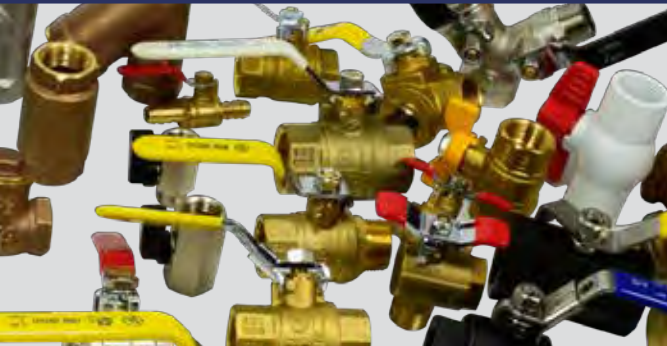
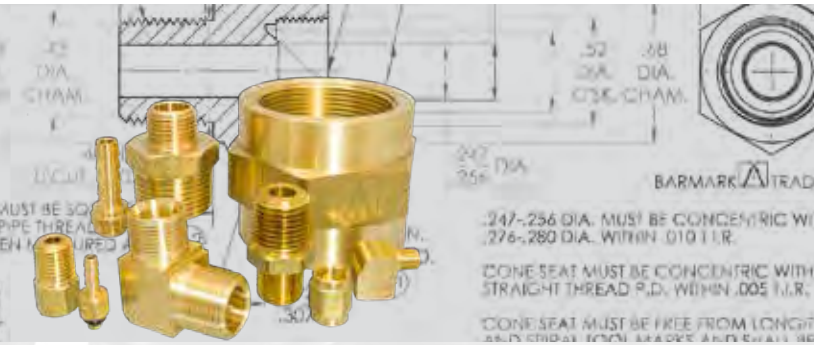




# MIDLAND INDUSTRIES



# 2020



FITTINGS · VALVES · HOSE · CLAMPS & ACCESSORIES

**MIDLANDINDUSTRIES.COM**

FIND US ON:

# ACCOUNT MANAGER

## FULL CONTROL AT YOUR FINGER TIPS!

MUCH MORE THAN JUST PLACING ORDERS!

### 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 shopping cart icon showing 1 item. Below the navigation bar, there are several action buttons: 'UPLOAD', 'SAVED ORDER', 'DOWNLOAD PRICING', 'BIN LABELS', and 'BRASS CATALOG SHOP'. The main content area includes a 'Speed Order' section, an 'Overview' table with columns for 'Orders (1)', 'Open', and 'Total', a 'Survey' section with questions about industries served, a 'Your Preferred Warehouse' map of the United States, and an 'Account Details' section with fields for Account #, Company Name, Sales Rep, Multiplier, and Saved Orders.

**LOG IN TO MIDLANDINDUSTRIES.COM**  
TO SAVE AN ADDITIONAL 5% ON ONLINE ORDERS

VISIT [WWW.MIDLANDINDUSTRIES.COM](http://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 :**



Fax 1-800-877-5391

[sales@midlandindustries.com](mailto:sales@midlandindustries.com)



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W/ BOLT & NUT STAINLESS STEEL (NO LEAD)



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## CRIMPLOKS

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## PRESS VALVES



LEAD FREE COPPER  
PRESS BALL VALVE

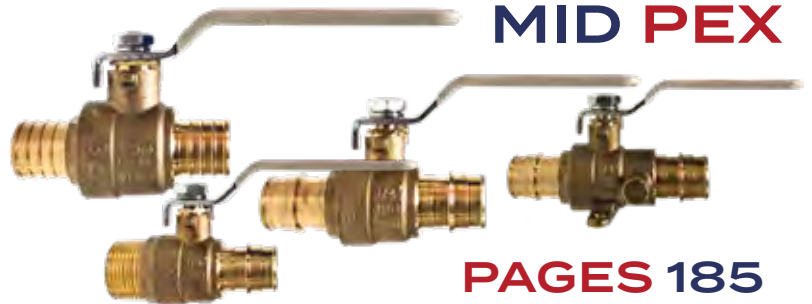
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DOUBLE DOOR WAFER  
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## CHECK VALVES



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# MIDLAND INDUSTRIES

## FITTING ASSORTMENTS AND DISPLAYS MAKE YOUR OWN ASSORTMENTS WITH OUR DIFFERENT SIZE OF BINS



### LIST OF ASSORTMENTS:

- Lead Free Flare
- Lead Free Compression
- Lead Free Pipe And Hose Barb
- Nylon Fittings
- Truck & Auto Assortments
- Air Brake Fittings Assts.
- Beverage Dispensing Assortments
- Marine Fitting Assortments
- Stainless Steel Nipples And Fittings
- Lead Free Red Brass Pipe Fittings And Nipples
- Pipe Nipples-44 Top Selling Items; 1/8" Thru 1"
- Pipe Fittings-44 Top Selling Items; 1/8" Thru 1"



A COMPLETE OFFERING OF CUSTOMIZED RETAIL AND MERCHANDISING PROGRAMS!

[WWW.MIDLANDINDUSTRIES.COM](http://WWW.MIDLANDINDUSTRIES.COM)



**ATTENTION SALES DEPARTMENT!**

# YOUR BRAND IS **OUR BRAND**

Midland strives to promote your brand and help build your business by being the silent partner in the background working to promote your brand. We do not put our name on anything, so we can put your name on everything - helping you build your brand and assisting you in marketing these products to your customers.

Use Midland's customized suite of Marketing Tools to expand and grow your business! We offer all the resources for marketing, order gathering and shipping.

**SCHEDULE A SALES MEETING WITH MIDLAND TO LEARN MORE.**

**MARKETING**



## **CUSTOM CATALOG**

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



## **FREE E-COMMERCE SITE**

We will provide you with a free, fully functional, custom branded e-commerce site, pre-loaded with all of Midland's 40,000 items.

**ORDER GATHERING**



## **BIN LABELS**

Create & print personalized bin labels with your brand to affix to bin boxes. Helps with reorders and managing your warehouse.



## **MIDLAND APP**

Use the app to scan bin labels on location to quickly reorder, check stock and pricing. Save orders to submit later.

**SHIPPING**



## **PRIVATE LABEL**

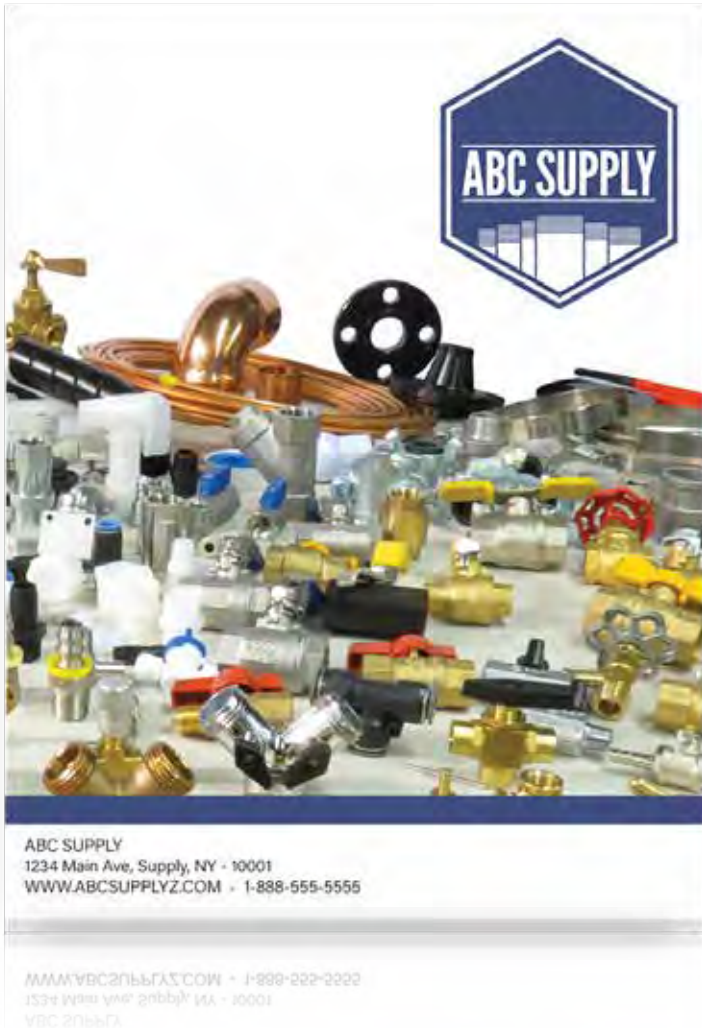
Private label shipments with your logo on boxes, packing slips and product labels...shipped how you want it, today!



Fax 1-800-877-5391

[sales@midlandindustries.com](mailto:sales@midlandindustries.com)





## 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 logo, colors and photos.

### OPTION B (\$15): CUSTOM COVER

List price, net price or anywhere in between. You set the pricing that is right for you.

### OPTION C (\$25): CUSTOMIZED CATALOG

Your company logo and contact information will print on the footer of each page. Minimum of 25


### GET STARTED TODAY

[MidlandIndustries.com/marketing](http://MidlandIndustries.com/marketing)

UNION TEE		SAE# 130438				
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		SAE# 130438				
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	.924	8023	

www.abcsupplyz.com  Toll Free Phone 1-800-555-5555



ABC SUPPLY

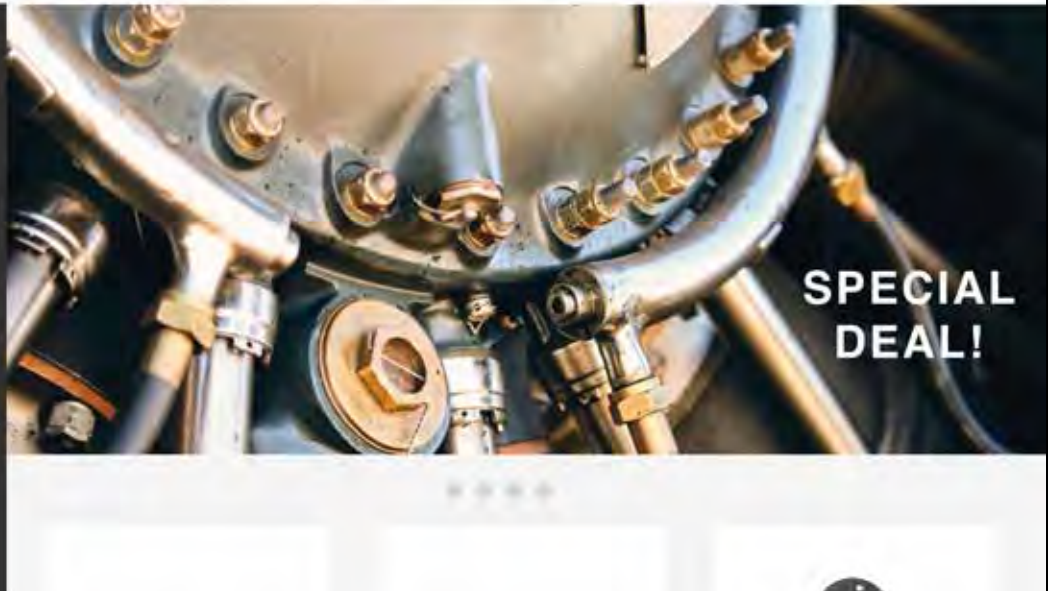
search items...



Log In | Register

CATEGORIES

- Accessories
- Brass
- Clamps
- High Pressure
- Sprayer
- Hydraulics
- Lead Free
- Nipples & Fittings
- Pneumatics
- Truck And Trailer
- Tubing



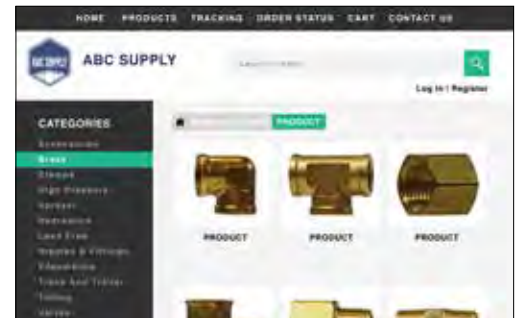
# SHOP.BRASSCATALOG

Midland Industries will provide you with a fully functional branded E-commerce site, preloaded with every one of Midland's 40,000 items.

## HOW IS IT USED?

Shop Brass Catalog (SBC) is an e-commerce platform we have developed for our customers to sell our products to their customers. Our customers can choose to have Midland fulfill the order or they can fulfill the order themselves.

**SBC can be used as a Point of Sale system for showroom floor sales.** Simply enter the order on the website while the customer is at the counter, get P.O. number from the customer and enter the order. Then simply use the site to log orders and bill them.



Product	Part Number	Quantity	Unit Price	Total
ITEM 1	ABC123456	100	\$3.32	\$332.00
ITEM 2	ABC67890	100	\$0.88	\$88.00
ORDER SUBTOTAL				\$420.00
ESTIMATED SHIPPING				\$22.71
TOTAL				\$442.71

## ADDITIONAL FEATURES

- Easy Sign-Up
- Free Marketing Materials
- Custom Items
- Cart and Checkout
- Admin Page





## IDENTIFICATION TAGS

Tags and packing slips are printed with your company information.

## PERSONALIZED

Tags for each product ordered, including your part number if provided.

## SHIPPING

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

## GET STARTED TODAY

[MidlandIndustries.com/marketing](http://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 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](http://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 to 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"



Fax 1-800-877-5391

INTRO 13

[sales@midlandindustries.com](mailto:sales@midlandindustries.com)



## 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

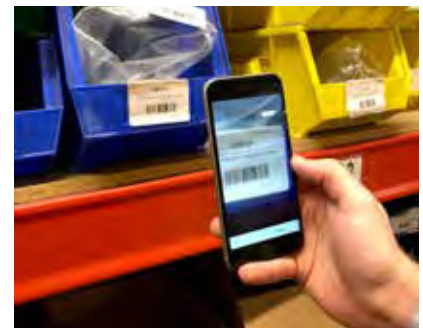
[MidlandIndustries.com/marketing](http://MidlandIndustries.com/marketing)

## 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.





## PDF CATALOG

Full color or black/white PDF catalog online.

## PRINT OR DOWNLOAD

Print by product category or page. Available in color or black/white.

## GET STARTED TODAY

[MidlandIndustries.com/marketing](http://MidlandIndustries.com/marketing)

## BRASSCATALOG.COM

Brasscatalog.com is an unbranded sales and marketing tool. Use it to provide your customers with specifications, pictures and pricing. With no reference to Midland. Your customers can access over 40,000 products by product category.

Online, download or print a generic line card, pictorial index and product category pages with no reference to Midland Industries.

Access catalog pages with list prices so your sales team can use to sell to your customers.



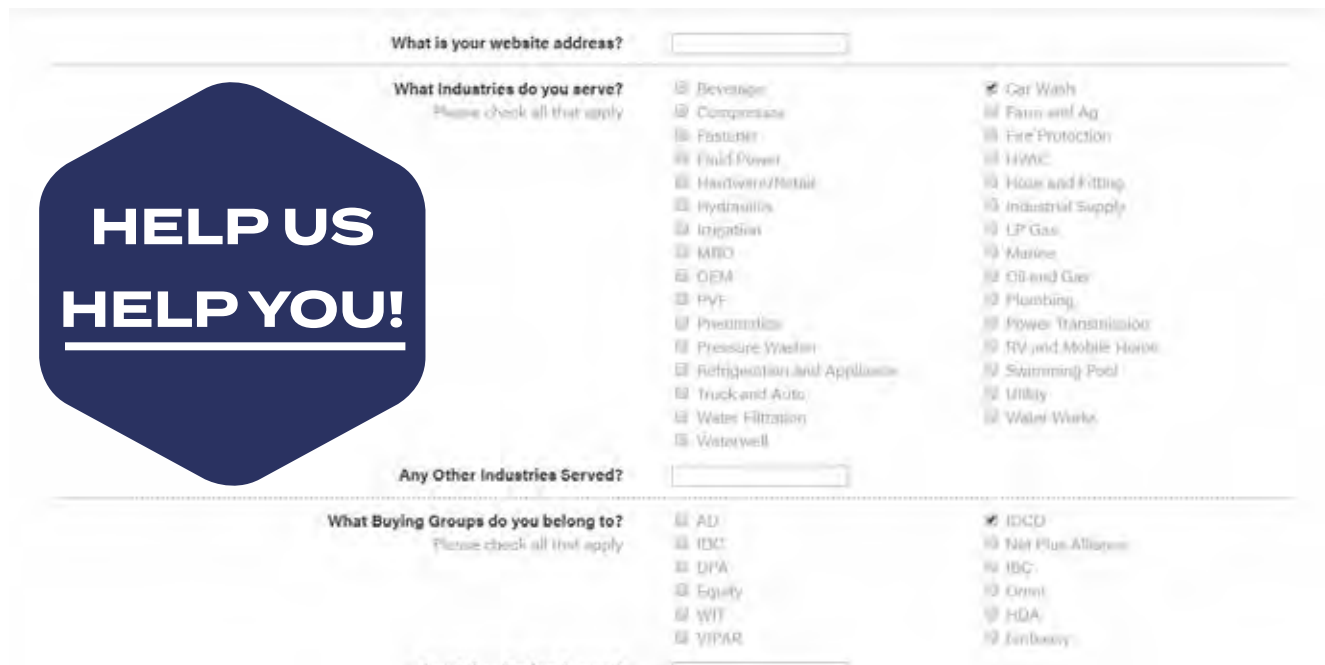
# CUSTOMER PROFILE

To better serve you, Midland has added a customer profile page to the account manager tab on [midlandindustries.com](http://midlandindustries.com). We want to ensure that we are sending the right information to the right people. Please take a minute to make sure your information is up to date. Thank You!

