
99828	1/2"	3/8"	---
99830	1/2"	1/2"	---

STEEL PUSH-ON HOSE PLUG



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28558	1/4"	1/4"	---
28561	1/4"	3/8"	---
98830	3/8"	3/8"	---

STEEL SWIVEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
320065	1/4"	1/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

UNIVERSAL SERIES COUPLERS

- Automatic Coupler means flow will cut off automatically at time of disconnect
- Brass Couplers have brass body and brass sleeve with brass valve, 6 steel locking balls, NBR seal and 6 stainless steel springs.
- Stainless Steel Couplers have stainless steel body and stainless steel sleeve with stainless steel valve, 6 steel locking balls, FKM seal, and stainless steel springs
- Coupler compatible with ARO 210, Parker Interchange and Industrial Interchange plugs
- Maximum working pressure is 250 PSI

BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28579	1/4"	1/4"	---
28589	1/4"	3/8"	---

BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28560	1/4"	1/4"	---

BRASS HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28690	1/4"	1/4"	---
28691	1/4"	3/8"	---

STAINLESS STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28560SS	1/4"	1/4"	---

STAINLESS STEEL INDUSTRIAL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28546SS	1/4"	1/4"	---

STAINLESS STEEL INDUSTRIAL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28534SS	1/4"	1/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

ARO 210 INTERCHANGE

- Couplers have brass bodies and brass valves, 6 steel locking balls, NBR seal, and stainless steel springs
- Plugs are steel with green blue zinc plating
- Couplers have a full opening tubular valve for maximum flow and a built-in sleeve guard to minimize accidental disconnect
- Maximum working pressure is 250 PSI

MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28593	1/4"	1/4"	---
28594	1/4"	3/8"	---

FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28584	1/4"	1/4"	---
28585	1/4"	3/8"	---

HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28601	1/4"	1/4"	---
28603	1/4"	3/8"	---

MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28586	1/4"	1/8"	---
28587	1/4"	1/4"	---

FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28578	1/4"	1/4"	---

HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28595	1/4"	1/4"	---
28597	1/4"	3/8"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AUTOMOTIVE/ PARKER INTERCHANGE

PNEUMATICS

AUTOMOTIVE/ PARKER INTERCHANGE (Tru-Flate)

- Brass couplers are brass bodies with brass valves, 6 steel locking balls, NBR seal, and stainless steel springs. Steel couplers are steel bodies with steel valves, 6 stainless steel locking balls, NBR seal, and stainless steel springs.
- Plugs are brass or steel with green blue zinc plating
- Unique design has been field proven as a long-lasting, high performance coupling especially when used with pneumatic tools
- Maximum working pressure is 300 PSI

BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28515	1/4"	1/8"	---
28516	1/4"	1/4"	---
28517	1/4"	3/8"	---

BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28507	1/4"	1/4"	---
28508	1/4"	3/8"	---

STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28516S	1/4"	1/4"	---
28514S	3/8"	1/4"	---
28519S	3/8"	3/8"	---

STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28507S	1/4"	1/4"	---
28525S	3/8"	1/4"	---
28526S	3/8"	3/8"	---

BRASS MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28510B	1/4"	1/4"	---

BRASS FEMALE PLUG



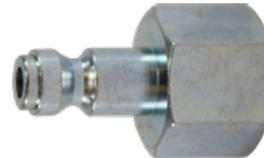
PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28501B	1/4"	1/4"	---

STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28509	1/4"	1/8"	---
28510	1/4"	1/4"	---
28511	1/4"	3/8"	---
28512	3/8"	1/4"	---
28513	3/8"	3/8"	---

STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28500	1/4"	1/8"	---
28501	1/4"	1/4"	---
28502	1/4"	3/8"	---
28503	3/8"	1/4"	---
28504	3/8"	3/8"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AUTOMOTIVE/ PARKER INTERCHANGE

PNEUMATICS

HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28528	1/4"	1/4"	---
28530	1/4"	3/8"	---

HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28518	1/4"	1/4"	---
28520	1/4"	3/8"	---
28524	3/8"	3/8"	---

PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28531	1/4"	1/4"	---
28532	1/4"	3/8"	---

PUSH-ON HOSE PLUG



PART#	BODY SIZE	BARB SIZE	LIST PRICE
28521	1/4"	1/4"	---
28522	1/4"	3/8"	---

LINCOLN INTERCHANGE

- Couplers have brass bodies with steel sleeves, Acetal valves, 6 steel locking balls, Nitrile seal and stainless steel springs
- Plugs are steel with green blue zinc plating
- Manual style
- Unique design includes long nose and short ball groove
- Maximum working pressure is 250 PSI

MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28683	1/4"	1/4"	---

STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28685	1/4"	1/8"	---
28686	1/4"	1/4"	---

FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28684	1/4"	1/4"	---

STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	LIST PRICE
28687	1/4"	1/4"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PNEUMATICS

MUFFLERS/ VENTS

PNEUMATICS

BRASS MUFFLERS

Materials:
 Body: Brass
 Element: Sintered Bronze
 Max Operating Pressure: 300PSI
 Temperature: 35° to 300°F
 • Application: Designed to diffuse Air & Muffler noise to acceptable levels within OSHA noise requirements.
 • Used on exhaust ports, valves, cylinders and air tools.
 • Construction: Porous sintered bronze 40 micron filter element secured to a brass body



PART #	SIZE	LIST PRICE
300020	10/32"	---
300021	1/8"	---
300022	1/4"	---
300023	3/8"	---
300024	1/2"	---
300026	3/4"	---
300028	1"	---

40 Micron element

STAINLESS MUFFLERS



Materials:
 Body: 303 Grade Stainless Steel
 Element: 316 Grade Stainless Steel
 Max Operating Pressure: 300PSI
 Temperature: 35° to 392°F

PART #	SIZE	LIST PRICE
300032	1/8"	---
300033	1/4"	---
300034	3/8"	---
300035	1/2"	---

BRASS BREATHER VENT

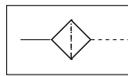


Materials:
 Body: Brass
 Element: Sintered Bronze
 Max Operating Pressure: 150PSI
 Temperature: 35° to 300°F
 • Application: Prevents Dirt and Foreign Particles from Entering Ports Open to Atmosphere. Typically used on Acting Cylinders
 • Additional Use is Vacuum Relief or Pressure Equalization on Storage Vessels or Tanks
 • Construction: Porous Sintered Bronzed 40 Micron Filter Element Secured to a brass body

PART #	SIZE	LIST PRICE
300000	10-32"	---
300001	1/8"	---
300002	1/4"	---
300003	3/8"	---
300004	1/2"	---
300006	3/4"	---
300008	1"	---

40 Micron element

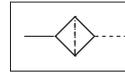
STAINLESS BREATHER VENT



Materials:
 Body: 303 Grade Stainless Steel
 Element: 316 Grade Stainless Steel
 Max Operating Pressure: 150PSI
 Temperature: 35° to 390°F

PART #	SIZE	LIST PRICE
300014	1/8"	---
300015	1/4"	---
300017	3/8"	---
300018	1/2"	---
300019	3/4"	---

PRESSURE SNUBBER

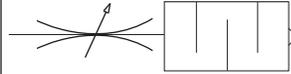


Materials:
 Body: Brass
 Element: Sintered Bronze
 Max Operating Pressure: 9000PSI
 Temperature: 35° to 300°F
 • Applications: Protect pressure instruments from sudden pressure surges and fluctuations providing more accurate gauge readings
 • Construction: Solid brass housing with porous bronze element
 • Can be used for mini in-line filters
 • 5 different porosity elements per package, allows each user to adjust snubbing capacity for the specific application

PART #	SIZE	POROSITY	LIST PRICE
28354	1/4"	40 um	---
28352	1/4"	25 um	---
28350	1/4"	10 um	---

Recommended Element Porosity Rating		
Rating	Color	Recommended Application
40 um	None	Viscous Fluids (over 500 ssu)
30 um	Black	Med. Type Oils (225 to 500 ssu)
25 um	Brown	Water & Lt. Oils (30 to 25 ssu)
20 um	Green	Low Viscosity Fluids (under 30 ssu)
10 um	Red	Air and Other Gases
5 um	Purple	

SPEED CONTROL VALVE

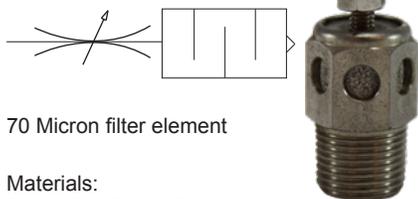


Materials:
 Body: Brass
 Element: 40 Micron Sintered Bronze
 Max Operating Pressure: 300PSI
 Temperature: 35° to 300°F
 • Application: Provide infinite variation of metering air flow at acceptable sound levels on air valve exhaust ports with complete safety
 • The speed of an operating cylinder or air tool may be increased or decreased with the adjusting screw, the final position is locked in place by a lock nut
 • Objectionable exhaust air noise is eliminated by the surrounding sleeve - 40 um sintered bronze
 • Brass Body
 • Max operating pressure: 300PSI
 • Operating temperature: 35° F to 300° F

PART #	SIZE	LIST PRICE
940800	1/8"	---
940801	1/4"	---
940803	3/8"	---
940804	1/2"	---
940805	3/4"	---
940806	1"	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

STAINLESS SPEED CONTROL VALVE

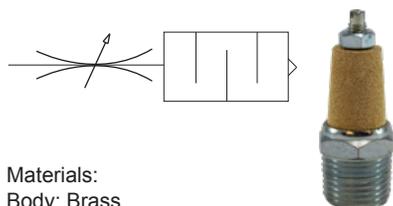


70 Micron filter element

Materials:
Body: 303 Grade Stainless Steel
Element: 316 Grade Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 392°F

PART #	SIZE	LIST PRICE
940810	1/8"	---
940811	1/4"	---
940812	3/8"	---
940813	1/2"	---

MUFFLER W/ FLOW ADJUSTMENT

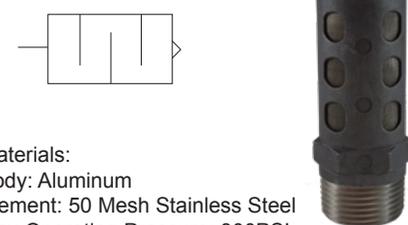


Materials:
Body: Brass
Element: Sintered Bronze
Max Operating Pressure: 300PSI
Temperature: 35° to 300°F

PART #	SIZE	LIST PRICE
28380	1/4"	---
28381	3/8"	---
28382	1/2"	---

HIGH FLOW ALUMINUM MUFFLER

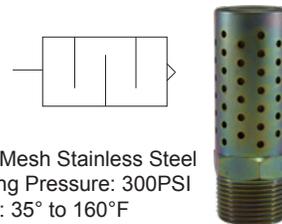
• hole pattern



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	LIST PRICE
940823	1/4"	---
940824	3/8"	---
940825	1/2"	---
940826	3/4"	---
940827	1"	---

HIGH FLOW STEEL MUFFLER



Materials:
Body: Steel
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

PART #	SIZE	LIST PRICE
28373	1/8"	---
28374	1/4"	---
28375	3/8"	---
28376	1/2"	---
28377	3/4"	---
28378	1"	---

ALUMINUM HIGH FLOW MUFFLER



Materials:
Body: Aluminum
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 300PSI
Temperature: 35° to 160°F

- Slit pattern
- Application: Used exhaust ports of Pneumatic valves or manifolds to reduce work area noise
- Construction: Aluminum body, 50 mesh self cleaning stainless steel screen corrosion resistant aluminum shell
- High flow & minimal back pressure

PART #	SIZE	LIST PRICE
28367	1/8"	---
28368	1/4"	---
28369	3/8"	---
28370	1/2"	---
28371	3/4"	---
28372	1"	---

PLASTIC HIGH FLOW MUFFLER



Materials:
Body: Black Nylon
Element: 50 Mesh Stainless Steel
Max Operating Pressure: 150PSI
Temperature: 35° to 120°F

PART #	SIZE	LIST PRICE
28364	1/4"	---
28365	3/8"	---
28366	1/2"	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

MANIFOLDS AND AIR REGULATORS

PNEUMATICS

MANIFOLDS



3 IN 1 ALUMINUM AIR MANIFOLD

No need to connect and disconnect every time you want to change tools. Supply 3 air tools from one outlet. These manifolds have one inlet with three 1/4 outlets.

PART #	SIZE	LIST PRICE
320120	1/4" Inlet	---
320121	3/8" Inlet	---
320122	1/2" Inlet	---
three 1/4" Outlets		

AIR REGULATOR



- Rated for Inlet Pressure up to 140PSI(10bar).
- Ambient and Fluid Temperature:5~60°C(41~140°F)
- Port Threads:NPT
- Flow Capacity:See Below,at 0.7Mpa Inlet Pressure and set at 0.5Mpa.
- Assembly Bracket is included.

PART #	SIZE	GAUGE PORT	REGULATING RANGE	LIST PRICE
AR2	1/4"	1/8	0.05~0.85Mpa(0.5~8.5kgf/cm2)(7.25psi~123psi)	---

SAFETY VALVES

ASME CODED

- Valves are manufactured to ASME standards and certified by the national board of boiler and pressure vessel inspectors.
- Bubble tight to 10% of set pop-off pressure.
- ASME safety valves are interchangeable with all other ASME valves of same size and pressure.
- Brass construction. Marked ASME, NB
- 1/ Blister card.



PART #	MALE NPT	POP-OFF PRESSURE	AIR FLOW	LIST PRICE
87002	1/4"	125 PSI	120 CFM	---
87003	1/4"	150 PSI	140 CFM	---
87004	1/4"	200 PSI	170 CFM	---

Note: Valve resets after pressure drops 50%

COMPRESSOR TANK CHECK VALVES

- Used in compressor tanks to prevent air volume and pressure from escaping back into compressor heads while the compressor is not operating.
- Brass body with Teflon poppet.
- 1/8" Female NPT side port for pressure switch application.
- Maximum working pressure: 450 PSI
- Maximum temperature: 400°F



PART #	TANK BUNG HOLE SIZE	COMPRESSOR AIR LINE SIZE	SCFM	LIST PRICE
87020	1/2" NPT Male	3/8" Tube Compression male	20	---



87023	1/2" NPT Male	1/2" NPT Female	20	---
-------	---------------	-----------------	----	-----

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TANK VALVES

BRASS BICYCLE PUMP FITTING

Screw on swivel chuck for most hand operated tire pumps.

Buna-N-Seal • Deflator



INT x 3/16 Barb

PART #	SIZE	LIST PRICE
32782	3/16"	---

INFLATOR



INT x 3/16

PART #	SIZE	LIST PRICE
32783	3/16"	---

PNEUMATIC SLIDE VALVE

- Max Operating Pressure: 200 psig
- Temperatures: -20°F to +200°F

Manually operated slide valves provide simple on/off airflow control. They can be mounted horizontally, vertically or at any angle.

Open Position



MALE X FEMALE

PART #	SIZE	L	HEX	LIST PRICE
20780	1/8"	2.15	9/16"	---

INT = Inflation needle thread .305 in. OD x 32 threads per inch

TANK & VENT VALVES

Three standard styles of valve bodies, complete with short core, for air lifts, water pumps, vacuum, pressurized containers, air jacks, and other pneumatic devices.

REGULAR: 300 PSI and cracking pressure 80 PSI

1/8" NPT - .9" LONG SPRING CORE

7/16" Hex

1/8 x INT



PART #	SIZE	LIST PRICE
46620	1/8	---

1/8" NPT 1.207" LONG SPRING CORE

7/16" Hex

1/8 x INT



PART #	SIZE	LIST PRICE
46621	1/8	---

1/4" NPT 1.46" LONG SPRING CORE

9/16" Hex

w/ Black cap

1/4 x INT



PART #	SIZE	LIST PRICE
46622	1/4	---

TANK VALVE ACCESSORIES

BLACK PLASTIC CAP

No gasket



Inflation
needle threads

PART #	LIST PRICE
46630	---

SHORT NICKEL PLATED DOME CAP

Dome skirted type



Inflation
needle thread

PART #	LIST PRICE
46631	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

BLOW GUNS/ NOZZLES

PNEUMATICS

COMPACT BLOW GUN W/RUBBER TIP

- Includes One Rubber Tip and One Safety Tip
- Zinc Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA requirement
- Maximum 87 dba
- 1/8" Outlet



PART #	SIZE	LIST PRICE
320053	1/4"	---

SAFETY BLOW GUN

- Heavy-Duty Design
- Internal Safety Valve that Limits Air Pressure to Less than 30 psi When dead-ended per OSHA
- Aluminium Alloy Body
- 1/4" FPT Inlet
- Maximum 150 psi (Recommended Working Pressure 90-120 psi)
- Safety Tip Limits Air Pressure to 30 psi When Dead-Ended per OSHA Requirement
- Maximum 87 dba
- 1/8" Outlet



PART #	SIZE	LIST PRICE
320054	1/4"	---

SAFETY BLOW GUN

- N/P steel handle with plastic sleeve
- Brass Valve
- Zinc body
- Aluminum nozzle



1/8" Outlet

PART #	SIZE	LIST PRICE
320050	1/4" Inlet	---

5114 51-124 401 20430AD S148 D204-30 6475

PISTOL GRIP BLOW GUN

- Lightweight, Ergonomic Design
- Delrin® Body
- Trigger Air Flow Control
- 1/4" FPT Inlet
- 3" Nozzle Ideal for Tight Spaces
- Recommended Working Pressure 90-120 psi
- Maximum 87 DbA



PART #	SIZE	LIST PRICE
320036	1/4"	---

PISTOL GRIP BLO-GUN

Material

- Body: POM (engineering plastic)
- Nozzle: nickel plated carbon steel
- Blue Handle Color

Features

- Simple construction, economic
- Global thread connection
- Durable and versatile applications
- 4 inch nozzle



150 PSI

PART #	SIZE	LIST PRICE
320035	1/4"	---

RUBBER TIPPED NOZZLE



MAKES POSITIVE SEAL BETWEEN GUN AND FUEL LINE OR OTHER OPENINGS. USE ONLY ON AIR LINE REGULATED TO 30 PSI OR LESS

PART #	THREAD SIZE	LIST PRICE
320070	1/8 - 27	---

51-521 2058 D201RT 411R

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

TIRE GAUGES

PNEUMATICS

TIRE GAUGES

M - TIRE GAUGE

320-021



HEAVY DUTY DUAL FOOT TIRE GAUGE

320-022



DUAL ANGLE FOOT TRUCK PENCIL GAUGE

320-023



PART #	PRESSURE RANGE	INCREMENT	HEAD	BODY	BAR(Psi/KPA)	LIST PRICE
320021	20-120psi	2 psi	Metal	Metal	4 sided plastic	---
320022	10-120psi	2 psi	Plastic	Metal	4 sided plastic	---
320023	20-120psi	2 psi	Metal	Metal	4 sided plastic	---

INFLATION NEEDLE



• See thread note below

PART #	LIST PRICE
320095	---

1 PIECE BLOW GUN TAPERED NOZZLE



PART #	SIZE	LIST PRICE
320076	NT	---

VOLUME REGULATOR



PART #	FIP X MIP	LIST PRICE
46615	1/4	---

What size thread is an inflation needle (INT)?
Metric: 7.7mm OD, thread root diameter is 6.9mm x 0.794 pitch
English: 0.305 OD, threadroot diameter 0.302 in x 32 tpi (threads per inch)

1 PIECE EXTENSION



PART #	SIZE	LIST PRICE
320080	NT	---

1 PIECE BLOW GUN ADAPTER



PART #	SIZE	LIST PRICE
320078	Female NT x 1/8 MPT	---

NYLON COIL AIR HOSE

- 200 psi working pressure
- 4:1 Safety factor (burst vs working pressure)
- Spring end sleeves to prevent kinking
- 1/4 MPT Brass fittings on both ends
- Temperature range 32°F to 120°F
- Packaged for retail sale



PART #	DESCRIPTION	SIZE	LIST PRICE
307030	25'	1/4" NPT	---
307031	50'	1/4" NPT	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

PNEUMATICS

CHUCKS
PNEUMATICS

FOOT CHUCKS

HEX BALL FOOT CHUCK



PART #		LIST PRICE
46600	1/4 FPT Live Air	---

BALL FOOT CHUCK W/ 1/4 ID HOSE BARB



PART #		LIST PRICE
46607	1/4 ID Live Air	---

DUAL HEAD STRAIGHT AIR CHUCK



DUAL HEAD AIR CHUCK 1/4"FNPT,THE LENGTH IS 6.08",THE HEAD IS ZINC-ALLOY,AND THE NUT IS BRASS WITH CHROME PLATED.

PART #		LIST PRICE
320000	1/4	---

DUAL HEAD ANGLE FOOT AIR CHUCK



DUAL HEAD STRAIGHT FOOT AIR CHUCK 1/4"FNPT FOR INNER DUALS;BOTH ENDS LOCK ON VALVE CORE THREADS,THE LENGTH IS 6.66",THE HEAD IS ZINC-ALLOY,AND THE NUT IS BRASS WITH CHROME PLATED.

PART #		LIST PRICE
320005	1/4	---

INFLATORS WITH GAUGE

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- SOLID BRASS GAUGE BAR
- BUILT-IN AIR RELIEF VALVE
- 6"DUAL-FOOT AIR CHUCK



320-010

INFLATOR/ GAUGE

- RUGGED ZINC CAST BODY WITH BRASS INTERNALS FOR LONG LIFE
- EASY TO VIEW BUILT-IN SIGHT GAUGE
- FULL SWIVEL HOSE FITTINGS
- PROTECTIVE RUBBER BUMPER
- BUILT-IN AIR RELIEF VALVE
- 6"DUAL-FOOT AIR CHUCK



320-011

PART #	PRESSURE RANGE	INCREMENT	INLET	HOSE LENGTH	LIST PRICE
320010	10-120 psi	2 psi	1/4 FPT	12"	---
320011	10-120 psi	2 psi	1/4 FPT	12"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

AIR ACCESSORY SET

PNEUMATICS

16PCS-AIR ACCESSORY SET PART# 87-400



LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"FNPT industrial coupler	28540
2pcs-1/4"FNPT industrial plugs	28534
2pcs-1/4"MNPT industrial plugs	28546
1pc-1/4" male connector	28212
1pc-1/4" double female connector	28059
1pc-ball foot chuck	46600
1pc-blow gun	320050
1pc-dial tire gauge	320410
1pc-tapered rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
2pcs-inflation needles	320095
1pc-25ft. nylon recoil hose	307030

10PCS-AIR ACCESSORY SET PART# 87-402



LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4"female connector	28059
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-ball foot chuck	46605
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095

7PCS-AIR ACCESSORY SET PART# 87-404



LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-extension	320080
1pc-blow gun	320050
2pcs-inflation needles	320095

11PCS-AIR ACCESSORY SET PART# 87-406



LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun rubber tip	320070
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun standard nozzle	320077
1pc-blow gun adapter	320078
1pc-hose&chuck assembly	320414
1pc-blow gun	320050
1pc-inflation needle	320095
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" FNPT industrial plug	28534
1pc-1/4"MNPT industrial plug	28546

AIR ACCESSORY SET

PNEUMATICS

17PCS-AIR ACCESSORY SET

PART# 87-408



LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-1/4" double female connector	50004
2pcs-1/4" double male connectors	54044
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun	320050
1pc-1/4" FNPT industrial coupler	28540S
2pcs-1/4" FNPT industrial plug	28534
4pcs-1/4" MNPT industrial plug	28546
2pcs-inflation needles	320095

12PCS-AIR ACCESSORY SET

PART# 87-410



LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-blow gun rubber nozzle	320070
1pc-ball foot tire chuck	46600
1pc-blow gun	320050
1pc-1/4"FNPT industrial coupler	28540
1pc-1/4" MNPT industrial coupler	28552
2pcs-1/4"FNPT industrial plug	28534B
2pcs-1/4"MNPT industrial plug	28546B
1pc-inflation needle	320095

20PCS-AIR ACCESSORY SET

PART# 87-412



LIST PRICE: ---

CONTENTS OF BLISTER CARD PACKAGE

COMPONENTS AND PART#'S	
1pc-dual-foot tire chuck	320005
1pc-tire gauge	320021
1pc-blow gun rubber nozzle	320070
1pc-blow gun adapter	320078
1pc-1/4" double male connector	54044
1pc-1/4" double female connector	50004
1pc-blow gun safety nozzle	320075
1pc-blow gun tapered nozzle	320076
1pc-thread seal tape	982107
1pc-blow gun	320050
2pcs-1/4"FNPT industrial coupler	28540S
2pcs-1/4"FNPT industrial plug	28534
3pcs-1/4"MNPT industrial plug	28546
2pcs-inflation needles	320095
1pc-1/4"x 25Ft coil Nylon hose	307030

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QUICK DISCONNECT KITS

PNEUMATICS

1/4" X 1/4" NPT INDUSTRIAL 7PCS

PART# 87-414

CONTENTS OF BLISTER CARD PACKAGE



LIST PRICE: ---

COMPONENTS AND PART#'S	
2pc-1/4"x1/4" FNPT T I/M coupler	28540S
2pcs-1/4"x1/4" FNPT I/M plugs	28534
2pcs-1/4"x1/4"MNPT I/M plugs	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-416

CONTENTS OF BLISTER CARD PACKAGE



LIST PRICE: ---

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
4pc-1/4"X1/4" MNPT I/M plug	28546

1/4" X 1/4" NPT INDUSTRIAL 5PCS

PART# 87-418

CONTENTS OF BLISTER CARD PACKAGE



LIST PRICE: ---

COMPONENTS AND PART#'S	
1pc-1/4"x1/4"FNPT I/M coupler	28540S
1pc-1/4"x1/4"FNPT I/M plug	28534
1pc-1/4"X1/4" MNPT I/M plug	28546
1pc-double 1/4" MNPT fitting	54044

1/4" X 1/4" NPT INDUSTRIAL 3PCS

PART# 87-420

CONTENTS OF BLISTER CARD PACKAGE



LIST PRICE: ---

COMPONENTS AND PART#'S	
1pc-1/4"x1/4" FNPT I/M coupler	28540S
1pc-1/4"x1/4" FNPT I/M plug	28534
1pc-1/4"x1/4" MNPT I/M plug	28546

3/8" X 1/4" NPT AUTOMOTIVE 5PCS KIT

PART# 87-422

CONTENTS OF BLISTER CARD PACKAGE



LIST PRICE: ---

COMPONENTS AND PART#'S	
1pc-3/8"x1/4" FNPT Automotive coupler	28525S
2pcs-3/8"x1/4"MNPT Automotive plugs	28512
1pc-double 1/4"MNPT fitting	28212
1pc-double 1/4"FNPT fitting	28059

GAUGES

STANDARD DRY GAUGES

STEEL CASE

All the gauges supplied by us are designed for long, reliable service under rugged conditions. Typical applications include compressors, filter regulators, water pumps, beverage dispensing equipment, hydraulic and pneumatic systems, and other applications, where the media does not corrode brass. ALL CONNECTIONS ARE BRASS.



1-1/2" FACE
1/8" NPT LOWER MOUNT

PART #	PSI	LIST PRICE
80501	0-15	---
80502	0-30	---
80503	0-60	---
80504	0-100	---
80505	0-160	---
80506	0-200	---

LOWER MOUNT

- Plastic lens (window)



2" FACE
1/4" LOWER MOUNT

PART #	PSI	LIST PRICE
80001	0-15	---
80002	0-30	---
80003	0-60	---
80004	0-100	---
80005	0-160	---
80006	0-200	---
80007	0-300	---



2-1/2" FACE
1/4" LOWER MOUNT

PART #	PSI	LIST PRICE
80031	0-15	---
80032	0-30	---
80033	0-60	---
80034	0-100	---
80035	0-160	---
80036	0-200	---



1-1/2" FACE
1/8" NPT CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80511	0-15	---
80512	0-30	---
80513	0-60	---
80514	0-100	---
80515	0-160	---
80516	0-200	---

CENTER BACK MOUNT



2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80301	0-15	---
80302	0-30	---
80303	0-60	---
80304	0-100	---
80305	0-160	---
80306	0-200	---
80307	0-300	---



2-1/2" FACE
1/4" CENTER BACK MOUNT

PART #	PSI	LIST PRICE
80331	0-15	---
80332	0-30	---
80333	0-60	---
80334	0-100	---
80335	0-160	---
80336	0-200	---

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LIQUID FILLED GAUGES

STAINLESS CASE

Liquid filled gauges enhance the reliability and integrity of the measuring system for long periods. The glycerine filling helps dampen the effects of vibration and pulsation. It also lubricates the movement which extends the life of the gauge.

CONNECTIONS ARE BRASS.