**Purchasing:** New product information, Order acknowledgement, Updated pricing, Specials

**Sales and Marketing:** Suite of marketing tools, Library of sales resources

**Accounting:** Invoices, Payment information



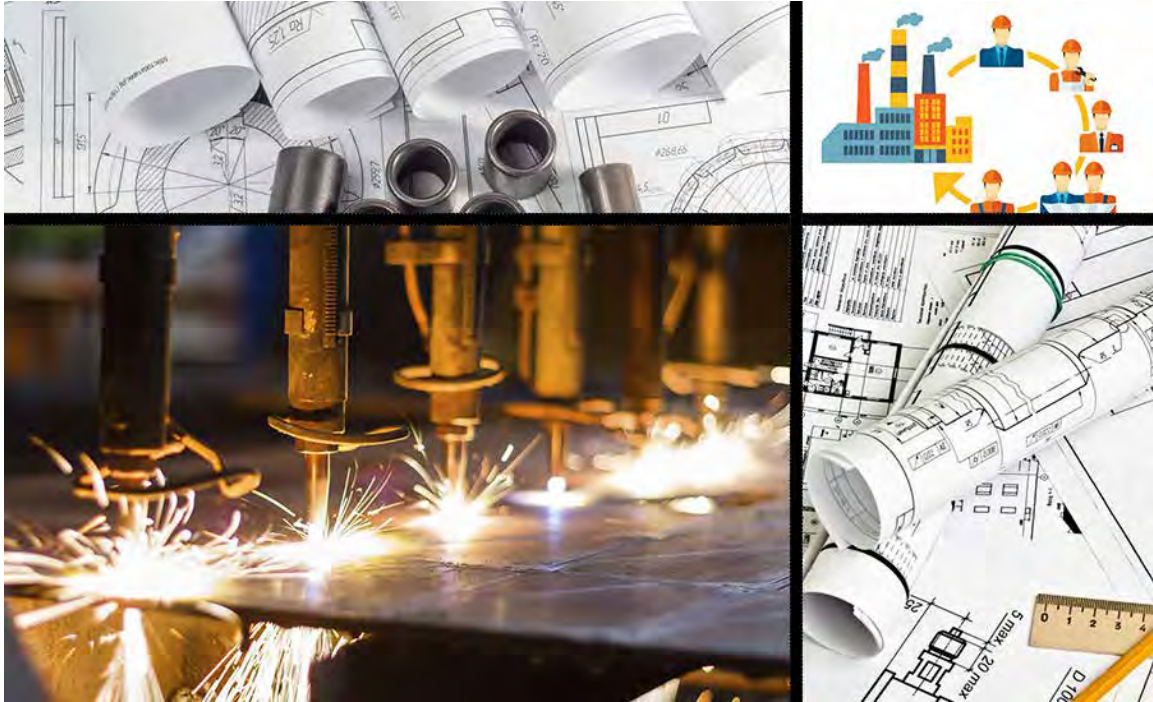
The screenshot shows a customer profile form with several sections:

- What is your website address?** (Text input field)
- What industries do you serve?** (Section with a blue callout box that says "HELP US HELP YOU!") and a list of checkboxes for various industries such as Beverage, Compressors, Fastener, Fluid Power, Hardware/Retail, Hydraulics, Irrigation, MBO, OEM, PVE, Pneumatics, Pressure Washer, Refrigeration and Appliances, Truck and Auto, Water Filtration, Waterwell, Car Wash, Farm and Ag, Fire Protection, HVAC, Hose and Fitting, Industrial Supply, LP Gas, Marine, Oil and Gas, Plumbing, Power Transmission, RV and Mobile Home, Swimming Pool, Utility, and Water Works.
- Any Other Industries Served?** (Text input field)
- What Buying Groups do you belong to?** (Section with a list of checkboxes for buying groups such as AD, IDC, DPA, Equity, WIT, VIPAR, IDCD, NAF Plus Alliance, IBC, Ornit, HDA, and Embassy).



**UPLOAD YOUR LOGO IN ACCOUNT MANAGER TO UTILIZE ALL OF OUR CUSTOMIZABLE MARKETING TOOLS!**

To access your customer profile, log in to your account manager and select the profile tab along the top menu.



## 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.

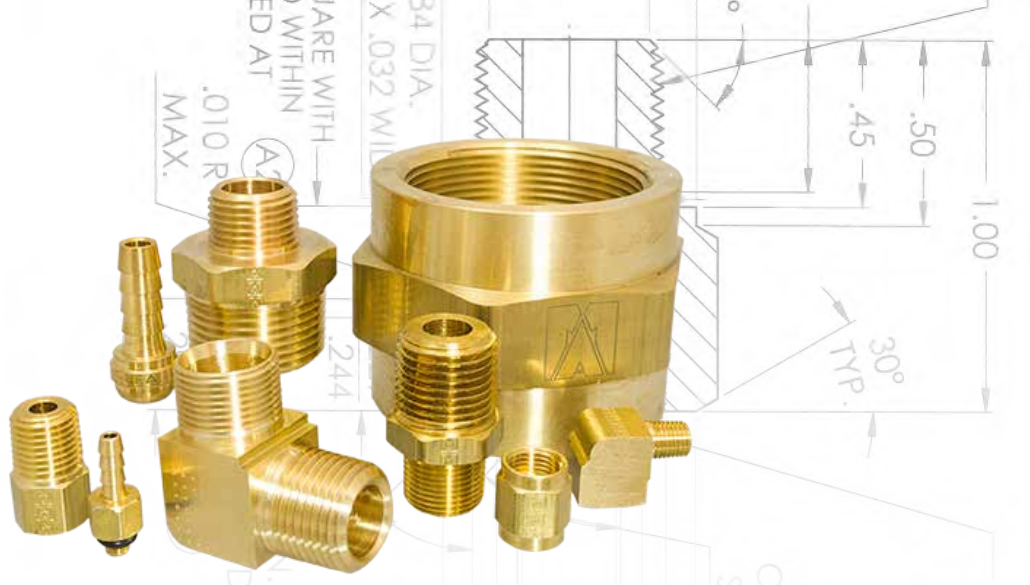
As part of the Midland OEM program, you can expect increased co-marketing opportunities, better market planning with our sales force, and improved customer engagement with co-managed objectives.

## INNOVATIVE THINKING. INNOVATIVE SOLUTIONS. PARTNERING FOR YOUR SUCCESS!

Ask about our OEM Solutions – contact [specials@midlandindustries.com](mailto:specials@midlandindustries.com) to get started today.



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## 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/MANUFACTURING](http://MIDLANDINDUSTRIES.COM/MANUFACTURING)**

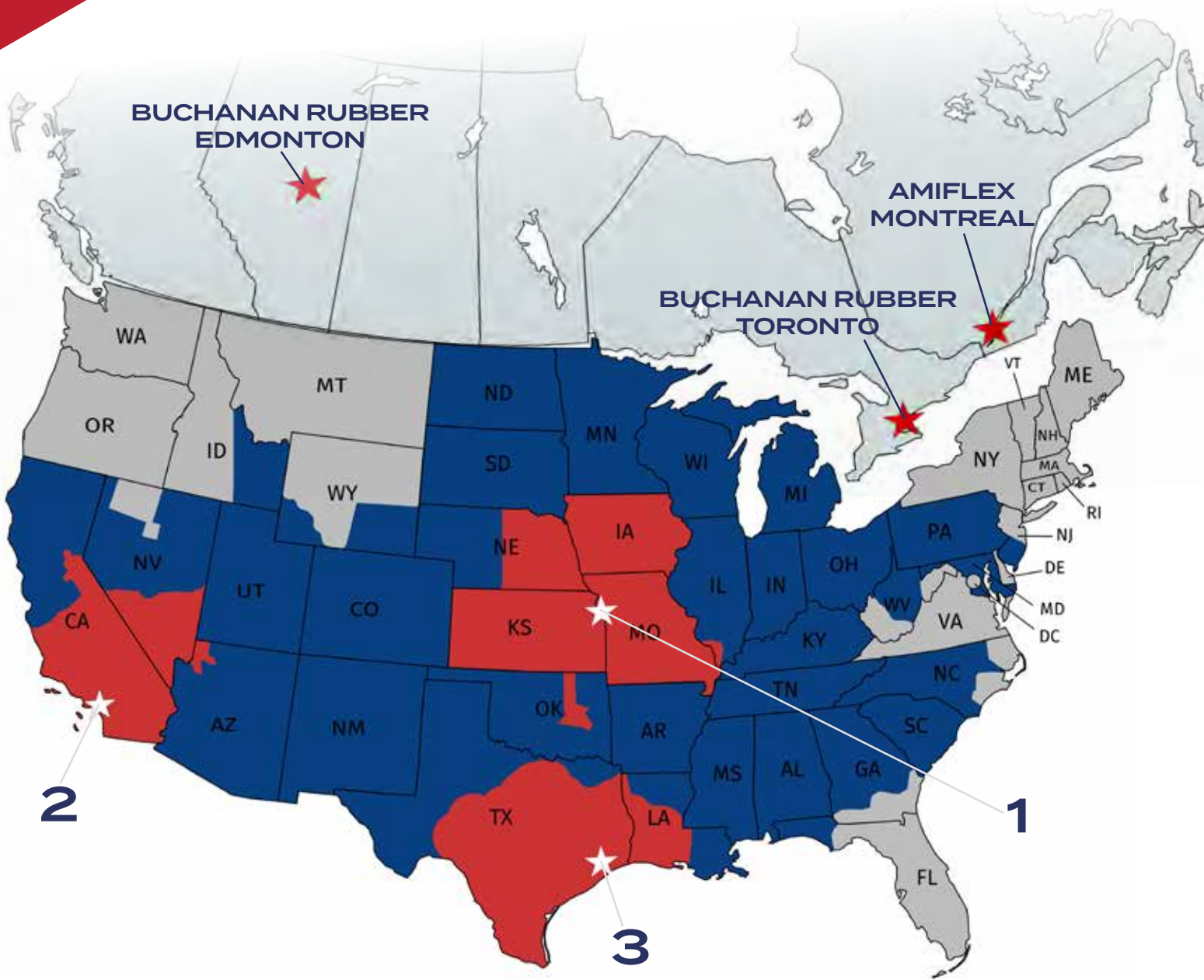


Fax 1-800-877-5391

[sales@midlandindustries.com](mailto:sales@midlandindustries.com)



# MIDLAND INDUSTRIES DISTRIBUTION



## UPS GROUND TIME IN TRANSIT



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](http://www.UPS.com/maps)

## DISTRIBUTION LOCATIONS

### 1) MIDWEST DISTRIBUTION

*Full Stocking Location*

3145 Oak Street  
Kansas Ciy, MO 64111

### 2) WEST COAST DISTRIBUTION

*Full Stocking Location*

659 E Ball Rd  
Anahiem, CA 92805

### 3) TEXAS DISTRIBUTION

*Full Stocking Location*

5544 Armour Drive,  
Houston, TX 77020

### MIDLAND INDUSTRIES CUSTOMER SERVICE

Phone: 800-821-5725

Fax: 800-877-5391

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# BRASS

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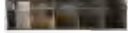























# LEAD FREE

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FLARED CAP  PG 164	TEE  PG 164	PLUG  PG 164	FEMALE ADAPTER  PG 165	MALE BRANCH TEE  PG 165	FORGED SWIVEL  165	MALE ADAPTER  PG 165	UNION ELBOW  PG 165	FIP BRANCH TEE  PG 165
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TEE  PG 170	UNION ELBOW  PG 170	FEMALE COU-PLING  PG 170	COMP X SWT  PG 170	MALE ADAPTER  PG 170	MALE ELBOW  PG 170	FEMALE ELBOW  PG 170	ICE MAKER KIT  PG 170	<b>NEEDLE VALVES PGS 171</b>

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# NIPPLES AND FITTINGS

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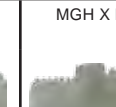





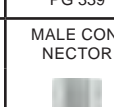


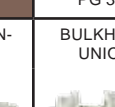
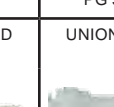
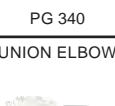
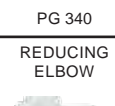
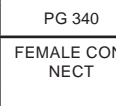
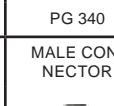
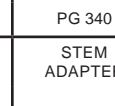
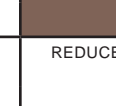

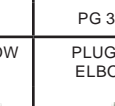
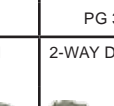
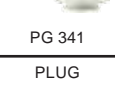
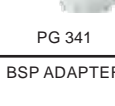
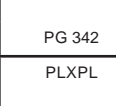
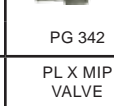
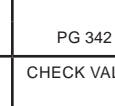
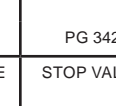
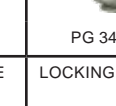
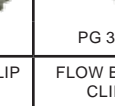

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# HOSE ACCESSORIES

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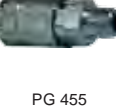

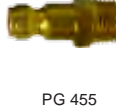








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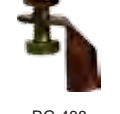




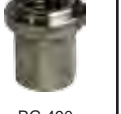







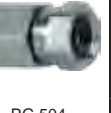
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SWIVEL ELBOW  PG 527	<b>BSPT, BSPP, METRIC</b> PGS 527-530	JIC BSPT  PG 527	BSPT ELBOW  PG 527	HEX NIPPLE  PG 527	PLUG  PG 527	HEX NIPPLE BSPP  PG 527	COUPLING  PG 527	FEMALE SWIVEL  PG 528
ELBOW  PG 528	45° ELBOW  PG 528	MALE NIPPLE  PG 528	MALE BSPP  PG 528	SWIVEL BSPP  PG 529	PLUG BSPP  PG 529	HOLLOW BSPP  PG 529	FEMALE BSPP  PG 530	MALE ELBOW  PG 530
STRAIGHT SWIVEL  PG 530	METRIC PARALLEL  PG 530	HOLLOW  PG 530	FEMALE ADAPTER  PG 530	<b>QUICK DISCONNECTS</b> PGS 531-534	NO SPILL  PG 531	DRYBREAK  PG 531	ISO-A COUPLER  PG 531	ISO-A PLUG  PG 531
ISO-B COUPLER  PG 531	ISO-B PLUG  PG 532	FLUSH FACE  PG 532	FLUSH FACE  PG 532	LSQ SERIES  PG 532	LSQ SERIES  PG 533	AG SERIES  PG 533	KZE SERIES  PG 534	<b>VALVES, FLANGES</b> PGS 534-539
FLOW VALVE  PG 534	NEEDLE VALVE  PG 535	PRESSURE VALVE  PG 535	JIC FLANGE  PG 537	JIC FLANGE  PG 537	JIC FLANGE  PG 537	FLANGE KIT  PG 538	FLANGE KIT  PG 538	SPLIT FLANGE  PG 538

# STAINLESS STEEL

## PICTORIAL INDEX

 <p>PG 538</p>	 <p>PG 539</p>	 <p>PG 539</p>	 <p>PG 539</p>	<p><b>STAINLESS STEEL</b> PG 543-555</p>	 <p>PG 543</p>	 <p>PG 543</p>	 <p>PG 544</p>	 <p>PG 544</p>
 <p>PG 544</p>	 <p>PG 545</p>	 <p>PG 546</p>	 <p>PG 546</p>	 <p>PG 546</p>	 <p>PG 547</p>	 <p>PG 547</p>	 <p>PG 547</p>	 <p>PG 547</p>
 <p>PG 548</p>	 <p>PG 548</p>	 <p>PG 548</p>	 <p>PG 549</p>	 <p>PG 549</p>	 <p>PG 549</p>	 <p>PG 549</p>	 <p>PG 550</p>	 <p>PG 550</p>
 <p>PG 551</p>	 <p>PG 551</p>	 <p>PG 551</p>	 <p>PG 552</p>	 <p>PG 552</p>	 <p>PG 553</p>	 <p>PG 553</p>	 <p>PG 554</p>	 <p>PG 554</p>
 <p>PG 555</p>	 <p>PG 555</p>	 <p>PG 555</p>	 <p>PG 555</p>	 <p>PG 555</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 <sup>1/2</sup>
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.

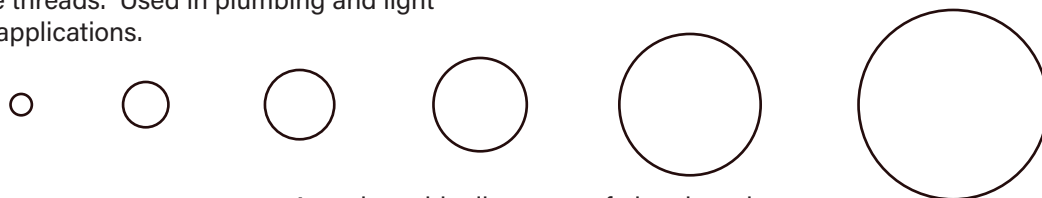
**Conformance:** Meets specifications and standards of ASA, ASME and SAE

- 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.

- see page 547-550 for stainless steel
- see page 313 for steel fittings
- see page 295-297 for plastic pipe fittings.
- Lead Free Fittings  
see pages 157-160
- For Bronze & Larger Sizes  
see pages 248-268
- For BSPT/ BSPP  
see midlandindustries.com



Actual outside diameters of pipe threads

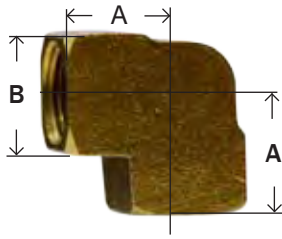


Actual Male Thread Profiles

**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](http://www.P65Warnings.ca.gov)

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

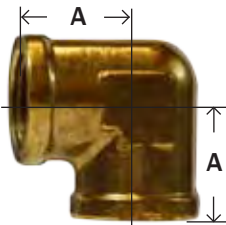
SAE# 130238



100

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.
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

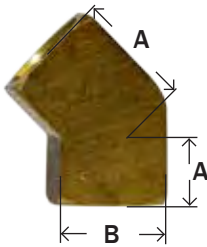
100 2200P 3500 302 200

**90° FORGED FEMALE ELBOW**

100F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.
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**

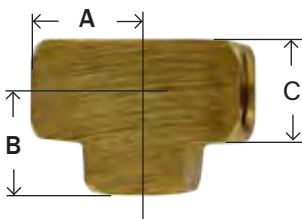
10045

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.
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

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

**UNION TEE**

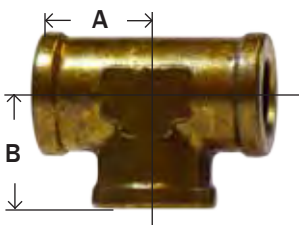
SAE# 130438



101

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.
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

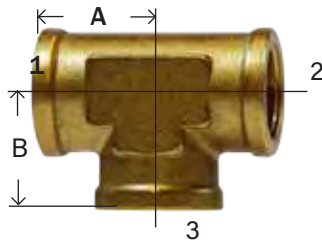
PART #	THREAD SIZE NPTF	A & B	BODY WIDTH	APPROX. WT. LBS.
28032	1/8"	0.56	0.50	0.06
28033	1/4"	0.71	0.68	0.13
28034	3/8"	0.81	0.81	0.16
28035	1/2"	1.00	1.00	0.27
28036	3/4"	1.16	1.25	0.53
28023	1"	1.42	1.50	.924

1203P LT7 101AF 101B



**PIPE**  
BRASS FITTINGS

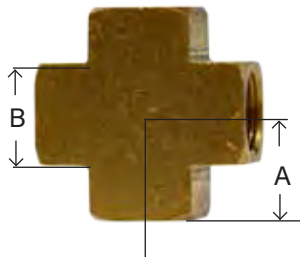
**REDUCING FORGED TEES**



101FR

PART #	1 NPT	2 NPT	3 NPT	A & B	BODY WIDTH	APPROX. WT. LBS.
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**

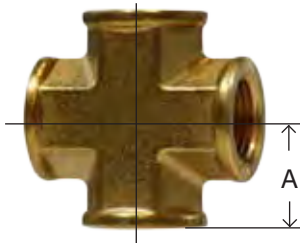


102

PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.
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**



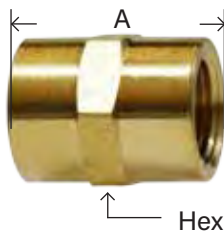
102F

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.
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.
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

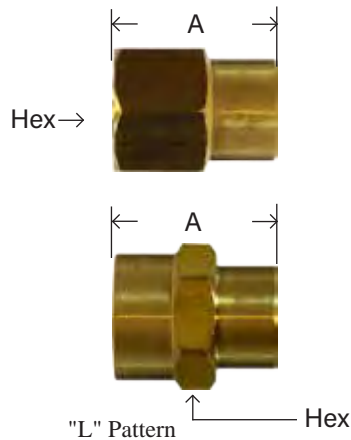
DIMENSION DATA CAN CHANGE WITHOUT NOTICE. PLEASE SEE WEBSITE WHEN DIMENSIONS ARE CRITICAL.

**PIPE**

## BRASS FITTINGS

**REDUCING COUPLING**

SAE# 130138

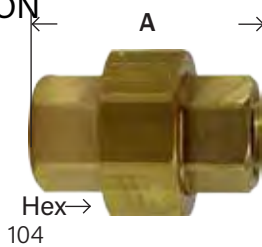


119

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.
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
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
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

\*Not to SAE specs

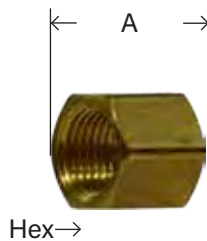
377 3300 208P 108 119B 119AH

**UNION**

104

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.
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

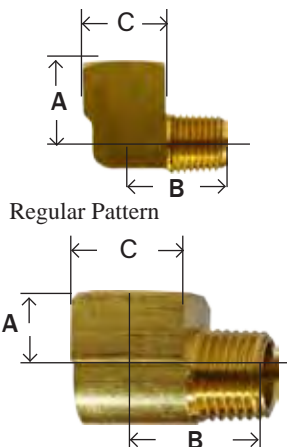
PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.
28075	1/8"	0.47	0.56	0.03
28076	1/4"	0.60	0.68	0.04
28077	3/8"	0.69	0.81	0.06
28078	1/2"	0.78	0.93	0.08
28079	3/4"	0.94	1.25	0.16
28080	1"	1.13	1.50	0.23

3129 213P 23129 108A 108B

• See website for larger sizes

**90° STREET ELBOW**

SAE# 130239



116

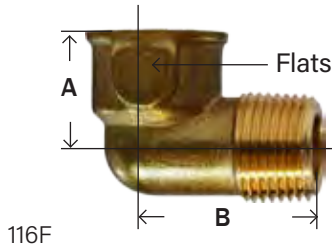
PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.
28161	1/16"	0.69	0.60	0.47	0.04
28156	1/8"	0.48	0.66	0.56	0.05
28156S	1/8" short	0.34	0.57	0.50	0.03
28157	1/4"	0.72	0.91	0.735	0.09
28157S	1/4" short	0.45	0.78	0.68	0.07
28158	3/8"	0.78	0.97	0.81	0.16
28159	1/2"	1.03	1.25	1.00	0.33
28160	3/4"	1.12	1.38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

2202P 304 115 202 3400 116A

"S" = Short Pattern

**PIPE**  
BRASS FITTINGS

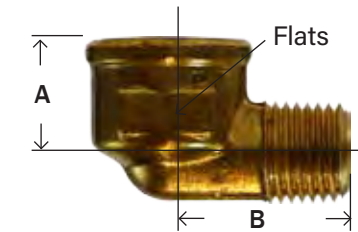
**FORGED 90° STREET ELBOW**



PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.
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**



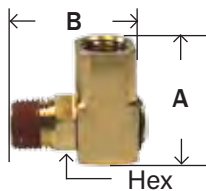
128

\*Barstock

PART #	THREAD SIZE NPTF FXM	A	B	WRENCH FLATS	APPROX. WT. LBS.
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**

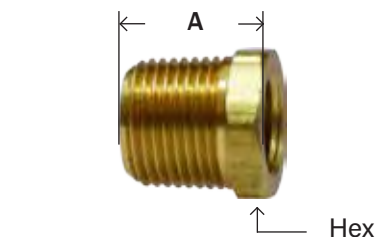
▪ Burst Pressure 1,200 PSI ▪ Working Pressure 300 PSI



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**

SAE# 130140



110

PART #	THREAD SIZE NPTF MXF	A	HEX	APPROX. WT. LBS.
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
28110L	3/4" x 3/8"	0.94	1.06	0.15
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

**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](http://www.P65Warnings.ca.gov)

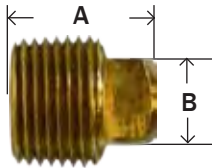
**PIPE****BRASS FITTINGS****FACE BUSHING**

110F

PART #	THREAD SIZE NPTF MXF	A	APPROX. WT. LBS.
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.
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

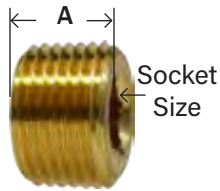
\*\* Cored

3151 211P 109A 109B

▪ See website for larger sizes

**COUNTERSUNK HEX PLUG**

3/4" taper thread



109AL

PART #	THREAD SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.
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

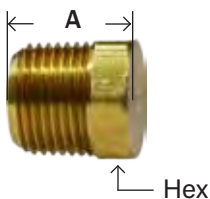
3153 219P 109CS 118

**SLOTTED-HEAD PLUG**

117

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.
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.
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

**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](http://www.P65Warnings.ca.gov)

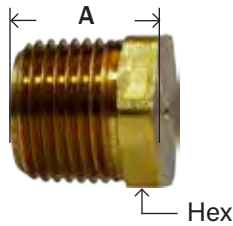




# PIPE

## BRASS FITTINGS

### SOLID HEX HEAD PLUGS



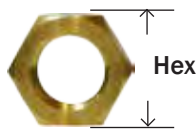
121S

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.
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

121AS

### LOCKNUT

- Jam Nuts
- Straight pipe thread

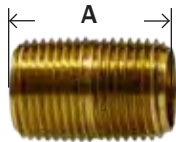


111

PART #	THREAD SIZE NPSL	HEX	THICKNESS	APPROX. WT. LBS.
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

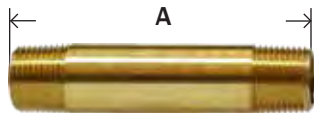


112

PART #	THREAD SIZE NPTF	A	APPROX. WT. LBS.
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

165 215PN 3326 112A 112B

### LONG NIPPLE



113

PART #	THREAD SIZE NPTF	A LENGTH	APPROX. WT. LBS.
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
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
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
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

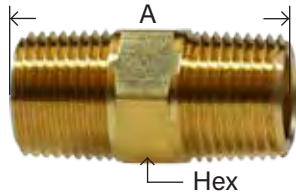
- NOTE: For longer lengths and larger diameters, see our red brass nipples section.



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

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

SAE# 130137



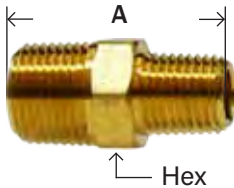
122

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
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	

216P 3325 379 122AH 122B

**REDUCING HEX NIPPLE**

SAE# 130137



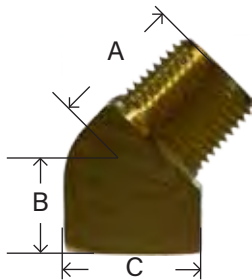
123

PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.	
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



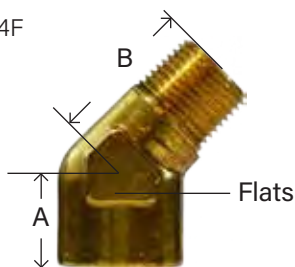
124

PART #	THREAD SIZE NPTF	B	A	C	APPROX. WT. LBS.	
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

**45° FORGED STREET ELBOW**

124F



PART #	THREAD SIZE NPTF	A	B	WRENCH FLATS	APPROX. WT. LBS.	
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	

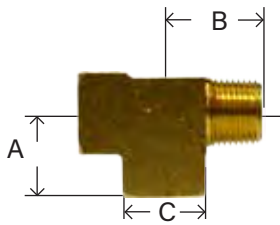
45E8 124B

# PIPE

## BRASS FITTINGS

### STREET TEE/ SERVICE TEE/ MALE RUN TEE

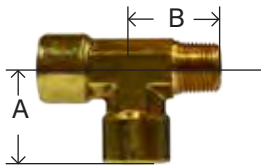
SAE# 130424



127

PART #	THREAD SIZE NPTF	A	B	C	APPROX. WT. LBS.
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

### FORGED STREET TEE



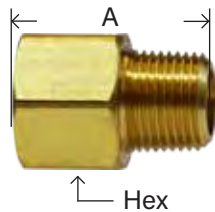
127F

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.
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



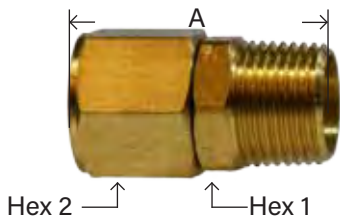
120

PART #	THREAD SIZE NPTF FXM	A	HEX	APPROX. WT. LBS.
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
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
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

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.
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

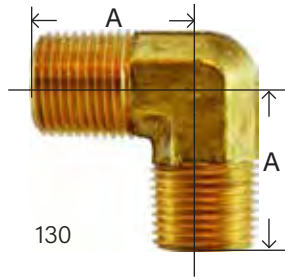
PART #	SIZE
320061	1/4

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BRASS

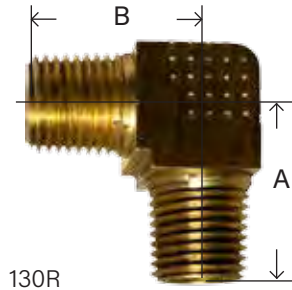
**PIPE**

## BRASS FITTINGS

**FORGED 90° MALE ELBOW**

PART #	THREAD SIZE NPTF	A	BODY WIDTH	APPROX. WT. LBS.
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.
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

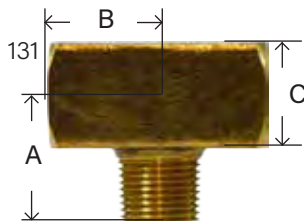
130R

**FORGED 90° MALE REDUCING ELBOW**

PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.
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

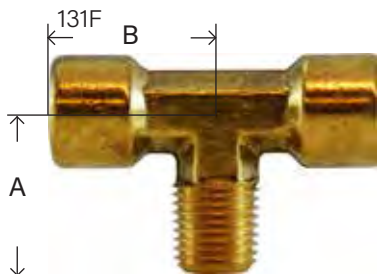
**MALE BRANCH TEE**

SAE# 130425



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

T9

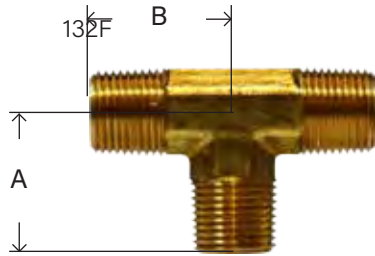
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# PIPE

## BRASS FITTINGS

### FORGED ALL MALE TEE

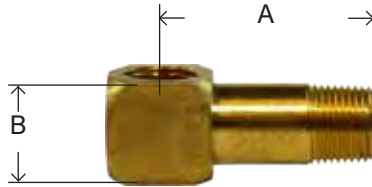


PART #	THREAD SIZE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.
28290	1/8"	0.75	0.75	0.43	0.06
28291	1/4"	0.86	0.86	0.43	0.08
28292	3/8"	1.09	1.09	0.60	0.16
28293	1/2"	1.22	1.22	0.68	0.22
28294	3/4"	1.43	1.43	0.87	0.38

T12 M101

### LONG STREET ELLS

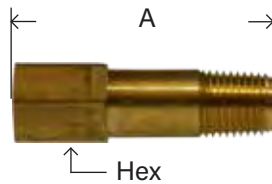
D.O.T. Approved



PART #	THREAD SIZE NPTF	A	B	APPROX. WT. LBS.
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
28328	1/4"	1-3/16"	0.75	0.12
28329	1/4"	1-7/16"	0.75	0.14
28330	1/4"	1-11/16"	0.75	0.15
28331	1/4"	1-7/8"	0.62	0.09
28332	1/4"	2-1/4"	0.75	0.17
28333	3/8"	1-3/4"	0.87	0.22

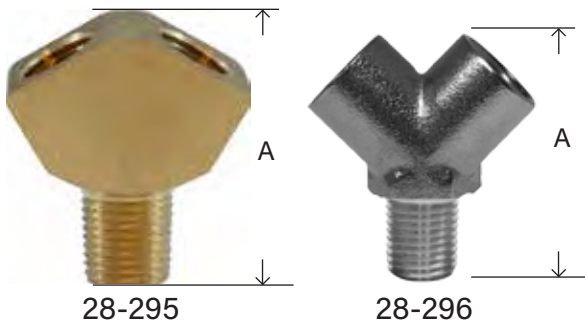
### LONG EXTENSION ADAPTERS

D.O.T. Approved



PART #	THREAD SIZE NPTF	A	HEX	APPROX. WT. LBS.
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.
28295	1/4"	1.56	.15
28296	1/4 N/P	1.4	.12