**1-1/2" FACE
1/8" LOWER MOUNT**

PART #	PSI	LIST PRICE
80601	0-15	---
80602	0-30	---
80603	0-60	---
80604	0-100	---
80605	0-160	---
80606	0-200	---



**2-1/2" FACE
1/4" LOWER MOUNT**

PART #	PSI	LIST PRICE
80061	0-15	---
80062	0-30	---
80063	0-60	---
80064	0-100	---
80065	0-160	---
80066	0-200	---
80067	0-300	---
80068	0-400	---
80069	0-600	---
80100	0-1000	---
80101	0-1500	---
80102	0-2000	---
80103	0-3000	---
80104	0-5000	---
80105	0-10000	---
80080	30-0 Vacuum	---
80081	-30 to +30	---



**4" FACE
1/4" LOWER MOUNT**

PART #	PSI	LIST PRICE
80463	0-100	---

- Liquid Filled Gauges with a stainless case are used for protection in harsh environments.
- Stainless Steel Case
- Copper Alloy Wetted parts
- Polycarbonate window
- ± 1.5% of span accuracy
- Temp. Range -104°F to 158°F

CENTER BACK MOUNT



**1-1/2" FACE
1/8" CENTER BACK MOUNT**

PART #	PSI	LIST PRICE
80611	0-15	---
80612	0-30	---
80613	0-60	---
80614	0-100	---
80615	0-160	---
80616	0-200	---



**2-1/2" FACE
1/4" CENTER BACK MOUNT**

PART #	PSI	LIST PRICE
80201	0-15	---
80202	0-30	---
80204	0-60	---
80203	0-160	---
80205	0-100	---
80206	0-200	---
80207	0-300	---
80208	0-400	---
80209	0-600	---

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TAPES/ SEALANT

PNEUMATICS

PTFE THREAD SEAL TAPE

- Density 0.4
 - Thickness 3.5 MIL
 - Meets MIL specs
- T-27730A



PART #	SIZE	CASE QTY	LIST PRICE
982107	1/2" x 260"	500	---
982108	1/2" x 520"	500	---
982109	3/4" x 260"	350	---
982110	3/4" x 520"	350	---

POP OUT COVERED SPOOL

GREY STAINLESS STEEL

- Density 1.2
 - Thickness 4MIL
 - Meets MIL specs
- T-27730A & CID A-A 58092



PART #	SIZE	CASE QTY	LIST PRICE
982135	1/2" x 260"	250	---
982136	1/2" x 520"	150	---
982137	3/4" x 260"	150	---
982138	3/4" x 520"	150	---

GREEN OXYGEN TAPE

- Density 1.2
 - Thickness 3.5MIL
 - Meets MIL specs
- T-27730A & CID A-A 58092



PART #	SIZE	CASE QTY	LIST PRICE
982130	1/2" x 260"	250	---
982131	1/2" x 520"	150	---
982132	3/4" x 520"	150	---

PTFE BLUE SEAL TAPE

- Professional grade top -450 to +450°F
 - Super long roll
 - Twice the density of standard tape for less passes, lasts longer
 - Density 0.8
 - Thickness 3.5 MIL
 - Meets MIL Spec
- T-27730A



PART #	SIZE	CASE QTY	LIST PRICE
982120	1/2" x 1368"	250	---
982121	3/4" x 1368"	150	---
982122	1" x 1296"	150	---

YELLOW GAS LINE TAPE

- Density 0.9
 - Thickness 4MIL
 - Meets MIL specs
- T-27730A



PART #	SIZE	CASE QTY	LIST PRICE
982125	1/2" x 260"	250	---
982126	1/2" x 520"	150	---
982127	3/4" x 520"	150	---

PVC ELECTRICAL TAPE

- Rated to 176 degrees fahrenheit
Suitable for use up to 600V
UL Listed
Individually wrapped in cellophane



PART #	SIZE	LIST PRICE
982140	3/4" X 60' Black	---

THREAD SEALANT

GASOILA SOFT-SET THREAD WITH PTFE



PART#	SIZE	UNITS PER CASE	LIST
983100	1/4 pt. Brush	24	---
983101	1/2 pt. Brush	24	---
983102	1 pt. Brush	12	---

PLS 2 PREMIUM THREAD AND GASKET SEALER



PART#	SIZE	UNITS PER CASE	LIST PRICE
983110	1/4 pt. Brush	12	---

GASOILA NT NON-PTFE THREAD SEALANT



PART#	SIZE	UNITS PER CASE	LIST PRICE
983120	1/2 pt. Brush	12	---

JC-30 GASOILA HIGH-FILL



PART#	SIZE	UNITS PER CASE	LIST PRICE
983115	1/4 pt. Brush	12	---
983116	1 pt. Brush	6	---

FREE ALL DEEP PENETRATING OIL



PART#	SIZE	UNITS PER CASE	LIST
983125	6 oz. Aerosol	12	---
983126	11 oz. Aerosol	12	---

LUBE-IT ALL DEEP LUBRICATING OIL



PART#	SIZE	UNITS PER CASE	LIST
983130	6 oz. Aerosol	12	---

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HYDRAULIC ADAPTERS

HYDRAULIC ADAPTERS

HYDRAULIC ADAPTERS & ACCESSORIES



STEEL ADAPTERS

HYDRAULIC QUICK
DISCONNECTS

HYDRAULIC VALVES &
ACCESSORIES

Technical information

Profile size chart

Steel Pipe Swivels
37° JIC Flare Straights
37° JIC Flare Shapes
Bulkhead Adapters
Steel Pipe Fittings
O-Ring Adapters Straight
JIC Swivels
O-Ring Adapters
O-Ring Face Seal
BSPT/ BSPP Adapters
Metric Adapters
Flange Adapters
Stainless Steel Adapters
SS Hose Fittings

Thread to Connect - Wing
ISO A Interchange
ISO B Interchange
Flush Face ISO
VEP Series
AG Interchange
Hydraulic Jack Q/D

Flow Control Valve
Variable Flow Control
Air Breathers

PLATING SPECIFICATION

We standard Trivalent, Cr⁺³ plating performs at nearly double the S.A.E. corrosion resistance requirement. The plating meets ASTM B633, Fe/Zn 5. The thickness is 5um-13um. This plating is silver in appearance and has been testing at 96 hours to white rust and 120 hours to red rust.

TECHNICAL INFORMATIONHYDRAULIC ADAPTERS

TECHNICAL INFORMATION**WORKING PRESSURE**

The tables on the following pages list the recommended working pressure for a variety of hydraulic fittings made in accordance with certain industry standards. Many factors such as impulse, vibration, mechanical shock, and improper assembly may affect the integrity of the fitting connection.

We recommends sufficient testing be conducted to ensure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. Working pressure ratings are capable of a 4 to 1 minimum burst. All steel fittings meet or exceed the minimum SAE pressure ratings. Always consider application and maximum pressure requirements when selecting fittings.

METHODS FOR INSTALLING FITTINGS

There are three methods for installing a fitting:

- Torque wrench
- Flats From Wrench Resistance
- Turns From Finger Tight

For Flare and NPSM Fittings, we recommend the flats from wrench resistance method be used whenever possible.

The differences in material, plating, and surface finish impacts the coefficient of friction when installing or connecting fittings. To minimize these variances, We recommend that fitting connections are lubricated when installed. Connections that are lubricated provide a more accurate installation torque, which results in fewer leaks.

USING A TORQUE WRENCH

The torque values given in the tables on the following pages are for reference purposes only based on industry standard practice and for low carbon steel mating with steel/iron components. Actual torque values may need to be adjusted due to variances described above.

SAE recommends always making a wet (lubricated) installation or connection to reduce friction on moving parts, O-rings, and variances in material and plating. The torque values in these tables are based off SAE values using a .17 coefficient of friction as per SAE J2593. Many hydraulic leaks are a result of over-torque, which causes excessive deformation of material or exceeds the yield strength of the material, which may reduce the load or clamping force between seal contacts.

If more than one value or range is given, use the lower value first and increase only if required. Over-torquing can damage a fitting or mating component.

TECHNICAL INFORMATION

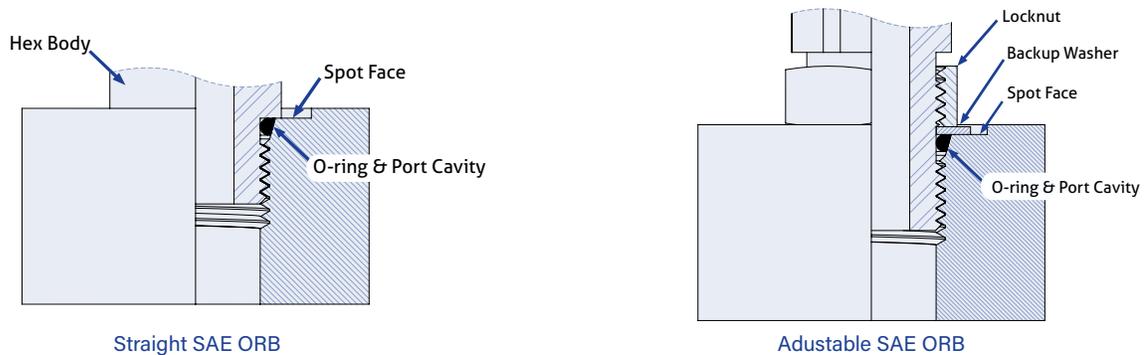
HYDRAULIC ADAPTERS

SAE O-Ring Boss Port Specifications

O-ring Boss ports (ORB) provide a seal by trapping the fitting's O-ring inside a port cavity. When a fitting is installed into the port, the O-ring is trapped between the fitting body hex or washer and port cavity.

Straight fittings include a hex, and sometimes an additional cylindrical shoulder below the hex and above the threads, to trap the O-ring in the port cavity.

Elbow and Tee fittings require a backup washer and a locknut above the O-ring on the threaded stud to permit a 360° orientation of the fitting around the port.



The following table lists the specifications for SAE O-Ring Boss Ports.

SAE O-Ring Boss Specifications								
Dash Size	Tube Size	Thread	SAE-ORB to JIC and Pipe Fittings*			SAE-ORB to ORFS Fittings**		
			Torque	Working Pressure		Torque	Working Pressure	
			Adjustable & Non-Adjustable	Adjustable	Non-Adjustable	Adjustable & Non-Adjustable	Adjustable	Non-Adjustable
			(ft-lbs) +25% -0%	(psi)	(psi)	(ft-lbs) +25% -0%	(psi)	(psi)
02	1/8	5/16-24	6	4500	4500	-	-	-
03	3/16	3/8-24	7	4500	4500	7	5800	9100
04	1/4	7/16-20	13	4500	4500	15	5800	9100
05	5/16	1/2-20	18	4500	4500	18	5800	9100
06	3/8	9/16-18	22	3600	4500	26	5800	9100
08	1/2	3/4-16	37	3600	4500	52	5800	9100
10	5/8	7/8-14	44	2900	3600	74	5800	9100
12	3/4	1-1/16-12	70	2900	3600	125	5800	5800
14	7/8	1-3/16-12	92	2300	2900	158	5800	5800
16	1	1-5/16-12	111	2300	2900	199	4500	5800
20	1 1/4	1-5/8-12	147	1800	2300	210	3600	3600
24	1 1/2	1-7/8-12	155	1800	2300	273	2900	3600
32	2	2-1/2-12	221	1450	1800	-	-	-

* = Light duty studs included on JIC, NPTF and NPSM fittings per SAE J1926/3 & J514
 ** = Heavy duty studs included on ORFS fittings per SAE J1926/2 & J1453

Note: Torque values are for wet torque and are allowed up to 25% the listed value according to SAE J2593.

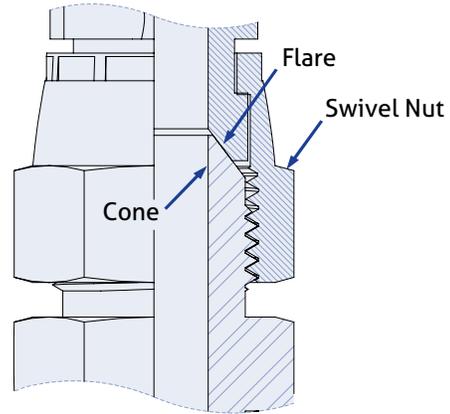
TECHNICAL INFORMATION

HYDRAULIC ADAPTERS

JIC Adapter Specifications

Male flared fittings include a conical nose with external threads for clamping.

A flared fitting or tube assembly is tightened against the cone with a swivel nut. By forcing the flare against the cone during the torquing process, the nose cone is slightly deformed and meshes to create a metal to metal seal between the flare and the cone.



The following table lists the specifications for JIC adapters.

JIC Specifications							
Dash Size	Tube Size	Thread	Working Pressure		Torque		
			Male (psi)	Female Swivel Nut (psi)	JIC Rigid (FFWR)	JIC Swivel (FFWR)	Bulkhead Locknut (ft-lbs) +25% -0%
02	1/8	5/16-24	5000	5000	1/4 - 1/2	2	4
03	3/16	3/8-24	5000	5000	1/4 - 1/2	2	6
04	1/4	7/16-20	5000	4500	1/4 - 1/2	2	10
05	5/16	1/2-20	5000	4000	1/4 - 1/2	2	13
06	3/8	9/16-18	5000	4000	1/4 - 1/2	2	16
08	1/2	3/4-16	4500	4000	1/4 - 1/2	2	27
10	5/8	7/8-14	3500	3000	1/4 - 1/2	1 1/2	32
12	3/4	1-1/16-12	3500	3000	1/4 - 1/2	1 1/2	52
14	7/8	1-3/16-12	3000	2500	1/4 - 1/2	1 1/2	66
16	1	1-5/16-12	3000	2500	1/4 - 1/2	1 1/2	85
20	1 1/4	1-5/8-12	2500	2000	1/4 - 1/2	1	111
24	1 1/2	1-7/8-12	2000	1500	1/4 - 1/2	1	114
32	2	2-1/2-12	1500	1125	1/4 - 1/2	1	162

Values are per SAE J514

TECHNICAL INFORMATION

HYDRAULIC ADAPTERS

Pipe & Pipe Swivel Adapter Specifications

NPSM fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male NPTF fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with NPSM swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

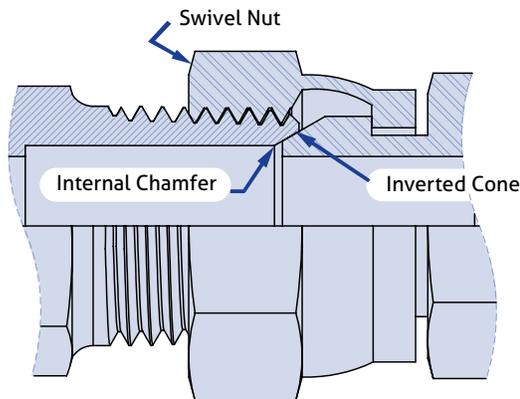


Figure 7 : NPTF & NPSM Union

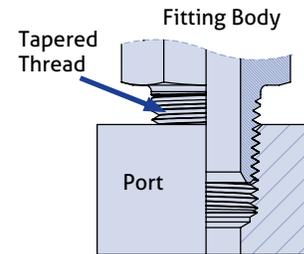


Figure 8: NPT & NPTF Assembly

NPT and NPTF pipe threads seal by wedging the tapered threads through deformation into each other. Both of these threads require thread sealants to complete a seal.

The following table lists the specifications for NPT, NPTF, and NPSM Pipe adapters.

NPT, NPTF, and NPSM Pipe Specifications						
Dash Size	Thread Size	Major OD* (inch)	Working Pressure		Torque	
			NPT, NPTF Male and Female	NPSM Female Swivel Nut	NPT, NPTF	NPSM Swivel Union
			(psi)	(psi)	(TFFT)	(FFWR)
02	1/8-27	.405	5000	5000	2-3	2
04	1/4-18	.540	4000	5000	2-3	2
06	3/8-18	.675	3000	4000	2-3	2
08	1/2-14	.84	3000	3500	2-3	2
12	3/4-14	1.050	2500	2250	2-3	2
16	1-11 1/2	1.315	2000	2000	1 1/2 - 2 1/2	1 1/2
20	1 1/4-11 1/2	1.660	1150	1625	1 1/2 - 2 1/2	1 1/2
24	1 1/2-11 1/2	1.900	1000	1250	1 1/2 - 2 1/2	1 1/2
32	2-11 1/2	2.375	1000	1125	1 1/2 - 2 1/2	1 1/2

Values are per SAE J514 & J2593

Table 3: NPT, NPTF, and NPSM Pipe Specifications

TECHNICAL INFORMATION

HYDRAULIC ADAPTERS

O-ring Face Seal Adapter Specifications

O-ring face seal fittings include a precision groove in the face of the male fitting. Sealing occurs when an O-ring is trapped in the groove by a smooth flat flange that is clamped against the face with a nut or nut and sleeve. The flat flange may be formed or brazed onto the end of a tube, or is machined on a fitting.

There are two SAE groove types:

- Type A: The original style A O-ring has no retaining ledge.
- Type B: The Type B groove has a retaining ledge (half dovetail) that improves O-ring retention. The Type B style is more commonly found and is a design improvement over the Type A.

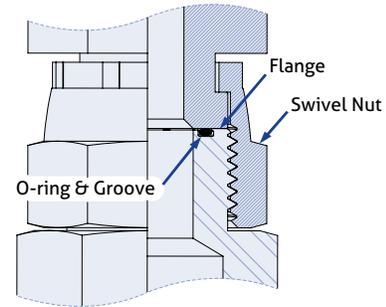


Figure 9: ORFS Fitting Assembly

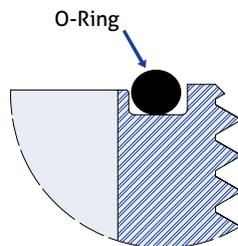


Figure 10: Detail View of Cross Section of Groove Type A

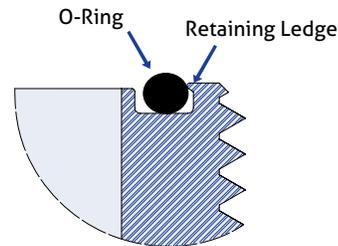


Figure 11: View of Groove Type B

The following table lists the specifications for O-ring Face Seal adapters.

ORFS Specifications								
Dash Size	Tube Size	Thread Size	Working Pressure		Torque			
			Male	Female Swivel Nut	Male & Female	Bulkhead Locknut	Tube Nuts	Swivel Nuts
			(psi)	(psi)	(ft-lbs) +25% -0%	(ft-lbs) +25% -0%	WR	FWR
04	1/4	9/16-18	6000	6000	18	16	1/4-1/2	1/2-3/4
06	3/8	11/16-16	6000	6000	29	22	1/4-1/2	1/2-3/4
08	1/2	13/16-16	6000	6000	41	29	1/4-1/2	1/2-3/4
10	5/8	1-14	6000	6000	44	44	1/4-1/2	1/2-3/4
12	3/4	1-3/16-12	6000	6000	66	66	1/4-1/2	1/3-1/2
16	1	1-7/16-12	6000	5000	92	92	1/4-1/2	1/3-1/2
20	1 1/4	1-11/16-12	4000	4000	125	111	1/4-1/2	1/3-1/2
24	1 1/2	2-12	4000	3000	147	125	1/4-1/2	1/3-1/2

Note: Values are per SAE J2593 & J1453

Torque values are for wet installation of steel components. Reduce torque values for softer material components.

Table 4: ORFS Specifications

TECHNICAL INFORMATION

HYDRAULIC ADAPTERS

BSPT, BSPP and Metric Adapter Specifications

BSPT and Metric tapered threads install and work in the same manner as NPT and NPTF.

Male BSPP fittings include an inverted 60° cone inside an internally threaded swivel union nut. Male BSPP fittings that have a 30° internal chamfer that make a 60° inverted cone, will mate with Female BSPP swivel unions.

NOTE: THE MATING MALE THREADS MUST INCLUDE AN INSIDE CHAMFER ON THE END OF THE FITTING THAT MATES WITH THE INVERTED CONE. THREADS ARE FOR CLAMPING FORCE ONLY AND THE SEALING OCCURS ON A SMALL RADIAL SECTION BETWEEN THE MALE FITTING INTERNAL CHAMFER AND THE SWIVEL UNION INVERTED CONE.

DIN swivel unions have a 24° inverted cone and may be installed into DIN bite-ring compression fittings. To provide enhanced performance, an O-ring is sometimes included in the cone of some DIN swivel unions.

British Standard Pipe Parallel (BSPP) and Metric Parallel threaded ports do not include a port cavity like the O-ring Boss or ISO 6149 port. Instead, an O-ring sits on top of the spot face or external surface and is surrounded by a metal retaining ring or other retaining component to trap the O-ring between the fitting hex, body, and spot face.

Elbow and Tee fittings have a locknut, backup washer, O-ring and retaining washer to permit 360° orientation around the axis of the port.

The following table lists the specifications for **BSPP & BSPT Adapters**

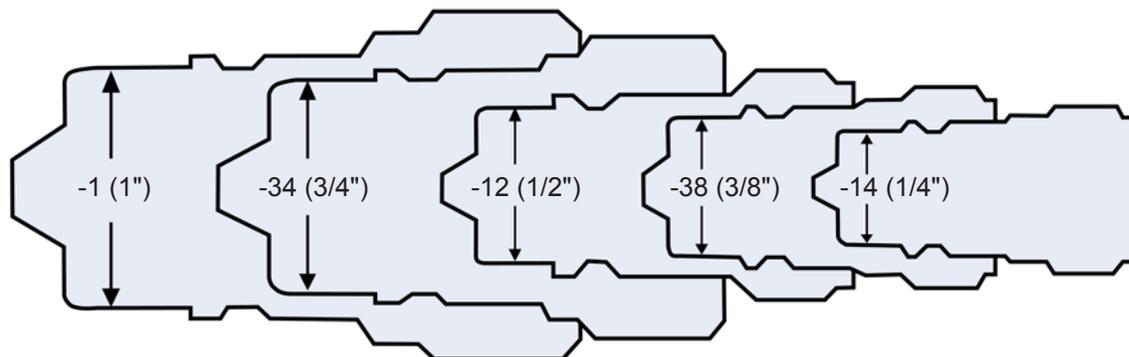
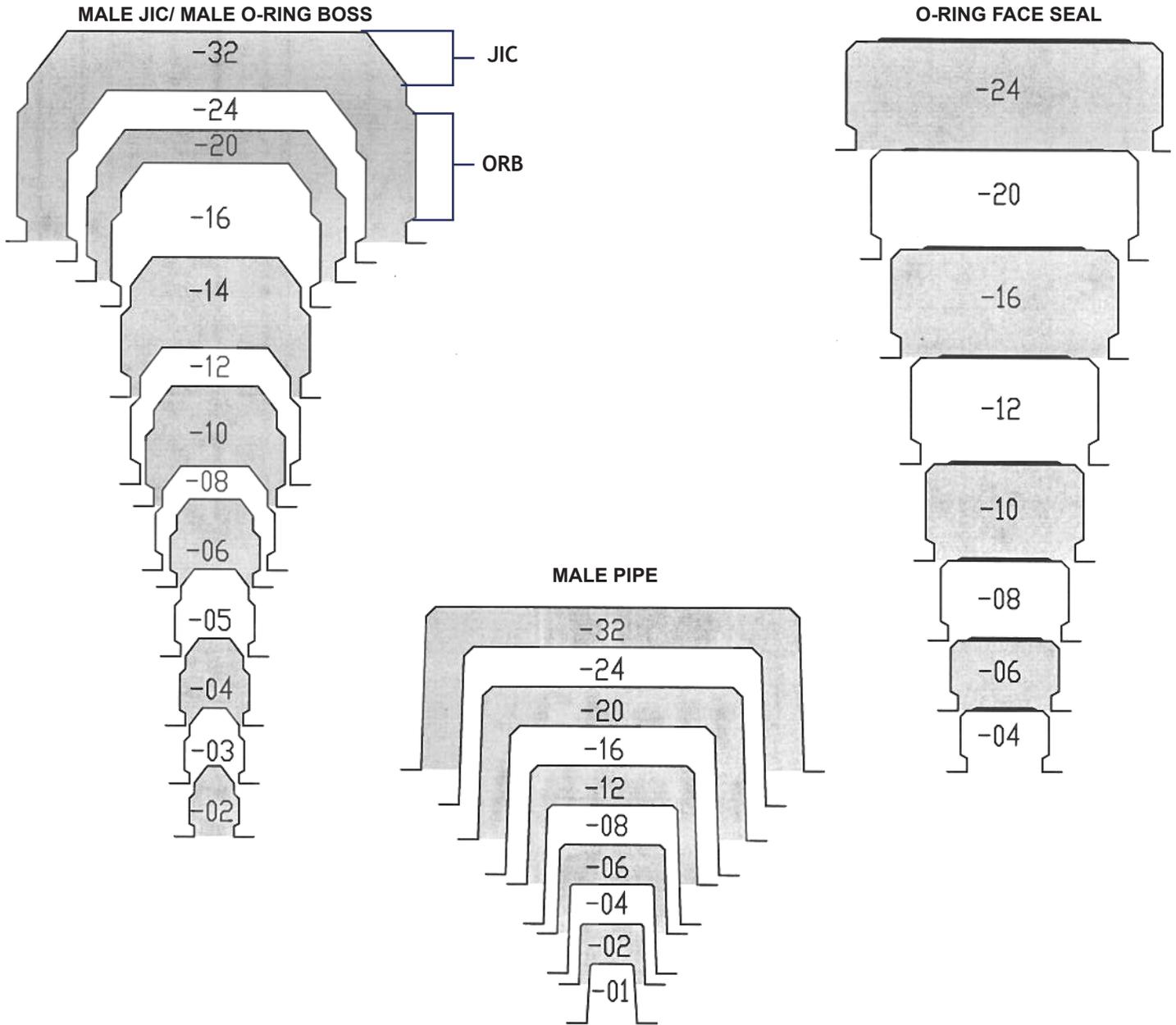
BSPP & BSPT Specifications				
Dash Size	BSPT & BSPP		Torque	
	THREAD SIZE	MAJOR OD ^ø (inch)	BSPP Swivel Union	BSPT
02	1/8-28	0.383	2	2-3
04	1/4-19	0.518	2	2-3
06	3/8-19	0.656	2	2-3
08	1/2-14	0.825	2	2-3
10	5/8-14	0.929	2	2-3
12	3/4-14	1.041	2	2-3
16	1-11	1.309	1 1/2	1 1/2 - 2 1/2
20	1 1/4-11	1.650	1 1/2	1 1/2 - 2 1/2
24	1 1/2-11	1.882	1 1/2	1 1/2 - 2 1/2
32	2-11	2.347	1 1/2	1 1/2 - 2 1/2

The following table lists the specifications for **Metric Adapters**

Metric DIN 3852-1 Threads	
Dash Size	THREAD SIZE (mm)
08	8 x 1.0
10	10 x 1.0
12	12 x 1.5
14	14 x 1.5
16	16 x 1.5
18	18 x 1.5
20	20 x 1.5
22	22 x 1.5
24	24 x 1.5
26	26 x 1.5
27	27 x 2.0
30	30 x 2.0
33	33 x 2.0
39	39 x 2.0
42	42 x 2.0
48	48 x 2.0
60	60 x 2.0

Values are from DIN 3852-1

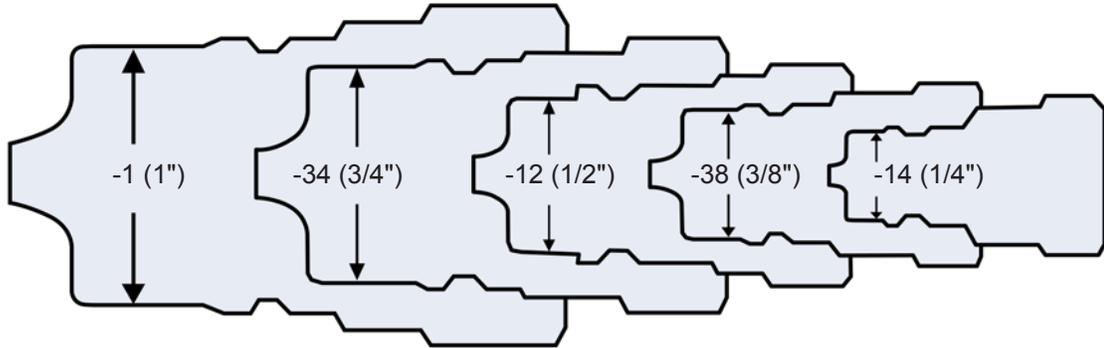
PROFILE SIZE CHART



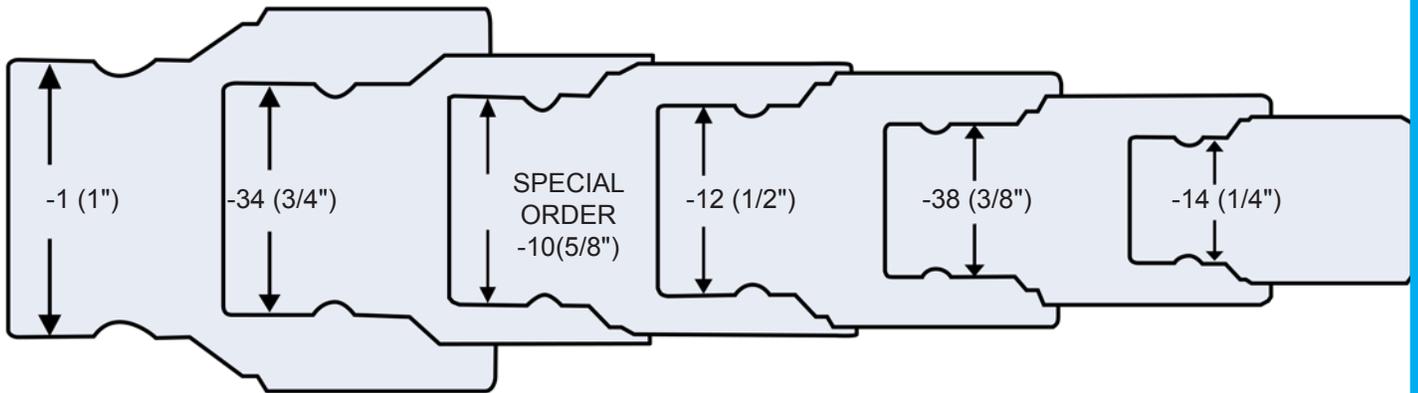
AG INTERCHANGE - NV SERIES

TECHNICAL INFORMATION

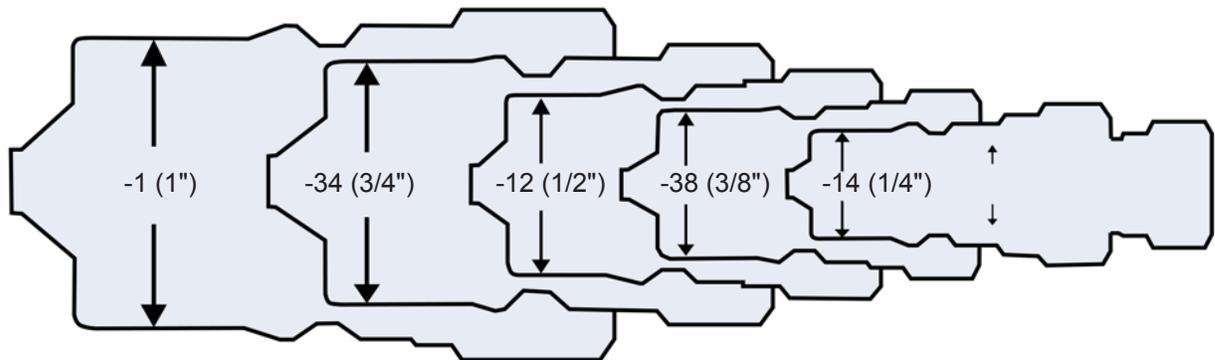
HYDRAULIC ADAPTERS



ISO 7241 - 1 - ISO A - ANV SERIES



ISO 16028 - FF SERIES



ISO 7241 - 1 ISO B - HNV SERIES

STEEL PIPE SWIVEL ADAPTERS

HYDRAULIC ADAPTERS

MALE PIPE SWIVEL ADAPTER

SAE 140130

1



2

PART #	MALE PIPE 1	FEMALE NPSM 2	LIST PRICE
140422	1/8	1/8	---
140442	1/4	1/8	---
140444	1/4	1/4	---
140446	1/4	3/8	---
140448	1/4	1/2	---
140446	1/4	3/8	---
140448	1/4	1/2	---
140464	3/8	1/4	---
140466	3/8	3/8	---
140468	3/8	1/2	---
140484	1/2	1/4	---
140486	1/2	3/8	---
140488	1/2	1/2	---
1404812	1/2	3/4	---
1404126	3/4	3/8	---
1404128	3/4	1/2	---
14041212	3/4	3/4	---
14041216	3/4	1	---
14041612	1	3/4	---
14041616	1	1	---
14041620	1	1-1/4	---
14042016	1-1/4	1	---
14042020	1-1/4	1-1/4	---
14042024	1-1/4	1-1/2	---
14042424	1-1/2	1-1/2	---
14043232	2	2	---