### PIPE WYE FIP X FIP - NICKEL PLATED

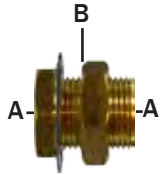


PART #	THREAD SIZE NPT	A	APPROX. WT. LBS.
28298	1/4	1.4	.12

SEE OUR WEBSITE FOR BSPT, BSPP & BSP FITTINGS

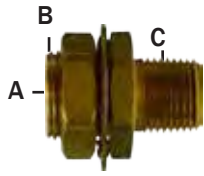
**BULKHEAD FITTINGS**

BRASS FITTINGS

**BULKHEAD / ANCHOR / FRAME COUPLINGS**FEMALE PIPE X  
FEMALE PIPE

Part #	Terminal Bolts/ Frame			
	A	B	Hole Size	Length (in.)
28299	1/8-27 NPTF	5/8-18 UNS	5/8	0.96
28300	1/8-27 NPTF	5/8-18 UNS	5/8	1-1/2
28301	1/4-18 NPTF	3/4-16 UNS	3/4	15/16
28302	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2
28315*	1/4-18 NPTF	3/4-16 UNS	3/4	1-1/2
28303	3/8-18 NPTF	1-14 UNS	1	1-5/16
28304	1/2-14 NPTF	1-1/8-14 UNS	1-1/8	1-1/2
28311	3/4-14 NPTF	1-5/16-12	1-5/16	1-1/2
28316**	1-11/1/2	1-5/8-14	1-5/8	1.68

\* Same as 28-302 except with a larger mounting nut. \*\*Without washer



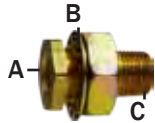
FEMALE PIPE X MALE PIPE

	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



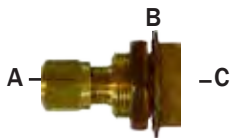
FEMALE PIPE X MALE PIPE

28313	1/4-18 NPTF	1-14 UNS	1/2-14 NPTF	2-7/8
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FEMALE PIPE X MALE PIPE

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

▪ FIND BULKHEAD NUTS & WASHERS ON [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM)**CROSSOVER NUMBERS**

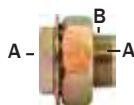
28-300	207X2	129A-A	50004	55207							1495B-A	ACBH207-2	207ACBH-2				
28-301	207X4	129AS-B		55611		S611	114-44	1345	382-44S	392C-94		ACBHS207-4					
28-302	207X4	129A-B	50005	55661			114B-44	1344	382-44L	035081		ACBH207-4	207ACBH-4			11306	90648
28-303	207X6	129A-C	50006	55607		S661/ S607	114-66	1346	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										
28-322							391-66										
28-348				55616													

# BULKHEAD FITTINGS

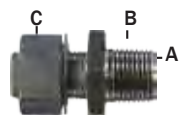
## BRASS FITTINGS

Part #	Terminal Bolts/ Frame			Length (in.)	List
	A	B	C		

### STEEL BULKHEAD FITTINGS

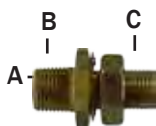


28306	1/4-18 NPTF	3/4 - 16 UNS		0.94	
28307	1/4-18 NPTF	3/4 - 16 UNS		1.50	
28308	3/8-18 NPTF	1 - 14 UNS		1.31	

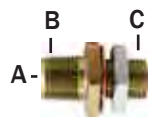


#### FEMALE PIPE X MALE PIPE

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	

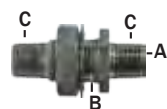


28345	1/4-18 NPTF	3/4 - 16 UNS	1/2-14 NPTF	2-5/32	
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#### FEMALE PIPE X MALE PIPE

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

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



PART #	SIZE	HOLE SIZE	HEX	LENGTH
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

#### BULKHEAD FITTINGS - STAINLESS STEEL 316 NPT (3/4-2")



PART #	SIZE	HOLE SIZE	HEX	LENGTH
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"

**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](http://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.

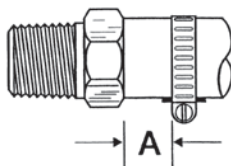
### • Tolerance

+/- .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.



• For Lead Free AB1953 Compliant Fittings see pages 161

Other Barbs available



See page 334-347 for plastic hose barb fittings



See page 27-28 for stainless steel hose barbs



See page 358 for King Nipples

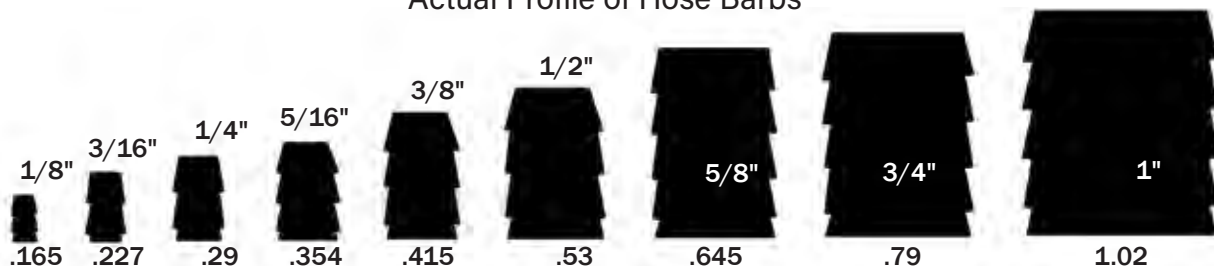


Stainless Steel hose barbs for beverage service available -

See beverage fitting section, pg. 28-29

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



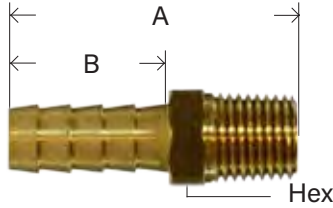


# HOSE BARB

## 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.
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
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
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
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

\* See page 27 for stainless steel.

See page 28 for beverage #303 stainless fittings

See our website for bronze sizes 1/2-4"

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

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BRASS

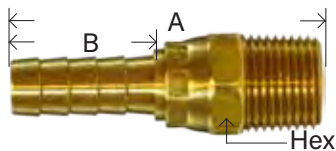
• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR MORE SIZES

**HOSE BARB**

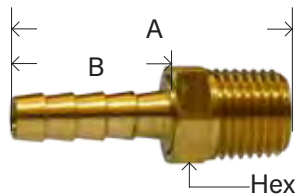
## BRASS FITTINGS

**BRASS RIGID MALE BSPT BARB ADAPTER**29SWV  
29MS

PART #	HOSE I.D. X MALE BSPT
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 ADAPTER**

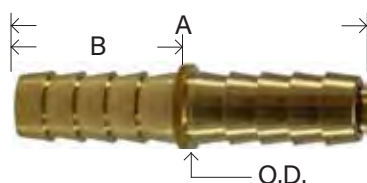
Rotation 360°



PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.
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.
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/ SPLICER**29S  
129S

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.
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



\* Add SS to the end of the part number for Stainless.

\*\* See hose splicers on page 27 for Stainless.

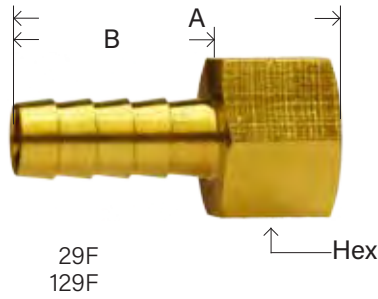
**WARNING:** This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



# HOSE BARB

## BRASS FITTINGS

### RIGID FEMALE ADAPTER



PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.
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

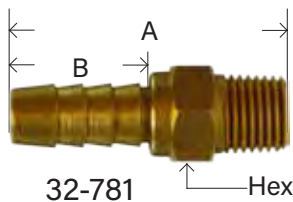
### SWIVEL FEMALE ADAPTER NPTF



PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.
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.
32781	3/8" x 1/4"	1.83	0.87	0.62	0.07
28415	1/4" x 1/4"	1.30	0.94	0.81	0.14
28417	3/8" x 1/4"				



4065

**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](http://www.P65Warnings.ca.gov)

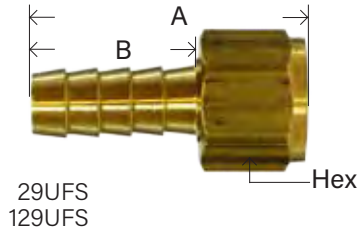
BRASS

**HOSE BARB**

## BRASS FITTINGS

**SWIVEL FEMALE ADAPTER - WITH GASKET**

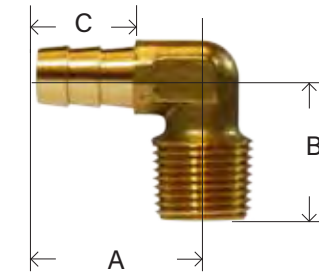
- NPSM Thread
- National Pipe Straight Gasket Seal Swivel



- 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.
32131	1/8" x 1/8"	0.90	0.46	0.50	0.02
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
32130	5/16" x 1/4"	1.50	0.97	0.62	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 29FSG 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.
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



\* Add SS to the end of the part number for Stainless. See page 27.

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

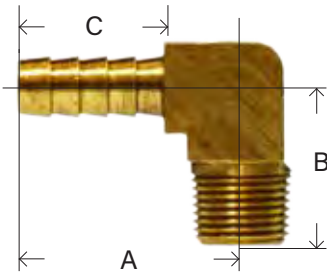
**WARNING:** This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



# HOSE BARB

## BRASS FITTINGS

### BARSTOCK HOSE BARB 90° ELBOW

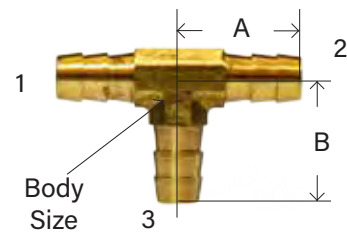


29EBS

PART #	HOSE I.D. X MALE NPTF	A	B	C	BODY SIZE	APPROX. WT. LBS.
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
32036B	5/16" X 1/8"	1.06	0.66	0.76	0.44	0.04
32040B	5/16" X 1/4"	1.12	0.84	0.76	0.58	0.07
32310B	5/16" X 3/8"	1.19	0.84	0.76	0.72	0.09
32046B	3/8" X 1/8"	1.32	0.94	0.97	0.58	0.06
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
32048B	1/2" X 1/4"	1.53	1.06	0.97	0.72	0.12
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



Body Size



29T  
129T

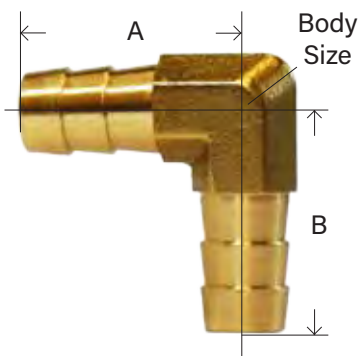
32-128

PART #	HOSE BARB SIZE (1 & 2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.
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

\* Add SS to the end of the part number for Stainless.

**T** \*\* See page 29 for stainless steel.

### 90° HOSE BARB ELBOW



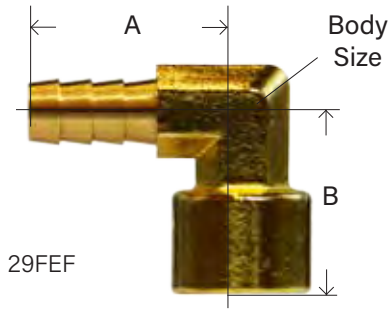
Body Size

PART #	HOSE I.D. X HOSE I.D.	A	B	BODY SIZE	APPROX. WT. LBS.
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

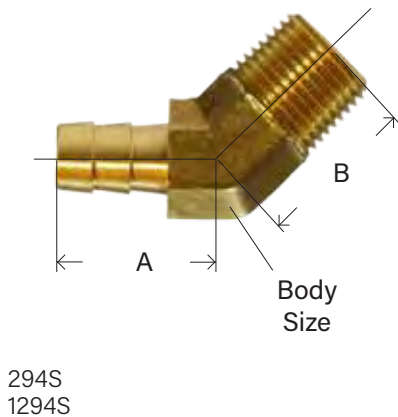
\* Add SS to the end of the part number for Stainless.

**HOSE BARB**

## BRASS FITTINGS

**90° FEMALE HOSE BARB ELBOW**

PART #	HOSE I.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
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° ELBOW**

PART #	HOSE I.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
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
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
32608	1/4
32609	5/16
32610	3/8

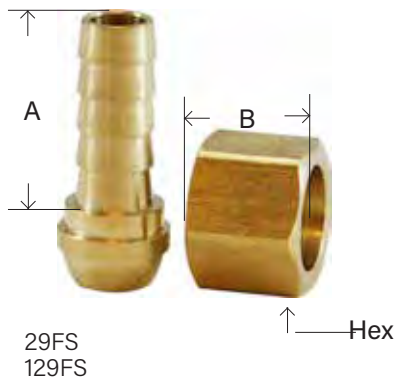
Hose Wyes available with extended lead time.

**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](http://www.P65Warnings.ca.gov)

# HOSE BARB

## BRASS FITTINGS

### BALL END SWIVEL NPSM - Ball seat type



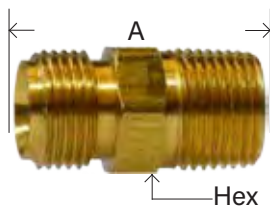
29FS  
129FS

PART #	HOSE I.D. X NPSM	A	B	HEX	APPROX. WT. LBS.
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
32962	3/16" x 3/8"	0.75	0.63	0.75	0.05
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
32389	5/16" x 3/8"	0.97	0.63	0.75	0.07
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

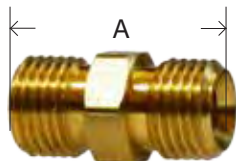


30° Seat

PART #	NPSM X MALE NPTF	A	HEX	APPROX. WT. LBS.
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

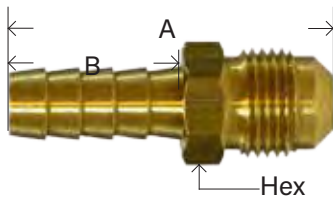
### BALLSEAT UNION



30° Seat

PART #	NPSM X NPSM	A	HEX	APPROX. WT. LBS.
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.
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

\* Add SS to the end of the part number for Stainless. 142 201BF KF-MS KDS

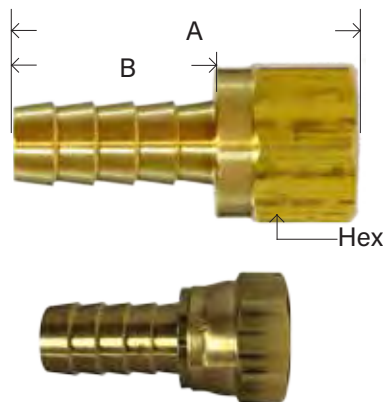
### COMPRESSION ADAPTER - BARB X MALE COMPRESSION



PART #	SIZE
18534	1/4" x 1/4"

**HOSE BARB**

## BRASS FITTINGS

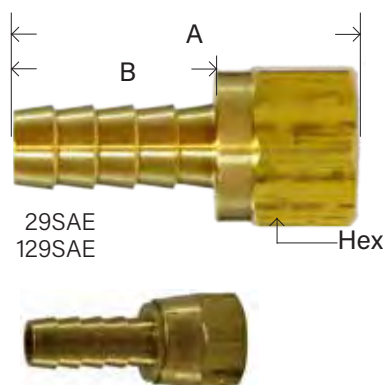
**DUAL 45°/ 37° FLARE SWIVEL**

CRIMP STYLE

PART #	HOSE ID X DUAL SEAT	THREAD	A	B	HEX	APPROX. WT. LBS.
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

\*\* Swivel crimp style

KDS

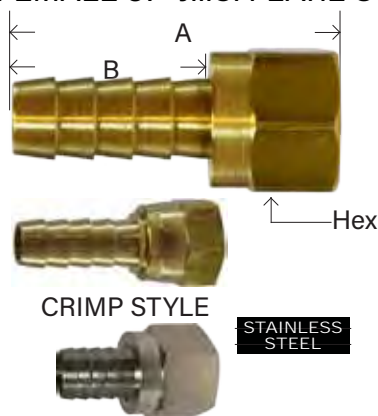
**FEMALE 45° FLARE SWIVEL**29SAE  
129SAE

CRIMP STYLE

PART #	HOSE I.D. X FEMALE 45° FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.
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

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

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

**FEMALE 37° J.I.C. FLARE SWIVEL**

CRIMP STYLE

STAINLESS  
STEEL

32338SS

PART #	HOSE ID X FEMALE 37° FLARE	THREAD	A	B	HEX	APPROX. WT. LBS.
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

KJS

\*Available in swivel crimp style - add a "C" at the end of the part # ( 100 piece minimum )

\*\* Swivel crimp style

USE OUR TEXT LINE **855-609-3729** TO COMMUNICATE  
WITH MIDLAND MORE CONVENIENTLY

**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](http://www.P65Warnings.ca.gov)



# REUSABLE BRASS FITTINGS

## REUSABLE MALE FITTINGS



29RU17

PART #	HOSE ID	HOSE OD	MALE NPTF
32727	1/4"	1/2"	1/4"
32728	1/4"	9/16"	1/4"
32726	1/4"	5/8"	1/4"
32741	5/16"	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"

## REUSABLE FEMALE SWIVEL STEMS



PART #	HOSE ID	FEMALE NPSM
32770	1/4"	1/4"-18
32771	3/8"	3/8"-18

## REUSABLE FEMALE SWIV-



29RU16

PART #	HOSE ID	HOSE OD	FEMALE NPSM
32772	1/4"	1/2"	1/4"
32773	3/8"	5/8"	3/8"
32774	3/8"	11/16"	3/8"
32775	1/2"	7/8"	1/2"

## REUSABLE FERRULES



PART #	HOSE ID	HOSE OD
32749	1/4"	1/2"
32751	1/4"	9/16"
32752	1/4"	5/8"
32753	3/8"	5/8"
32754	3/8"	11/16"
32755	3/8"	3/4"
32756	1/2"	7/8"

## REUSABLE MALE STEMS



PART #	HOSE ID	MALE NPT THREAD
32758	1/4"	1/4"
32759	3/8"	1/4"
32760	3/8"	3/8"
32761	1/2"	1/2"

obstacles are things a person sees when he takes his eyes off his goal.

- E. Joseph Cossman

**HOSE BARB**

BRASS FITTINGS

**BRASS FUEL HOSE BARBS**

**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 #
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
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 #
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 #
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
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

**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](http://www.P65Warnings.ca.gov)



# WELDED HOSE FITTINGS

## BRASS FITTINGS

### INVERTED FLARE MALE SWIVEL 90° ELBOW

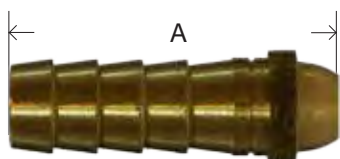
HOSE BARB X TUBE O.D.



Part #	Hose ID	Inv. Flare	Ind #
38873	5/16	5/16	1405
38874	3/8	3/8	1407

## WELDED HOSE FITTINGS

### STEM ONLY - WELDING HOSE CONNECTOR

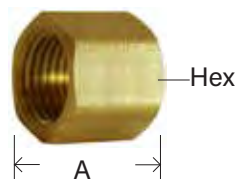


PART #	HOSE I.D.	A	APPROX. WT. LBS.
30410	3/16"	1.43	0.02
30411	1/4"	1.43	0.02
30413	3/8"	1.43	0.04

Assemble with nuts below.

201RWA WRS WLS

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

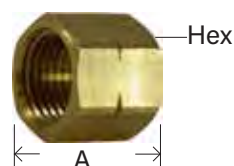


PART #	SIZE	A	HEX	APPROX. WT. LBS.
30420	R.H. Nut only	0.63	0.68	0.04

Assemble with stem above.

201RWA WRS KF-PE 152

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

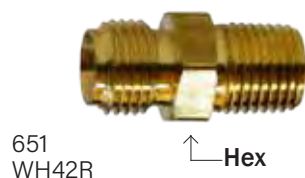


PART #	SIZE	A	HEX	APPROX. WT. LBS.
30421	L.H. Nut only	0.63	0.68	0.04

Assemble with stem above.

209LWA WLS 154 KF-RE

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

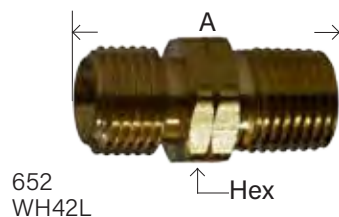


PART #	SIZE	A	HEX	APPROX. WT. LBS.
30401	1/4"-18	1.30	0.62	0.06
32437	3/8"-18	1.30	0.68	0.09
32438*	9/16"-18	1.25	0.68	0.07

\* Right UNF thread

156

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



PART #	SIZE	A	HEX	APPROX. WT. LBS.
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

# 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.

	.25	.375	.50
<b>OD</b>	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>
<b>ID</b>	<b>1/8</b>	<b>1/4</b>	<b>3/8</b>
	.125	.25	.375

### UNION



29MBS  
TUBE O.D. (TUBE I.D.) X TUBE O.D. (TUBE I.D.)

PART #	SIZE
21003	1/4(1/8) x 1/4(1/8)
21007	3/8(1/4) x 1/4(1/8)
21009	3/8(1/4) x 3/8(1/4)

### MALE ADAPTER



29MB  
TUBE O.D. (TUBE I.D.) X MALE PIPE

PART #	SIZE
21021	1/4(1/8) x 1/16
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

### FEMALE ADAPTER



29FMB  
TUBE O.D. (TUBE I.D.) X FEMALE PIPE

PART #	SIZE
21043	1/4(1/8) x 1/8
21046	3/8(1/4) x 1/4
21049	1/2(3/8) x 3/8

1066 966 26 668

### BULKHEAD UNION



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

PART #	SIZE
21082	1/4(1/8)
21083	3/8(1/4)
21084	1/2(3/8)

1074

### UNION ELBOW



1065  
965

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

PART #	SIZE
21095	1/4(1/8)
21097	3/8(1/4)
21099	1/2(3/8)

### MALE 90° ELBOW



29MBE  
TUBE O.D. (I.D.) X MALE PIPE

PART #	SIZE
21109	1/8" x 1/4-28"
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

### FEMALE 90° ELBOW



29MBFE

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

PART #	SIZE
21133	1/4(1/8) x 1/8

1070 970 230

### UNION TEE



29MBT

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

PART #	SIZE
21151	1/4(1/8)
21153	3/8(1/4) X 3/8(1/4) X 1/4(1/8)
21155	3/8(1/4)
21159	1/2(3/8) X 1/2(3/8) X 3/8(1/4)
21161	1/2(3/8)

1064 964 224

### MALE BRANCH TEE



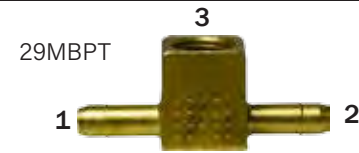
29MRMT

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

PART #	SIZE
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
21207	1/4(1/8) x 1/4(1/8) x 1/8

1077 978

### TWO BARB FITTINGS

More Sizes Available - Please Ask!

	.25	.375	.50
<b>OD</b>	<b>1/4</b>	<b>3/8</b>	<b>1/2</b>
<b>ID</b>	<b>1/8</b>	<b>1/4</b>	<b>3/8</b>
	.17	.25	.375

### MALE ADAPTER PIPE



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

PART #	SIZE
32150	1/4(1/8) x 1/8
32151	1/4(1/8) x 1/4
32153	3/8(1/4) x 1/4

28

### UNION TEE



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

### 90° ELBOW



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

225

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# BARSTOCK/ CAST SS HOSE BARB

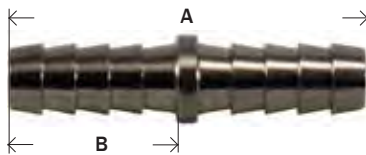
## BRASS FITTINGS

### 316 STAINLESS STEEL MACHINED RIGID MALE ADAPTER



PART #	HOSE I.D. X NPT
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
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
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
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
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
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"



• See King nipples on page 312

**BEVERAGE FITTINGS**

## BRASS FITTINGS

**BARB TO MALE PIPE ADAPTER**STAINLESS  
STEEL

PART #	SIZE
34587	1/4" x 1/8"
34588	1/4" x 1/4"
34589	1/4" x 3/8"
34590	3/8" x 1/8"
34591	3/8" x 1/4"
34592	3/8" x 3/8"
34595	3/8" x 1/2"
34597	1/2" x 3/4"

**BARB TO MALE FLARE ADAPTER**STAINLESS  
STEEL**HOSE ID X 45° FLARE**

PART #	SIZE
34579	1/4" x 1/4"
34586	1/4" x 5/16"
34584	1/4" x 3/8"
34580	1/4" x 1/2-16"
34583	3/8" x 1/4"
34585	3/8" x 3/8"
34581	3/8" x 1/2-16"

**FEMALE FLARE SWIVEL SETS**STAINLESS  
STEEL

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

**ONE PIECE SWIVEL BARB X FE.**STAINLESS  
STEEL

PART #	SIZE
34510	3/8" x 1/4"

**HOSE SPLICER (STRAIGHT)**STAINLESS  
STEEL**ID HOSE**

PART #	SIZE
34532	3/16"
34533	1/4"
34534	1/4" x 3/16"
34536	5/16"
34537	5/16" x 1/4"
34535	3/8"
34538	3/8" x 3/16"
34543	3/8" x 1/4"
34539	3/8" x 5/16"
34540	1/2" x 3/8"

**THINWALL SPLICERS**STAINLESS  
STEEL

PART #	SIZE
34533T	1/4"
34535T	3/8"
34541T	1/2"
34540T	1/2" x 3/8"
34543T	3/8" x 1/4"

**PLUG**STAINLESS  
STEEL

PART #	SIZE
34572	1/4"
34574	3/8"

**THINWALL**

PART #	SIZE
34572T	1/4"
34574T	3/8"

**BARB X COMPRESSION**STAINLESS  
STEEL

PART #	SIZE
34625	1/4" x 3/8"
34626	3/8" x 3/8"

**PLATED BRASS SPLICERS**

## ID SIZES

VINYL TUBE ID/ PL. TUBE ID



PART #	SIZE
34725	3/16"/1/4"
34726	1/4" x 3/16"/ 5/16" x 1/4"
34728	5/16"/3/8"
34727	5/16" x 3/16"/ 3/8"/1/4"

**TAILPIECES****SS BARB X SWIVEL SHANK**

PART #	SIZE
34711	-/ 3/16"
34713	3/16"/ 1/4"
34715	1/4"/ 5/16"
34716	3/8"/-
34717	1/2"/ 3/8"

**N/P BRASS**

PART #	SIZE
34710	3/16"/1/4"
34712	1/4"/5/16"
34714	5/16"/3/8"
34716	3/8"/-
34718	1/2"/-

**#304 SS 90° ELBOW**

PART #	SIZE
34720	3/16"/-
34721	1/4"/1/4"
34722	5/16"/5/16"
34723	3/8"/3/8"
34724	1/2"/1/2"

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# BEVERAGE FITTINGS

## BRASS FITTINGS

### 90° SWIVEL ELBOW



#### HOSE ID X FEMALE 45°

PART #	SIZE
34525	1/4" x 1/4"
34526	3/8" x 1/4"
34529	3/8" x 3/8"
34531	1/2" x 1/2"

### BARB TO SWIVEL ELBOW



#### HOSE ID X FEMALE 45° FLARE

PART #	SIZE
34600	1/4" x 1/4"
34601	3/8" x 1/4"

### MALE ELBOWS



#### HOSE ID X MALE NPTF

PART #	SIZE
34610	1/4" x 1/8"
34611	3/8" x 1/4"
34612	3/8" x 3/8"
34613	1/2" x 1/2"

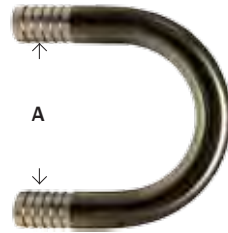
### FEMALE ADAPTERS



#### BARB X FEMALE PIPE

PART #	SIZE
34661	1/4"
34658	1/2"

### U-BEND



PART #	SIZE	A
34633	3/8"	2

### THINWALL U-BEND

Part #	Size	A
34633T	3/8"	1-1/2

### U-BEND W/MANIFOLD



#### THINWALL

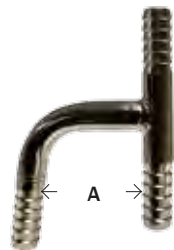
PART #	SIZE
34621T	1/4"
34622T	3/8"

### CROSS



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

### Y TEES



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

### BARB HOSE TEES



#### ID HOSE

PART #	SIZE
34561	1/8"
34562	1/4"
34565	5/16"
34563	3/8"

#### REDUCING TEES

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

#### THINWALL TEES



PART #	SIZE
34562T	1/4"
34565T	5/16"
34563T	3/8"
34564T	1/2"

#### REDUCING THINWALL TEES

PART #	1&2	3
34567T	1/4"	3/8"
34568T	3/8"	1/4"

### 90° BARB SPLICER



#### ID HOSE

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

#### THINWALL 90° BARB SPLICERS



PART #	SIZE
34551T	1/4"
34552T	3/8"
34553T	1/2"

**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. Midland 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



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

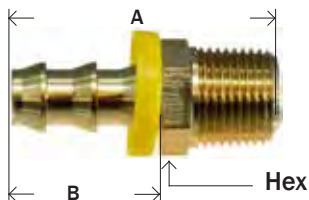
**WARNING:** This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



# PUSH-ON FITTINGS

## BRASS FITTINGS

### MALE ADAPTER



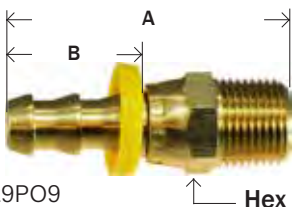
29PO1  
129PO1

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.
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

- See page 161 for lead free
- See page 36 for Stainless

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

### MALE SWIVEL

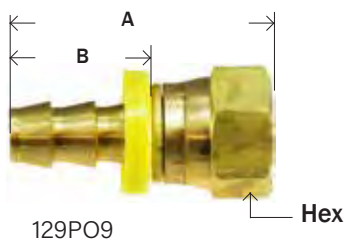


29PO9  
129PO2

PART #	HOSE I.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.
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
30423	3/8" x 1/8"	2.12	0.97	0.56	0.07
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

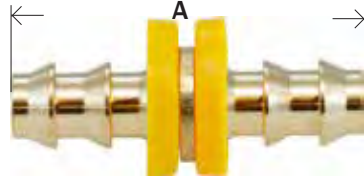
PART #	HOSE I.D. X GASKET SWIVEL (NPSM)	A	B	HEX	APPROX. WT. LBS.
30359	1/4" x 1/8"	1.39	0.77	0.50	0.03
30358	1/4" x 1/4"	1.47	0.82	0.68	0.06
30360	3/8" x 1/4"	1.61	1.00	0.68	0.06
30361	3/8" x 3/8"	1.77	0.97	0.81	0.08
30362	3/8" x 1/2"	1.80	0.92	0.93	0.09
30363	1/2" x 1/2"	1.90	1.02	0.93	0.11
30366	3/4"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

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

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

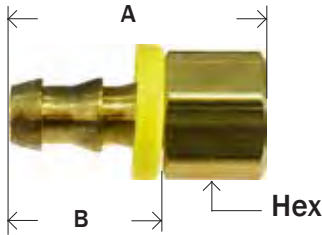
**PUSH ON HOSE BARB**

## BRASS FITTINGS

**HOSE SPLICER**29P08  
129PO14

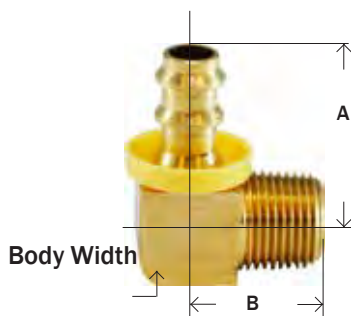
PART #	HOSE I.D.	A	APPROX. WT. LBS.
30300	1/4"	1.87	0.04
30305	5/16"	1.80	0.04
30301	3/8"	2.00	0.06
30302	1/2"	2.01	0.08
30303	5/8"	3.03	0.14
30304	3/4"	3.03	0.14
30306	1"	3.21	0.28

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

**RIGID FEMALE ADAPTER**29PO2  
129PO7

PART #	HOSE I.D. X FEMALE NPTF	A	B	HEX	APPROX. WT. LBS.
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
30391	5/16" x 1/8"	1.32	0.77	0.50	0.03
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
30397	3/8" x 3/4"	1.97	0.97	1.18	0.20
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
30398	5/8" x 3/8"	2.24	1.55	0.75	0.10
30229	5/8" x 1/2"	2.24	1.48	0.93	0.11
30403	5/8" x 3/4"	2.26	1.44	1.19	0.20
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
30400	1" x 3/4"	2.55	1.55	1.18	0.25
30402	1" x 1"	2.68	1.55	1.43	0.37

30282 29FPO HLF 626 274 726 940

**MALE ELBOW**29POE  
129PO20

PART #	HOSE I.D. X MALE NPTF	A	B	BODY WIDTH	APPROX. WT. LBS.
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
30383	3/4" x 1/2"	2.15	1.24	0.87	0.25
30381	3/4" x 3/4"	2.07	1.28	1.06	0.34

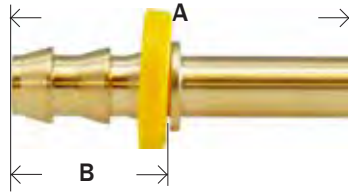
100-C 29EPO 273

**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](http://www.P65Warnings.ca.gov)

# PUSH ON HOSE BARB

## BRASS FITTINGS

### RIGID TUBE ADAPTER

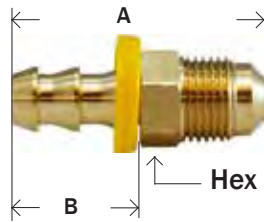


29PO1D  
129PO15

PART #	HOSE I.D. X O.D TUBE	A	B	APPROX. WT. LBS.
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
30426	3/8" x 1/2"	1.81	0.97	0.04
30297	1/2" x 1/2"	2.13	1.02	0.06
30298	5/8" x 5/8"	2.61	1.50	0.10
30299	3/4" x 3/4"	2.61	1.50	0.25