FEMALE PIPE SWIVEL ADAPTER

SAE 140131

1



2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	LIST PRICE
140522	1/8	1/8	---
140542	1/4	1/8	---
140544	1/4	1/4	---
140546	1/4	3/8	---
140564	3/8	1/4	---
140566	3/8	3/8	---
140568	3/8	1/2	---
140584	1/2	1/4	---
140586	1/2	3/8	---
140568	3/8	1/2	---
140584	1/2	1/4	---
140588	1/2	1/2	---
1405812	1/2	3/4	---
1405128	3/4	1/2	---
14051212	3/4	3/4	---
14051216	3/4	1	---
14051612	1	3/4	---
14051616	1	1	---
14052020	1-1/4	1-1/4	---
14052420	1-1/2	1-1/4	---
14052424	1-1/2	1-1/2	---
14053232	2	2	---

MALE PIPE ELBOW SWIVEL ADAPTER

1



2

SAE 140230

PART #	MALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150122	1/8	1/8	---
150124	1/8	1/4	---
150142	1/4	1/8	---
150144	1/4	1/4	---
150146	1/4	3/8	---
150148	1/4	1/2	---
150164	3/8	1/4	---
150166	3/8	3/8	---
1501612	3/8	3/4	---
150184	1/2	1/4	---
150186	1/2	3/8	---
150188	1/2	1/2	---
1501126	3/4	3/8	---
1501128	3/4	1/2	---
15011212	3/4	3/4	---
15011216	3/4	1	---
1501168	1	1/2	---
15011612	1	3/4	---
15011616	1	1	---
15012016	1-1/4	1	---
15012020	1-1/4	1-1/4	---
15012024	1-1/4	1-1/2	---
15012420	1-1/2	1-1/4	---
15012424	1-1/2	1-1/2	---
15013232	2	2	---

1501 2047R 1218 9405 2107

FEMALE UNION ELBOW SWIVEL ADAPTER

SAE 140231 1



2

PART #	FEMALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150222	1/8	1/8	---
150224	1/8	1/4	---
150242	1/4	1/8	---
150244	1/4	1/4	---
150246	1/4	3/8	---
150248	1/4	1/2	---
150266	3/8	3/8	---
150268	3/8	1/2	---
150284	1/2	1/4	---
150286	1/2	3/8	---
150288	1/2	1/2	---
1502812	1/2	3/4	---
1502128	3/4	1/2	---
15021212	3/4	3/4	---
15021616	1	1	---
15022020	1-1/4	1-1/4	---
15022424	1-1/2	1-1/2	---

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1405 2046R 1212 9255 C207

1502 2207 1216 945SR

FEMALE PIPE SWIVELS

HYDRAULIC ADAPTERS

MALE 45° PIPE ELBOW SWIVEL ADAPTER

SAE 140330



PART #	MALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150322	1/8	1/8	---
150324	1/8	1/4	---
150344	1/4	1/4	---
150346	1/4	3/8	---
150364	3/8	1/4	---
150366	3/8	3/8	---
150368	3/8	1/2	---
150384	1/2	1/4	---
150386	1/2	3/8	---
150388	1/2	1/2	---
1503812	1/2	3/4	---
1503128	3/4	1/2	---
15031212	3/4	3/4	---
15031216	3/4	1	---
15031612	1	3/4	---
15031616	1	1	---
15031620	1	1-1/4	---
15032016	1-1/4	1	---
15032020	1-1/4	1-1/4	---
15032424	1-1/2	1-1/2	---

1503 2049R 3107 1214 9355R

FEMALE 45° UNION ELBOW SWIVEL ADAPTER

SAE 140331



PART #	FEMALE PIPE 1	FEMALE NPSM 2	LIST PRICE
150422	1/8	1/8	---
150444	1/4	1/4	---
150466	3/8	3/8	---
150488	1/2	1/2	---
15041212	3/4	3/4	---
15041616	1	1	---

1504 2050R 1249 9385R

MALE SWIVEL BRANCH TEE



PART #	FEMALE NPSM 1 & 2	MALE PIPE 3	LIST PRICE
160122	1/8	1/8	---
160144	1/4	1/4	---
160166	3/8	3/8	---
160188	1/2	1/2	---
16011212	3/4	3/4	---
16011616	1	1	---

1601 2254R 1258 9406R

FEMALE SWIVEL TEE



PART #	FEMALE NPSM 1 & 2	FEMALE PIPE 3	LIST PRICE
160244	1/4	1/4	---
160266	3/8	3/8	---
160288	1/2	1/2	---
16021212	3/4	3/4	---
16021616	1	1	---

1602 2253R 1259 9456R

FEMALE SWIVEL UNION TEE



PART #	FEMALE NPSM 1,2 & 3	LIST PRICE
160344	1/4	---
160366	3/8	---
160388	1/2	---
16031212	3/4	---
16031616	1	---

1603 2255 1223 9705R

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

LONG JIC TUBE NUT



PART #	TUBE O.D	LIST PRICE
03044	1/4	---
03045	5/16	---
03046	3/8	---
03048	1/2	---
030410	5/8	---
030412	3/4	---
030416	1	---

CAP

SAE 070112
MS 51532



304 221000 0304 C5115

PART #	TUBE O.D.	LIST PRICE
0304C2	1/8	---
0304C3	3/16	---
0304C4	1/4	---
0304C5	5/16	---
0304C6	3/8	---
0304C8	1/2	---
0304C10	5/8	---
0304C12	3/4	---
0304C14	7/8	---
0304C16	1	---
0304C20	1-1/4	---
0304C24	1-1/2	---
0304C32	2	---

820 304 21v0292 FNTX 1329 C5129

JIC TUBE NUT (SLEEVE REQUIRED)

SAE 070110
MS 51531



PART #	TUBE O.D	LIST PRICE
03182	1/8	---
03183	3/16	---
03184	1/4	---
03185	5/16	---
03186	3/8	---
03188	1/2	---
031810	5/8	---
031812	3/4	---
031814	7/8	---
031816	1	---
031820	1-1/4	---
031824	1-1/2	---
031832	2	---

JIC TUBE UNION

SAE 070101
MS 51501



PART #	JIC TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
240322	1/8	1/8	---
240333	3/16	3/16	---
240344	1/4	1/4	---
240355	5/16	5/16	---
240364	3/8	1/4	---
240366	3/8	3/8	---
240384	1/2	1/4	---
240388	1/2	1/2	---
240386	1/2	3/8	---
2403106	5/8	3/8	---
2403108	5/8	1/2	---
24031010	5/8	5/8	---
2403126	3/4	3/8	---
2403128	3/4	1/2	---
24031210	3/4	5/8	---
24031212	3/4	3/4	---
24031414	7/8	7/8	---
24031612	1	3/4	---
24031616	1	1	---
24032016	1-1/4	1	---
24032020	1-1/4	1-1/4	---
240332	2	2	---

JIC TUBE SLEEVE

SAE 070115
MS 51533



2403 2027 HTX 1204 C5305

PART #	TUBE O.D	LIST PRICE
03192	1/8	---
03193	3/16	---
03194	1/4	---
03195	5/16	---
03196	3/8	---
03198	1/2	---
031910	5/8	---
031912	3/4	---
031914	7/8	---
031916	1	---
031920	1-1/4	---
031924	1-1/2	---
031932	2	---

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319 900605 TX 1253 C5165

STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

JIC MALE CONNECTOR

SAE 070102
MS 51500

1



2

PART #	JIC TUBE SIZE 1	MALE PIPE THREAD 2	LIST PRICE
240422	1/8	1/8	---
240442	1/4	1/8	---
240444	1/4	1/4	---
240446	1/4	3/8	---
240448	1/4	1/2	---
240454	5/16	1/4	---
240462	3/8	1/8	---
240464	3/8	1/4	---
240466	3/8	3/8	---
240468	3/8	1/2	---
2404612	3/8	3/4	---
240484	1/2	1/4	---
240486	1/2	3/8	---
240488	1/2	1/2	---
2404812	1/2	3/4	---
2404816	1/2	1	---
2404104	5/8	1/4	---
2404106	5/8	3/8	----
2404108	5/8	1/2	---
24041012	5/8	3/4	---
2404126	3/4	3/8	---
2404128	3/4	1/2	---
24041212	3/4	3/4	---
24041216	3/4	1	---
24041612	1	3/4	---
24041616	1	1	---
24041620	1	1-1/4	----
24041624	1	1-1/2	---
24042012	1-1/4	3/4	---
24042016	1-1/4	1	---
24042020	1-1/4	1-1/4	---
24042024	1-1/4	1-1/2	---
24042416	1-1/2	1	---
24042420	1-1/2	1-1/4	---
24042424	1-1/2	1-1/2	---
24042432	1-1/2	2	---
24043220	2	1-1/4	---
24043224	2	1-1/2	---
24043232	2	2	---

2404 2021R FTX 1202R C5205 816

JIC FEMALE CONNECTOR

1



2

SAE 070103
MS 51503

PART #	JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
240522	1/8	1/8	---
240532	3/16	1/8	---
240542	1/4	1/8	---
240544	1/4	1/4	---
240546	1/4	3/8	---
240562	3/8	1/8	---
240564	3/8	1/4	---
240566	3/8	3/8	---
240568	3/8	1/2	---
240584	1/2	1/4	---
240586	1/2	3/8	---
240588	1/2	1/2	---
2405812	1/2	3/4	---
2405106	5/8	3/8	---
2405108	5/8	1/2	---
2405128	3/4	1/2	---
24051212	3/4	3/4	---
24051216	3/4	1	---
24051612	1	3/4	---
24051616	1	1	---
24051620	1	1-1/4	---
24052020	1-1/4	1-1/4	---
24052024	1-1/4	1-1/2	---
24052424	1-1/2	1-1/2	---
24053232	2	2	---

2405 2022R GTX 1230R C5255

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JIC FLARE

HYDRAULIC ADAPTERS

JIC REDUCER/ EXPANDER

SAE 070123 1



2

PART #	FEMALE JIC TUBE SIZE 1	MALE JIC TUBE SIZE 2	LIST PRICE
240664	3/8	1/4	---
240665	3/8	5/16	---
240666	3/8	3/8	---
240668	3/8	1/2	---
240684	1/2	1/4	---
240686	1/2	3/8	---
2406810	1/2	5/8	---
2406812	1/2	3/4	---
2406104	5/8	1/4	---
2406106	5/8	3/8	---
2406108	5/8	1/2	---
2406124	3/4	1/4	---
2406126	3/4	3/8	---
2406128	3/4	1/2	---
24061210	3/4	5/8	---
24061216	3/4	1	---
2406164	1	1/4	---
2406166	1	3/8	---
2406168	1	1/2	---
24061612	1	3/4	---
24061620	1	1-1/4	---
2406208	1-1/4	1/2	---
24062012	1-1/4	3/4	---
24062016	1-1/4	1	---
24062416	1-1/2	1	---
24062420	1-1/2	1-1/4	---
24063224	2	1-1/2	---

2406 C5015 2215 TRTX 1246

PLUG

SAE 070109
MS 51518



PART #	TUBE O.D.	LIST PRICE
24082	1/8	---
24083	3/16	---
24084	1/4	---
24085	5/16	---
24086	3/8	---
24088	1/2	---
240810	5/8	---
240812	3/4	---
240814	7/8	---
240816	1	---
240820	1-1/4	---
240824	1-1/2	---
240832	2	---

2408 430549 PNTX 1254 C5229

STEEL 37° JIC FLARE SHAPES

JIC UNION ELBOW

SAE 070201 1
MS 51505



2

PART #	JIC TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
250022	1/8	1/8	---
250044	1/4	1/4	---
250055	5/16	5/16	---
250064	3/8	1/4	---
250066	3/8	3/8	---
250088	1/2	1/2	---
250086	1/2	3/8	---
2500108	5/8	1/2	---
25001010	5/8	5/8	---
2500128	3/4	1/2	---
25001212	3/4	3/4	---
25001612	1	3/4	---
25001616	1	1	---
25002020	1-1/4	1-1/4	---
25002424	1-1/2	1-1/2	---
25003232	2	2	---

2500 2039 1234 C5505 821

TUBE O.D.	THREAD SIZE
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
7/8	1-3/16-12
1	1-5/16-12
1-1/4	1-5/8-12
1-1/2	1-7/8-12
2	2-1/2-12

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 For more information, visit www.P65Warnings.ca.gov



SHAPES JIC FLARE

HYDRAULIC ADAPTERS

JIC MALE ELBOW

SAE 070202
MS 51504



PART #	JIC TUBE SIZE 1	MALE PIPE SIZE 2	LIST PRICE
250122	1/8	1/8	---
250132	3/16	1/8	---
250142	1/4	1/8	---
250144	1/4	1/4	---
250146	1/4	3/8	---
250148	1/4	1/2	---
250162	3/8	1/8	---
250164	3/8	1/4	---
250166	3/8	3/8	---
250168	3/8	1/2	---
2501612	3/8	3/4	---
250184	1/2	1/4	---
250186	1/2	3/8	---
250188	1/2	1/2	---
2501812	1/2	3/4	---
2501816	1/2	1	---
2501106	5/8	3/8	---
2501108	5/8	1/2	---
25011012	5/8	3/4	---
2501126	3/4	3/8	---
2501128	3/4	1/2	---
25011212	3/4	3/4	---
25011216	3/4	1	---
25011412	7/8	3/4	---
25011612	1	3/4	---
25011616	1	1	---
25011620	1	1-1/4	---
25012016	1-1/4	1	---
25012020	1-1/4	1-1/4	---
25012024	1-1/4	1-1/2	---
25012416	1-1/2	1	---
25012420	1-1/2	1-1/4	---
25012424	1-1/2	1-1/2	---
25012432	1-1/2	2	---
25013232	2	2	---

1208R C5405 2501 2024R CTX 822

JIC FEMALE ELBOW

SAE 070203
MS 51506



PART #	JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
250242	1/4	1/8	---
250244	1/4	1/4	---
250246	1/4	3/8	---
250262	3/8	1/8	---
250264	3/8	1/4	---
250266	3/8	3/8	---
250268	3/8	1/2	---
250284	1/2	1/4	---
250286	1/2	3/8	---
250288	1/2	1/2	---
2502128	3/4	1/2	---
25021212	3/4	3/4	---
25021612	1	3/4	---
25021616	1	1	---
25022020	1-1/4	1-1/4	---
25022424	1-1/2	1-1/2	---

2502 2025R DTX 1240R C5455

SHAPES JIC FLARE

HYDRAULIC ADAPTERS

JIC MALE 45° ELBOW

SAE 070302
MS 51508



PART #	JIC TUBE SIZE 1	MALE PIPE SIZE 2	LIST PRICE
250322	1/8	1/8	---
250342	1/4	1/8	---
250344	1/4	1/4	---
250346	1/4	3/8	---
250352	5/16	1/8	---
250362	3/8	1/8	---
250364	3/8	1/4	---
250366	3/8	3/8	---
250368	3/8	1/2	---
2503612	3/8	3/4	---
250384	1/2	1/4	---
250386	1/2	3/8	---
250388	1/2	1/2	---
2503106	5/8	3/8	---
2503108	5/8	1/2	---
25031012	5/8	3/4	---
25031212	3/4	3/4	---
25031216	3/4	1	---
25031616	1	1	---
25031620	1	1-1/4	---
25032016	1-1/4	1	---
25032020	1-1/4	1-1/4	---
25032424	1-1/2	1-1/2	---
25033232	2	2	---

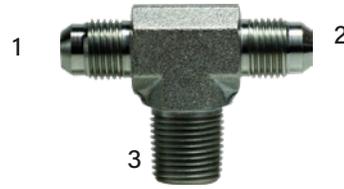
2503 2023R VTX 1206R C5355 823

JIC UNION 45° ELBOW



PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2	LIST PRICE
25044	1/4	1/4	---
25046	3/8	3/8	---
25048	1/2	1/2	---

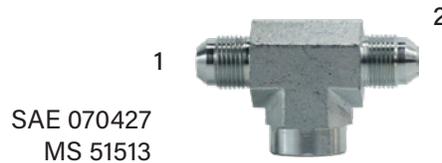
JIC MALE BRANCH TEE



PART #	JIC TUBE SIZE 1&2	PIPE TUBE SIZE 3	LIST PRICE
260132	1/8	1/8	---
260142	1/4	1/8	---
260144	1/4	1/4	---
260166	3/8	3/8	---
260186	1/2	3/8	---
260188	1/2	1/2	---
26011212	3/4	3/4	---

2601 2030R STX 1221R C5605

JIC FEMALE BRANCH TEE



SAE 070427
MS 51513

PART #	JIC THREAD SIZE 1 & 2	FEMALE PIPE SIZE 3	LIST PRICE
260244	1/4	1/4	---
260266	3/8	3/8	---
260288	1/2	1/2	---

2602 2031R OTX 1228R C6566

JIC UNION TEE



SAE 070401
MS 51510

PART #	JIC TUBE SIZE 1 & 2	JIC TUBE SIZE 3	LIST PRICE
260322	1/8	1/8	---
260333	3/16	3/16	---
260344	1/4	1/4	---
260366	3/8	3/8	---
260388	1/2	1/2	---
26031010	5/8	5/8	---
26031212	3/4	3/4	---
26031616	1	1	---

2603 2033 JTX 1220 C5705

STEEL BULKHEAD FITTINGS

HYDRAULIC ADAPTERS

LOCK NUT

SAE 070118
MS 51860



* Lock Nut no longer included on fittings

PART #	TUBE SIZE	LIST PRICE
03062	1/8	---
03064	1/4	---
03065	5/16	---
03066	3/8	---
03068	1/2	---
030610	5/8	---
030612	3/4	---
030614	7/8	---
030616	1	---
030620	1-1/4	---

1306 894 210212 WLN 1332 C5624

JIC BULKHEAD UNION

SAE 070601
MS 51520



PART #	JIC TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
27002	1/8	1/8	---
27004	1/4	1/4	---
27005	5/16	5/16	---
27006	3/8	3/8	---
27008	1/2	1/2	---
270010	5/8	5/8	---
270012	3/4	3/4	---
270014	7/8	7/8	---
270016	1	1	---
270024	1-1/2	1-1/2	---
270032	2	2	---

2700 2041R WTX 1260 C5325

JIC BULKHEAD UNION ELBOW

SAE 070701
MS 51507



PART #	JIC TUBE SIZE 1	JIC BULKHEAD TUBE 2	LIST PRICE
27014	1/4	1/4	---
27015	5/16	5/16	---
27016	3/8	3/8	---
27018	1/2	1/2	---
270110	5/8	5/8	---
270112	3/4	3/4	---
270116	1	1	---
270120	1-1/4	1-1/4	---
270124	1-1/2	1-1/2	---

2701 2043R WETX 1262 C5525

JIC BULKHEAD UNION 45° ELBOW

SAE 070801
MS 51509



PART #	JIC TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
27024	1/4	1/4	---
27026	3/8	3/8	---
27028	1/2	1/2	---
270210	5/8	5/8	---
270212	3/4	3/4	---
270216	1	1	---
270220	1-1/4	1-1/4	---

2702 2042 WNTX 1261 C5375

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STEEL BULKHEAD FITTINGS

HYDRAULIC ADAPTERS

JIC BULKHEAD BRANCH TEE



SAE 070959
MS 51515

PART #	JIC TUBE SIZE 1&2	JIC TUBE SIZE 3	LIST PRICE
27034	1/4	1/4	---
27036	3/8	3/8	---
27038	1/2	1/2	---
270310	5/8	5/8	---
270312	3/4	3/4	---
270316	1	1	---

2703 203002 WJT 1283 C5725

JIC BULKHEAD RUN TEE



SAE 070958
MS 51516

PART #	JIC TUBE SIZE 1&3	JIC TUBE SIZE 2	LIST PRICE
27044	1/4	1/4	---
27046	3/8	3/8	---
27048	1/2	1/2	---
270410	5/8	5/8	---
270412	3/4	3/4	---
270416	1	1	---

2704 203008 WJIT 1284 C5726

JIC TO FEMALE PIPE BULKHEAD



PART #	JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
270544	1/4	1/4	---
270566	3/8	3/8	---
270568	3/8	1/2	---
270588	1/2	1/2	---
27051212	3/4	3/4	---
27051616	3/4	1	---
27052020	1-1/4	1-1/4	---

2705 2239 WGTX C5275

JIC TO MALE PIPE BULKHEAD



PART #	JIC TUBE SIZE 1	PIPE SIZE 2	LIST PRICE
270644	1/4	1/4	---
270666	3/8	3/8	---
270688	1/2	1/2	---
27061212	3/4	3/4	---
27061616	1	1	---
27062020	1-1/4	1-1/4	---
27062424	1-1/2	1-1/2	---

2706 2240

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STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

PIPE COUPLING

SAE 140138



PART #	FEMALE PIPE 1	FEMALE PIPE 2	LIST PRICE
50002	1/8	1/8	---
500042	1/4	1/8	---
50004	1/4	1/4	---
500064	3/8	1/4	---
500066	3/8	3/8	---
500084	1/2	1/4	---
500086	1/2	3/8	---
50008	1/2	1/2	---
5000126	3/4	3/8	---
5000128	3/4	1/2	---
50001212	3/4	3/4	---
5000168	1	1/2	---
50001612	1	3/4	---
500016	1	1	---
50002016	1-1/4	1	---
50002020	1-1/4	1-1/4	---
500024	1-1/2	1-1/2	---
500032	2	2	---

HEX PIPE NIPPLES

SAE 140137



910 5000 2096 GG 1273 C3309

PART #	MALE PIPE 1	MALE PIPE 2	LIST PRICE
540422	1/8	1/8	---
540442	1/4	1/8	---
540444	1/4	1/4	---
540462	3/8	1/8	---
540464	3/8	1/4	---
540466	3/8	3/8	---
540484	1/2	1/4	---
540486	1/2	3/8	---
540488	1/2	1/2	---
5404126	3/4	3/8	---
5404128	3/4	1/2	---
54041212	3/4	3/4	---
5404166	1	3/8	---
5404168	1	1/2	---
54041612	1	3/4	---
54041616	1	1	---
54042012	1-1/4	3/4	---
54042016	1-1/4	1	---
540420	1-1/4	1-1/4	---
54042412	1-1/2	3/4	---
54042416	1-1/2	1	---
54042420	1-1/2	1-1/4	---
54042424	1-1/2	1-1/2	---
54043224	2	1-1/2	---
54043232	2	2	---

5404 2083 FF 1252 C3069 911

EXPANDING PIPE ADAPTER

SAE 140139



PART #	MALE PIPE 1	FEMALE PIPE 2	LIST PRICE
540522	1/8	1/8	---
540524	1/8	1/4	---
540542	1/4	1/8	---
540544	1/4	1/4	---
540546	1/4	3/8	---
540548	1/4	1/2	---
540564	3/8	1/4	---
540566	3/8	3/8	---
540568	3/8	1/2	---
5405612	3/8	3/4	---
540588	1/2	1/2	---
5405812	1/2	3/4	---
5405816	1/2	1	---
5405128	3/4	1/2	---
54051212	3/4	3/4	---
54051216	3/4	1	---
54051220	3/4	1-1/4	---
54051616	1	1	---
54051620	1	1-1/4	---
54051624	1	1-1/2	---
54052020	1-1/4	1-1/4	---
54052024	1-1/4	1-1/2	---
54052424	1-1/2	1-1/2	---

920 5405 2040 FG-(R) 1274 C3209(R)

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STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

HEX REDUCER BUSHINGSAEF1
140140

PART #	MALE PIPE	FEMALE PIPE	LIST PRICE
540642	1/4	1/8	---
540662	3/8	1/8	---
540664	3/8	1/4	---
540682	1/2	1/8	---
540684	1/2	1/4	---
540686	1/2	3/8	---
5406122	3/4	1/8	---
5406124	3/4	1/4	---
5406126	3/4	3/8	---
5406128	3/4	1/2	---
5406164	1	1/4	---
5406166	1	3/8	---
5406168	1	1/2	---
54061612	1	3/4	---
5406204	1-1/4	1/4	---
5406206	1-1/4	3/8	---
5406208	1-1/4	1/2	---
54062012	1-1/4	3/4	---
54062016	1-1/4	1	---
5406248	1-1/2	1/2	---
54062412	1-1/2	3/4	---
54062416	1-1/2	1	---
54062420	1-1/2	1-1/4	---
5406328	2	1/2	---
54063212	2	3/4	---
54063216	2	1	---
54063220	2	1-1/4	---
54063224	2	1-1/2	---

HEX HEAD PLUG

SAE 130109E



PART #	MALE PIPE	LIST PRICE
5406P2	1/8	---
5406P4	1/4	---
5406P6	3/8	---
5406P8	1/2	---
5406P12	3/4	---
5406P16	1	---
5406P20	1-1/4	---
5406P24	1-1/2	---
5406P32	2	---

933 5406P 2082 HP 1251 C3159

STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

HOLLOW HEX PLUG

SAE 130109



PART #	MALE PIPE	LIST PRICE
5406HHP2	1/8	---
5406HHP4	1/4	---
5406HHP6	3/8	---
5406HHP8	1/2	---
5406HHP12	3/4	---
5406HHP16	1	---
5406HHP20	1-1/4	---
5406HHP24	1-1/2	---
5406HHP32	2	---

C3169 2222

FLUSH HOLLOW HEX PLUG W/ 7/8 TAPER



PART #	MALE PIPE	LIST PRICE
5406FLP2	1/8	---
5406FLP4	1/4	---
5406FLP6	3/8	---
5406FLP8	1/2	---
5406FLP12	3/4	---

SQUARE HEAD PLUG

SAE 130109A



PART #	MALE PIPE	LIST PRICE
5406SHP2	1/8	---
5406SHP4	1/4	---
5406SHP6	3/8	---
5406SHP8	1/2	---
5406SHP12	3/4	---
5406SHP16	1	---
5406SHP20	1-1/4	---
5406SHP24	1-1/2	---
5406SHP32	2	---

C3179

PIPE CAP



PART #	FEMALE PIPE	LIST PRICE
5406C2	1/8	---
5406C4	1/4	---
5406C6	3/8	---
5406C8	1/2	---
5406C12	3/4	---
5406C16	1	---

HPC

MALE ELBOW

SAE 140237



PART #	MALE PIPE 1	MALE PIPE 2	LIST PRICE
55002	1/8	1/8	---
550042	1/4	1/8	---
55004	1/4	1/4	---
550064	3/8	1/4	---
55006	3/8	3/8	---
550084	1/2	1/4	---
550086	1/2	3/8	---
550088	1/2	1/2	---
5500128	3/4	1/2	---
55001212	3/4	3/4	---
55001612	1	3/4	---
550016	1	1	---
55001612	1	3/4	---
55002016	1-1/4	1	---
55002020	1-1/4	1-1/4	---
550024	1-1/2	1-1/2	---
550032	2	2	---

919 5500 2085 CR 1275 C3529

STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

45° MALE ELBOW



PART #	MALE PIPE 1	MALE PIPE 2	LIST PRICE
550122	1/8	1/8	---
550144	1/4	1/4	---
550166	3/8	3/8	---
55018	1/2	1/2	---
55011212	3/4	3/4	---
55011616	1	1	---

5501 2247

90° STREET ELBOW

SAE 140239



PART #	MALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55022	1/8	1/8	---
55024	1/4	1/4	---
550242	1/4	1/8	---
550246	1/4	3/8	---
550248	1/4	1/2	---
550264	3/8	1/4	---
55026	3/8	3/8	---
550268	3/8	1/2	---
550284	1/2	1/4	---
550286	1/2	3/8	---
550288	1/2	1/2	---
5502812	1/2	3/4	---
5502128	3/4	1/2	---
55021216	3/4	1	---
55021612	1	3/4	---
55021616	1	1	---
55021620	1	1-1/4	---
55022020	1-1/4	1-1/4	---
55022424	1-1/2	1-1/2	---
55023232	2	2	---

5502 2089 CD 1234R C3409 914

45° STREET ELBOW



SAE 140339

PART #	MALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55032	1/8	1/8	---
55034	1/4	1/4	---
55036	3/8	3/8	---
55038	1/2	1/2	---
550312	3/4	3/4	---
550316	1	1	---
550320	1-1/4	1-1/4	---
550324	1-1/2	1-1/2	---
550332	2	2	---

5503 CD45 1244

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STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

FEMALE ELBOW

SAE 140238



PART #	FEMALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55042	1/8	1/8	---
550442	1/4	1/8	---
55044	1/4	1/4	---
55046	3/8	3/8	---
550464	3/8	1/4	---
550484	1/2	1/4	---
550486	1/2	3/8	---
55048	1/2	1/2	---
5504128	3/4	1/2	---
550412	3/4	3/4	---
55041612	1	3/4	---
550416	1	1	---
550420	1-1/4	1-1/4	---
550424	1-1/2	1-1/2	---

5504 2087 DD 1245 C3509 916

45° FEMALE ELBOW

SAE 140338



PART #	FEMALE PIPE 1	FEMALE PIPE 2	LIST PRICE
55052	1/8	1/8	---
55054	1/4	1/4	---
55056	3/8	3/8	---
55058	1/2	1/2	---
550512	3/4	3/4	---
550516	1	1	---
550520	1-1/4	1-1/4	---

5505 DD45 1241 C3559

MALE PIPE TEE

SAE 140437



PART #	MALE PIPE 1 & 2	MALE PIPE 3	LIST PRICE
560022	1/8	1/8	---
560044	1/4	1/4	---
560066	3/8	3/8	---
560088	1/2	1/2	---
560012	3/4	3/4	---
560016	1	1	---
560020	1-1/4	1-1/4	---

5600 2257 RRS

FEMALE BRANCH PIPE TEE

SAE 140427

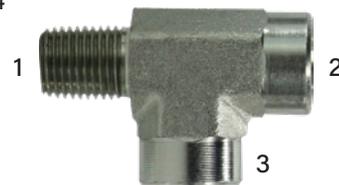


PART #	MALE PIPE 1 & 2	FEMALE PIPE 3	LIST PRICE
560122	1/8	1/8	---
560144	1/4	1/4	---
560166	3/8	3/8	---
560112	3/4	3/4	---
560116	1	1	---

901 5601 2256

STREET PIPE TEE

SAE 140424



PART #	MALE PIPE 1	FEMALE PIPE 2 & 3	LIST PRICE
560222	1/8	1/8	---
560244	1/4	1/4	---
560266	3/8	3/8	---
560288	1/2	1/2	---
560212	3/4	3/4	---
560216	1	1	---

902 5602 2092 MRO 1276 C3759

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL PIPE FITTINGS

HYDRAULIC ADAPTERS

FEMALE RUN PIPE TEE

SAE 1404276



PART #	MALE PIPE 1 & 3	FEMALE PIPE 2	LIST PRICE
560322	1/8	1/8	---
560344	1/4	1/4	---
560366	3/8	3/8	---
560388	1/2	1/2	---
560312	3/4	3/4	---
560316	1	1	---

5603 2093 MMO 1277

MALE BRANCH PIPE TEE



PART #	FEMALE PIPE 1 & 2	MALE PIPE 3	LIST PRICE
560422	1/8	1/8	---
560444	1/4	1/4	---
560466	3/8	3/8	---
560488	1/2	1/2	---
560412	3/4	3/4	---
560416	1	1	---

904 5604 2091 MMS 1278 C3609

FEMALE PIPE TEE

SAE 140438



PART #	FEMALE PIPE	LIST PRICE
560522	1/8	---
560544	1/4	---
560566	3/8	---
56058	1/2	---
560512	3/4	---
560516	1	---
560520	1-1/4	---

917 5605 2090 1225 C3709

CROSS



PART #	FEMALE PIPE SIZE	LIST PRICE
56526	3/8	---
56528	1/2	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

JIC TO O-RING CONNECTOR

SAE 070120
MS 51525



PART #	JIC TUBE SIZE 1	O-RING TUBE 2	LIST PRICE
640022	1/8	1/8	---
640033	3/16	3/16	---
640042	1/4	1/8	---
640044	1/4	1/4	---
640046	1/4	3/8	---
640048	1/4	1/2	---
640054	5/16	1/4	---
640055	5/16	5/16	---
640056	5/16	3/8	---
640064	3/8	1/4	---
640065	3/8	5/16	---
640066	3/8	3/8	---
640068	3/8	1/2	---
6400610	3/8	5/8	---
6400612	3/8	3/4	---
6400616	3/8	1	---
640084	1/2	1/4	---
640086	1/2	3/8	---
640088	1/2	1/2	---
6400810	1/2	5/8	---
6400812	1/2	3/4	---
6400816	1/2	1	---
6400106	5/8	3/8	---
6400108	5/8	1/2	---
64001010	5/8	5/8	---
64001012	5/8	3/4	---
64001016	5/8	1	---
6400126	3/4	3/8	---
6400128	3/4	1/2	---
64001210	3/4	5/8	---
64001212	3/4	3/4	---
64001214	3/4	7/8	---
64001216	3/4	1	---
6400168	1	1/2	---
64001610	1	5/8	---
64001612	1	3/4	---
64001614	1	7/8	---
64001616	1	1	---
64001620	1	1-1/4	---
64001624	1	1-1/2	---
64002012	1-1/4	3/4	---
64002016	1-1/4	1	---
64002020	1-1/4	1-1/4	---
64002024	1-1/2	1-1/2	---
64002420	1-1/2	1-1/4	---
64002424	1-1/2	1-1/2	---
64002432	1-1/2	2	---
64003224	2	1-1/2	---
64003232	2	2	---

6400 202702R F50X 1231 C5315

O-RING TO PIPE ADAPTER



PART #	O-RING TUBE 1	MALE PIPE THREAD 2	LIST PRICE
640142	1/4	1/8	---
640144	1/4	1/4	---
640164	3/8	1/4	---
640166	3/8	3/8	---
640168	3/8	1/2	---
640184	1/2	1/4	---
640186	1/2	3/8	---
640188	1/2	1/2	---
6401812	1/2	3/4	---
6401106	5/8	3/8	---
6401108	5/8	1/2	---
6401126	3/4	3/8	---
6401128	3/4	1/2	---
64011212	3/4	3/4	---
64011612	1	3/4	---
64011616	1	1	---
64012016	1-1/4	1	---
64012020	1-1/4	1-1/4	---
64012424	1-1/2	1-1/2	---
64013232	2	2	---

6401 F5X 1264R C3249

O-RING TO 37° JIC - SWIVEL ADAPTER



PART #	O-RING TUBE 1	JIC TUBE SIZE 2	LIST PRICE
6402044	1/4	1/4	---
6402046	1/4	3/8	---
6402066	3/8	3/8	---
6402068	3/8	1/2	---
6402086	1/2	3/8	---
6402088	1/2	1/2	---
64020810	1/2	5/8	---
64020108	5/8	1/2	---
640201010	5/8	5/8	---
640201212	3/4	3/4	---
640201616	1	1	---
640202020	1-1/4	1-1/4	---

6402 2266 F65X 1213 9316

STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

O-RING HEX NIPPLE UNION

PART #	O-RING TUBE 1	O-RING TUBE 2	LIST PRICE
6403O4	1/4	1/4	---
6403O6	3/8	3/8	---
6403O8	1/2	1/2	---
6403O12	3/4	3/4	---
6403O16	1	1	---

FEMALE O-RING TO MALE PIPE ADAPTER

PART #	O-RING TUBE 1	MALE PIPE THREAD 2	LIST PRICE
640442	1/4	1/8	---
640444	1/4	1/4	---
640464	3/8	1/4	---
640466	3/8	3/8	---
640468	3/8	1/2	---
640486	1/2	3/8	---
640488	1/2	1/2	---
6404108	5/8	1/2	---
64041212	3/4	3/4	---
64041616	1	1	---
64042020	1-1/4	1-1/4	---

6404 2246R 1267R C3239 FHG5

TUBE O.D.	THREAD SIZE
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
7/8	1-3/16-12
1	1-5/16-12
1-1/4	1-5/8-12
1-1/2	1-7/8-12
2	2-1/2-12

O-RING TO FEMALE PIPE ADAPTER

PART #	O-RING TUBE 1	FEMALE PIPE THREAD 2	LIST PRICE
6405O22	1/8	1/8	---
6405O32	3/16	1/8	---
6405O34	3/16	1/4	---
6405O42	1/4	1/8	---
6405O44	1/4	1/4	---
6405O46	1/4	3/8	---
6405O52	5/16	1/8	---
6405O54	5/16	1/4	---
6405O62	3/8	1/8	---
6405O64	3/8	1/4	---
6405O66	3/8	3/8	---
6405O68	3/8	1/2	---
6405O84	1/2	1/4	---
6405O86	1/2	3/8	---
6405O88	1/2	1/2	---
6405O812	1/2	3/4	---
6405O104	5/8	1/4	---
6405O106	5/8	3/8	---
6405O108	5/8	1/2	---
6405O1012	5/8	3/4	---
6405O126	3/4	3/8	---
6405O128	3/4	1/2	---
6405O1212	3/4	3/4	---
6405O1216	3/4	1	---
6405O168	1	1/2	---
6405O1612	1	3/4	---
6405O1616	1	1	---
6405O1620	1	1-1/4	---
6405O2012	1-1/4	3/4	---
6405O2016	1-1/4	1	---
6405O2020	1-1/4	1-1/4	---
6405O2416	1-1/2	1	---
6405O2420	1-1/2	1-1/4	---
6405O2424	1-1/2	1-1/2	---
6405O3224	2	1-1/2	---
6405O3232	2	2	---

6405 2216R F50G 1268R C3269

STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

O-RING HEX HEAD PLUG

SAE 090109A



** Not all sizes are solid*

PART #	O-RING THREAD	LIST PRICE
6408O2	1/8	---
6408O3	3/16	---
6408O4	1/4	---
6408O5	5/16	---
6408O6	3/8	---
6408O8	1/2	---
6408O10	5/8	---
6408O12	3/4	---
6408O14	7/8	---
6408O16	1	---
6408O20	1-1/4	---
6408O24	1-1/2	---
6408O32	2	---

6408 900598 P50N 1265 7237

O-RING HOLLOW - HEX HEAD PLUG

SAE 090109B



PART #	O-RING TUBE	LIST PRICE
6408HO2	1/8	---
6408HO3	3/16	---
6408HO4	1/4	---
6408HO5	5/16	---
6408HO6	3/8	---
6408HO8	1/2	---
6408HO10	5/8	---
6408HO12	3/4	---
6408HO14	7/8	---
6408HO16	1	---
6408HO20	1-1/4	---
6408HO24	1-1/2	---

6408HHP FF2138 HP50N 1256 7238 6409

O-RING PORT REDUCER/EXPANDER



PART #	O-RING TUBE 1	O-RING TUBE 2	LIST PRICE
6410O46	1/4	3/8	---
6410O64	3/8	1/4	---
6410O68	3/8	1/2	---
6410O84	1/2	1/4	---
6410O86	1/2	3/8	---
6410O88	1/2	1/2	---
6410O810	1/2	5/8	---
6410O812	1/2	3/4	---
6410O124	3/4	1/4	---
6410O126	3/4	3/8	---
6410O128	3/4	1/2	---
6410O1210	3/4	5/8	---
6410O1212	3/4	3/4	---
6410O1216	3/4	1	---
6410O166	1	3/8	---
6410O168	1	1/2	---
6410O1612	1	3/4	---
6410O2012	1-1/4	3/4	---
6410O2016	1-1/4	1	---
6410O2412	1-1/2	3/4	---
6410O2416	1-1/2	1	---
6410O2420	1-1/2	1-1/4	---
6410O3216	2	1	---
6410O3220	2	1-1/4	---
6410O3224	2	1-1/2	---

6410 FF1010 F50G5 1270 7033

JIC SWIVELS

HYDRAULIC ADAPTERS

JIC SWIVEL NUT ELBOW

SAE 070221
MS 51521



PART #	JIC TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
65004	1/4	1/4	---
65006	3/8	3/8	---
650068	3/8	1/2	---
650086	1/2	3/8	---
65008	1/2	1/2	---
6500108	5/8	1/2	---
650010	5/8	5/8	---
650012	3/4	3/4	---
65001216	3/4	1	---
650016	1	1	---
650020	1-1/4	1-1/4	---
650024	1-1/2	1-1/2	---
650032	2	2	---

6500 2071R C6X 1236 G5506

JIC SWIVEL TO MALE PIPE ELBOW



PART #	JIC TUBE SIZE 1	MALE PIPE THREAD 2	LIST PRICE
650142	1/4	1/8	---
650144	1/4	1/4	---
650164	3/8	1/4	---
650166	3/8	3/8	---
650168	3/8	1/2	---
650186	1/2	3/8	---
650188	1/2	1/2	---
6501108	5/8	1/2	---
65011212	3/4	3/4	---
65011616	1	1	---
65012020	1-1/4	1-1/4	---
65012424	1-1/2	1-1/2	---
65013232	2	2	---

6501 2250 1247R TF5406

JIC SWIVEL 45° ELBOW

SAE 070321
MS 51522



PART #	JIC TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
65024	1/4	1/4	---
65026	3/8	3/8	---
65028	1/2	1/2	---
650210	5/8	5/8	---
650212	3/4	3/4	---
650216	1	1	---

JIC SWIVEL TO FEMALE - PIPE ELBOW



PART #	JIC TUBE SIZE 1	FEMALE PIPE THREAD 2	LIST PRICE
650344	1/4	1/4	---
650364	3/8	1/4	---
650366	3/8	3/8	---
650386	1/2	3/8	---
650388	1/2	1/2	---
65031212	3/4	3/4	---

JIC SWIVEL CONNECTOR



PART #	JIC TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
650444	1/4	1/4	---
650464	3/8	1/4	---
650466	3/8	3/8	---
650486	1/2	3/8	---
650488	1/2	1/2	---
65041010	5/8	5/8	---
65041212	3/4	3/4	---
65041616	1	1	---
65042020	1-1/4	1-1/4	---

6504 1205

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



FEMALE SWIVELS JIC

HYDRAULIC ADAPTERS

JIC SWIVEL TO MALE - PIPE ADAPTER



PART #	JIC TUBE SIZE 1	MALE PIPE THREAD 2	LIST PRICE
650524	1/8	1/4	---
650542	1/4	1/8	---
650544	1/4	1/4	---
650546	1/4	3/8	---
650556	5/16	3/8	---
650564	3/8	1/4	---
650566	3/8	3/8	---
650586	1/2	3/8	---
650588	1/2	1/2	---
6505128	3/4	1/2	---
65051212	3/4	3/4	---
65051612	1	3/4	---
65051616	1	1	---
65052424	1-1/2	1-1/2	---

6505 2018 F6X 1211 9100R

JIC SWIVEL TO FEMALE PIPE ADAPTER



PART #	JIC TUBE SIZE 1	FEMALE PIPE THREAD 2	LIST PRICE
650642	1/4	1/8	---
650644	1/4	1/4	---
650664	3/8	1/4	---
650666	3/8	3/8	---
650668	3/8	1/2	---
650686	1/2	3/8	---
650688	1/2	1/2	---
6506106	5/8	3/8	---
6506108	5/8	1/2	---
65061012	5/8	3/4	---
6506128	3/4	1/2	---
65061212	3/4	3/4	---
65061616	1	1	---
65062020	1-1/4	1-1/4	---
65062424	1-1/2	1-1/2	---
65063232	2	2	---

6506 2242 1215

TUBE O.D.	THREAD SIZE
1/8	5/16-24
3/16	3/8-24
1/4	7/16-20
5/16	1/2-20
3/8	9/16-18
1/2	3/4-16
5/8	7/8-14
3/4	1-1/16-12
7/8	1-3/16-12
1	1-5/16-12
1-1/4	1-5/8-12
1-1/2	1-7/8-12
2	2-1/2-12

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STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

JIC SWIVEL BRANCH TEE



PART #	JIC TUBE SIZE 1 & 2	JIC FEMALE TUBE 3	LIST PRICE
660044	1/4	1/4	---
660066	3/8	3/8	---
660088	1/2	1/2	---
660010	5/8	5/8	---
660012	3/4	3/4	---
660016	1	1	---
660020	1-1/4	1-1/4	---

6600 203101R 55X 1227 C5707

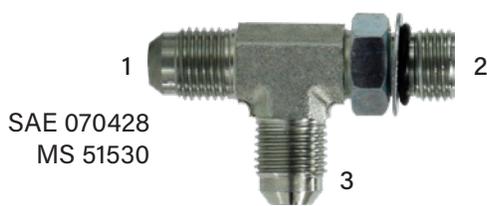
JIC SWIVEL RUN TEE



PART #	JIC TUBE SIZE 1 & 3	JIC FEMALE TUBE 2	LIST PRICE
66024	1/4	1/4	---
66025	5/16	5/16	---
66026	3/8	3/8	---
66028	1/2	1/2	---
660210	5/8	5/8	---
660212	3/4	3/4	---
660216	1	1	---
660224	1-1/4	1-1/4	---

6602 203102R R6X 1248 C5706

JIC TO O-RING RUN TEE



PART #	JIC TUBE SIZE 1 & 3	O-RING TUBE SIZE 2	LIST PRICE
6804NWO4	1/4	1/4	---
6804NWO42	1/4	1/8	---
6804NWO6	3/8	3/8	---
6804NWO8	1/2	1/2	---
6804NWO10	5/8	5/8	---
6804NWO12	3/4	3/4	---
6804NWO16	1	1	---

6804 203005R R50X 1266R C5716

JIC TO O-RING ELBOW CONNECTOR



PART #	JIC TUBE SIZE 1	O-RING TUBE SIZE 2	LIST PRICE
6801NWO4	1/4	1/4	---
6801NWO46	1/4	3/8	---
6801NWO48	1/4	1/2	---
6801NWO54	5/16	1/4	---
6801NWO64	3/8	1/4	---
6801NWO6	3/8	3/8	---
6801NWO68	3/8	1/2	---
6801NWO610	3/8	5/8	---
6801NWO612	3/8	3/4	---
6801NWO84	1/2	1/4	---
6801NWO86	1/2	3/8	---
6801NWO8	1/2	1/2	---
6801NWO810	1/2	5/8	---
6801NWO812	1/2	3/4	---
6801NWO816	1/2	1	---
6801NWO106	5/8	3/8	---
6801NWO108	5/8	1/2	---
6801NWO10	5/8	5/8	---
6801NWO1016	5/8	1	---
6801NWO128	3/4	1/2	---
6801NWO1210	3/4	5/8	---
6801NWO12	3/4	3/4	---
6801NWO1216	3/4	1	---
6801NWO1612	1	3/4	---
6801NWO1614	1	7/8	---
6801NWO16	1	1	---
6801NWO1620	1	1-1/4	---
6801NWO1624	1	1-1/2	---
6801NWO2012	1-1/4	3/4	---
6801NWO2016	1-1/4	1	---
6801NWO20	1-1/4	1-1/4	---
6801NWO2024	1-1/4	1-1/2	---
6801NWO2420	1-1/2	1-1/4	---
6801NWO24	1-1/2	1-1/2	---
6801NWO32	2	2	---

6801 2062R C50X 1238L C5515

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.
 For more information, visit www.P65Warnings.ca.gov



STEEL O-RING ADAPTERS

HYDRAULIC ADAPTERS

JIC TO O-RING - BRANCH TEE



SAE 070429
MS 51529

PART #	JIC TUBE SIZE 1 & 2	O-RING TUBE SIZE 3	LIST PRICE
6803NWO2	1/8	1/8	---
6803NWO4	1/4	1/4	---
6803NWO6	3/8	3/8	---
6803NWO8	1/2	1/2	---
6803NWO10	5/8	5/8	---
6803NWO12	3/4	3/4	---
6803NWO16	1	1	---

6803 203003X S50X 1265R C5715

JIC TO O-RING 45° ELBOW

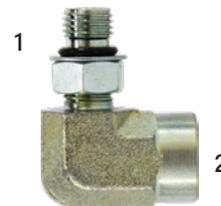


SAE 070320
MS 51528

PART #	JIC TUBE SIZE 1	O-RING TUBE SIZE 2	LIST PRICE
6802NWO2	1/8	1/8	---
6802NWO4	1/4	1/4	---
6802NWO46	1/4	3/8	---
6802NWO6	3/8	3/8	---
6802NWO68	3/8	1/2	---
6802NWO8	1/2	1/2	---
6802NWO86	1/2	3/8	---
6802NWO810	1/2	5/8	---
6802NWO812	1/2	3/4	---
6802NWO10	5/8	5/8	---
6802NWO108	5/8	1/2	---
6802NWO1012	5/8	3/4	---
6802NWO12	3/4	3/4	---
6802NWO1216	3/4	1	---
6802NWO16	1	1	---
6802NWO1612	1	3/4	---
6802NWO1620	1	1-1/4	---
6802NWO20	1-1/4	1-1/4	---
6802NWO2016	1-1/4	1	---
6802NWO24	1-1/2	1-1/2	---
6802NWO32	2	2	---

6802 2061 V50X 1240R C5365

O-RING TO - FEMALE PIPE ELBOW



PART #	O-RING TUBE SIZE 1	PIPE TUBE SIZE 2	LIST PRICE
6805NWO42	1/4	1/8	---
6805NWO44	1/4	1/4	---
6805NWO64	3/8	1/4	---
6805NWO66	3/8	3/8	---
6805NWO86	1/2	3/8	---
6805NWO88	1/2	1/2	---
6805NWO108	5/8	1/2	---
6805NWO128	3/4	1/2	---
6805NWO1212	3/4	3/4	---
6805NWO1616	1	1	---
6805NWO2020	1-1/4	1-1/4	---
6805NWO2424	1-1/2	1-1/2	---

6805 206801R AE0G 1264 C3459

O-RING TO MALE PIPE ELBOW



PART #	O-RING TUBE SIZE 1	PIPE TUBE SIZE 2	LIST PRICE
6806NWO44	1/4	1/4	---
6806NWO66	3/8	3/8	---
6806NWO86	1/2	3/8	---
6806NWO88	1/2	1/2	---
6806NWO1212	3/4	3/4	---
6806NWO1616	1	1	---

6806 1263 TF3569

O-RING TO 37° JIC SWIVEL NUT TO O-RING ELBOW



PART #	O-RING TUBE SIZE 1	JIC TUBE SIZE 2	LIST PRICE
6809NWO44	1/4	1/4	---
6809NWO66	3/8	3/8	---
6809NWO88	1/2	1/2	---
6809NWO1212	3/4	3/4	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

STEEL O-RINGS

HYDRAULIC ADAPTERS

FEMALE O-RING TO MALE O-RING ELBOW



PART #	O-RING TUBE SIZE 1	O-RING TUBE SIZE 2	LIST PRICE
6815NWO44	1/4	1/4	---
6815NWO66	3/8	3/8	---
6815NWO88	1/2	1/2	---
6815NWO1010	5/8	5/8	---
6815NWO1212	3/4	3/4	---

MALE O-RING SWIVEL ADAPTER

SAE 140157



PART #	O-RING TUBE SIZE 1	FEMALE NPSM SIZE 2	LIST PRICE
6900O42	1/4	1/8	---
6900O44	1/4	1/4	---
6900O46	1/4	3/8	---
6900O64	3/8	1/4	---
6900O66	3/8	3/8	---
6900O68	3/8	1/2	---
6900O84	1/2	1/4	---
6900O86	1/2	3/8	---
6900O88	1/2	1/2	---
6900O812	1/2	3/4	---
6900O104	5/8	1/4	---
6900O106	5/8	3/8	---
6900O108	5/8	1/2	---
6900O1012	5/8	3/4	---
6900O126	3/4	3/8	---
6900O128	3/4	1/2	---
6900O1212	3/4	3/4	---
6900O1612	1	3/4	---
6900O1616	1	1	---

6900 2066R 1235 9315

90° O-RING SWIVEL ADAPTER

SAE 140257



PART #	O-RING TUBE SIZE 1	FEMALE NPSM SIZE 2	LIST PRICE
6901NWO42	1/4	1/8	---
6901NWO44	1/4	1/4	---
6901NWO64	3/8	1/4	---
6901NWO66	3/8	3/8	---
6901NWO68	3/8	1/2	---
6901NWO84	1/2	1/4	---
6901NWO86	1/2	3/8	---
6901NWO88	1/2	1/2	---
6901NWO812	1/2	3/4	---
6901NWO104	5/8	1/4	---
6901NWO106	5/8	3/8	---
6901NWO108	5/8	1/2	---
6901NWO126	3/4	3/8	---
6901NWO128	3/4	1/2	---
6901NWO1212	3/4	3/4	---
6901NWO1612	1	3/4	---
6901NWO1616	1	1	---
6901NWO2012	1-1/4	3/4	---
6901NWO2016	1-1/4	1	---
6901NWO2020	1-1/4	1-1/4	---
6901NWO2424	1-1/2	1-1/2	---
6901NWO3232	2	2	---

6401 2068R 1271 9515

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



STEEL SAE O-RING

HYDRAULIC ADAPTERS

45° O-RING SWIVEL ADAPTER



PART #	O-RING TUBE SIZE 1	FEMALE NPSM SIZE 2	LIST PRICE
6902NWO42	1/4	1/8	----
6902NWO44	1/4	1/4	---
6902NWO46	1/4	3/8	---
6902NWO64	3/8	1/4	---
6902NWO66	3/8	3/8	---
6902NWO68	3/8	1/2	---
6902NWO84	1/2	1/4	---
6902NWO86	1/2	3/8	---
6902NWO88	1/2	1/2	---
6902NWO108	5/8	1/2	---
6902NWO128	3/4	1/2	---
6902NWO1212	3/4	3/4	---
6902NWO1616	1	1	---

6902 2067R 1272 9365

O-RINGS

VITON 75 SAE BOSS O-RING



PART #	O-RING TUBE	LIST PRICE
400122	1/8	---
400144	1/4	---
400166	3/8	---
400188	1/2	---
400110	5/8	---
400112	3/4	---
400116	1	---
400120	1-1/4	---
400124	1-1/2	---
400132	2-1/2-12	---

NITRILE 90 SAE BOSS O-RING



PART #	O-RING TUBE	LIST PRICE
400022	1/8	---
400133	3/16	---
400044	1/4	---
400155	5/16	---
400066	3/8	---
400088	1/2	---
400010	5/8	---
400012	3/4	---
400014	7/8	---
400016	1	---
400020	1-1/4	---
400024	1-1/2	---
400032	2	---

BRAZE TUBE NUT (SLEEVE REQUIRED)



PART #	TUBE O.D.	BRAZE TUBE O.D.	LIST PRICE
FSO3184	1/4	.25	---
FSO3186	3/8	.38	---
FSO3188	1/2	.50	---
FSO31810	5/8	.62	---
FSO31812	3/4	.72	---
FSO31816	1	1.00	---
FSO31820	1 1/4	1.25	---

FF318 FF1311

BRAZE TUBE SLEEVE



PART #	TUBE O.D.	LIST PRICE
FSO3194	1/4	---
FSO3196	3/8	---
FSO3198	1/2	---
FSO31910	5/8	---
FSO31912	3/4	---
FSO31916	1	---
FSO31920	1-1/4	---
FSO319-24	1-1/2	---

FF319 FF3019

O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

CAP

SAE 520112



• Two Piece
Nut/ Insert

PART #	TUBE O.D.	FACE SEAL TUBE	LIST PRICE
FSO304C4	1/4	1/4	---
FSO304C6	3/8	3/8	---
FSO304C8	1/2	1/2	---
FSO304C10	5/8	5/8	---
FSO304C12	3/4	3/4	---
FSO304C16	1	1	---
FSO304C20	1-1/4	1-1/4	---
FSO304C24	1-1/2	1-1/2	---

FF304C

BULKHEAD LOCKNUT

SAE 520118



PART #	TUBE SIZE	LIST PRICE
FSO3064	1/4	---
FSO3066	3/8	---
FSO3068	1/2	---
FSO30610	5/8	---
FSO30612	3/4	---
FSO30616	1	---
FSO30620	1-1/4	---
FSO30624	1-1/2	---

MALE UNION CONNECTOR

SAE 520102



PART #	TUBE O.D.	FACE SEAL TUBE 1&2	LIST PRICE
FSO240344	1/4	1/4	---
FSO240366	3/8	3/8	---
FSO240388	1/2	1/2	---
FSO24031212	3/4	3/4	---
FSO24031616	1	1	---
FSO24032020	1-1/4	1-1/4	---
FSO24032424	1-1/2	1-1/2	---

FF2403 FF1203

MALE O-RING FACE SEAL ADAPTER



PART #	FACE SEAL TUBE 1	MALE PIPE SIZE 2	LIST PRICE
FSO240442	1/4	1/8	---
FSO240444	1/4	1/4	---
FSO240446	1/4	3/8	---
FSO240464	3/8	1/4	---
FSO240466	3/8	3/8	---
FSO240468	3/8	1/2	---
FSO240484	1/2	1/4	---
FSO240486	1/2	3/8	---
FSO240488	1/2	1/2	---
FSO2404108	5/8	1/2	---
FSO24041012	5/8	3/4	---
FSO2404128	3/4	1/2	---
FSO24041212	3/4	3/4	---
FSO24041216	3/4	1	---
FSO24041612	1	3/4	---
FSO24041616	1	1	---
FSO24041620	1	1-1/4	---
FSO24042016	1-1/4	1	---
FSO24042020	1-1/4	1-1/4	---
FSO24042424	1-1/2	1-1/2	---

FF2404 4205 FLO

FEMALE ORFS TO MALE ORFS REDUCER



PART #	FEMALE FACE SEAL SIZE 1	MALE FACE SEAL TUBE 2	LIST PRICE
FSO240664	3/8	1/4	---
FSO240684	1/2	1/4	---
FSO240686	1/2	3/8	---
FSO2406106	5/8	3/8	---
FSO2406108	5/8	1/2	---
FSO2406126	3/4	3/8	---
FSO2406128	3/4	1/2	---
FSO2406168	1	1/2	---
FSO24061612	1	3/4	---
FSO24062012	1-1/4	3/4	---
FSO24062016	1-1/4	1	---
FSO24062420	1-1/2	1-1/4	---

FF2406 TRLON

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O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

PLUG

SAE 520109



PART #	TUBE O.D.	LIST PRICE
FSO24084	1/4	---
FSO24086	3/8	---
FSO24088	1/2	---
FSO240810	5/8	---
FSO240812	3/4	---
FSO240816	1	---
FSO240820	1-1/4	---
FSO240824	1-1/2	---

FF2408 FF1254 4229 PNLO

ORFS UNION ELBOW 90°



PART #	FACE SEAL TUBE 1	FACE SEAL TUBE 2	LIST PRICE
FS250044	1/4	1/4	---
FS250066	3/8	3/8	---
FS250088	1/2	1/2	---
FS25001010	5/8	5/8	---
FS25001212	3/4	3/4	---
FS25001616	1	1	---
FS25002020	1-1/4	1-1/4	---

FF2500 4505 ELO

ORFS TO PIPE ELBOW 45°



PART #	FACE SEAL TUBE 1	MALE PIPE TUBE 2	LIST PRICE
FS250342	1/4	1/8	---
FS250344	1/4	1/4	---
FS250364	3/8	1/4	---
FS250366	3/8	3/8	---
FS250386	1/2	3/8	---
FS250388	1/2	1/2	---
FS25031212	3/4	3/4	---
FS25031616	1	1	---

FF2503 4355 VLO

ORFS TO MALE ELBOW

SAE 520202



PART #	FACE SEAL TUBE 1	MALE PIPE TUBE 2	LIST PRICE
FS250142	1/4	1/8	---
FS250144	1/4	1/4	---
FS250164	3/8	1/4	---
FS250166	3/8	3/8	---
FS250186	1/2	3/8	---
FS250188	1/2	1/2	---
FS2501812	1/2	3/4	---
FS2501108	5/8	1/2	---
FS25011012	5/8	3/4	---
FS2501128	3/4	1/2	---
FS25011212	3/4	3/4	---
FS25011216	3/4	1	---
FS25011612	1	3/4	---
FS25011616	1	1	---
FS25012016	1-1/4	1	---
FS25012020	1-1/4	1-1/4	---
FS25012424	1-1/2	1-1/2	---