294 100B-X KA-RL 303 732 694

### MALE SAE FLARE ADAPTER

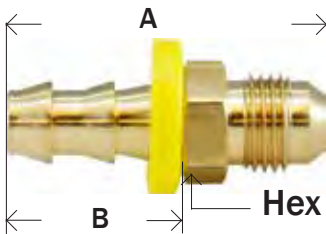


29PO3  
129PO4

PART #	HOSE I.D. X 45° MALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.
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

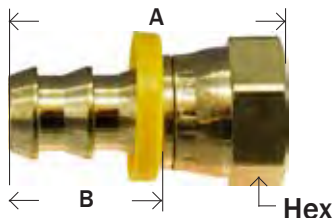
### 37° MALE JIC FLARE ADAPTER



29PO11  
129PO6

PART #	HOSE I.D. X MALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.
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.
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

\* See page 36 for stainless

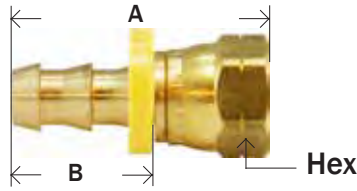
\* See page 161 for lead free

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**

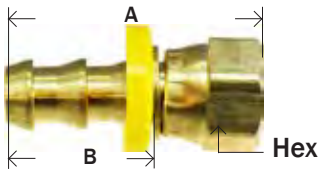
## BRASS FITTINGS

**45° SAE FLARE FEMALE SWIVEL**

29P06  
129P014

PART #	HOSE I.D. X 45° FEMALE FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.
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

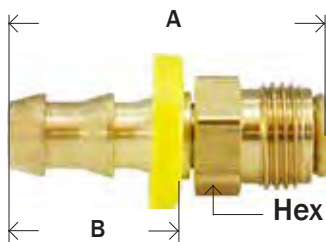
**FEMALE 37° JIC FLARE SWIVEL**

29P07  
129P012

PART #	HOSE I.D. X FEMALE JIC	UNF THREAD	A	B	HEX	APPROX. WT. LBS.
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

\* See page 36 for stainless

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

**INVERTED FLARE MALE SWIVEL**

29P016  
129P06

PART #	HOSE I.D. X MALE INV FLARE	UNF THREAD	A	B	HEX	APPROX. WT. LBS.
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
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



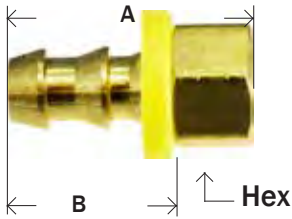
SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING



# PUSH ON HOSE BARB

## BRASS FITTINGS

### INVERTED FLARE FEMALE ADAPTER

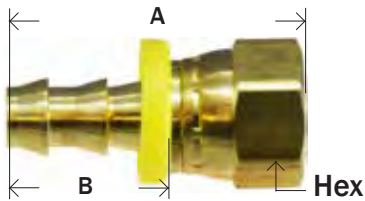


29P013  
129P013

PART #	HOSE I.D. X FEMALE INV FLARE	A	B	HEX	APPROX. WT. LBS.
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

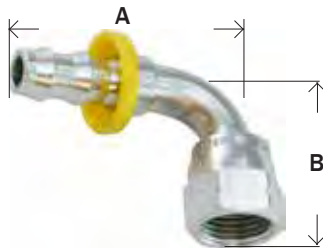


29P04  
129P08

PART #	HOSE I.D. X FEMALE NPSM	A	B	HEX	APPROX. WT. LBS.
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
30430	3/8" x 1/2"	1.79	0.97	0.93	0.11
30346	1/2" X 1/2"	1.88	1.09	0.93	0.12
30345	1/2" x 3/4"	2.36	1.02	1.18	0.18
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.
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
30486	3/4"	1-1/16-12	3.26	1.81	.281

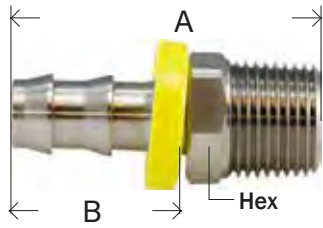
\* SAE

When we ask for advice, we are usually looking for an accomplice

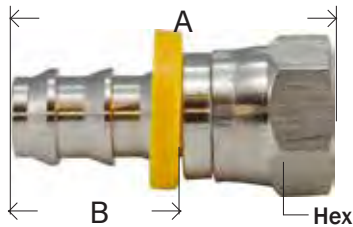
~ Marquis de la Grange

**STAINLESS STEEL PUSH ON 316 HOSE BARB**

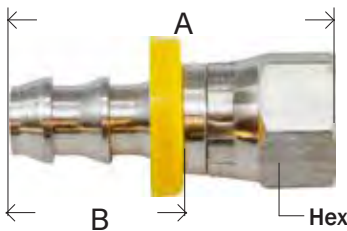
BRASS FITTINGS

**316 STAINLESS STEEL MALE ADAPTERS**

PART #	HOSE I.D. X NPT	A	B	HEX	APPROX. WT. LBS.
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.
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.
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

If opportunity doesn't knock, build a door.

- Milton Berle



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

**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](http://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



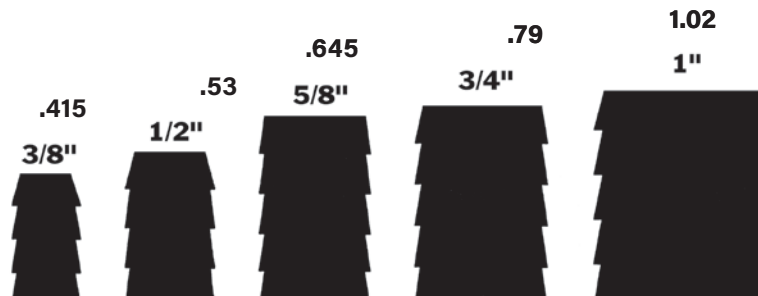
See Plastic section for Plastic Garden Hose Fittings



See page 162 for lead free Garden Hose

Washers included are #30150B black rubber 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](http://www.P65Warnings.ca.gov)

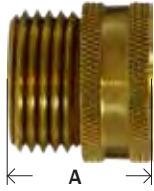
BRASS

**STAINLESS STEEL PUSH ON 316 HOSE BARB**

BRASS FITTINGS

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

Internal Hex ↘

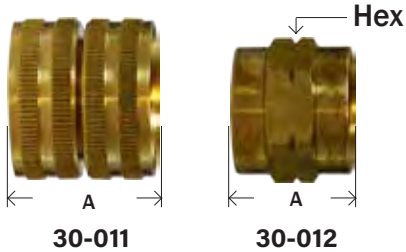


PART #	MGH X FGH	A	HEX	APPROX. WT. LBS.
30000**	3/4" x 3/4"	1.03	0.50*	0.26

\* 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.
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 101GHSV 22AS 506 FS66

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

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
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 98GHSV 5AS 21517 502 FS65

**EVAPORATIVE COOLER FITTINGS**

PART #	SIZE
50016	MGH x 1/2" FIP
30013	1/2 MIP x 1/2 FIP x 1/8
30019	3/4 MIP x 3/4 FIP x 1/8
30020	MGH x FGH x 1/8

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

PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
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

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# GARDEN HOSE

## BRASS FITTINGS

### RIGID - FGH X FEMALE PIPE

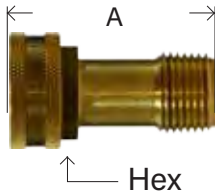


PART #	FGH X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
30078	3/4" x 1/2"	1.06	1.18	0.10
30083	3/4" x 3/4"	1.06	1.18	0.12

FS67 198 HU11 21507 501 99GH 5A H15PP

### SWIVEL - FGH X MALE PIPE

• WASHER INCLUDED

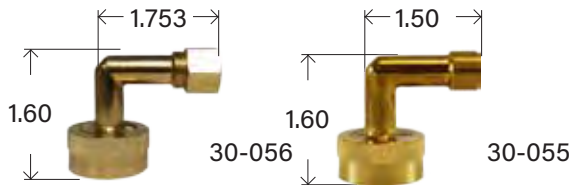


PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.
30047	3/4" x 1/4"	2.04	0.75	0.13
30048	3/4" x 3/8"	2.06	0.75	0.14
30049	3/4" x 1/2"	2.06	0.87	0.18

504 89GH W1 62H4 88GH W1

### 3/8" COMP 3/4" FGH DISHWASHER 90° ELBOW

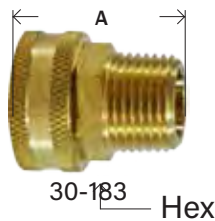
• WASHER INCLUDED



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

### SWIVEL - FGH X MALE PIPE

• WASHER INCLUDED



30-183 Hex

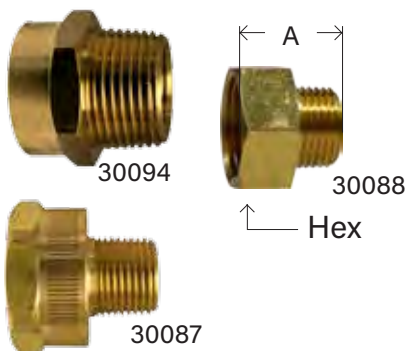


\* Crimp style

PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.
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

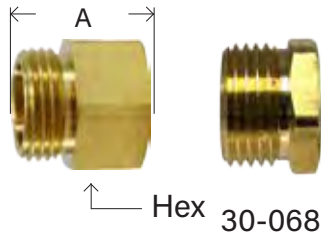


PART #	FGH X MALE NPTF	A	HEX	APPROX. WT. LBS.
30087	3/4" x 3/8"	1.37	1.18	0.11
30088	3/4" x 1/2"	1.06	1.18	0.09
30088S	3/4" x 1/2"(1/2"SWT)			
30093	3/4" x 3/4"	1.06	1.18	0.11
30094	3/4" x 3/4"(1/2" FIP)	1.17	1.18	0.11
30093L*	3/4" x 3/4"	1.22	1.18	0.14

\* Long pattern

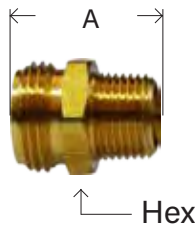
\*\* 1/2 Swt = 5/8 O.D.

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.
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
30075	1" x 1"	1.60	1.38	0.25

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

**RIGID - MGH X MALE PIPE**

PART #	MGH X MALE NPTF	A	HEX	APPROX. WT. LBS.
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

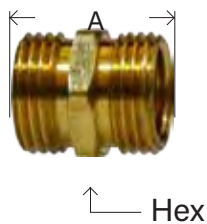
No Tap

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

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

\*\* (Tapped 1/2 FIP)

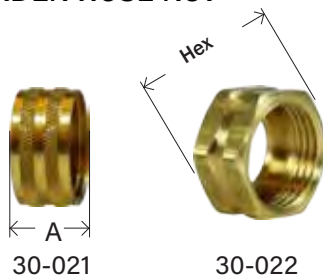
\*\*\* (Tapped 1/2 FIP Both ends)

**RIGID - MGH X MGH**

PART #	MGH X MGH	A	HEX	APPROX. WT. LBS.
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
30101	1" x 1"	1.38	1.37	0.23

\* 1-11-1/2

21500 509 75GH 23A H8 19R

**GARDEN HOSE NUT**

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

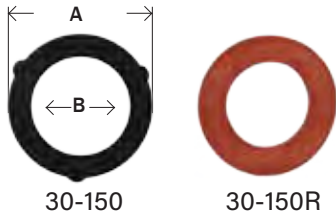
Dimension data can change without notice. Please see our website when dimensions are critical.

94GH GHN1 HNR 21514

# GARDEN HOSE

## BRASS FITTINGS

### GARDEN HOSE WASHERS

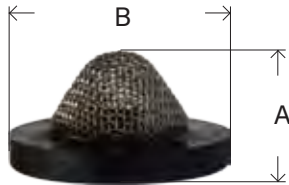


PART #	SIZE	A	B	THICK-NESS	APPROX. WT. LBS.
30150	black*	0.98	0.68	0.13	0.01
30150R	red	1.00	0.68	0.13	0.01
30150B	black rubber	1.00	0.68	0.13	0.01
30151	1"	1.27	0.86	0.16	0.01

\* plasticized rubber

GHW 901GH

### GARDEN HOSE FILTER WASHER



▪ 300 Series Stainless Steel Screen

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

LA662

### GARDEN HOSE CAP

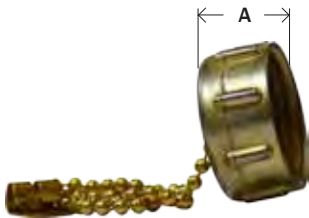


PART #	SIZE	A	APPROX. WT. LBS.
30103	3/4" Die Cast	0.58	0.04
30103B	3/4" Barstock	0.60	0.048

513 96GH GHN5 HC1 LA215 21518 200-W

▪ Garden hose washers sold seperately

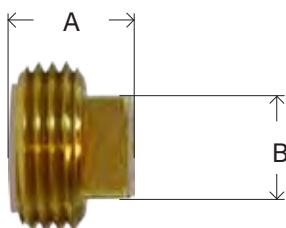
### GARDEN HOSE CAP WITH CHAIN



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

\* Zinc die cast

### GARDEN HOSE PLUG



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

**GARDEN HOSE**

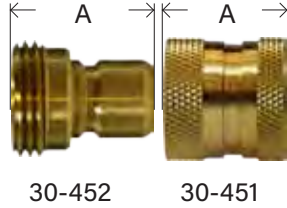
## BRASS FITTINGS

**HOSE MENDERS - SOLID BARB X BARB**

PART #	HOSE I.D. X HOSE I.D.	A	B	O.D.	APPROX. WT. LBS.
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

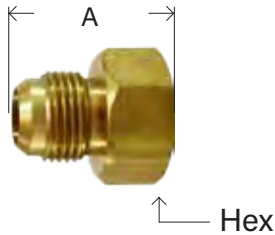
**QUICK DISCONNECT GARDEN HOSE COUPLERS****.WASHER INCLUDED**

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



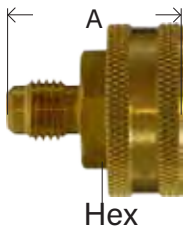
PART #	SIZE	A	APPROX. WT. LBS.
30450	Complete	1.70	0.24
30451	Female end	1.14	0.12
30452	Male end	1.26	0.12
30149	Recessed Washer	1.02	0.01

LA73C

**MALE FLARE X FGH RIGID**

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.
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

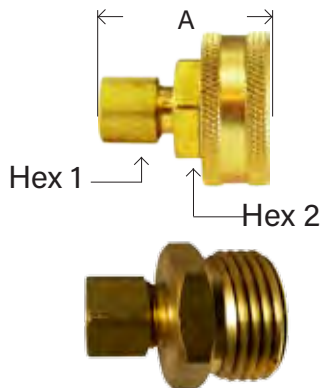
190 46WH HFU21

**MALE FLARE X FGH SWIVEL****.WASHER INCLUDED**

PART #	MALE FLARE X FGH	A	HEX	APPROX. WT. LBS.
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

\* Internal Hex

50GHSV 51GHSV W1 68H 191

**COMPRESSION X FGH****.WASHER INCLUDED**

PART #	SWIVEL COMPRESSION X FGH	A	HEX 1	HEX 2	APPROX. WT. LBS.
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.
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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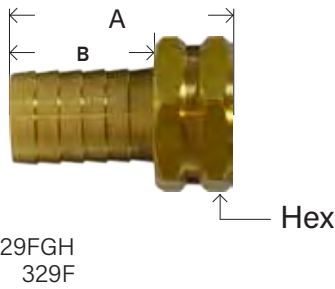
# GARDEN HOSE

## BRASS FITTINGS

### BARSTOCK BRASS GARDEN HOSE COUPLINGS

#### FEMALE SWIVEL ONLY

**•WASHER INCLUDED**



#### BRASS

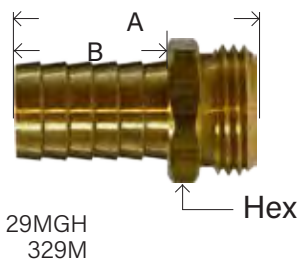
PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.
30031	3/8" x 3/4"	1.82	1.19	1.18	0.11
30032	1/2" x 3/4"	1.82	1.19	1.18	0.12
30033	5/8" x 3/4"	1.82	1.19	1.18	0.13
30034	3/4" x 3/4"	1.82	1.19	1.18	0.15
30044	1" x 3/4"	2.10	1.19	1.18	0.18
30035	1" x 1"	2.28	1.47	1.50	0.18



#### 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



#### BRASS

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.
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
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"
30028SS	5/8"
30029SS	3/4"