FF2501 FF1208 4405 CLO

ORFS UNION TEE



PART #	FACE SEAL TUBE 1+2+3	LIST PRICE
FS260344	1/4	---
FS260366	3/8	---
FS260388	1/2	---
FS26031212	3/4	---
FS26031616	1	---
FS26032020	1-1/4	---
FS26032424	1-1/2	---

O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

MALE FLAT FACE TO FEMALE 37 ° SWIVEL



PART #	FACE SEAL TUBE 1	JIC TUBE 2	LIST PRICE
FS640244	1/4	1/4	---
FS640266	3/8	3/8	---
FS640288	1/2	1/2	---
FS64021010	5/8	5/8	---
FS64021212	3/4	3/4	---
FS64021616	1	1	---

FF6402 FF1294

MORFS UNION



PART #	JIC TUBE 1	JIC TUBE 2	LIST PRICE
FS240344	1/4	1/4	---
FS240364	3/8	1/4	---
FS240388	1/2	1/2	---

BULKHEAD



PART #	JIC TUBE 1	JIC TUBE 2	LIST PRICE
FS270044	1/4	1/4	---

MALE ORFS TO ORB CONNECTOR

SAE 520120



PART #	FACE SEAL TUBE 1	O-RING TUBE 2	LIST PRICE
FS6400O44	1/4	1/4	---
FS6400O46	1/4	3/8	---
FS6400O64	3/8	1/4	---
FS6400O66	3/8	3/8	---
FS6400O68	3/8	1/2	---
FS6400O86	1/2	3/8	---
FS6400O88	1/2	1/2	---
FS6400O810	1/2	5/8	---
FS6400O812	1/2	3/4	---
FS6400O108	5/8	1/2	---
FS6400O1010	5/8	5/8	---
FS6400O1012	5/8	3/4	---
FS6400O128	3/4	1/2	---
FS6400O1210	3/4	5/8	---
FS6400O1212	3/4	3/4	---
FS6400O1216	3/4	1	---
FS6400O1612	1	3/4	---
FS6400O1616	1	1	---
FS6400O1620	1	1-1/4	---
FS6400O2020	1-1/4	1-1/4	---
FS6400O2024	1-1/4	1-1/2	---
FS6400O2424	1-1/2	1-1/2	---

4315 FF6400 FF1231

SWIVEL NUT ELBOW



PART #	FACE SEAL TUBE 1	FACE SEAL TUBE 2	LIST PRICE
FS650044	1/4	1/4	---
FS650066	3/8	3/8	---
FS650088	1/2	1/2	---
FS65001010	5/8	5/8	---
FS65001212	3/4	3/4	---
FS65001616	1	1	---
FS65002020	1-1/4	1-1/4	---

FF6500 FF1236

O-RING FACE SEAL ADAPTERS

HYDRAULIC ADAPTERS

MALE JIC 37° FLARE TO
FEMALE FLAT FACE SWIVEL



PART #	JIC TUBE SIZE 1	FACE SEAL TUBE 2	LIST PRICE
FS650444	1/4	1/4	---
FS650466	3/8	3/8	---
FS650488	1/2	1/2	---
FS65041010	5/8	5/8	---
FS65041212	3/4	3/4	---
FS65041616	1	1	---
FS65042020	1-1/4	1-1/4	---

O-RING ELBOW CONNECTOR



PART #	FACE SEAL TUBE 1	O-RING TUBE 2	LIST PRICE
FS680144	1/4	1/4	---
FS680146	1/4	3/8	---
FS680164	3/8	1/4	---
FS680166	3/8	3/8	---
FS680168	3/8	1/2	---
FS680186	1/2	3/8	---
FS680188	1/2	1/2	---
FS6801810	1/2	5/8	---
FS6801812	1/2	3/4	---
FS6801108	5/8	1/2	---
FS68011010	5/8	5/8	---
FS68011012	5/8	3/4	---
FS68011210	3/4	5/8	---
FS68011212	3/4	3/4	---
FS68011216	3/4	1	---
FS68011612	1	3/4	---
FS68011616	1	1	---
FS68011620	1	1-1/4	---
FS68012016	1-1/4	1	---
FS68012020	1-1/4	1-1/4	---
FS68012424	1-1/2	1-1/2	---

FF6801 FF1238 4515

ORFS TO O-RING ELBOW 45°



PART #	FACE SEAL TUBE 1	O-RING SIZE 2	LIST PRICE
FS680244	1/4	1/4	---
FS680264	3/8	1/4	---
FS680266	3/8	3/8	---
FS680286	1/2	3/8	---
FS680268	3/8	1/2	---
FS680288	1/2	1/2	---
FS6802810	1/2	5/8	---
FS68021010	5/8	5/8	---
FS68021212	3/4	3/4	---
FS68021616	1	1	---
FS68022020	1-1/4	1-1/4	---

FF6802 4365 V5OLO

MORFS X MORB RUN TEE



PART #	FACE SEAL TUBE 1 & 3	O-RING TUBE 2	LIST PRICE
FS680444	1/4	1/4	---
FS680466	3/8	3/8	---
FS680488	1/2	1/2	---

STRAIGHT THREAD SWIVEL NUT ELBOW



PART #	O-RING TUBE 1	FACE SEAL THREAD 2	LIST PRICE
FS680944	1/4	1/4	---
FS680966	3/8	3/8	---
FS680988	1/2	1/2	---
FS68091212	3/4	3/4	---

FF6809 FF1239 4535 AOELC

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STEEL BSPT ADAPTERS

HYDRAULIC ADAPTERS

JIC MALE CONNECTOR BSPT



PART #	JIC TUBE SIZE 1	MALE BSPT 2	LIST PRICE
700042	1/4	1/8-28	---
700044	1/4	1/4-19	---
700064	3/8	1/4-19	---
700066	3/8	3/8-19	---
700068	3/8	1/2-14	---
700086	1/2	3/8-19	---
700088	1/2	1/2-14	---
7000812	1/2	3/4-14	---
7000108	5/8	1/2-14	---
70001012	5/8	3/4-14	---
7000128	3/4	1/2-14	---
70001212	3/4	3/4-14	---
70001616	1	1-11	---

3404 305

JIC MALE ELBOW BSPT



PART #	JIC TUBE SIZE 1	MALE BSPT 2	LIST PRICE
720042	1/4	1/8-28	---
720044	1/4	1/4-19	---
720064	3/8	1/4-19	---
720066	3/8	3/8-19	---
720068	3/8	1/2-14	---
720086	1/2	3/8-19	---
720088	1/2	1/2-14	---
72001212	3/4	3/4-14	---
72001616	1	1-11	---

3501 315

BSPT HEX NIPPLE



PART #	MALE BSPT 1	MALE BSPT 2	LIST PRICE
752022	1/8-28	1/8-28	---
752044	1/4-19	1/4-19	---
752066	3/8-19	3/8-19	---
752088	1/2-14	1/2-14	---
75201010	5/8-14	5/8-14	---
75201212	3/4-14	3/4-14	---

3520 MBT

BSPT PLUG



PART #	BSPT	LIST PRICE
95082	1/8-28	---
95084	1/4-19	---
95086	3/8-19	---
95088	1/2-14	---
950812	3/4-14	---
950816	1-11	---

100B-Y KA-RM MHL 296

STEEL BSPP ADAPTERS

BSPP HEX NIPPLE



PART #	MALE BSPP 1	MALE BSPP 2	LIST PRICE
742022	1/8-28	1/8-28	---
742042	1/4-19	1/8-28	---
742064	3/8-19	1/4-19	---
742066	3/8-19	3/8-19	---
742086	1/2-14	3/8-19	---
742088	1/2-14	1/2-14	---
7420108	5/8-14	1/2-14	---
7420128	3/4-14	1/2-14	---
74201212	3/4-14	3/4-14	---
74201612	1-11	3/4-14	---
74201616	1-11	1-11	---

3420 MB 9022

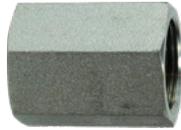
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STEEL BSPP ADAPTERS

HYDRAULIC ADAPTERS

BSPP COUPLING



PART #	BSPP	LIST PRICE
74252	1/8-28	---
74254	1/4-19	---
74258	1/2-14	---
742510	5/8-14	---
742512	3/4-14	---
742516	1-11	---

3425 FB

BSPP TO MALE PIPE NIPPLE



PART #	MALE BSPP SIZE 1	MALE PIPE THREAD SIZE 2	LIST PRICE
78252	1/8-28	1/8	---
78254	1/4-19	1/4	---
78256	3/8-19	3/8	---
78258	1/2-14	1/2	---
782512	3/4-14	3/4	---
782516	1-11	1	---

MBMP 3825

JIC TO FEMALE BSPP STRAIGHT SWIVEL



PART #	JIC TUBE SIZE 1	FEMALE BSPP SWIVEL 2	LIST PRICE
72404	1/4	1/4-19	---
72406	3/8	3/8-19	---
72408	1/2	1/2-14	---
724010	5/8	5/8-14	---
724012	3/4	3/4-14	---
724016	1	1-11	---

3240 MJFBS

JIC TO BSPP MALE CONNECTOR



PART #	JIC TUBE SIZE 1	MALE BSPP 2	LIST PRICE
700242	1/4	1/8-28	---
700244	1/4	1/4-19	---
700246	1/4	3/8-19	---
700248	1/4	1/2-14	---
700264	3/8	1/4-19	---
700266	3/5	3/8-19	---
700268	3/5	1/2-14	---
700286	1/2	3/8-19	---
700288	1/2	1/2-14	---
7002812	1/2	3/4-14	---
7002108	5/8	1/2-14	---
70021212	3/4	3/4-14	---
70021216	3/4	1-11	---
70021616	1	1-11	---

JIC TO BSPP MALE ELBOW



PART #	JIC TUBE SIZE 1	MALE BSPP 2	LIST PRICE
7202NWO42	1/4	1/8-28	---
7202NWO44	1/4	1/4-19	---
7202NWO64	3/8	1/4-19	---
7202NWO66	3/8	3/8-19	---
7202NWO68	3/8	1/2-14	---
7202NWO86	1/2	3/8-19	---
7202NWO88	1/2	1/2-14	---
7202NWO812	1/2	3/4-14	---
7202NWO108	5/8	1/2-14	---
7202NWO1212	3/4	3/4-14	---
7202NWO1216	3/4	1-11	---
7202NWO1616	1	1-11	---

3801 315

30J 3800

STEEL BSPP ADAPTERS

HYDRAULIC ADAPTERS

JIC TO BSPP STRAIGHT SWIVEL



PART #	JIC TUBE SIZE 1	MALE BSPP 2	LIST PRICE
702242	1/4	1/8-28	---
702244	1/4	1/4-19	---
702264	3/8	1/4-19	---
702266	3/8	3/8-19	---
702288	1/2	1/2-14	---
7022108	5/8	1/2-14	---
70221212	3/4	3/4-14	---
70221616	1	1-11	---

3402 3055

HEX HEAD PLUG BSPP



PART #	MALE BSPP	LIST PRICE
9522P2	1/8-28	---
9522P4	1/4-19	---
9522P6	3/8-19	---
9522P8	1/2-14	---
9522P12	3/4-14	---
9522P16	1-11	---

3408

HOLLOW HEX PLUG BSPP



PART #	MALE BSPP	LIST PRICE
9522H2	1/8-28	---
9522H4	1/4-19	---
9522H6	3/8-19	---
9522H8	1/2-14	---
9522H12	3/4-14	---
9522H16	1-11	---

3408 HHP

FEMALE ADAPTER BSPP



PART #	FEMALE PIPE 1	MALE BSPP 2	LIST PRICE
704222	1/8	1/8-28	---
704242	1/4	1/8-28	---
704244	1/4	1/4-19	---
704266	3/8	3/8-19	---
704288	1/2	1/2-14	---
70421212	3/4	3/4-14	---
70421616	1	1-11	---

3455 MMFP

STEEL METRIC ADAPTERS

MALE CONNECTOR



PART #	JIC TUBE SIZE 1	METRIC THREAD 2	LIST PRICE
7005410	1/4	10x1.0	---
7005412	1/4	12x1.5	---
7005414	1/4	14x1.5	---
7005418	1/4	18x1.5	---
7005512	5/16	12x1.5	---
7005514	5/16	14x1.5	---
7005614	3/8	14x1.5	---
7005616	3/5	16x1.5	---
7005618	3/5	18x1.5	---
7005816	1/2	16x1.5	---
7005818	1/2	18x1.5	---
7005822	1/2	22x1.5	---
70051018	5/8	18x1.5	---
70051020	5/8	20x1.5	---
70051022	5/8	22x1.5	---
70051222	3/4	22x1.5	---
70051227	3/4	27x1.5	---

Port-seal crush washer and O-ring included

7400 30J (R) 7011

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



STEEL METRIC ADAPTERS

HYDRAULIC ADAPTERS

JIC X METRIC MALE ELBOW



PART #	JIC TUBE SIZE 1	METRIC THREAD 2	LIST PRICE
7205NWO410	1/4	10x1.0	---
7205NWO412	1/4	12x1.5	---
7205NWO414	1/4	14x1.5	---
7205NWO512	5/16	12x1.5	---
7205NWO614	3/8	14x1.5	---
7205NWO616	3/8	16x1.5	---
7205NWO816	1/2	16x1.5	---
7205NWO818	1/2	18x1.5	---
7205NWO822	1/2	22x1.5	---
7205NWO1018	5/8	18x1.5	---

Port-seal crush washer and O-ring included

7801 315 (R)

JIC SWIVEL X MALE METRIC



PART #	JIC TUBE SIZE 1	METRIC THREAD 2	LIST PRICE
7025410	1/4	10x1.0	---
7025412	1/4	12x1.5	---
7025512	5/16	12x1.5	---
7025614	3/8	14x1.5	---
7025616	3/8	16x1.5	---
7025816	1/2	16x1.5	---
70251022	5/8	22x1.5	---
70251227	3/4	27x2.0	---
70251633	1	33x2.0	---

7402 30JS (R)

HEX HEAD PLUG METRIC PARALLEL



PART #	METRIC THREAD	LIST PRICE
8555P10	10x1.0	---
8555P12	12x1.5	---
8555P14	14x1.5	---
8555P16	16x1.5	---
8555P18	18x1.5	---
8555P20	20x1.5	---
8555P22	22x1.5	---
8555P26	26x1.5	---
8555P30	30x1.5	---

7408

HOLLOW HEX HEAD PLUG METRIC PARALLEL



PART #	METRIC THREAD	LIST PRICE
8555H8	8x1.0	---
8555H10	10x1.0	---
8555H12	12x1.5	---
8555H14	14x1.5	---
8555H16	16x1.5	---
8555H18	18x1.5	---
8555H20	20x1.5	---
8555H22	22x1.5	---
8555H26	26x1.5	---
8555H27	27x2.0	---
8555H30	30x1.5	---

7408 HHP

FEMALE PIPE X MALE METRIC



PART #	FEMALE PIPE THREAD 1	METRIC THREAD 2	LIST PRICE
7045210	1/8	10x1.0	---
7045412	1/4	12x1.5	---
7045414	1/4	14x1.5	---
7045612	3/8	12x1.5	---
7045616	3/8	16x1.5	---
7045618	3/8	18x1.5	---
7045816	1/2	16x1.5	---
7045818	1/2	18x1.5	---
7045822	1/2	22x1.5	---
70451227	3/4	27x2.0	---
70451633	1	33x2.0	---

MMFP (R)

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov

ISO A AND B INTERCHANGE

HYDRAULIC ADAPTERS



- Brass Body
- Steel Wing Nut
- Buna-Seal (-40° to +250°F)

- Aeroquip 5100
- Parker 6100
- Snaptite B78



- Bonded Face Seal
- External ORing Alleviates Full Connection

PART #	BODY SIZE	FEMALE NPT	MAX PSI	LIST PRICE
61150	3/4	1/2	3000	---
61152	3/4	3/4	3000	---
61153	1	1	3000	---
61154	1-1/4	1-1/4	2750	---
61155	1-1/2	1-1/2	2500	---

PART #	BODY SIZE	FEMALE NPT	MAX PSI	LIST PRICE
61050	3/4	1/2	3000	---
61052	3/4	3/4	3000	---
61053	1	1	3000	---
61054	1-1/4	1-1/4	2750	---
61055	1-1/2	1-1/2	2500	---

FEATURES - ISO A and ISO B

- Poppet valves to prevent uncoupled leakage
- Critical parts are induction hardened for durability
- Dependable ball-locking mechanism holds the mating halves together
- Socket and plug are precision machined from solid barstock
- Standard nitrile seals temp range -40°F to +250°F



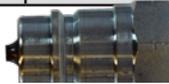
ISO-A FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	LIST PRICE
ANV14F	1/4"	1/4"	---
ANV38F	3/8"	3/8"	---
ANV12F	1/2"	1/2"	---
ANV34F	3/4"	3/4"	---
ANV1F	1"	1"	---

ISO 7241-1 ISO-A Interchange (Connected)				
Body Size	Steel Coupler/ Plug			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
3/4"	4,000	275	14,800	1,000
1"	4,000	275	12,400	850
1-1/4"	3,000	200	12,600	850
1-1/2"	3,000	200	12,600	850
2"	1,450	100	5,800	400

INTERCHANGE DATA:

- Parker 6600, Aeroquip/ Eaton FD56, Dixon 'K' Series.
- Hansen HA 15000, Safeway S56



ISO-A FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	LIST PRICE
ANV14M	1/4"	1/4"	---
ANV38M	3/8"	3/8"	---
ANV12M	1/2"	1/2"	---
ANV34M	3/4"	3/4"	---
ANV1M	1"	1"	---

ISO 7241-1 Series B ISO-B Interchange (Connected)								
Body Size	Steel Coupler/ Plug				Brass Coupler/ Plug			
	Max. Working		Burst		Max. Working		Burst	
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
1/4"	5,000	345	22,500	1,550	3,000	200	15,000	1,000
3/8"	4,000	275	16,500	1,150	2,500	175	12,000	800
1/2"	4,000	275	16,000	1,100	2,500	175	11,500	750
3/4"	4,000	275	16,500	1,150	2,000	150	12,000	800
1"	4,000	275	16,000	1,100	1,500	100	8,500	800

INTERCHANGE DATA:

- Parker 60 Series, Snap-tite 72 series, Dixon 'H' series
- Hansen HK - series, Aeroquip/ Eaton FDH5

ISO-B FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	LIST PRICE
HNV14F	1/4"	1/4"	---
HNV14FB	1/4"	1/4"	---
HNV38F	3/8"	3/8"	---
HNV38FB	3/8"	3/8"	---
HNV12F	1/2"	1/2"	---
HNV12FB	1/2"	1/2"	---
HNV34F	3/4"	3/4"	---
HNV34FB	3/4"	3/4"	---
HNV-1-F	1"	1"	---
HNV-1-F-B	1"	1"	---

B=BRASS



BRASS - HNV SERIES PLUG



BRASS - HNV SERIES COUPLER

ISO-B FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	LIST PRICE
HNV14M	1/4"	1/4"	---
HNV14MB	1/4"	1/4"	---
HNV38M	3/8"	3/8"	---
HNV38MB	3/8"	3/8"	---
HNV12M	1/2"	1/2"	---
HNV12MB	1/2"	1/2"	---
HNV34M	3/4"	3/4"	---
HNV34MB	3/4"	3/4"	---
HNV-1-M	1"	1"	---
HNV-1-M-B	1"	1"	---

WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov

FLUSH FACE ISO

HYDRAULIC ADAPTERS

FEATURES

- Steel construction, zinc nickel plated finish. Hardened Nipples and sleeves and solid barstock construction for maximum resistance to damage from hydraulic and mechanical shock.
- This Anti-Blowout Nitrile/ PTFE bonded seal is designed to prevent blow out or damage during severe service conditions.
- Durable ball-locking mechanism assures reliable connection everytime.
- Temp Range -65° to +250°

ISO 16028

Body Size	FLUSH FACE			
	Steel Coupler/ Plug Coupled			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	5,000	345	18,270	1,200
3/8"	4,000	275	18,270	1,200
1/2"	4,000	275	16,500	1,100
5/8"	4,000	275	14,800	1,000
3/4"	4,000	275	12,400	850
1"	3,000	200	12,600	850

FF Series
HTMC
74C



FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT	LIST PRICE
FF14F	1/4"	1/4"	---
FF38F	3/8"	3/8"	---
FF12F	1/2"	1/2"	---
FF3812F	3/8"	1/2"	---
FF1234F	1/2"	3/4"	---
FF3416F	3/4"	1"	---
FF34F	3/4"	3/4"	---
FF1F	1"	1"	---

FF Series
HTMN
74N



FEMALE PIPE PLUG

PART #	BODY SIZE	NPT	LIST PRICE
FF14M	1/4"	1/4"	---
FF38M	3/8"	3/8"	---
FF12M	1/2"	1/2"	---
FF3812M	3/8"	1/2"	---
FF1234M	1/2"	3/4"	---
FF3416M	3/4"	1"	---
FF34M	3/4"	3/4"	---
FF1M	1"	1"	---

FLAT FACE THREAD LOCK - VEP QUICK COUPLING

SPECIFICATIONS

BODY SIZE (IN)	1/2(12)	3/4(34)	1(1)	1-1/2(24)
Rated Pressure (PSI)	7000	7000	6000	5000
Rated Flow (GPM)	12	50	88	152
Temperature Range	-20°C +120°C			

Standard seal material is NBR

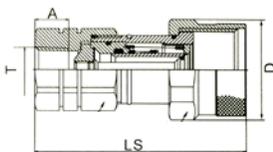
Test Fluid-Oil = 200 SUS

APPLICATIONS

- Widely used in public equipment
- Portable construction equipment.
- Hydraulic tools
- Vehicles

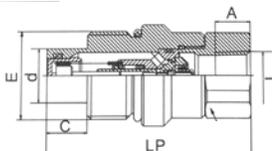
FEATURES

- New valve design provides better resistance from high flow and the pressure of impulse, thus providing advanced performance.
- Special nipple design for connecting under pressure, allows connection and disconnection with high residual pressures.
- The LSQ-VEP series employs a threaded sleeve locking mechanism, mates with matching male threads on the coupler.
- New plating treatment provides advanced anti-rust performance.
- LSQ-VEP series couplings employ flush valving when connecting or disconnecting, therefore only a small amount of fluid can be lost during disconnecting or air inclusion during reconnection.
- The Anti-Blowout bonded seal is designed to prevent blow-out or damage during severe service conditions.
- Machined form solid steel barstock for durability. Compatible with most other VEP series.
- O-Ring SAE Boss Thread available with import lead time (same list price)



FEMALE COUPLER

PART #	LS	D	A	NPT	LIST PRICE
LSQVEP12SF	4.09	1.13	0.67	1/2	---
LSQVEP34SF	4.49	2.13	0.79	3/4	---
LSQVEP1SF	5.28	2.33	0.83	1	---
LSQVEP20SF	5.71	2.72	0.83	1-1/4	---
LSQVEP24SF	7.41	3.63	0.83	1-1/2	---



FEMALE PLUG

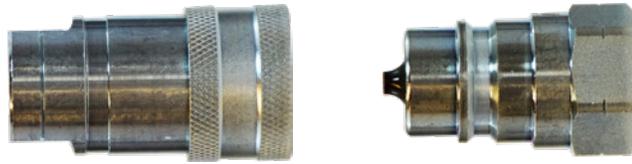
PART #	LS	D	A	NPT	LIST PRICE
LSQVEP12PF	4.09	1.13	0.67	1/2	---
LSQVEP34PF	4.49	2.13	0.79	3/4	---
LSQVEP1PF	5.28	2.33	0.83	1	---
LSQVEP20PF	5.71	2.72	0.83	1-1/4	---
LSQVEP24PF	7.41	3.63	0.83	1-1/2	---

QUICK DISCONNECT - HYDRAULIC JACK

HYDRAULIC ADAPTERS

AG - Series Agricultural Interchange (Connected)				
Nominal Size	Steel Coupler/ Plug			
	Maximum Working		Burst	
	PSI	Bar	PSI	Bar
1/4"	4,000	275	21,000	1,500
3/8"	4,000	275	23,100	1,600
1/2"	4,000	275	16,500	1,100
3/4"	3,000	200	10,300	700
1"	3,000	200	13,000	900

Snap-Tite 60 Series



FEMALE PIPE COUPLER

Part #	Body Size	NPT	List Price
NV14F	1/4"	1/4"	---
NV38F	3/8"	3/8"	---
NV12F	1/2"	1/2"	---
NV34F	3/4"	3/4"	---
NV1F	1"	1"	---

FEMALE PIPE PLUG

Part #	Body Size	NPT	List Price
NV14M	1/4"	1/4"	---
NV38M	3/8"	3/8"	---
NV12M	1/2"	1/2"	---
NV34M	3/4"	3/4"	---
NV1M	1"	1"	---

FEATURES

- Heavy duty heat treated poppet: valves are standard with rugged, specially-designed seals made of nitrite for leak-free performance in the toughest application.
- High-strength steel valve guides designed for high flow rates and made extra tough for agricultural service.
- Dependable hardened chrome alloy steel locking balls. Heat treated plugs and sleeves.
- Standard seals temp range -40°F to +250°F

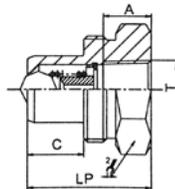
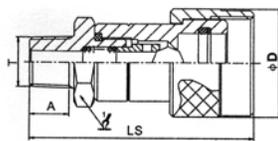
THREAD LOCK HYDRAULIC JACK COUPLING

SPECIFICATIONS

APPLICATIONS

- Thread lock couplings with their threaded union locking system and precision ball-type check valves are designed for extreme high pressure applications such as portable hydraulic jacks.
- **Ball Type.**

Body Size	1/4(14)	3/8(38)
Rated Pressure	10,000	
Rated Flow (GPM)	3	6
Temperature Range	-20°C +120°C	
Standard seal material is NBR		



MALE COUPLER

PART #	LS	D	HEX	A	NPT	LIST PRICE
KZEB14SM	2.40	1.14	0.87	0.55	1/4	---
KZEB38SM	2.91	1.38	0.98	0.57	3/8	---
KZEB38SM	2.91	1.38	0.98	0.57	3/8	---

FEMALE COUPLER

PART #	LS	D	HEX	A	NPT	LIST PRICE
KZEB14PF	1.30	0.44	0.75	0.51	1/4	---
KZEB38PF	1.38	0.63	1.26	0.55	3/8	---

WARNING: This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov



HYDRAULIC FLOW CONTROL/ NEEDLE VALVES

HYDRAULIC ADAPTERS

MM-FC SERIES FLOW CONTROL VALVES

FEATURES:

- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

TECHNICAL DATA:

• Materials

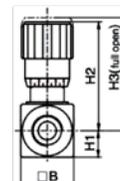
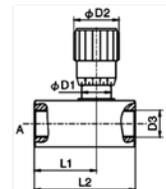
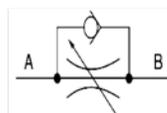
Body: Carbon steel w/ black oxide plating
 Handle: Zinc Alloy
 Set Screw: Steel
 Packing: Buna O-Ring/ PTFE stem packing

Maximum Pressure: 5000PSI
 Temperature Ratings: -4°F to 176°F (-20°C to 80°C)
 Flow Rate: 0-42 GPM



INLET

<< FREE FLOW



PART#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (LBS)	LIST PRICE
MMFC4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.54	2.52	0.90	---
MMFC6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.69	2.75	0.90	---
MMFC8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	2.05	3.27	2.00	---
MMFC12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	2.19	3.50	2.00	---
MMFC16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	2.79	4.60	4.20	---
MMFC20NPT	2.38	1.96	2.28	1-1/4 NPT	1.18	5.25	5.88	3.39	6.07	9.55	---

MM-NV SERIES NEEDLE VALVES

FEATURES:

- Micrometer adjustment knob for accurate valve setting.
- Rugged construction.

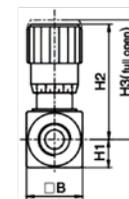
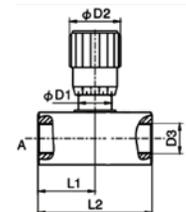
TECHNICAL DATA:

• Materials

Body: Carbon steel w/ black oxide plating
 Handle: Zinc Alloy
 Set Screw: Steel
 Packing: Buna O-Ring/ PTFE stem packing

Maximum Pressure: 5000PSI
 Temperature Ratings: -4°F to 176°F (-20°C to 80°C)
 Flow Rate: 0-42 GPM

• FULL SHUT-OFF



PART#	B	D1	D2	D3	H1	H2	H3	L1	L2	WEIGHT (LBS)	LIST PRICE
MMNV4NPT	1.10	0.76	1.18	1/4 NPT	0.55	2.41	2.67	1.07	2.13	0.90	---
MMNV6NPT	1.10	0.76	1.18	3/8 NPT	0.55	2.41	2.67	1.07	2.13	0.90	---
MMNV8NPT	1.50	0.95	1.46	1/2 NPT	0.75	3.07	3.41	1.34	2.38	2.00	---
MMNV12NPT	1.50	0.95	1.46	3/4 NPT	0.75	3.08	3.41	1.54	3.09	2.00	---
MMNV16NPT	1.89	1.38	1.89	1 NPT	0.94	4.03	4.50	1.81	3.62	4.20	---

WARNING: This product can expose you to chemicals, including cobalt, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



HYDRAULIC FLOW CONTROL/ BREATHERS

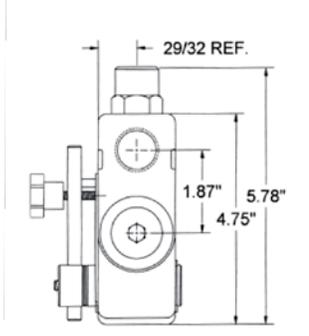
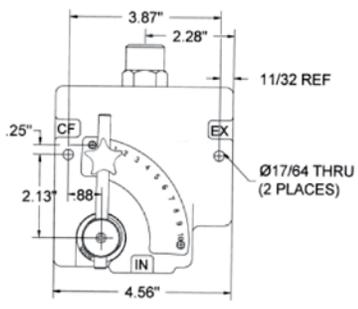
HYDRAULIC ADAPTERS

PRESSURE COMPENSATING VARIABLE FLOW CONTROL

FEATURES:

MFC-51 model is a full range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flow is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief allows for pressure compensated flow up to the pressure setting on the relief. Relief valves are preset at 1500 PSI and field adjustable from 750 to 3000 PSI.

- Materials: Cast Iron Body, Heat Treated Compensator Spool, Stainless Steel Rotary Spool, Buna N "O" Rings (Standard)
- **ALL ARE STANDARD FLOW CONTROL**
- **ALL HAVE ADJUSTABLE BALL SPRING RELIEF**
- **SAE PORT AVAILABLE. MINIMUM ORDER REQUIRED**



PART#	SIZE	FLOW	LIST PRICE
MFC38N	3/8" - NPT	0-8 gpm	---
MFC12N	1/2" - NPT	0-16 gpm	---
MFC34N	3/4" - NPT	0-30 gpm	---

SCREW-ON TYPE AIR BREATHERS



- Chrome Plated Steel
- 1/4 To 1 Inch NPT
- 40 Micron Breather

MB4004	10	1/4	---
MB4006	10	3/8	---
MB4008	10	1/2	---
MB4012	25	3/4	---
MB4016	25	1	---

WARNING: This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov



STEEL FLANGE ADAPTERS

CONFORMANCE

- SAE J518

MATERIALS

- Steel per SAE J518 with either black phosphate finish or plated zinc finish or iridite dip. Stainless Steel available upon request.

WORKING PRESSURES

The following table lists the recommended working pressures for steel Four-bolt Solid and Split Flange Fittings and Hose Ends manufactured in accordance with SAE standards J518 and J517. SAE recommends sufficient testing to be conducted to assure that performance levels will be safe and satisfactory, especially if installed in systems operating at elevated pressures or in severe conditions. When using Flanged Fittings that have a threaded connection on one end, use the lower pressure rating of the two.

Caution: Although many Four-bolt Flanged Fittings have sufficient structural integrity to support the weight of many components, we recommend consulting with our technical support department for guidance in selection of parts for this purpose.

SAE J518 FOUR-BOLT CODE 61 FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-3/16 - 1.188	5000
-12	1-1/2 - 1.500	5000
-16	1-3/4 - 1.750	5000
-20	2 - 2.000	4000
-24	2-3/8 - 2.375	3000
-32	2-13/16 - 2.812	3000
-40	3-5/16 - 3.312	2500
-48	4 - 4.000	2000
-56	4-1/2 - 4.500	500
-64	5 - 5.000	500
-80	6 - 6.000	500

SAE J518 FOUR-BOLT CODE 62 FLANGE PRESSURE RATINGS

Dash Size	Flange Head OD Inches	4 TO 1 Minimum Burst PSI
-8	1-1/4 - 1.250	6000
-12	1-5/8 - 1.625	6000
-16	1-7/8 - 1.875	6000
-20	2-1/8 - 2.125	6000
-24	2-1/2 - 2.500	6000
-32	3-1/8 - 3.125	6000

STEEL FLANGE ADAPTERS ASSEMBLY INSTRUCTIONS

RECOMMENDED SOLID FOUR-BOLT

- Step 1.** Inspect port area to be smooth and free of nicks, burrs, scratches, or contaminants.
- Step 2.** Lubricate the o-ring and place in flange head groove.
- Step 3.** Lubricate screw threads, slip lock washers onto screws, and insert screws into flange
- Step 4.** Position flange on port and finger tighten all screws.
- Step 5.** Torque the screws in a figure eight sequence, incrementally until the appropriate torque value in the following table is achieved.

J518 CODE 61 AND CODE 62 FLANGE MINIMUM TORQUE VALUES

Dash Size	Port Size	Code 61 Foot/Lbs.	Code 62 Foot/Lbs.
-8	1/2"	15-19	15-19
-12	3/4"	20-29	25-33
-16	1"	27-35	41-50
-20	1-1/4"	35-46	62-75
-24	1-1/2"	46-58	116-133
-32	2"	53-67	200-217
-40	2-1/2"	79	NA
-48	3"	137	NA
-56	3-1/2"	116	NA
-64	4"	116	NA
-80	5"	116	NA

RECOMMENDED SPLIT FOUR-BOLT

- Step 1.** Follow steps 1 through 3 above, then proceed to the following steps.
- Step 2.** Position both flanges on port and turn one screw in each flange about three turns.
- Step 3.** Rotate each flange away from the port for sufficient clearance to position hose or fitting flange head on port.
- Step 4.** Close each flange until it properly captures flange head. Insert remaining screws and finger tighten.
- Step 5.** Torque the screws in a figure eight sequence incrementally until the appropriate torque value in the preceding table is achieved.

WHY WET TORQUE?

Due to the difference in plating types and thickness, materials, and thread quality of different components, the coefficient of friction varies greatly on any given assembly. Lubrication not only produces a more consistent coefficient of friction, it increases clamping force on sealing area with less torque on the threads. Overtightening causes threads to yield, deform and lose their ability to maintain an adequate load or clamping force on the seating area. Extended operation and severe conditions cause further yielding which results in leaks. Overtightening is the single greatest cause for leaks in metal to metal seat hydraulic connections. It is our firm position, that to not wet torque, is to compromise consistency and quality for convenience.

FLANGE ADAPTERS

HYDRAULIC ADAPTERS

JIC FLANGE ADAPTER

CODE 61

6840
503



3000 PSI

PART #	JIC TUBE SIZE 1	FLANGE SIZE 2	LIST PRICE
170088	1/2	1/2	---
1700812	1/2	3/4	---
17001212	3/4	3/4	---
17001216	3/4	1	---
17001612	1	3/4	---
17001616	1	1	---
17001620	1	1-1/4	---
17001624	1	1-1/2	---
17002016	1-1/4	1	---
17002020	1-1/4	1-1/4	---
17002024	1-1/4	1-1/2	---
17002032	1-1/4	2	---
17002420	1-1/2	1-1/4	---
17002424	1-1/2	1-1/2	---
17002432	1-1/2	2	---
17003232	2	2	---

6840 503

JIC FLANGE 450 ADAPTER

CODE 61

6845
505



3000 PSI

PART #	JIC TUBE SIZE 1	FLANGE SIZE 2	LIST PRICE
170388	1/2	1/2	---
1703812	1/2	3/4	---
17031212	3/4	3/4	---
17031216	3/4	1	---
17031612	1	3/4	---
17031616	1	1	---
17031620	1	1-1/4	---
17032016	1-1/4	1	---
17032020	1-1/4	1-1/4	---
17032024	1-1/4	1-1/2	---
17032420	1-1/2	1-1/4	---
17032424	1-1/2	1-1/2	---
17032432	1-1/2	2	---
17033232	2	2	---

6845 505

JIC FLANGE 90° ADAPTER

CODE 61



3000 PSI

PART #	JIC TUBE SIZE 1	FLANGE SIZE 2	LIST PRICE
170488	1/2	1/2	---
1704812	1/2	3/4	---
17041016	5/8	1	---
17041212	3/4	3/4	---
17041216	3/4	1	---
17041220	3/4	1-1/4	---
17041612	1	3/4	---
17041616	1	1	---
17041620	1	1-1/4	---
17041624	1	1-1/2	---
17042016	1-1/4	1	---
17042020	1-1/4	1-1/4	---
17042024	1-1/4	1-1/2	---
17042032	1-1/4	2	---
17042420	1-1/2	1-1/4	---
17042424	1-1/2	1-1/2	---
17042432	1-1/2	2	---
17043232	2	2	---

6890 504

JIC FLANGE ADAPTER

CODE 62



6000 PSI

PART #	JIC PIPE SIZE 1	FLANGE SIZE 2	LIST PRICE
180088	1/2	1/2	---
18001212	3/4	3/4	---
18001216	3/4	1	---
18001612	1	3/4	---
18001616	1	1	---
18001620	1	1-1/4	---
18001624	1	1-1/2	---
18002016	1-1/4	1	---
18002020	1-1/4	1-1/4	---
18002024	1-1/4	1-1/2	---
18002420	1-1/2	1-1/4	---
18002424	1-1/2	1-1/2	---

6842

FLANGE ADAPTERS

HYDRAULIC ADAPTERS

JIC FLANGE 45° ADAPTER CODE 62



PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	LIST PRICE
18031212	3/4	3/4	---
18031216	3/4	1	---
18031612	1	3/4	---
18031616	1	1	---
18031620	1	1-1/4	---
18031624	1	1-1/2	---
18032016	1-1/4	1	---
18032020	1-1/4	1-1/4	---
18032024	1-1/4	1-1/2	---
18032420	1-1/2	1-1/4	---
18032424	1-1/2	1-1/2	---
18033232	2	2	---

6847 508

JIC FLANGE 90° ADAPTER - CODE 62



PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	LIST PRICE
18041212	3/4	3/4	---
18041216	3/4	1	---
18041220	3/4	1-1/4	---
18041612	1	3/4	---
18041616	1	1	---
18041620	1	1-1/4	---
18041624	1	1-1/2	---
18042016	1-1/4	1	---
18042020	1-1/4	1-1/4	---
18042024	1-1/4	1-1/2	---
18042420	1-1/2	1-1/4	---
18042424	1-1/2	1-1/2	---
18043232	2	2	---

6842

SPLIT FLANGE PLUG - CODE 61



3000 PSI

PART #	FLANGE SIZE	LIST PRICE
196112	3/4	---
196116	1	---
196120	1-1/4	---
196124	1-1/2	---
196132	2	---

6861P

SPLIT FLANGE PLUG CODE 62



6862P

6000 PSI

PART #	FLANGE SIZE	LIST PRICE
196212	3/4	---
196216	1	---
196220	1-1/4	---
196224	1-1/2	---
196232	2	---

6862P

SPLIT FLANGE KIT CODE 61

SFK



3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIA.	LIST PRICE
190112	3/4	1.50	---
190116	1	1.75	---
190120	1-1/4	2.00	---
190124	1-1/2	2.38	---
190132	2	2.81	---

SPLIT FLANGE KIT CODE 62

SFXK



6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	LIST PRICE
190212	3/4	1.63	---
190216	1	1.88	---
190220	1-1/4	2.12	---
190224	1-1/2	2.50	---
190232	2	3.12	---

FLANGE ADAPTERS

HYDRAULIC ADAPTERS

SPLIT FLANGE HALF
CODE 61 SF



3000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	LIST PRICE
206112	3/4	1.50	---
206116	1	1.75	---
206120	1-1/4	2.00	---
206124	1-1/2	2.38	---
206132	2	2.81	---

SPLIT FLANGE HALF
CODE 62 SFX



6000 PSI

PART #	FLANGE SIZE	FLANGE HEAD DIAMETER	LIST PRICE
206212	3/4	1.63	---
206216	1	1.88	---
206220	1-1/4	2.12	---
206224	1-1/2	2.50	---
206232	2	3.12	---

PIPE THREAD FLANGE PAD
CODE 61 W43



3000 PSI

PART #	PIPE SIZE	LIST PRICE
226188	1/2	---
22611212	3/4	---
22611616	1	---
22612020	1-1/4	---
22612424	1-1/2	---
22613232	2	---

PIPE THREAD FLANGE PAD
CODE 62 W44



6000 PSI

PART #	PIPE SIZE	LIST PRICE
22621212	3/4	---
22621616	1	---
22622020	1-1/4	---
22622424	1-1/2	---
22623232	2	---

O-RING FLANGE PAD
CODE 61 W46



3000 PSI

PART #	O-RING TUBE SIZE	PAD SIZE	LIST PRICE
23611212	3/4	3/4	---
23611616	1	1	---
23612020	1-1/4	1-1/4	---
23612424	1-1/2	1-1/2	---

O-RING FLANGE PAD
CODE 62 W48



6000 PSI

PART #	O-RING TUBE SIZE	PAD SIZE	LIST PRICE
23621212	3/4	3/4	---
23621616	1	1	---
23622020	1-1/4	1-1/4	---
23622424	1-1/2	1-1/2	---

STAINLESS STEEL ADAPTERS

316 STAINLESS STEEL ADAPTERS

STAINLESS STEEL ADAPTERS

PIPE SWIVELS



JIC FITTINGS



BULKHEAD FITTINGS



PIPE FITTINGS



SAE O-RING BOSS



JIC FEMALE SWIVELS



HOSE CRIMP FITTINGS



ALL MALE THREADS SHIPPED WITH PROTECTIVE COVER



STAINLESS ADAPTERS

TECHNICAL INFORMATION**316 STAINLESS STEEL ADAPTERS****PRESSURE RATINGS**

The hydraulic tube fittings represented by Stainless Adapters Inc. conform to the performance requirements specified in SAE J514, SAE J518, SAE J1453, SAE J1926/ISO 11926 and related standards.

The working pressure ratings listed below are based on a 4:1 design factor for minimum burst. As specified in SAE J514, these are dynamic pressure ratings and the fittings are capable of passing a cyclic endurance (impulse) test for one million cycles at 133 % of the corresponding working pressure.

The rated working pressure for any fitting is based on the lowest pressure rated fitting end. For example, a fitting may include one -4 (1/4") male 37-degree tube end and one -6 (3/8") male pipe end. From the tables below, the rated working pressure for the -4 male 37-degree tube end is 34.5 MPa (5,000 psi) and the rated working pressure of the -6 (3/8") male pipe end is 21 MPa (3,000 psi). The rated working pressure of the fitting would be 21 MPa (3,000 psi).

For proper performance, the design of any hydraulic system should take into consideration the rated working pressures for each of the components of the system, including standard ratings for hose and tubing components and assemblies. For any application, testing should be performed to assure safe and satisfactory performance.

Pressure Ratings for Fittings With NPTF Pipe Threads and Adapter Unions							
Nominal Pipe Size		Thread Size		Working Pressures			
Nom SAE Dash Size	Nom Inch Pipe O.D.	Dryseal Pipe Thread (NPTF ¹) Male and Female	Straight Pipe Thread (NPSM ²) Female Swivels	Fittings With NPTF Pipe Threads		Adapter Unions	
				MPa	psi	MPa	psi
-2	1/8	1/8-27	1/8-27	34.5	5,000	34.5	5,000
-4	1/4	1/4-18	1/4-18	27.5	4,000	34.5	5,000
-6	3/8	3/8-18	3/8-18	21	3,000	27.6	4,000
-8	1/2	1/2-14	1/2-14	21	3,000	24.1	3,500
-12	3/4	3/4-14	3/4-14	17	2,500	15.5	2,250
-16	1	1-11-1/2	1-11-1/2	14	2,000	13.8	2,000
-20	1 1/4	1-1/4-11-1/2	1-1/4-11-1/2	8	1,150	11.2	1,625
-24	1 1/2	1-1/2-11-1/2	1-1/2-11-1/2	7	1,000	8.6	1,250
-32	2	2-11-1/2	2-11-1/2	7	1,000	7.8	1,125

1) Dryseal American Standard Taper Pipe Thread

2) American Standard Straight Pipe Thread for Mechanical Joints

■ Temperature Rating

Material	Identify	Max. Temperature °F(°C)
316 Stainless Steel	SS	1000(537)
Brass	B	400(204)
Carbon Steel	C	375(190)

TECHNICAL INFORMATION

316 STAINLESS STEEL ADAPTERS

Pressure Ratings

37° Flare SAE J514

Allowable Working Pressure Ratings (Capable of 4 to 1 Min. Burst)

Nom.SAE Dash Size	Nom.Tube O.D Inches	37°Flare Straight Thread	Nom.Pipe Size	SAE St. Threads Union and Bulkhead (psi)	Fittings with Pipe Threads (psi)
2	1/8	5/16" - 24	1/8"	5000	5000
3	3/16	3/8" - 24	1/8"	5000	5000
4	1/4	7/16" - 20	1/8"	5000	5000
5	5/16	1/2" - 20	1/8"	5000	5000
6	3/8	9/16" - 18	1/4"	5000	5000
8	1/2	3/4" - 16	3/8"	4500	4000
10	5/8	7/8" - 14	1/2"	3500	3000
12	3/4	1 1/16" - 12	3/4"	3500	3000
14	7/8	1 3/16" - 12	3/4"	3000	2500
16	1	1 5/16" - 12	1"	3000	2000
20	1 1/4	1 5/8" - 12	1 1/4"	2500	1150
24	1 1/2	1 7/8" - 12	1 1/2"	2000	1000
32	2	2 1/2" - 12	2"	1500	1000

JIC threads conform to SAE J514 specifications

NPT

Size Designator	NPT Size	316 Stainless Steel			
		Male		Female	
		psig	bar	psig	bar
1	1/16	11000	757	6700	461
2	1/8	10000	689	6500	447
4	1/4	8000	551	6600	454
6	3/8	7800	537	5300	365
8	1/2	7700	530	4900	337
12	3/4	7300	502	4600	316
16	1	5300	365	4400	303
20	1 1/4	6000	413	5000	344
24	1 1/2	5000	344	4600	316
32	2	3900	268	3900	268

NPT threads meet the requirements of ASME/ANSIB.1.20.1

FEMALE PIPE SWIVELS

316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPSM SWIVEL

PART #	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS1404-04-04	1/4	1/4	1/4-18	1/4-18	1.440	---
SS1404-04-06	1/4	3/8				
SS1404-06-06	3/8	3/8	3/8-18	3/8-18	1.560	---
SS1404-06-08	3/8	1/2				
SS1404-08-08	1/2	1/2	1/2-14	1/2-14	1.940	---
SS1404-12-12	3/4	3/4	3/4-14	3/4-14	2.060	---
SS1404-16-16	1	1	1-11 1/2	1-11 1/2	2.380	---

SSP: PSX-XC / PARKER: 0107-X-X-SS / AEROQUIP: 259-2045-X-X

316 STAINLESS STEEL FEMALE NPT X FEMALE NPSM SWIVEL

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS1405-04-04	1/4	1/4	1/4-18	1/4-18	1.440	---
SS1405-06-06	3/8	3/8	3/8-18	3/8-18	1.560	---
SS1405-08-08	1/2	1/2	1/2-14	1/2-14	1.830	---
SS1405-12-12	3/4	3/4	3/4-14	3/4-14	1.960	---
SS1405-16-16	1	1	1-11 1/2	1-11 1/2	2.300	---

SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

JIC 37°

316 STAINLESS STEEL ADAPTERS

JIC TUBE SLEEVE



PART	(A) SIZE	(L)	LIST PRICE
SS319-04	1/4	.409	----
SS319-06	3/8	.500	---
SS319-08	1/2	.559	---
SS319-10	5/8	.661	---
SS319-12	3/4	.681	---
SS319-16	1	.779	---
SS319-20	1-1/4		
SS319-24	1-1/2		
SS319-32	2		

SSP: JXS / PARKER: XTX-SS / AEROQUIP: 259-900605-X

JIC TUBE NUT



PART	(A) FJIC SIZE	(A) THREAD	HEX	(L)	LIST PRICE
SS318-04	1/4	7/16-20	9/16	.622	---
SS318-06	3/8	9/16-18	11/16	.728	---
SS318-08	1/2	3/4-16	7/8	.850	---
SS318-10	5/8	7/8-14	1	.980	---
SS318-12	3/4	1-1/16-12	1-1/4	1.031	---
SS318-16	1	1-5/16-12	1-1/2	1.129	---
SS318-20	1-1/4				
SS318-24	1-1/2				
SS318-32	2				

SSP: JXN / PARKER: XBTX-SS / AEROQUIP: 259-1290-X

JIC CAP



PART	(A) FJIC SIZE	(A) THREAD	HEX	(L) LENGTH	LIST PRICE
SS304-C-04	1/4	7/16-20	9/16	.594	---
SS304-C-06	3/8	9/16-18	11/16	.625	---
SS304-C-08	1/2	3/4-16	7/8	.748	---
SS304-C-10	5/8	7/8-14	1	.842	---
SS304-C-12	3/4	1-1/16-12	1-1/4	.905	---
SS304-C-16	1	1-5/16-12	1-1/2	1.015	---

SSP: AJXZ / PARKER: X FNTX-SS / AEROQUIP: 259-210292-X

STRAIGHTS JIC FLARE 37°

316 STAINLESS STEEL ADAPTERS

MALE JIC UNION

PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2403-04-04	1/4	1/4	7/16-20	7/16-20	1.370	---
SS2403-05-05	5/16	5/16				
SS2403-06-04	3/8	1/4	9/16-18	7/16-20	1.401	---
SS2403-06-06	3/8	3/8	9/16-18	9/16-18	1.409	---
SS2403-08-04	1/2	1/4	3/4-16	7/16-20	1.511	---
SS2403-08-06	1/2	3/8	3/4-16	9/16-18	1.519	---
SS2403-08-08	1/2	1/2	3/4-16	3/4-16	1.618	---
SS2403-10-08	5/8	1/2	7/8-14	3/4-16	1.779	---
SS2403-10-10	5/8	5/8	7/8-14	7/8-14	1.881	---
SS2403-12-04	3/4	1/4	1-1/16-12	7/16-20	1.850	---
SS2403-12-06	3/4	3/8	1-1/16-12	9/16-18	1.850	---
SS2403-12-08	3/4	1/2	1-1/16-12	3/4-16	1.948	---
SS2403-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.161	---
SS2403-16-12	1	3/4	1-5/16-12	1-1/16-12	2.318	---
SS2403-16-16	1	1	1-5/16-12	1-5/16-12	2.251	---
SS2403-20-20	1-1/4	1-1/4				

SSP: JX-XU / PARKER: HTX-SS / AEROQUIP: 259-2027-X-X

MALE JIC X MALE NPT ADAPTER

PART	(A) MJIC SIZE	(B) MNPT SIZE	(A) MJIC THREAD	(B) MNPT THREAD	(L)	LIST PRICE
SS2404-04-02	1/4	1/8	7/16-20	1/8-27	1.220	---
SS2404-04-04	1/4	1/4	7/16-20	1/4-18	1.421	---
SS2404-04-06	1/4	3/8	7/16-20	3/8-18	1.421	---
SS2404-04-08	1/4	1/2	7/16-20	1/2-14	1.681	---
SS2404-06-04	3/8	1/4	9/16-18	1/4-18	1.429	---
SS2404-06-06	3/8	3/8	9/16-18	3/8-18	1.440	---
SS2404-06-08	3/8	1/2	9/16-18	1/2-14	1.688	---
SS2404-08-04	1/2	1/4	3/4-16	1/4-18	1.519	---
SS2404-08-06	1/2	3/8	3/4-16	3/8-18	1.531	---
SS2404-08-08	1/2	1/2	3/4-16	1/2-14	1.712	---
SS2404-08-12	1/2	3/4	3/4-16	3/4-14	1.850	---
SS2404-08-16	1/2	1	3/4-16	1-11 1/2	2.050	---
SS2404-10-08	5/8	1/2	7/8-14	1/2-14	1.889	---
SS2404-12-08	3/4	1/2	1-1/16-12	1/2-14	2.059	---
SS2404-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	---
SS2404-12-16	3/4	1	1-1/16-12	1-11 1/2	2.250	---
SS2404-16-08	1	1/2	1-5/16-12	1/2-14	2.100	---
SS2404-16-12	1	3/4	1-5/16-12	3/4-14	2.110	---
SS2404-16-16	1	1	1-5/16-12	1-11 1/2	2.299	---
SS2404-24-24	1-1/2	1-1/2				
SS2404-32-32	2	2				

SWAGELOK: SS-X-AN-1-X / SSP: JXC / PARKER: X FTX-SS / AEROQUIP 259-2021-X-X

MALE JIC X FEMALE NPT ADAPTER

PART	(A) MJIC SIZE	(B) FNPT SIZE	(A) MJIC THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS2405-04-04	1/4	1/4	7/16-20	1/4-18	1.389	---
SS2405-06-04	3/8	1/4	9/16-18	1/4-18	1.409	---
SS2405-06-06	3/8	3/8	9/16-18	3/8-18	1.470	---
SS2405-08-08	1/2	1/2	3/4-16	1/2-14	1.790	---
SS2405-12-12	3/4	3/4	1-1/16-12	3/4-14	2.059	---
SS2405-16-16	1	1	1-5/16-12	1-11 1/2	2.350	---
SS2405-20-20	1-1/4	1-1/4				

SSP: JX-XFC / PARKER: XXGTX-SS / AEROQUIP: 259-2022-X-X

STRAIGHTS JIC FLARE 37°

316 STAINLESS STEEL ADAPTERS

FEMALE JIC X MALE JIC (REDUCER-EXPANDER)



PART	(A) FJIC SIZE	(B) MJIC SIZE	(A) FJIC THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2406-06-04	3/8	1/4	9/16-18	7/16-20	1.118	---
SS2406-08-04	1/2	1/4	3/4-16	7/16-20	1.448	---
SS2406-08-06	1/2	3/8	3/4-16	9/16-18	1.311	---
SS2406-10-08	5/8	1/2	7/8-14	3/4-16	1.409	---
SS2406-12-04	3/4	1/4	1-1/16-12	7/16-20	1.500	---
SS2406-12-06	3/4	3/8	1-1/16-12	9/16-18	1.480	---
SS2406-12-08	3/4	1/2	1-1/16-12	3/4-16	1.559	---
SS2406-16-04	1	1/4	1-5/16-12	7/16-20	1.570	---
SS2406-16-06	1	3/8	1-5/16-12	9/16-18	1.578	---
SS2406-16-08	1	1/2	1-5/16-12	3/4-16	1.669	---
SS2406-16-12	1	3/4	1-5/16-12	1-1/16-12	1.877	---

SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

JIC PLUG



PART	(A) MJIC SIZE	(A) MJIC THREAD	HEX	(L)	LIST PRICE
SS2408-04	1/4	7/16-20	1/2	.799	---
SS2408-06	3/8	9/16-18	5/8	.838	---
SS2408-08	1/2	3/4-16	13/16	.940	---
SS2408-10	5/8	7/8-14	15/16	1.098	---
SS2408-12	3/4	1-1/16-12	1-1/8	1.279	---
SS2408-16	1	1-5/16-12	1-3/8	1.330	---
SS2408-20	1-1/4				

SSP: JXP / PARKER: XRNTX-SS / AEROQUIP: 259-900599-X

JIC UNION ELBOW



PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	LIST PRICE
SS2500-06-06	3/8	3/8			---

MALE JIC X MALE PIPE ELBOW



PART	JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
SS2501-04-02	1/4	1/8	---
SS2501-04-04	1/4	1/4	---
SS2501-04-06	1/4	3/8	---
SS2501-06-04	3/8	1/4	---
SS2501-06-06	3/8	3/8	---
SS2501-08-08	1/2	1/2	---
SS2501-12-12	3/4	3/4	---
SS2501-16-16	1	1	---

BULKHEAD FITTINGS

316 STAINLESS STEEL ADAPTERS

MALE JIC X FEMALE PIPE ELBOW

PART	JIC TUBE SIZE 1	FEMALE PIPE SIZE 2	LIST PRICE
SS2502-04-04	1/4	1/4	---
SS2502-06-06	3/8	3/8	---
SS2502-08-04	1/2	1/4	---
SS2502-08-06	1/2	3/8	---
SS2502-08-08	1/2	1/2	---
SS2502-10-08	5/8	1/2	---
SS2502-12-12	3/4	3/4	---
SS2502-16-12	1	3/4	---
SS2502-16-16	1	1	---

MALE JIC X MALE PIPE 45

PART	JIC TUBE SIZE 1	MALE PIPE SIZE 2	LIST PRICE
SS250342	1/4	1/4	---
SS2503-04-04	1/4	1/4	---
SS2503-06-04	3/8	1/4	---
SS2503-06-06	3/8	3/8	---
SS25030608	3/8	1/2	---
SS250384	1/2	1/4	---
SS2503-08-08	1/2	1/2	---
SS2503-10-08	5/8	1/2	---
SS2503-12-12	3/4	3/4	---
SS25031612	1	3/4	---
SS2503-16-16	1	1	---

JIC BULKHEAD TEE

PART	JIC TUBE SIZE 1	MALE PIPE SIZE 2	MALE PIPE SIZE 3	LIST PRICE
SS2603-04-04-04	1/4	1/4	1/4	---
SS2603-06-06-06	3/8	3/8	3/8	---
SS2603-08-08-08	1/2	1/2	1/2	---
SS2603-12-12-12	3/4	3/4	3/4	---
SS2603-16-16-16	1	1	1	---

JIC BULKHEAD NUT

PART	(A) BN SIZE	(A) THREAD	HEX	(L)	LIST PRICE
SS306-04	1/4	7/16-20	11/16	.279	---
SS306-06	3/8	9/16-18	13/16	.271	---
SS306-08	1/2	3/4-16	1	.311	---
SS306-10	5/8	7/8-14	1-1/8	.358	---
SS306-12	3/4	1-1/16-12	1-3/8	.409	---
SS306-16	1	1-5/16-12	1-5/8	.409	---

SSP: XBN / PARKER: XWLN-SS / AEROQUIP: 259-210212-X-X

BULKHEAD FITTINGS

316 STAINLESS STEEL ADAPTERS

MALE JIC BULKHEAD UNION



PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2700-04-04	1/4	1/4	7/16-20	7/16-20	2.070	---
SS2700-06-06	3/8	3/8	9/16-18	9/16-18	2.181	---
SS2700-08-08	1/2	1/2	3/4-16	3/4-16	2.440	---
SS2700-12-12	3/4	3/4	1-1/16-12	1-1/16-12	3.090	---
SS2700-16-16	1	1	1-5/16-12	1-5/16-12	3.141	---

SSP: JXBU / PARKER: XWTX-SS / AEROQUIP: 259-2041-X-X

FEMALE NPT X MALE JIC BULKHEAD CONNECTOR



PART	(A) FNPT SIZE	(B) MJIC SIZE	(A) FNPT THREAD	(B) MJIC THREAD	(L)	LIST PRICE
SS2705-04-04	1/4	1/4	1/4-18	7/16-20	2.078	---
SS2705-06-06	3/8	3/8	3/8-18	9/16-18	2.220	---
SS2705-08-08	1/2	1/2	1/2-14	3/4-16	2.610	---
SS2705-12-12	3/4	3/4	3/4-14	1-1/16-12	2.992	---
SS2705-16-16	1	1	1-11 1/2	1-5/16-12	3.228	---

SSP: JX-XBFC / PARKER: X-XWGTX-SS / AEROQUIP: 259-2239-X-X

PIPE FITTINGS

316 STAINLESS STEEL ADAPTERS

FEMALE PIPE BULKHEAD UNION

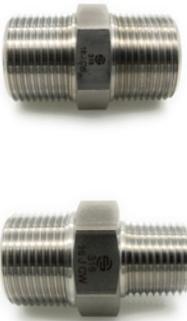
PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS2707-04-04	1/4	1/4	1/4-18	1/4-18	1.500	---
SS2707-06-06	3/8	3/8	3/8-18	3/8-18	1.311	---
SS2707-08-08	1/2	1/2	1/2-14	1/2-14	1.500	---