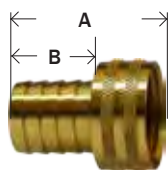
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BRASS

**GARDEN HOSE**

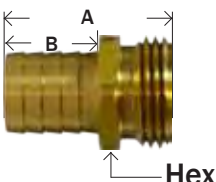
## BRASS FITTINGS

**FEMALE SWIVEL ONLY - SHORT SHANK KNURLED NUT**

PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.
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**

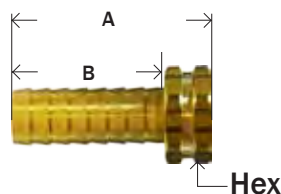
PART #	HOSE X FGH	A	B	HEX	APPROX. WT. LBS.
30453	1/2" x 3/4"	1.63	1.00	1.18	0.11
30454	5/8" x 3/4"	1.63	1.00	1.18	0.11
30455	3/4" x 3/4"	1.63	1.00	1.18	0.13

**MALE END ONLY - SHORT SHANK**

PART #	HOSE BARB X MGH	A	B	HEX	APPROX. WT. LBS.
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

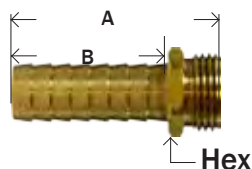
**GARDEN HOSE COUPLING SETS - SHORT SHANK W/ HEX NUT**

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

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

PART #	HOSE BARB X FGH	A	B	HEX	APPROX. WT. LBS.
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.
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
30516	1/2"
30517	5/8"
30518	3/4"



VIEW PRICING AND AVAILABLE STOCK ONLINE

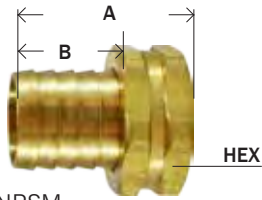
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# NPSM GARDEN HOSE

## BRASS FITTINGS

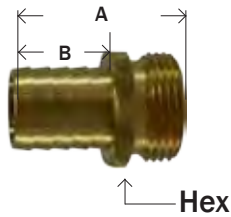
### NPSM FEMALE SHORT SHANK



329NPSM

PART #	HOSE ID	NPSM THREAD	A	B	HEX
30545	1/2	3/4"	1.45	0.88	1.18
30546	5/8	3/4"	1.47	0.88	1.18
30547	3/4	3/4"	1.47	0.88	1.18
30548	1	1"	1.50	1.00	1.50

### NPSM MALE SHORT SHANK



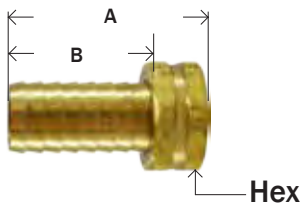
PART #	HOSE ID	NPSM THREAD	A	B	HEX
30550	1/2	3/4"	1.56	0.88	1.06
30551	5/8	3/4"	1.56	0.88	1.06
30552	3/4	3/4"	1.56	0.88	1.06
30553	1	1"	1.77	0.98	1.30

### NPSM SHORT SHANK SETS



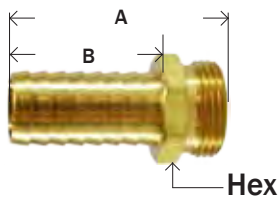
PART #	SIZE
30540	1/2"
30541	5/8"
30542	3/4"
30543	1"

### NPSM FEMALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX
30565	1/2	1/2"	2.09	1.50	0.94
30566	5/8	3/4"	2.09	1.50	1.18
30567	3/4	3/4"	2.09	1.50	1.18
30568	1	1"	2.12	1.53	1.50

### NPSM MALE LONG SHANK



PART #	HOSE ID	NPSM THREAD	A	B	HEX
30570	1/2	1/2"	2.18	1.50	0.87
30571	5/8	3/4"	2.18	1.50	1.06
30572	3/4	3/4"	2.18	1.50	1.06
30573	1	1"	2.32	1.53	1.30

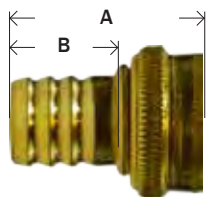
### NPSM LONG SHANK SETS



PART #	SIZE
30560	1/2"
30561	5/8"
30562	3/4"
30563	1"

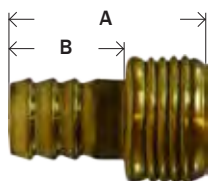
**GARDEN HOSE VALVES/ FITTINGS**

BRASS FITTINGS

**WROUGHT BRASS****WROUGHT BRASS - FEMALE END ONLY****.WASHER INCLUDED**

PART #	HOSE BARB X FGH	A	B	APPROX. WT. LBS.
30526	5/8" x 3/4"	1.58	0.91	0.05
30527	3/4" x 3/4"	1.50	0.84	0.06

85L

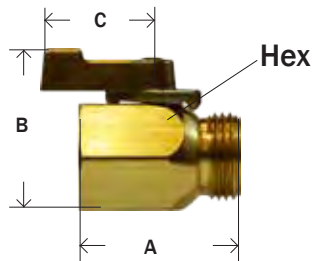
**WROUGHT BRASS COUPLINGS - MALE END ONLY**

PART #	HOSE BARB X MGH	A	B	APPROX. WT. LBS.
30530	1/2" x 3/4"	1.50	0.88	0.02

85M

**GARDEN HOSE VALVES****ONE WAY BRASS BALL VALVE - FGH X MGH**

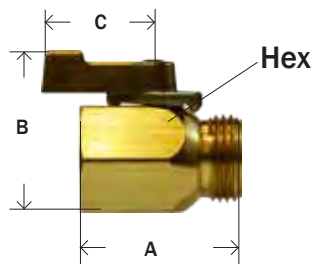
• 500 PSI • 180°F

**. WASHER INCLUDED**

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

**ONE WAY BRASS BALL VALVE - FEMALE PIPE X MGH**

• 500 PSI • 180°F



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

**ZINC ALLOY HOSE SHUT-OFF W/ ONE LEVER****. WASHER INCLUDED**

PART #	FGH X MGH	A	APPROX. WT. LBS.
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.
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](http://www.P65Warnings.ca.gov)



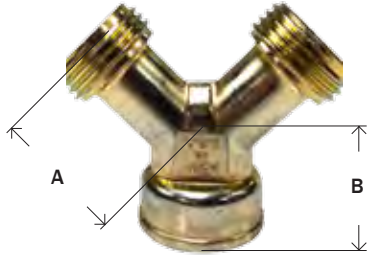


# GARDEN HOSE VALVES

## BRASS FITTINGS

### ZINC ALLOY HOSE - "Y" CONNECTOR

• WASHER INCLUDED

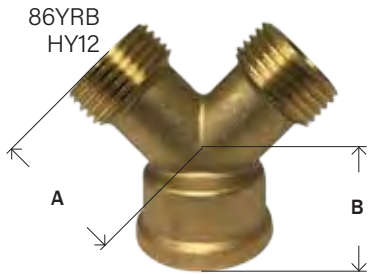


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.
30141	3/4"	1.70	0.57	1.5

86Y 21A

### CAST BRASS HOSE - "Y" CONNECTOR

• WASHER INCLUDED

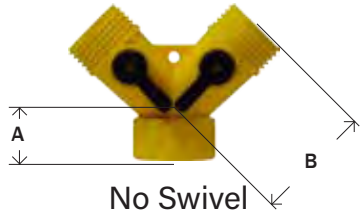


PART #	SIZE FGH X MGH(2)	A	B	APPROX. WT. LBS.
30140	3/4"	1.40	0.67	0.22

86Y 21A

### PLASTIC, NON-CORROSIVE, 2-WAY HOSE SHUT-OFF "Y"

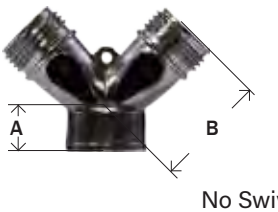
• WASHER INCLUDED



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

### "Y" SHAPE ZINC ALLOY CONNECTOR W/ TWO LEVERS

• WASHER INCLUDED



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

### "Y" SHAPE BRASS CONNECTOR W/ 2-WAY SHUT OFF

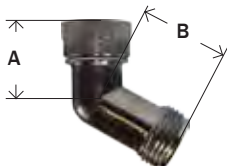
• WASHER INCLUDED



▪ Brass Levers

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

### ZINC ALLOY SWIVEL HOSE CONNECTOR



PART #	SIZE FGH X MGH	A	B	APPROX. WT. LBS.
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](http://www.P65Warnings.ca.gov)

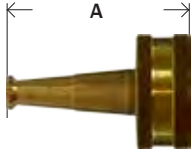
BRASS

**GARDEN HOSE NOZZLES**

BRASS FITTINGS

**2-1/2" BRASS NOZZLE**

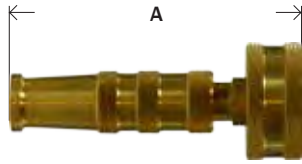
· WASHER INCLUDED



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

**3" CROSSED PATTERN BRASS NOZZLE**

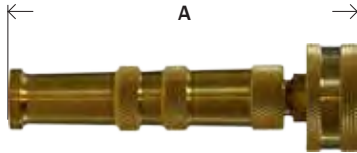
· WASHER INCLUDED



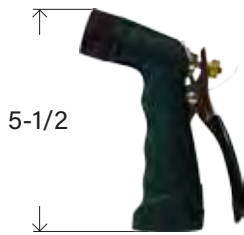
PART #	SIZE	A	APPROX. WT. LBS.
30640	3/4"	2.89	0.25

**4" CROSSED PATTERN BRASS NOZZLE**

· WASHER INCLUDED



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



· WASHER INCLUDED

Adjustable Spray

5-1/2

Part #	Size	Description
30600	5-1/2"	Zinc Alloy spray nozzle with insulated handle soft grip and front thread protector



· WASHER INCLUDED

Lead Free

4-1/4

Part #	Size	Description
30620	4-1/4"	Zinc Alloy spray nozzle

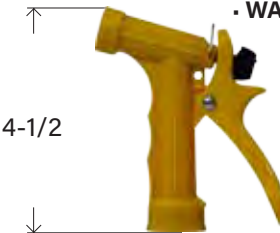


· WASHER INCLUDED

Lead Free  
Adjustable Spray

5-1/4

Part #	Size	Description
30609	5-1/4"	Zinc Alloy spray nozzle with easily adjustable brass head and plastic grip



· WASHER INCLUDED

4-1/2

Part #	Size	Description
30630	4-1/2"	Plastic spray nozzle

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# 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.

### • 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.

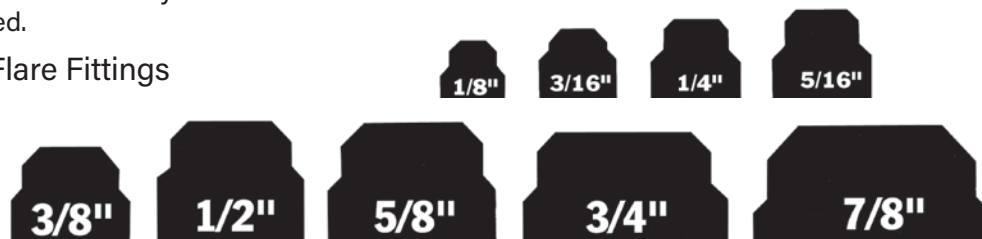
**Note:** Do not over-torque as it may damage the fitting or split the tubing at the flare.

PRICING FILE AVAILABLE ONLINE



• See Lead Free Flare Fittings page 163-164

Actual O.D. of Flare Fittings



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BRASS

**SAE 45° FLARE**

## BRASS FITTINGS

## SHORT ROD NUT

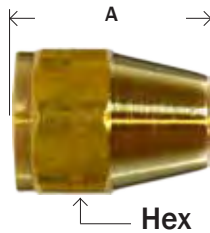
SAE# 010110



PART #	THREAD SIZE UNF	THREAD	A	HEX	APPROX. WT. LBS.
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'

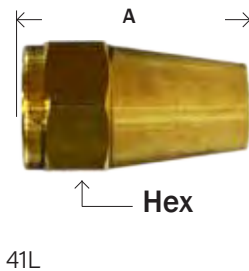
## REDUCING SHORT ROD NUT



PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
10023	3/8" x 1/4"	0.74	0.81	0.06
10024	1/2" x 3/8"	0.86	0.94	0.10
10025	5/8" x 1/2"	0.99	1.06	0.12

## LONG ROD NUT

SAE# 010111



PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
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
10008	3/4"	2.19	1.25	0.34

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.

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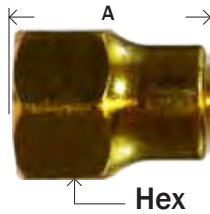


# SAE 45° FLARE

## BRASS FITTINGS

### LONG FORGED NUT

SAE# 010167



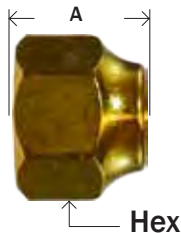
640L  
641L

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
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
10033	3/4"	1.75	1.31	0.35

41FF 39 N4 14FL 641

### SHORT FORGED NUT

SAE# 010166

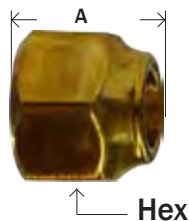


641S  
6401S

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
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 NSA

### EXTRA HEAVY SHORT FORGED NUT



641SH  
6401SXH

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
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.
10051	5/16" x 1/4"	0.66	0.75	0.06
10052	3/8" x 1/4"	0.72	0.81	0.06
10053	3/8" x 5/16"	0.72	0.81	0.08
10054	1/2" x 3/8"	0.81	0.94	0.08
10055	5/8" x 3/8"	0.96	1.12	0.15
10056	5/8" x 1/2"	0.97	1.06	0.12
10058	3/4" x 5/8"	1.17	1.31	0.30

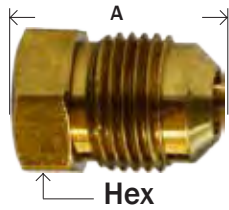
NSR4 14FS 41FRS 40R 662-S

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BRASS

**SAE 45° FLARE**

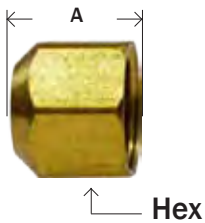
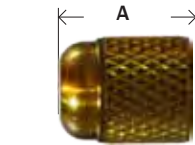
## BRASS FITTINGS

**FLARED PLUG**39  
439

\* See our website for fusible pipe plugs\*

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
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

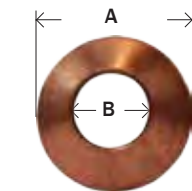
\* Available in Stainless Steel. Add SS to the part# 58 639F PF 57 P2 2229 439

**FLARED CAP**40  
440**FINGER TIGHTENING CAP**NFTS  
FTC5

- Neoprene
- O-Ring Included

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.
10081	1/4"	0.62	0.02
10082	3/8"	0.70	0.03

NFT5

**COPPER GASKET****SAE# 010113**

463

PART #	SIZE	A	B	APPROX. WT. LBS.
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

• FIND FUSIBLE PLUGS ON [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM)

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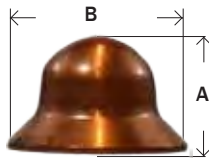


# SAE 45° FLARE

## BRASS FITTINGS

### COPPER BONNET

SAE# 010114

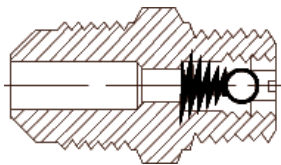
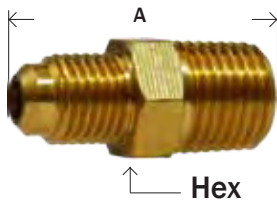


464

PART #	SIZE	A	B	APPROX. WT. LBS.
10094	3/16"	0.16	0.31	0.01
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
10100	3/4"	0.56	0.95	0.01

B1 3GF 64C 57 156 FB 695 464

### MALE BALL CHECK CONNECTOR



43  
403

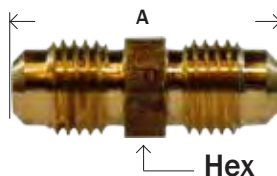
PART #	MALE FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.
10131*	1/4" x 1/8"	1.06	0.43	
10256WC	1/4" x 1/4"	1.24	0.6	0.04
10133*	3/8" x 1/4"	1.31	0.62	0.08
10132	5/16" x 1/8"	1.14	0.50	0.04

43A

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

### UNION

SAE# 010101



42  
402

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
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
10106EH	1/4"	1.55	0.56	0.05
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

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

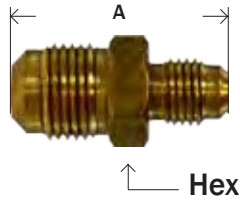
42F U2

"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.