SSP: AXAC

HEX PIPE COUPLING

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS5000-02-02	1/8	1/8	1/8-27	1/8-27	.748	---
SS5000-04-04	1/4	1/4	1/4-18	1/4-18	1.129	---
SS5000-06-04	3/8	1/4	3/8-18	1/4-18	1.129	---
SS5000-06-06	3/8	3/8	3/8-18	3/8-18	1.129	---
SS5000-08-06	1/2	3/8	1/2-14	3/8-18	1.500	---
SS5000-08-08	1/2	1/2	1/2-14	1/2-14	1.500	---
SS5000-12-12	3/4	3/4	3/4-14	3/4-14	1.531	---
SS5000-16-08	1	1/2	1-11 1/2	1/2-14	1.889	---
SS5000-16-12	1	3/4	1-11 1/2	3/4-14	1.889	---
SS5000-16-16	1	1	1-11 1/2	1-11 1/2	1.889	---

SWAGELOK: SS-XHGG-X / SSP: XHC / PARKER: XGG-SS /
AEROQUIP: 259-2096-X-X

HEX PIPE NIPPLE

PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	L	LIST PRICE
SS5404-02-02	1/8	1/8	1/8-27	1/8-27	1.059	---
SS5404-04-02	1/4	1/8	1/4-18	1/8-27	1.259	---
SS5404-04-04	1/4	1/4	1/4-18	1/4-18	1.448	---
SS5404-06-04	3/8	1/4	3/8-18	1/4-18	1.448	---
SS5404-06-06	3/8	3/8	3/8-18	3/8-18	1.448	---
SS5404-08-04	1/2	1/4	1/2-14	1/4-18	1.700	---
SS5404-08-06	1/2	3/8	1/2-14	3/8-18	1.700	---
SS5404-08-08	1/2	1/2	1/2-14	1/2-14	1.889	---
SS5404-12-04	3/4	1/4	3/4-14	1/4-18	1.771	---
SS5404-12-06	3/4	3/8	3/4-14	3/8-18	1.771	---
SS5404-12-08	3/4	1/2	3/4-14	1/2-14	1.960	---
SS5404-12-12	3/4	3/4	3/4-14	3/4-14	1.960	---
SS5404-16-08	1	1/2	1-11 1/2	1/2-14	2.090	---
SS5404-16-12	1	3/4	1-11 1/2	3/4-14	2.149	---
SS5404-16-16	1	1	1-11 1/2	1-11 1/2	2.338	---

SWAGELOK: SS-X-HN-X / SSP: XHN / PARKER: X-XFF-SS /
AEROQUIP: 259-2083-X-X

PIPE NIPPLE

PART	(A) MNPT SIZE	(A) MNPT THREAD	(L)	LIST PRICE
SSCN-04	1/4	1/4-18	1.120	---
SSCN-06	3/8	3/8-18	1.125	---
SSCN-08	1/2	1/2-14	1.507	---
SSCN-12	3/4	3/4-14	1.500	---
SSCN-16	1	1-11 1/2	1.880	---
SSCN-20	1-1/4			

SWAGELOK: SS-X-CN / PARKER: X-X MCN-SS / AEROQUIP: 259-2083-X-X

STEEL PIPE FITTINGS

316 STAINLESS STEEL ADAPTERS

MALE NPT X FEMALE NPT EXPANDER



PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS5405-02-02	1/8	1/8	1/8-27	1/8-27	1.039	---
SS5405-02-04	1/8	1/4	1/8-27	1/4-18	1.208	---
SS5402-04-02	1/4	1/8	1/4-18	1/8-27		
SS5405-04-04	1/4	1/4	1/4-18	1/4-18	1.389	---
SS5405-04-06	1/4	3/8	1/4-18	3/8-18	1.440	---
SS5405-04-08	1/4	1/2	1/4-18	1/2-14	1.681	---
SS5405-06-06	3/8	3/8	3/8-18	3/8-18	1.440	---
SS5405-06-08	3/8	1/2	3/8-18	1/2-14	1.681	---
SS5405-06-12	3/8	1/2	3/8-18	3/4-14	1.740	---
SS5405-08-08	1/2	1/2	1/2-14	1/2-14	1.870	---
SS5405-08-12	1/2	3/4	1/2-14	3/4-14	1.929	---
SS5405-08-16	1/2	1	1/2-14	1-11 1/2	2.181	---
SS5405-12-12	3/4	3/4	3/4-14	3/4-14	1.929	---
SS5405-12-16	3/4	1	3/4-14	1-11 1/2	2.181	---
SS5405-16-16	1	1	1-11 1/2	1-11 1/2	2.370	---

SWAGELOK: SS-X-RA-X / SSP: XXXRA / PARKER: X-XFG-SS / AEROQUIP: 259-2040-X-X

MALE NPT X FEMALE NPT BUSHING/ REDUCER



PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)	LIST PRICE
SS5406-04-02	1/4	1/8	1/4-18	1/8-27	.850	---
SS5406-06-04	3/8	1/4	3/8-18	1/4-18	.850	---
SS5406-08-04	1/2	1/4	1/2-14	1/4-18	1.098	---
SS5406-08-06	1/2	3/8	1/2-14	3/8-18	1.098	---
SS5406-12-04	3/4	1/4	3/4-14	1/4-18	1.169	---
SS5406-12-06	3/4	3/8	3/4-14	3/8-18	1.169	---
SS5406-12-08	3/4	1/2	3/4-14	1/2-14	1.169	---
SS5406-16-04	1	1/4	1-11 1/2	1/4-18	.940	---
SS5406-16-06	1	3/8	1-11 1/2	3/8-18	.940	---
SS5406-16-08	1	1/2	1-11 1/2	1/2-14	.940	---
SS5406-16-12	1	3/4	1-11 1/2	3/4-14	.940	---
SS5406-20-12	1-1/4	3/4	1-1/4-11 1/2	3/4-14	1.47	---
SS5406-20-16	1-1/4	1	1-1/4-11 1/2			

SWAGELOK: SS-XRB-X / SSP: XXXRA / PARKER: XXXPTR-SS / AEROQUIP: 259-2081-X-X

HEX PIPE PLUG



PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	LIST PRICE
SS5406-P-04	1/4	1/4-18	9/16	.751	.850	---
SS5406-P-06	3/8	3/8-18	11/16	.779	.850	---
SS5406-P-08	1/2	1/2-14	7/8	1.118	1.098	---
SS5406-P-12	3/4	3/4-14	1-1/8	1.169	1.098	---
SS5406-P-16	1	1-11 1/2	1-3/8	1.397	1.169	---

SWAGELOK: SS-X-P / SSP: XXXRA / PARKER: X-HHP-SS / AEROQUIP: 259-2082-X

HOLLOW HEX PIPE PLUG



PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)	LIST PRICE
SS5406-HHP-04	1/4	1/4-18	1/4	.460	.850	---
SS5406-HHP-06	3/8	3/8-18	5/16	.460	.850	---
SS5406-HHP-08	1/2	1/2-14	3/8	.610	1.098	---
SS5406-HHP-12	3/4	3/4-14	9/16	.618	1.098	---
SS5406-HHP-16	1	1-11 1/2	5/8	.771	1.169	---

SWAGELOK: SS-X-HP / SSP: XCP / PARKER: X-HP-SS / AEROQUIP: 259-2222-X

STEEL PIPE FITTINGS

316 STAINLESS STEEL ADAPTERS

HEX PIPE CAP

PART	(A) FNPT SIZE	(A) FNPT THREAD	HEX	(L)	LIST PRICE
SS5406-C-04	1/4	1/4-18	3/4	.811	---
SS5406-C-06	3/8	3/8-18	7/8	.811	---
SS5406-C-08	1/2	1/2-14	1	1.000	---
SS5406-C-12	3/4	3/4-14	1-5/16	1.129	---
SS5406-C-16	1	1-11 1/2	1-5/8	1.500	---

SWAGELOK: SS-X-C / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE PIPE ELBOW 90°

PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(L)	LIST PRICE
SS5500-02-02	1/8	1/8	1/8-27	1/8-27	.748	---
SS5500-04-04	1/4	1/4	1/4-18	1/4-18	1.129	---
SS5500-06-06	3/8	3/8	3/8-18	3/8-18	1.129	---
SS5500-08-08	1/2	1/2	1/2-14	1/2-14	1.129	---
SS5500-12-12	3/4	3/4	3/4-14	3/4-14	1.500	----
SS5500-16-16	1	1	1-11 1/2	1-11 1/2	1.500	---

SWAGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE NPT X FEMALE NPT STREET ELBOW 90°

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	LIST PRICE
SS5502-02-02	1/8	1/8	1/8-27	1/8-27	---
SS5502-04-04	1/4	1/4	1/4-18	1/4-18	---
SS5502-06-06	3/8	3/8	3/8-18	3/8-18	---
SS5502-08-08	1/2	1/2	1/2-14	1/2-14	---
SS5502-12-12	3/4	3/4	3/4-14	3/4-14	---
SS5502-16-16	1	1	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

MALE NPT X FEMALE NPT STREET ELBOW 45°

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	LIST PRICE
SS5503-04-04	1/4	1/4	1/4-18	1/4-18	---

STEEL PIPE FITTINGS

316 STAINLESS STEEL ADAPTERS

FEMALE PIPE ELBOW 90°



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	LIST PRICE
SS5504-02-02	1/8	1/8	1/8-27	1/8-27	---
SS5504-04-04	1/4	1/4	1/4-18	1/4-18	---
SS5504-06-06	3/8	3/8	3/8-18	3/8-18	---
SS5504-08-08	1/2	1/2	1/2-14	1/2-14	---
SS5504-12-12	3/4	3/4	3/4-14	3/4-14	---
SS5504-16-16	1	1	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-E / SSP: XFF / PARKER: XDD-SS / AEROQUIP: 259-2087-X-X

MALE PIPE TEE



PART	(A) MNPT SIZE	(B) MNPT SIZE	(C) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(C) MNPT THREAD	LIST PRICE
SS5600-02-02-02	1/8	1/8	1/8				
SS5600-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	---
SS5600-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	---
SS5600-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	---
SS5600-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	---
SS5600-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-MT / SSP: XMMM / PARKER: XRRS-SS / AEROQUIP: 259-2257-X-X

MALE RUN TEE



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	LIST PRICE
SS5602-04-04	1/4	1/4	1/4-18	1/4-18	---
SS5602-08-08	1/2	1/2	1/2-14	1/2-14	---
SS5602-16-16	1	1	1-11 1/2	1-11 1/2	---

FEMALE PIPE TEE



PART	(A) FNPT SIZE	(B) FNPT SIZE	(C) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(C) FNPT THREAD	LIST PRICE
SS5605-02-02-02	1/8	1/8	1/8	1/8-27	1/8-27	1/8-27	---
SS5605-04-04-04	1/4	1/4	1/4	1/4-18	1/4-18	1/4-18	---
SS5605-06-06-06	3/8	3/8	3/8	3/8-18	3/8-18	3/8-18	---
SS5605-08-08-08	1/2	1/2	1/2	1/2-14	1/2-14	1/2-14	---
SS5605-12-12-12	3/4	3/4	3/4	3/4-14	3/4-14	3/4-14	---
SS5605-16-16-16	1	1	1	1-11 1/2	1-11 1/2	1-11 1/2	---

SWAGELOK: SS-X-T / SSP: XFF / PARKER: XMMO-SS / AEROQUIP: 259-2090-X-X

SAE O-RING BOSS (ORB)

316 STAINLESS STEEL ADAPTERS

MALE JIC X MALE SAE O-RING BOSS

PART	(A) MJIC SIZE	(B) MORB SIZE	(A) MJIC THREAD	(B) MORB THREAD	(L)	
SS6400-04-04	1/4	1/4	7/16-20	7/16-20	1.228	---
SS6400-04-06	1/4	3/8	7/16-20	9/16-18	1.291	---
SS6400-04-08	1/4	1/2	7/16-20	3/4-16		
SS6400-06-05	3/8	5/16	9/16-18			
SS6400-06-06	3/8	3/8	9/16-18	9/16-18	1.299	---
SS6400-06-08	3/8	1/2	9/16-18	3/4-16	1.377	---
SS6400-06-10	3/8	5/8	9/16-18	7/8-14	1.500	---
SS6400-08-06	1/2	3/8	3/4-16	9/16-18	1.440	---
SS6400-08-08	1/2	1/2	3/4-16	3/4-16	1.488	---
SS6400-08-10	1/2	5/8	3/4-16	7/8-14	1.598	---
SS6400-08-12	1/2	3/4	3/4-16	1-1/16-12	1.759	---
SS6400-12-08	3/4	1/2	1-1/16-12	3/4-16	1.940	---
SS6400-12-12	3/4	3/4	1-1/16-12	1-1/16-12	1.968	---
SS6400-12-16	3/4	1	1-1/16-12	1-5/16-12	1.988	---
SS6400-16-12	1	3/4	1-5/16-12	1-1/16-12	2.039	---
SS6400-16-16	1	1	1-5/16-12	1-5/16-12	2.039	---
SS6400-16-20	1	1-1/4	1-5/16-12			
SS6400-20-20	1-1/4	1-1/4				

SWAGELOK: SS-X-SAE-1-XAN / SSP: JXGC / PARKER: XF50X-SS / AEROQUIP: 259-202702-X-X

MALE SAE O-RING BOSS X FEMALE JIC SWIVEL

PART	(A) MORB SIZE	(B) FJIC SIZE	(A) MORB THREAD	(B) FJIC THREAD	(L)	
SS6402-04-04	1/4	1/4	7/16-20	7/16-20	1.625	---
SS6402-06-06	3/8	3/8	9/16-18	9/16-18	1.842	---
SS6402-08-08	1/2	1/2	3/4-16	3/4-16	2.078	---
SS6402-12-12	3/4	3/4	1-1/16-12	1-1/16-12	2.582	---
SS6402-16-16	1	1	1-5/16-12	1-5/16-12	2.807	---

SSP: JSX6C / PARKER: XF650X-SS / AEROQUIP: 259-2266-X-X

MALE SAE O-RING BOSS X FEMALE NPT

PART	(A) MORB SIZE	(B) FNPT SIZE	(A) MORB THREAD	(B) FNPT SIZE	(L)	LIST PRICE
SS6405-04-04	1/4	1/4	7/16-20	1/4-18	1.161	---
SS6405-06-04	3/8	1/4	9/16-18	1/4-18	1.090	---
SS6405-06-06	3/8	3/8	9/16-18	3/8-18	1.330	---
SS6405-08-08	1/2	1/2	3/4-16	1/2-14	1.468	---
SS6405-12-08	3/4	1/2	1-1/16-12	1/2-14	1.409	---
SS6405-12-12	3/4	3/4	1-1/16-12	3/4-14	1.590	---
SS6405-16-16	1	1	1-5/16-12	1-11 1/2	1.897	---

SWAGELOK: SS-X-SAE-7-X / SSP: XXXGCF / PARKER: XXX-F50G-SS / AEROQUIP: 259-2216-X-X

SAE O-RING BOSS (ORB)

316 STAINLESS STEEL ADAPTERS

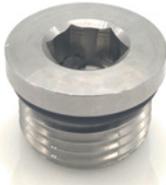
MALE SAE O-RING BOSS HEX PLUG



PART	(A) MORB SIZE	(A) MORB THREAD	HEX	(L)	LIST PRICE
SS6408-04	1/4	7/16-20	9/16	.669	---
SS6408-06	3/8	9/16-18	11/16	.728	---
SS6408-08	1/2	3/4-16	7/8	.779	---
SS6408-10	5/8	7/8-14	1"	.929	---
SS6408-12	3/4	1-1/16-12	1-1/4	1.090	---
SS6408-16	1	1-5/16-12	1-1/2	1.118	---

SWAGELOK: SS-X-HPST / SSP: XCGP /
PARKER: XHP50N-SS / AEROQUIP: 259-FF2138-X

MALE SAE O-RING BOSS HOLLOW HEX PLUG



PART	(A) MORB SIZE	(A) MORB THREAD	HEX SIZE	(L)	LIST PRICE
SS6408-HH-02	1/8	5/16-24	1/8	.401	---
SS6408-HH-04	1/4	7/16-20	3/16	.468	---
SS6408-HH-06	3/8	9/16-18	1/4	.500	---
SS6408-HH-08	1/2	3/4-16	5/16	.578	---
SS6408-HH-10	5/8	7/8-14	3/8	.649	---
SS6408-HH-12	3/4	1-1/16-12	9/16	.767	---
SS6408-HH-16	1	1-5/16-12	5/8	.767	---

SWAGELOK: SS-X-PST / SSP: XGP / PARKER: XP50N-SS /
AEROQUIP: 259-900598-X

MALE JIC X FEMALE JIC 90



PART	JIC TUBE SIZE 1	JIC FEMALE SWIVEL SIZE 2	LIST PRICE
SS6500-04-04	1/4	1/4	---
SS6500-06-06	3/8	3/8	---
SS6500-08-08	1/2	1/2	---
SS6500-10-10	5/8	5/8	---
SS6500-12-12	3/4	3/4	---
SS6500-16-16	1	1	---
SS6500-20-20	1-1/4	1-1/4	---

MALE PIPE X FEMALE JIC 90



PART	MNPT SIZE 1	JIC FEMALE SWIVEL SIZE 2	LIST PRICE
SS6501-04-04	1/4	1/4	---
SS6501-04-06	1/4	3/8	---

FEMALE JIC SWIVELS

316 STAINLESS STEEL ADAPTERS

MALE JIC X FEMALE JIC SWIVEL 45

PART	JIC TUBE SIZE 1	JIC FEMALE SWIVEL SIZE 2	LIST PRICE
SS6502-04-04	1/4	1/4	---
SS6502-06-06	3/8	3/8	---
SS6502-08-08	1/2	1/2	---
SS6502-10-10	5/8	5/8	---
SS6502-12-12	3/4	3/4	---
SS6502-16-16	1	1	---
SS6502-20-20	1-1/4	1-1/4	---

MALE NPT X FEMALE JIC SWIVEL

PART	(A) MNPT SIZE	(B) FJIC SIZE	(A) MNPT THREAD	(B) FJIC THREAD	(L)	LIST PRICE
SS6505-04-04	1/4	1/4	1/4-18	7/16-20	1.807	---
SS6505-06-06	3/8	3/8	3/8-18	9/16-18	1.952	---
SS6505-08-08	1/2	1/2	1/2-14	3/4-16	2.358	---
SS6505-12-12	3/4	3/4	3/4-14	1-1/16-12	2.668	---
SS6505-16-16	1	1	1-11 1/2	1-5/16-12	3.055	---

SWAGelok: JSX-XC / PARKER: XXXF6X-SS / AEROQUIP: 259-2018-X-X

FEMALE NPT X FEMALE JIC SWIVEL

PART	(A) FNPT SIZE	(B) FJIC SIZE	(A) FNPT THREAD	(B) FJIC THREAD	(L)	LIST PRICE
SS6506-04-04	1/4	1/4	1/4-18	7/16-20	1.862	---
SS6506-06-06	3/8	3/8	3/8-18	9/16-18	2.011	---
SS6506-08-08	1/2	1/2	1/2-14	3/4-16	2.389	---
SS6506-12-12	3/4	3/4	3/4-14	1-1/16-12	2.673	---
SS6506-16-16	1	1	1-11 1/2	1-5/16-12	3.114	---

SWAGelok: JSX-XFC / PARKER: X-XG6X-SS / AEROQUIP: 259-2242-X-X

FEMALE JIC X FEMALE JIC

PART	(A) FNPT SIZE	(B) FJIC SIZE	(A) FNPT THREAD	(B) FJIC THREAD	(L)	LIST PRICE
SS6565-04-04	1/4	1/4	1/4-18	7/16-20	1.862	---
SS6565-06-06	3/8	3/8	3/8-18	9/16-18	2.011	---
SS6565-08-08	1/2	1/2	1/2-14	3/4-16	2.389	---
SS6565-12-12	3/4	3/4	3/4-14	1-1/16-12	2.673	---

FEMALE JIC SWIVELS

316 STAINLESS STEEL ADAPTERS

MALE JIC X MALE ORB ELBOW



PART	(A) FNPT SIZE	(B) FJIC SIZE	(A) FNPT THREAD	(B) FJIC THREAD	(L)	LIST PRICE
SS6801-04-04	1/4	1/4				---
SS6801-04-06	1/4	3/8				---
SS6801-04-08	1/4	1/2				---
SS6801-06-04	3/8	1/4				---
SS6801-06-06	3/8	3/8				---
SS6801-06-08	3/8	1/2				
SS6801-08-06	1/2	3/8				
SS6801-08-08	1/2	1/2				
SS6801-08-10	1/2	5/8				
SS6801-08-12	1/2	3/4				
SS6801-08-16	1/2	1				
SS6801-12-12	3/4	3/4				
SS6801-16-16	1	1				

JIC TO O-RING 45° ELBOW



PART	JIC TUBE SIZE 1	O-RING SIZE 2	LIST PRICE
SS6802-04-04	1/4	1/4	---
SS6802-06-06	3/8	3/8	---
SS6802-08-08	1/2	1/2	---
SS6802-12-12	3/4	3/4	---
SS6802-16-16	1	1	---

FEMALE JIC TO WELD-ON



PART	JIC TUBE SIZE 1	WELD-ON SIZE 2	LIST PRICE
SSWO-04FJ	1/4	1/4	---
SSWO-06FJ	3/8	3/8	---
SSWO-08FJ	1/2	1/2	---
SSWO-12FJ	3/4	3/4	---
SSWO-16FJ	1	1	---
SSWO-20FJ	1-1/4	1-1/4	---
SSWO-24FJ	1-1/2	1-1/2	
SSWO-32FJ	2	2	

CRIMP HOSE FITTINGS

316 STAINLESS STEEL ADAPTERS

STRAIGHT MALE NPT PIPE - RIGID

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	(L)	LIST PRICE
SS43-04-04MP	-04	1/4	-04	1/4-18	1.862	---
SS43-04-06MP	-04	1/4	-06	3/8-18	2.011	---
SS43-06-04MP	-06	3/8	-04	1/4-18	2.389	---
SS43-06-06MP	-06	3/8	-06	3/8-18	2.673	---
SS43-08-08MP	-08	1/2	-08	1/2-14	3.114	---
SS43-10-08MP	-10	5/8	-08	1/2-14	1.590	---
SS43-12-12MP	-12	3/4	-12	3/4-14	1.897	---
SS43-16-16MP	-16	1	-16	1-11-1/2		---

PARKER: 10143-X-XC

STRAIGHT FEMALE JIC - SWIVEL

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	(L)	LIST PRICE
SS43-04-04FJ	-04	1/4	-04	7/16-20	1.862	---
SS43-04-06FJ	-04	1/4	-06	9/16-18	2.011	---
SS43-06-04FJ	-06	3/8	-04	7-16-20	2.389	---
SS43-06-06FJ	-06	3/8	-06	9/16-18	2.673	---
SS43-06-08FJ	-06	3/8	-08	3/4-16	3.114	---
SS43-08-08FJ	-08	1/2	-08	3/4-16	1.590	---
SS43-08-10FJ	-08	1/2	-10	7/8-14	1.897	---
SS43-10-10FJ	-10	5/8	-10			
SS43-12-12FJ	-12	3/4	-12			
SS43-16-16FJ	-16	1	-16			

PARKER: 10643-X-XC

90 DEGREE FEMALE JIC - SWIVEL

PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	LIST PRICE
SS43-04-04FJ90	-04	1/4	-04	7/16-20	---
SS43-04-06FJ90	-04	1/4	-06	9/16-18	---
SS43-06-06FJ90	-06	3/8	-06	9/16-18	---
SS43-08-08FJ90	-08	1/2	-08	3/4-16	---
SS43-12-12FJ90	-12	3/4	-12	1-1/16-12	---
SS43-16-16FJ90	-16	1	-16	1-5/16-12	---

PARKER: 10143-X-XC

CRIMP HOSE FITTINGS

316 STAINLESS STEEL ADAPTERS

45 DEGREE FEMALE JIC - SWIVEL



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	LIST PRICE
SS43-04-04FJ45	-04	1/4	-04	7/16-20	---
SS43-04-06FJ45	-04	1/4	-06	9/16-18	---
SS43-06-06FJ45	-06	3/8	-06	9/16-18	---
SS43-08-08FJ45	-08	1/2	-08	3/4-16	---
SS43-12-12FJ45	-12	3/4	-12	1-1/16-12	---

STRAIGHT MALE NPT - API



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD	LIST PRICE
BW-16-16API-C	-16	1	-16	1-11 1/2	----

PRODUCT SPECIFICATIONS - BW SERIES MALE API BOP CRIMP FITTING

PART	O.D. (INCHES)	I.D. (INCHES)	LENGTH (INCHES)	LIST PRICE
BOPF-C	2.360	2.225	5.195	----

PRODUCT SPECIFICATIONS - BW SERIES MALE API BOP CRIMP FERRULE

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840288	482	880404C	158	940131	279	940300	247
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SS5406-P-08	587	SS6500-04-04	591	TLB-100	445		
SS5406-P-12	587	SS6500-06-06	591	TLB-125	445		
SS5406-P-16	587	SS6500-08-08	591	TLB-150	445		
SS5500-02-02	588	SS6500-10-10	591	TLB-200	445		
SS5500-04-04	588	SS6500-12-12	591	TLB-250	445		

Standard Terms and Conditions of Sale

Any order by a person ("Buyer") for goods (an "Order"), if accepted, is accepted subject to these Midland Industries Standard Terms and Conditions of Sale ("T&Cs"), which are incorporated into any acceptance, acknowledgement, invoice and other document issued by Midland Industries ("Seller") in response to such Order (each a "Response"), and any reference thereto shall include these T&Cs. No waiver, alteration, or modification of these T&Cs shall be valid unless expressly agreed to in writing by Seller. The T&Cs constitute the entire agreement between the parties and any different, additional or conflicting terms or conditions set forth in Buyer's purchase order or any other document issued by Buyer are expressly objected to by Seller and the terms hereof, including those contained in the applicable Response, shall exclusively govern the purchase and sale of the goods covered by the Response unless there is another manually signed agreement between the parties, which shall control to the extent there is a conflict between the terms of such agreement and these T&Cs.

Payment Terms. Payment terms are 2%-10days/net 30 on approved accounts in good standing and shall be paid in United States dollars. The 2% discount terms is for purchased goods only-there is no discount off of freight. Any additional discounts taken will be charged back to the account, and is due by the customer. The allowed discount amount is stated on each invoice. Shipment may be held if account is past due. Buyer agrees that any overdue amounts shall be subject to a late payment charge on the overdue balance of 1.5% per month or such lesser amount as is the maximum rate of interest allowed by law. Buyer shall pay any and all reasonable costs, including attorneys' fees, incurred by Seller while collecting any delinquent balance. Debit memos are not accepted unless approved.

Price. The Seller list or quoted price is subject to change without notice. The goods are invoiced at prices in effect on date of shipment. Prices do not include taxes, if any, based upon or measured by the sales price, which taxes will be added to the prices where applicable. Any taxes which Seller may be required to pay or collect, upon or with respect to the sale, purchase, delivery, storage, processing, use, or transportation of the goods purchased hereunder, shall be for Buyer's account, and shall be paid promptly by Buyer to Seller upon demand.

Delivery Terms. All goods are sold FOB our shipping USA locations. Title and risk of loss passes to the buyer upon delivery to the carrier. Freight is prepaid via the carrier of our choice on orders totaling \$1,500 or more to any destination in the USA. Backorders for items from prepaid orders that are marked in our price list as "stock" items will be shipped prepaid along with upcoming prepaid orders when possible. Non-stocked or special-ordered items will be shipped when available. Buyer is responsible for costs associated with shipment upon acceptance if so assigned based on freight classification (*i.e.*, "prepaid" or FOB)

Title/Security. Unless a conditional sale is noted in this Agreement, title to the goods covered by this Agreement shall pass to Buyer upon delivery to carrier. Buyer hereby grants Seller and Seller hereby reserves a purchase money security interest in and to the goods sold to Buyer together with all proceeds thereof to secure Buyer's performance and payment. Buyer agrees upon Seller's request to do all acts and execute all documents reasonably necessary to assist Seller's perfection and maintenance of any such security title and right of possession, including, but not limited to, executing and filing documents with the appropriate governmental agency.

Orders. (A) Domestic (USA) Sales. Buyer shall submit a purchase order ("Purchase Order") for the goods which shall, at minimum, include: (a) part number of the goods ordered; (b) quantity; (c) price of the goods; (d) requested delivery date; and (e) shipping instructions and shipping address, including a statement that the goods will be shipped in accordance with these T&Cs. All Purchase Orders are subject to acceptance by Seller. Buyer shall be responsible for all additional costs resulting from errors made in connection with telephone, online, or hand written Purchase Orders accepted by Seller and any errors related to such a Purchase Order must be disputed within 1 hour from Seller's receipt of the Purchase Order. Confirming Purchase Orders are not accepted by Seller. If such a confirming Purchase Order is sent to Seller, it may be treated as an original open Order and duplicated. Seller will not be responsible for expenses or inconveniences incurred thereby. If Buyer's Order is in the form of a blanket Purchase Order, Buyer agrees that each release shall be treated as a separate sales transaction hereunder, that all releases shall be non-cancelable and, unless agreed in writing by Seller, all releases under such blanket Purchase Order shall be accepted by Buyer within 12 months of Seller's Order acknowledgement. If the aggregate purchase price of goods pursuant to a Purchase Order is under \$50, or such other amount that is agreed to from time to time by the parties, then the cost of such goods shall be rounded up to that minimum order value.

Order Cancellation/Amendment. Orders cannot be canceled or amended except with Seller's consent. Cancellation charges may be applied at Seller's discretion. Seller may, in its sole discretion and without liability, alter the specifications for any goods.

Acceptance. Buyer shall conduct any incoming inspection tests on the goods within 5 days of delivery. In the event of any shortage, damage or discrepancy in or to a shipment of goods or pricing discrepancies, Buyer shall promptly give notice, but in no event later than within 15 days of delivery thereof to Seller and shall furnish such written evidence or other documentation as Seller reasonably may deem appropriate. If such evidence indicates, in Seller's reasonable judgment, that such shortage, damage or discrepancy existed at the time of delivery of the goods to the carrier, Seller shall promptly deliver additional or substitute goods to Buyer; provided, however, that Seller may, in its sole discretion, require Buyer to return all damaged goods prior to delivery of substitute goods. If Buyer shall fail to timely give Seller such written notice, the goods shall be deemed to conform to the warranty and Buyer shall be deemed to have accepted the goods and shall pay for the goods in accordance herewith.

Termination. Seller shall have the right to cancel for default hereunder all or any part of Buyer's order. This right of cancellation is in addition to and not in lieu of any other remedies which Seller may have in law or equity.

Returns. Returns without the proper paperwork will not be accepted. Once the return paperwork has been received by the buyer, that return goods authorization will expire in 30 days. No goods shall be returned to Seller without Seller's prior written authorization to Buyer to make such returns and must be returned within 30 days of such authorization at Buyer's cost. If Buyer returns goods in the manner required under the previous sentence, and if the returned goods are (a) in new, unused, unopened and undamaged condition; and (b) not more than 12 months after the original invoice date; the returned goods will, subject to the applicable handling charge, be accepted by Seller for return. Used or discontinued goods or parts or goods specially manufactured will not be accepted for credit unless specifically agreed to by Seller in its sole discretion. Buyer's sole remedy for returns of goods shall be a credit for the purchase price less any handling charges. Normal returned goods are subject to a 10% restocking fee. Some returns, such as inventory returns, are subject to a 25% restocking fee, unless otherwise approved by Midland. Returns found to be free of material and workmanship defects will be held for 20 days and if Buyer does not provide Seller repair or return instructions, the Seller will scrap the goods.

Buyer's Specifications. Buyer shall be solely responsible for ensuring that all specifications, drawings, information, advice, recommendations or requests provided to Seller by Buyer or any of its agents are accurate and suitable. Seller's examination or consideration of any such specifications, drawings, information, advice, recommendations or requests shall not result in any liability on the part of Seller.

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Seller Warranty. Seller warrants that goods sold hereunder are warranted to be free from defects in material and workmanship for a period of one year from the date of invoice when used according to the manufacturer's recommended usage and in an ordinary manner. Seller's liability for breach of this warranty is limited to the repair of or replacement in kind or credit, at Seller's option, of any items proved defective, in Seller's reasonable discretion, provided the allegedly defective goods are returned to Seller prepaid. All costs and expense related to shipping of any replacement parts or goods shall be paid by Seller if there is a breach of this warranty but Buyer shall pay for all installation costs. Buyer must provide prompt written notice to Seller of any breach of this warranty to obtain its benefits. THE WARRANTY EXPRESSED ABOVE IS IN LIEU OF AND EXCLUSIVE OF ALL OTHER WARRANTIES. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, EXCEPT AS STATED HEREIN. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED. SELLER'S LIABILITY FOR BREACH OF WARRANTY IS AS HEREIN STATED AND IS THE EXCLUSIVE REMEDY AND IN NO EVENT SHALL SELLER BE LIABLE OR RESPONSIBLE FOR INCIDENTAL, SPECIAL, INDIRECT, PUNITIVE, OR CONSEQUENTIAL DAMAGES OR LOST PROFITS, OR EVEN IF THE POSSIBILITY OF SUCH INCIDENTAL, SPECIAL, INDIRECT, PUNITIVE OR CONSEQUENTIAL DAMAGES, OR LOST PROFITS HAS BEEN MADE KNOWN TO SELLER. THE WARRANTY SET FORTH ABOVE IS SOLELY FOR THE BENEFIT OF BUYER. **All claims hereunder shall be made by Buyer and not by Buyer's customers.** It shall not be deemed a "defect," and Seller will not be liable under the warranty in this Section 11, if the goods have been exposed to any: (1) maintenance, repair, or other use that is improper for the good's ordinary use or otherwise not in compliance with Seller's instruction; (2) goods alteration, modification or repair by anyone other than Seller or authorized by Seller; (3) damage after shipment to Buyer; (4) improper voltage or wiring; or (5) use of parts that are not 100% compatible with the goods.

Buyer Warranty. Buyer shall provide a no defect in materials or workmanship warranty with respect to each product sold to an end customer for a period not less than the then remaining warranty period related to such product and afforded to Buyer pursuant to Section (Seller Warranty) above. Except with respect to the remedies provided by Seller to Buyer under Section (Seller Warranty), any other warranties or representations, or remedies for breach thereof, which Buyer may provide to its end customers shall be the sole responsibility of Buyer, and Seller shall not be bound thereby. Unless Buyer receives Seller's prior written consent, Buyer will not sell Seller's products to end-users or intermediaries that sell to end-users that will use or sell the products in a nuclear or in-aircraft application or for any other application that Seller may notify Buyer of in writing.

Damages Amount Limitation. Other than as set forth in Section (Buyer Indemnification) and any breaches of Section (Confidentiality) hereof, Seller's cumulative liability for damages to Buyer for any cause whatsoever, and regardless of the form of action, whether in contract or in tort, including, but not limited to, negligence, shall be limited to the total contract price of the goods sold hereunder, plus or minus, as applicable, the amounts of all unpaid accounts payable and receivable between the parties, if any.

Damages Limitation. In no event shall Seller's liability of any kind include any special, indirect, incidental or consequential loss or damage or lost profits, even if Seller shall have been advised of the possibility of such potential loss or damage.

Sole Remedy. The sole and exclusive remedy for breach of any non-warranty obligation of Seller and the sole remedy for Seller's liability of any kind (including liability for negligence) with respect to the goods and services provided to Buyer shall be to use all commercially reasonable efforts to promptly cure such breach. Buyer must commence any suit for a cause of action arising hereunder within one year from the date in which the facts that gave rise to the cause of action first occurred.

Buyer Indemnification. Buyer shall hold harmless, indemnify and defend (at Seller's request) Seller for any and all damages, liabilities, costs and expenses (including any costs of litigation, including but not limited to, attorneys' fees and any other costs and expenses), fines, or losses in connection with any threatened or actual claims, actions, demands, investigations, or suits, including, but not limited to, claims or suits by third parties, arising out of any of the following: (a) Buyer's negligent or willful acts, or those of its employees and/or agents, (b) such goods being repaired or altered by persons other than Seller (unless expressly authorized in writing by Seller), (c) in the event that Buyer modifies, or combines with any non-Seller goods, any of the goods purchased from Seller, and such modification or combination results in the actual or alleged infringement of any intellectual property rights of any third party, (d) from goods produced by Seller according to Buyer's specifications, (e) any violations of export control laws by Buyer, or (f) Buyer's breach of any provision in these T&Cs.

Confidentiality. "Confidential Information" means any of Seller's business information, specifications and all related writings, drawings, designs and similar works or any other information which is disclosed by Seller and labeled or marked as confidential, proprietary or its equivalent, or oral or visual information that is designated confidential, proprietary or its equivalent at the time of its disclosure. All Confidential Information shall be the exclusive property of Seller, and Seller retains all its right, title and interest. Buyer agrees to use Confidential Information for the exclusive purpose of performance under the Purchase Order and not to disclose or provide any Confidential Information to any third party and to take all necessary measures to prevent any such disclosure by its employees, agents, contractors or consultants. Upon request of Seller or completion of the Order, Buyer shall return all Confidential Information to Seller and provide certification of such return.

Tooling. Charges made for tools, dies, gauges, jigs, fixtures or equipment made or acquired by Seller in connection with the work do not convey title to or any proprietary interest in such tools. All such tools will remain the exclusive property of Seller.

Force Majeure. Seller shall not be liable for any failure to perform this agreement when such failure is due to circumstances beyond its control. Circumstances beyond the control of Seller shall be deemed to include, but shall not be limited to, acts of God, governmental action, accidents, labor trouble, and inability to obtain materials, equipment or transportation.

Waiver. No oral statements, recommendations or assistance given by a representative and/or distributor of Seller to Buyer or its representatives in connection with the use of the goods shall constitute a waiver by Seller of any of the provisions hereof, or affect Seller's liability herein.

Arbitration. Except for any action where the sole relief sought is an injunction, any controversy or claim arising out of or relating to these T&Cs, or the making, performance or interpretation thereof, including without limitation alleged fraudulent inducement thereof, shall be settled by binding arbitration in the city of Seller's choosing in the state of Seller's business address as shown on the Response, by one arbitrator in accordance with the Commercial Arbitration Rules of the American Arbitration Association. Judgment upon any arbitration award may be entered in any court having jurisdiction thereof.

Representation of Buyer. Buyer is duly organized, validly existing and in good standing under the laws of the state of its formation and has full corporate power and authority to own, operate or lease the properties and assets now owned, operated or leased by it and to carry on its business as currently conducted. Buyer is duly licensed or qualified to do business and is in good standing in each jurisdiction in which such licensing or qualification is necessary. The execution and delivery by Buyer of this Agreement, the performance by Buyer of its obligations hereunder and thereunder and the consummation by Buyer of the transactions contemplated

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hereby have been duly authorized by all requisite corporate action on the part of Buyer, and this Agreement constitutes a legal, valid and binding obligation of Buyer enforceable against Buyer in accordance with its terms.

Risk of Loss. Commencing at the time of delivery, Buyer shall bear all risk of loss, damage, destruction, theft and condemnation to or of the Equipment from any cause whatsoever.

Events of Default. Each of the following events is an "Event of Default" under this Agreement: (a) if Buyer fails to pay when due any installment of the purchase price or any other amount under this Agreement; (b) if Buyer defaults in the observance or performance of any other term, covenant or condition of Buyer under this Agreement and Buyer shall fail to remedy such default within ten days after notice by Seller to Buyer of such default; (c) if Buyer's interest or any portion thereof in this Agreement devolve on or pass to any person, whether by operation of law or otherwise; (d) if Buyer: (i) does not, or is unable to, or admits in writing its inability to, pay its debts as they become due; (ii) commences or institutes any case, proceeding or other action seeking relief on its behalf as debtor, or to adjudicate it a bankrupt or insolvent, or seeking reorganization, arrangement, adjustment, winding up, liquidation, dissolution, composition or other relief with respect to it or its debts under any existing or future law of any jurisdiction, domestic or foreign, relating to bankruptcy, insolvency, reorganization or relief of debtors; (iii) commences or institutes any case, proceeding or other action seeking appointment of a receiver, trustee, custodian or other similar official for it or for all or any substantial part of its property; or (iv) makes a general assignment for the benefit of creditors; (e) if a receiver, trustee, custodian or other similar official is appointed for any substantial part of the assets of Buyer which appointment is not vacated or stayed within 30 days; (f) if Buyer sells, transfers or disposes of all or substantially all of its assets, or merges or consolidates with any other entity; or (g) a breach of any representation or warranty of Buyer.

Headings. The headings in this Agreement are for reference only and shall not affect the interpretation of this Agreement.

Entire Agreement. This Agreement, including any exhibits and schedules, constitutes the sole and entire agreement of the parties to this Agreement with respect to the subject matter contained herein and therein, and supersedes all prior and contemporaneous understandings, agreements, representations and warranties, both written and oral, with respect to such subject matter.

Amendment and Modification. No amendment to this Agreement is effective unless it is in writing and signed by each party to this Agreement.

Cumulative Remedies. All rights and remedies provided in this Agreement are cumulative and not exclusive, and the exercise by either party of any right or remedy does not preclude the exercise of any other rights or remedies that may now or subsequently be available at law, in equity, by statute, in any other agreement between the parties or otherwise.

Assignment. Buyer may not assign any of its rights under this Agreement without the prior written consent of Seller and provided that such assignment shall not relieve Buyer of its obligations under this Agreement, and Buyer shall remain primarily liable under this Agreement. Any purported assignment in violation of this Section is null and void.

Successors and Assigns. This Agreement is binding on and inures to the benefit of the parties to this Agreement and their respective successors and permitted assigns.

No Third-party Beneficiaries. This Agreement benefits solely the parties to this Agreement and their respective successors and permitted assigns and nothing in this Agreement, express or implied, confers on any third party any legal or equitable right, benefit or remedy of any nature whatsoever under or by reason of this Agreement.

Waiver of Jury Trial. Each party acknowledges and agrees that any controversy that may arise under this Agreement, including any exhibits attached to this Agreement, is likely to involve complicated and difficult issues and, therefore, each such party irrevocably and unconditionally waives any right it may have to a trial by jury in respect of any legal action arising out of or relating to this Agreement, including any exhibits attached to this Agreement, or the transactions contemplated hereby.

Drafting. No provision of this Agreement shall be interpreted for or against any party hereto on the basis that such party was the draftsman of such provision, and no presumption or burden of proof shall arise favoring or disfavoring any party by virtue of the authorship of any of the provisions of this Agreement.

Counterparts. This Agreement may be executed in counterparts, each of which is deemed an original, but all of which together is deemed to be one and the same agreement. A signed copy of this Agreement delivered by facsimile, e-mail or other means of electronic transmission is deemed to have the same legal effect as delivery of an original signed copy of this Agreement.

Miscellaneous. All provisions set forth herein regarding warranty, confidential information, indemnification, liability and limits thereon, and any other provisions that survive by their terms will survive any termination or expiration of any Response delivered in connection herewith pursuant to the terms of such sections. In the event that any provision of these terms is held to be illegal, invalid or unenforceable under any present or future law, rule or regulation, such provision shall be deemed stricken from these T&Cs, but such illegality, invalidity or unenforceability shall not invalidate any of the other provisions of these T&Cs. Buyer represents and covenants that it has, and will continue to, comply with all laws and regulations related to the goods sold hereunder, including, but not limited to, export control laws. This sale transaction shall be governed, construed and enforced solely by the laws of the State of Seller's business address as shown on the Response. The United Nations Convention on the International Sale of Goods shall not be applicable to these T & C. The relationship of Buyer and Seller is that of independent contractors.

California Customers. Midland Industries does not guarantee that all products meet California environmental laws of Proposition 65. It is the sole responsibility and liability of the Midland distributor to order products for use in California that comply with California laws.

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INFORMATION

	Midland	Parker	Tomco	Amflo	Breco	Milton	Dixon	Hansen	Foster
Industrial Interchange 1/4	28560	UC304F-4		UC2-16	C60		745		
	28579	UC304M-4		UC2-15	C61		746		
	28589	UC304M-6		UC2-20	C61-03				
	28551	B22A	M180	C20-01	B2CM1-B			DC2101	900 2903
	28552	B22	M181	C21	B2CM2-B		716M	DC21	1100 3103
	28553	B22E	M182	C21-03	B2CM3-B		719M	DC2103	1300 3303
	28539	B23A	M183	C20-21	B2CF1-B			DC2021	800 2803
	28540	B23	M184	C20	B2CF2-B		715M	DC20	1000 3003
	28541	B23E	M185	C20-23	B2CF3-B		718M	DC2023	1200 3203
	28562	B20-3B	M186	C20-42	B2CS2-B		717M	DC2042	
28564	B20-5B	M187		B2CS3-B		717-6M	DC2044	1700 3703	
28565	B20-3BP		M189	C20-42L			B2CPS2-B	1717-4M DC2042L	1600P 1513
28566	B20-5BP		M190	C20-44L			B2CPS3-B	1717-6M DC2044L	1700P 1713
Parker Interchange (Tru-Flate) 1/4	28545	H0C	1802	CP21-01	BB2M1-S		726	DCP2101	12 12-3
	28546	H2C	1804	CP21	BB2M2-S		727	DCP21	10 10-3
	28547	H2C-E	1806	CP21-03		BB2M3-S		733	DCP2103 14 14-3
	28533	H1C	1803	CP20-21		BB2F1-S		729	DCP2021 13 13-3
	28534	H3C	1805	CP20	BB2F2-S		728	DCP20	11 11-3
	28535	H3C-E	1807	CP20-23		BB2F3-S		732	DCP2023 15 15-3
	28557	H8C	1824	CP21-42		BB2S2-S		736	DCP2142 16 16-3
	28559	H9C	1826	CP21-44		BB2S3-S		736-6	DCP2144 17 17-3
	28558	H8CP	1850	CP21-42L		BB2PS2-S		1736-4	DCP2142L 51-3
	28561	H9CP	1860	CP21-44L		BB29S3-S		1736-6	DCP2144L 71-3
Aro 210 Interchange 1/4	28515	B12A	A2180	C1-01	B2JM1-B			DC101	B21QS-12M TF2903
	28516	B12	A2181	C1	B2JM2-B		786	DC1	B21QS-25M TF3103
	28517	B12E	A2182	C1-03	B2JM3-B		789	DC103	B21QS-37M TF3303
	28506	B13A	A2183	C2-21	B2JF1-B		DC221	B21QS-12F TF2803	
	28507	B13	A2184	C2	B2JF2-B		785	DC2	B21QS-25F TF3003
	28508	B13E	A2185	C2-23	B2JF3-B		788	DC223	B21QS-37F TF3203
	28528	B10-3B	A2186	C2-42	B2JS2-B		786-4	DC242	B21QS-25H TF3603
	28530	B10-5B	A2188	C2-44	B2JS3-B		786-6	DC244	B21QS-37H TF3703
	28531	B10-3BP		A2189	C2-42L	B2JPS2-B		1786-4	DC242LB21QS-25HP TF1513
	28532	B10-5BP		A2190	C2-44L	B2JPS3-B		1786-6	DC244LB21QS-37HP TF1713
ST Series/High Flow 1/4, 3/8	28509	0C	2152	CP1-01	BJ2M1-S			DCP101	TF12
	28510	2C	2154	CP1	BJ2M2-S		783	DCP1	21AP-25M TF10
	28511	2C-E	2156	CP1-03	BJ2M3-S			DCP103	21AP-37M TF14
	28500	1C	2153	CP2-21	BJ2F1-S		DCP221	TF13	
	28501	3C	2155	CP2	BJ2F2-S784		DCP2	21AP-25F TF11	
	28502	3C-E		CP2-23	BJ2F3-S			DCP223	21AP-37F TF15
	28518	8C	2164	CP1-42	BJ2S2-S		783-4	DCP142	21AP-25H TF16
	28520	9C	2166	CP1-44	BJ2S3-S		783-6	DCP144	21AP-37H TF17
	28521	8CP	2150	CP1-42L		BJ2PS2-S		1783-4	DCP142L TF51
	28522	9CP	2160	CP1-44L		BJ2PS3-S		1783-6	DCP144L TF71
Lincoln Interchange 1/4	28592		A102		B20M1-B				
	28593	B52	A101	C45	B20M2-B		776	DC37	20AS-25M 210-3103
	28594	B52E	A107		B20M3-B			DC3703	20AS-37M 210-3303
	28583		A103		B20F1-B				
	28584	B53	A100	C38B	B20F2-B		775	DC38	20AS25F 210-3003
	28585	B53E	A106		B20F3-B			DC3823	20AS37F 210-3203
	28601		A104		B20S2-B		776-4	DC3842	
	28603		A105		B20S3-B		776-6	DC3844	
	28586		202		B02M1-S				210-12
	28587	A2C	200	CP37	B02M2-S		777	DCP37	20AP-25M 210-10
Industrial Interchange 3/8	28577		302		B02F1-S				
	28578	A3C	300	CP38	B02F2-S		778	DCP38	210-11
	28595	A8C	400	CP37-42		B02S2-S		777-7	DCP3742

STRAIGHTS JIC FLARE 37°

INFORMATION

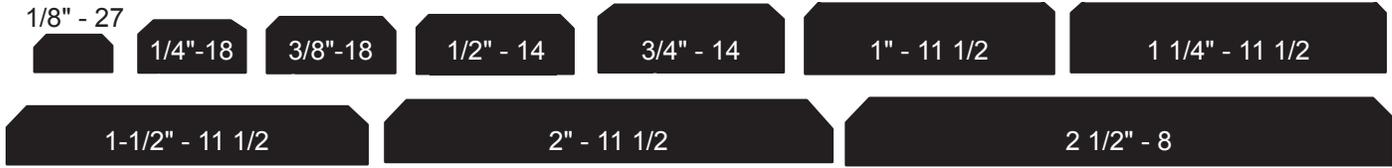
Thread Chart

DASH SIZE	2	3	4	5	6	7	8	10	12	14	16	20	24	32	40	48
O.D. TUBING SIZE	1/8	5/32	3/16	1/4	5/16	3/8	7/16	1/2	3/4	7/8	1	1-1/4	1-1/2	2	2-1/2	3
STANDARD PIPE SIZE N.P.T.F. (DRYSEAL)*	1/8-27		1/4-18		3/8-18		1/2-14		3/4-14		1-11 1/2	1 1/4-11 1/2	1 1/2-11 1/2	2-11 1/2	2 1/2 -8	3-8
S.A.E. 45° FLARE	5/16-24		7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1 1/16-14	1 1/4-12	1 3/8-12					
INVERTED FLARE	5/16-24		7/16-24	1/2-20	5/8-18	11/16-18	3/4-18	7/8-18	1 1/16-16							
J.I.C. 37° FLARE	5/16-24		7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12	3-12	3 1/2-12
COMPRESSION	5/16-24	5/16-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1 -18	1 1/8-18						
FLARELESS																
COMPRESSION (PLASTIC TUBE)	5/16-24		3/8-24	7/16-24	1/2-24		11/16-20									
AIR BRAKE - PLASTIC TUBE			7/16-24		17/32-24		11/16-20	13/16-18	1 -18							
AIR BRAKE - COPPER TUBE			7/16-24	1/2-24	17/32-24		11/16-20	13/16-18	1 -18							
DOUBLE COMPRESSION	5/16-24		7/16-24	1/2-20	9/16-20		11/16-16									
STEEL																
COMPRESSION (HIGH PRESSURE)	5/16-24		7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12		
S.A.E. O-RING	5/16-24		7/16-20	1/2-20	9/16-18		3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 5/8-12	1 7/8-12	2 1/2-12		
INTERNAL O-RING			1/2-20	9/16-18	5/8-18		7/8-14	1 -14	1 1/8-12	1 1/2-12	1 3/4-12	2 -12				
NPSM SWIVEL THREAD	1/8-27		1/4-18		3/8-18		1/2-14		3/4-14		1-11 1/2	1 1/4 -11 1/2	1 1/2 - 11 1/2	2-11 1/2		
FLAT FACE THREAD			9/16-18		11/16-16		13/16-16	1-14	1 3/16-12		1 7/16-12	1 11/16-12	2-12			
BRITISH THREAD BSPP/BSPT	1/8-28		1/4-19		3/8-19		1/2-14		3/4-14		1-11	1 1/4-11	1 1/2-11	2-11		
METRIC THREAD	10		14	16	18	20	22	24	26	27	30	33	36	42	48	
CODE 61			M12x1.5	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5	M26x1.5	M30x2.0	M33x2.0	M36x2.0	M42x2.0	M48x2.0	
FLANGE							1.19	1.335	1.50		1.75	2.00	2.38	2.81	3.31	4.00
HEAD O.D																
CODE 62							1.25		1.62		1.88	2.12	2.50	3.12		
FLANGE																
HEAD O.D																

THREAD PROFILES

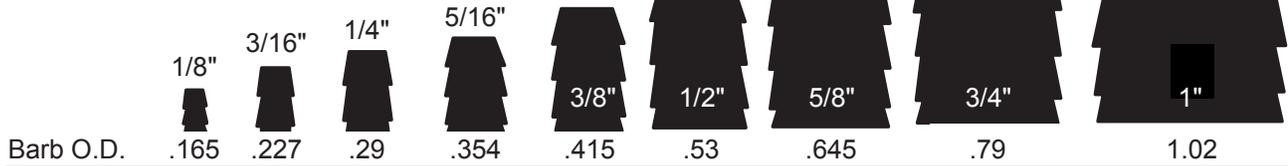
INFORMATION

Pipe Threads



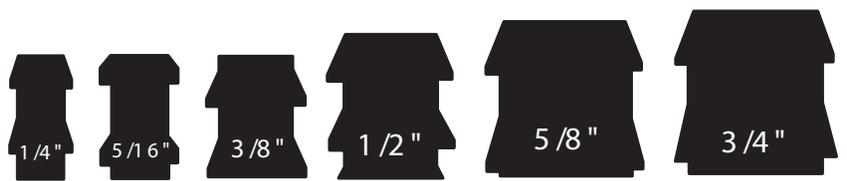
Hose Barbs

• Actual profile



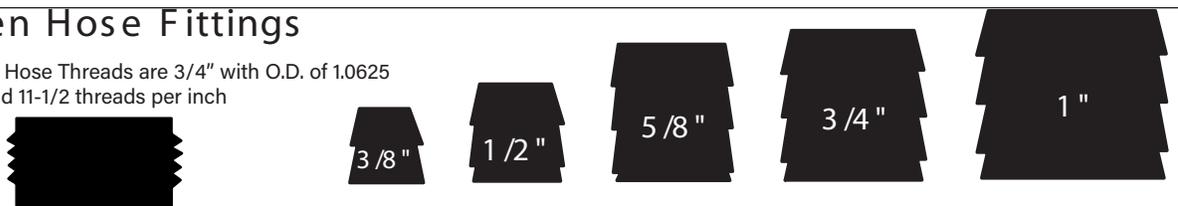
Push-On Barbs

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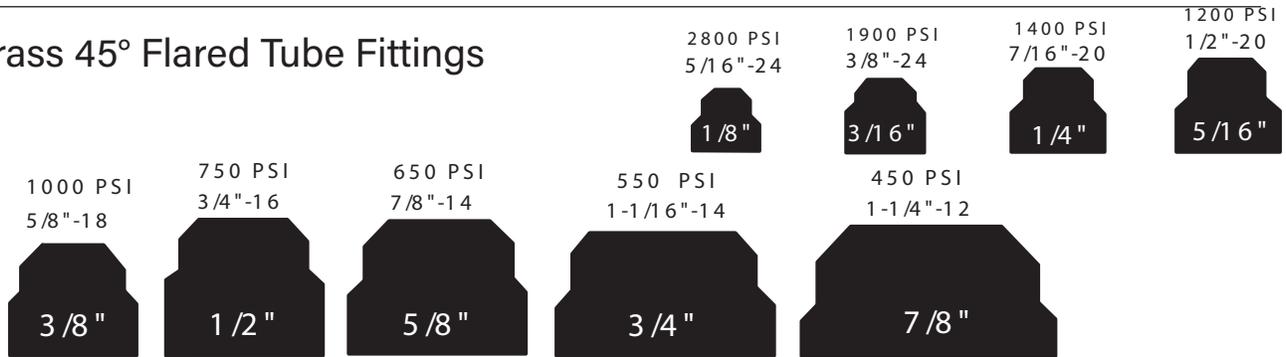


Garden Hose Fittings

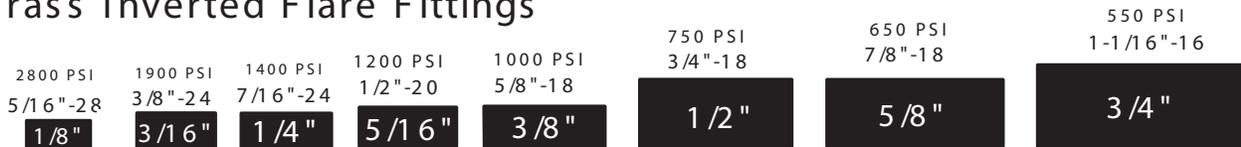
Male Garden Hose Threads are 3/4" with O.D. of 1.0625 and 11-1/2 threads per inch



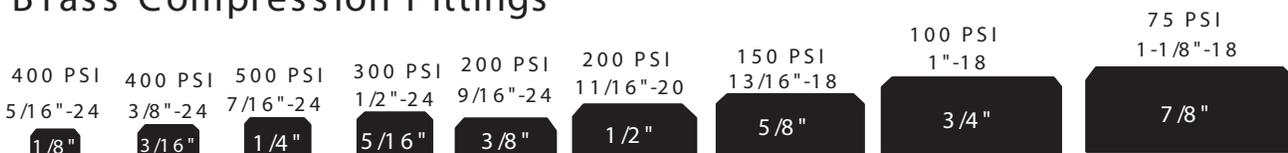
Brass 45° Flared Tube Fittings



Brass Inverted Flare Fittings



Brass Compression Fittings



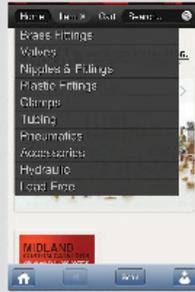
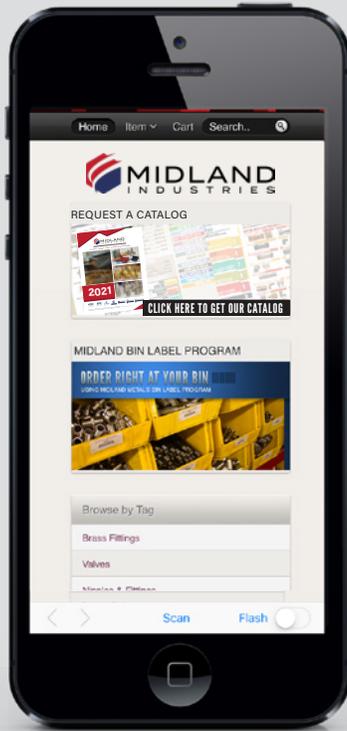
Tubing O.D. Size



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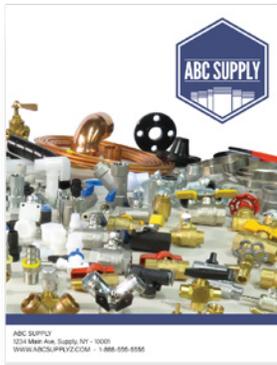
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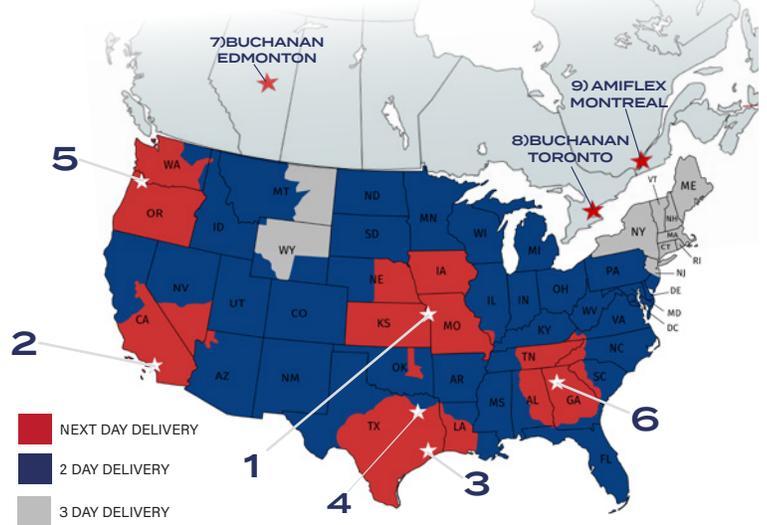
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