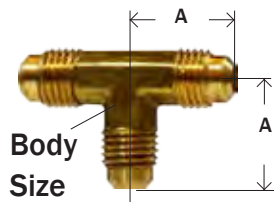
**SAE 45° FLARE**

BRASS FITTINGS

**REDUCING UNION**42R  
506

PART #	THREAD SIZE UNF	A	HEX	APPROX. WT. LBS.
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 44-R

**UNION TEE**

Forged Tee

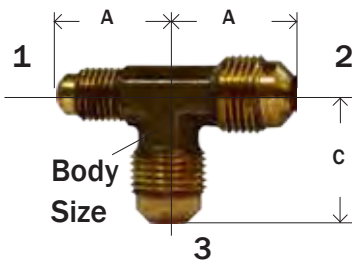
44F  
404  
244

SAE# 010401

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.
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

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

244F T2 144F

**REDUCING TEE 1 X 2 X 3**44FR  
509

PART #	THREAD SIZE UNF 1X2X3	A	C	BODY SIZE	APPROX. WT. LBS.
10170	1/4" x 1/4" x 3/8"	0.91	1.00	0.44	0.10
10171	5/16" x 5/16" x 1/4"	0.94	0.94	0.44	0.12
10172	3/8" x 1/4" x 1/4"	0.91	1.00	0.44	0.10
10173	3/8" x 1/4" x 3/8"	1.00	0.91	0.44	0.12
10174	3/8" x 3/8" x 1/4"	1.00	0.88	0.44	0.11
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
10178	1/2" x 3/8" x 3/8"	1.16	1.12	0.59	0.18
10179	1/2" x 3/8" x 1/2"	1.16	1.09	0.59	0.18
10180	1/2" x 1/2" x 1/4"	1.16	0.97	0.59	0.18
10181	1/2" x 1/2" x 3/8"	1.16	1.12	0.59	0.19
10182	1/2" x 1/2" x 5/8"	1.28	1.41	0.69	0.28
10187	5/8" x 1/2" x 5/8"	1.44	1.33	0.69	0.27
10188	5/8" x 5/8" x 3/8"	1.38	1.16	0.69	0.30
10189	5/8" x 5/8" x 1/2"	1.38	1.28	0.69	0.28

144F TR2 659F 684F 44R

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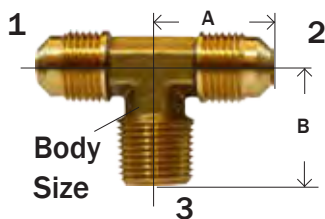


# SAE 45° FLARE

## BRASS FITTINGS

### MALE BRANCH TEE

SAE# 010425

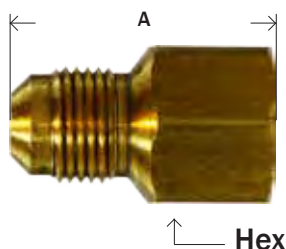


Forged Tee

45R  
245  
405

### FEMALE ADAPTER

SAE# 010103



46  
246  
406

• More sizes available online.

#### "L" means light pat-

-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

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	
10206	1/4" x 3/8"	0.92	1.00	0.47	0.10	
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	
10217	5/8" x 3/8"	1.38	1.25	0.69	0.24	
10218	5/8" x 1/2"	1.41	1.31	0.69	0.29	
10219	5/8" x 3/4"	1.41	1.41	0.88	0.36	
10220	3/4" x 1/2"	1.63	1.59	0.88	0.49	

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

T1 145F 45

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	

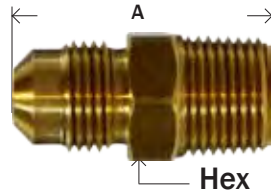
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BRASS

**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	
10255EH	1/4" x 1/8"	1.06	0.44	0.03	
10256L	1/4" x 1/4"	1.15	0.56	0.03	
10256 *	1/4" x 1/4"	1.25	0.56	0.04	
10256SS	1/4" x 1/4"				
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	
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	

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

U1 48



**"L" means light pattern.**

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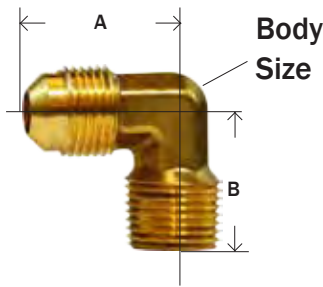


# SAE 45° FLARE

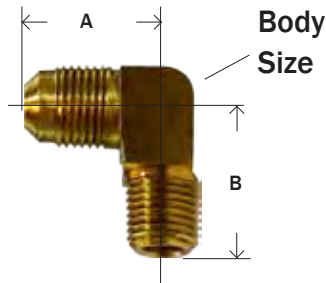
## BRASS FITTINGS

### 90° MALE ELBOW

SAE# 010202



Forged Elbow



Barstock Elbow

49  
249  
409

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	
10306B*	3/4" x 3/4"	1.60	1.62	0.91	0.32	
10307	7/8" x 3/4"	1.75	1.68	1.00	0.44	
10308	1" x 3/4"	1.94	1.69	1.31	0.75	
10309	1" x 1"	1.94	1.75	1.25	0.78	

\* Barstock

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

249F 49 E1 149F

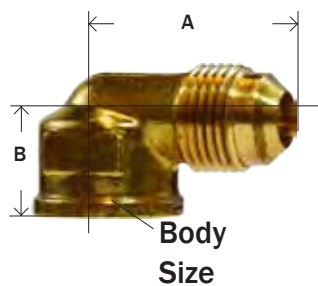
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**SAE 45° FLARE**

## BRASS FITTINGS

**90° FEMALE ELBOW**

Forged Elbow

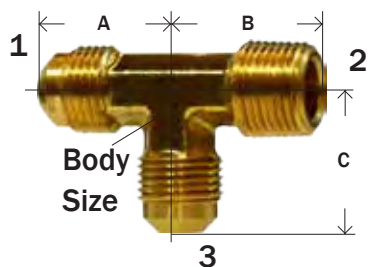
50F  
250  
500

SAE# 010203

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	
10313B*	1/4" x 1/8"	0.95	0.46	0.56	0.06	
10314	1/4" x 1/4"	0.97	0.59	0.75	0.08	
10314B*	1/4" x 1/4"	0.95	0.66	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	
10306B*	5/16" x 1/8"	0.94	0.87	0.56	0.07	
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	
10319B*	3/8" x 1/4"	1.15	0.73	0.68	0.14	----
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	
10324B*	1/2" x 3/8"	1.26	0.75	0.88	0.16	
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	

\* Barstock

E3 50 150F

**FORGED MALE RUN TEE**51F  
501

PART #	MALE FLARE X MALE NPTF (1&3) X 2	A	B	C	BODY SIZE	AP-PROX. WT. LBS.	LIST PRICE
10361	3/16" x 5/16" x 1/8"	0.87	0.78	0.97	0.44	0.08	
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	
10344B*	1/4" x 1/8"	0.90	0.76	0.86	0.37	0.07	
10345	1/4" x 1/4"	0.88	0.88	0.88	0.44	0.08	
10347	5/16" x 1/8"	0.88	0.80	0.88	0.44	0.08	
10348	5/16" x 1/4"	0.94	0.94	0.94	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	
10340	3/8" x 1/2" x 3/8"	1.09	1.09	1.16	0.59	0.18	
10352	3/8" x 1/2"	1.12	1.22	1.12	0.69	0.12	
10353	1/2" x 3/8" x 1/2"	1.22	1.22	1.15	0.69	0.22	
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	
10357	5/8" x 1/2"	1.41	1.31	1.41	0.69	0.28	
10359	3/4" x 1/2"	1.63	1.59	1.63	0.88	0.48	
10360	3/4" x 3/4"	1.62	1.44	1.62	0.88	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](http://www.P65Warnings.ca.gov)



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

T3 151F 51

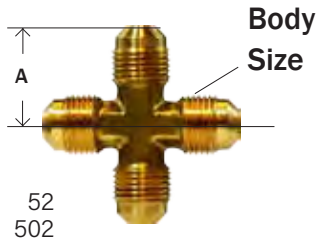


# SAE 45° FLARE

## BRASS FITTINGS

### FORGED FLARE CROSS

SAE# 010501

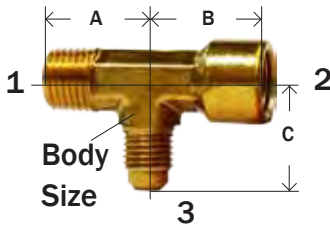


52  
502

PART #	THREAD SIZE UNF	A	BODY SIZE	APPROX. WT. LBS.	LIST PRICE
10373	1/4"	0.88	0.44	0.10	
10374	5/16"	0.92	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

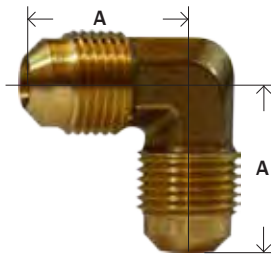


53  
503

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	

T17 53

### FORGED 90° FLARE ELBOW



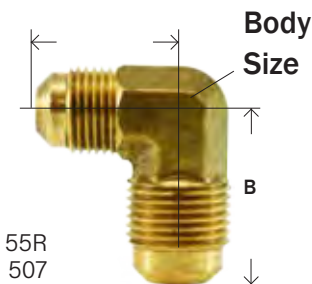
55F  
505

PART #	THREAD SIZE UNF	A	APPROX. WT. LBS.	LIST PRICE
10404	1/8"	0.64	0.04	
10405	3/16"	0.75	0.06	
10406	1/4"	0.81	0.08	
10406B*	1/4"	0.89	0.04	
10407	5/16"	0.91	0.10	
10408	3/8"	1.00	0.10	
10409	1/2"	1.16	0.14	
10409B*	1/2"	1.23	0.22	
10410	5/8"	1.41	0.22	
10411	3/4"	1.66	0.68	
10412	7/8"	1.81	0.82	

\* Barstock

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



USE OUR TEXT LINE **855-609-3729** TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

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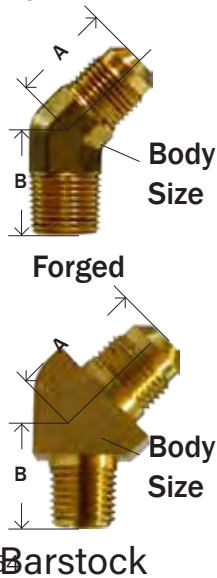
BRASS

**SAE 45° FLARE**

BRASS FITTINGS

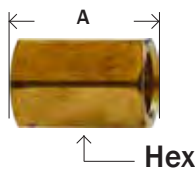
**45° ELBOW**

SAE# 010302

4945  
40945

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	
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	
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	
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	

E145 54 159F \*Barstock 254 47 4945

**FEMALE 45° FLARE FITTINGS****UNION**600  
600F

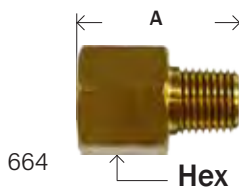
SAE# 010107 • Use with Copper Gasket

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	

2310 U4 660HD 32

**FEMALE FLARE ADAPTER**

SAE# 010106



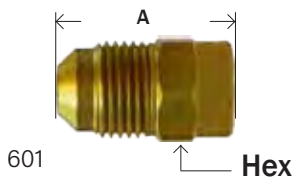
664

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	
10439	5/8" x 1/2"				

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	

UR3 661FHD 227 46-FF

• More sizes available online

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

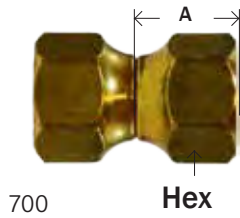
# SAE 45° FLARE

## BRASS FITTINGS

### BRASS FLARE SWIVEL FITTINGS

#### FORGED SWIVEL

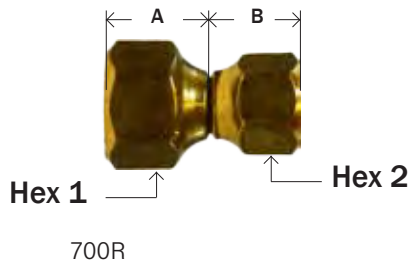
SAE# 010108



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	

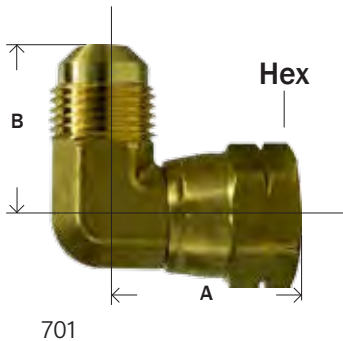
1350 US4 14FSV 34

#### REDUCING SWIVELS



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



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"	
10602	1/4" x 3/8"	
10620	3/8" x 1/4"	
10612	3/8" x 3/8"	
10613	3/8" x 1/2"	
10621	1/2" x 1/2"	
10611	1/2" x 5/8"	
10614	5/8" x 5/8"	
10622	5/8" x 7/8"	
10615	3/4" x 3/4"	
10616	3/4" x 7/8"	
10617	7/8" x 7/8"	
10618	1" x 1-1/8"	
10619	1-1/8" x 1-1/8"	

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BRASS

**SPACE HEATER/ GAS RANGE FITTINGS**

## BRASS FITTINGS

**SPACE HEATER FITTINGS****9/16-24 FINE THREAD FLARE NUT**

#M-82SH

41FT  
800

PART #	SIZE
14001	3/8

**MALE ADAPTER**

#M-83SH



PART #	SIZE
14016	3/8 x 3/8
14017	3/8 x 1/2

**FEMALE ADAPTER**

#M-80SH

46FT  
805

PART #	SIZE
14018	3/8 x 3/8
14025	3/8 x 1/2

**UNION**

PART #	SIZE
14011	3/8

**BRASS GAS RANGE FITTINGS****BRASS MALE ADAPTERS  
15/16-16 FLARE THREAD**45RG  
408RC

PART #	MALE FLARE X MALE NPTF
35130	3/8" x 3/8"(1/8 Tap)
35133	3/8" x 3/8"(1/4 Tap)
35131	3/8" x 1/2"(3/8 Tap)
35132	1/2" x 1/2" (3/8" FIP TAP)
35134	15/16" x 1/2"
35135	15/16" x 3/4" (1/2" FIP TAP)

**BRASS FEMALE ADAPTERS**

PART #	FLARE X FIP
35136	15/16" x 1/2"
35142	15/16" x 3/4"

**DRUM ADAPTERS**

K1

• Straight  
Thread

SAE# 010165

PART #	MALE FLARE X FIP
50011	1/4" x 1/2"
50001	1/4" x 3/4"

RD IF K1

**CAP**

PART #	SIZE
35186	15/16"

• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR FUSIBLE PLUGS

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# POL FITTINGS

## BRASS FITTINGS

### TEE CONNECTION

2000



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

41-1-390-0014 2000

### TAILPIECE WITH FLATS

2001A

1/4 NPT



PART #	DESCRIPTION
34011	2.34 w/ wrench Flats

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

### STANDARD NUT

7/8" Hex

2001B



PART #	PIPE SIZE
34016	.880-14 LH

2001B

### TAILPIECE & NUT ASSEMBLY

2002AB



PART #	PIPE SIZE
34022	1/4

2002AB

### POL CAP

2004



PART #	PIPE SIZE
34031	.880-14LH

ME1699 POL2004 1004A M-2004

### POL PLUG WITH CHAIN

2014



PART #	DESCRIPTION
34141	POL PLUG WITH CHAIN

ME1691-1

### SINGLE PIECE POL ADAPTER

2008



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

ME351 ME357

### ADAPTERS

35792  
35810



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

ME3510 2906E 2007

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BRASS

**POL FITTINGS**

## BRASS FITTINGS

**TAILPIECE ASSEMBLY W/HEX HEAD  
NUT & STEM**

PART #	LENGTH
34080	1/4 NPT X POL 2 LONG HARD NOSE 2 OAL
34082	MALE POL X 3/8 NPT

2906D ME352



PART #	LENGTH
34088	MPOL HARD NOSE 9/16- 18 FE LH THREAD

ME1650



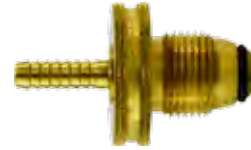
PART #	LENGTH
34084	MPOL X 1/4 HOSE BARB 7/8 HEX

ME5930 970JR

**SOFT NOSE TAILPIECE ASSEMBLY**

PART #	LENGTH
34060	1/4 NPT X POL 2.1 LONG #60 ORIFICE
34061	1/4 MPT X POL SOFT NOSE 2-1/2
34062	1/4 NPT POL SOFT NOSE #60 ORIFICE 2.3 LONG
34063	POL X 9/16-18 LH TAIL- PIECE SOFT NOSE
34064	1/4 NPT X POL SOFT NOSE 2 3/8 LONG

ME1638 2003-T-GH-60 2002 2018-L 2003-T 970S

**HAND WHEEL POL ADAPTERS**

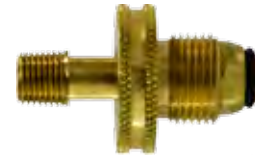
PART #	LENGTH
34065	MPOL SOFT NOSE X 1/4 HOSE BARB BR.WHEEL

ME1656AR



PART #	LENGTH
34072	1/4 MPT POL SOFT NOSE W/PLASTIC WHEEL

ME1654



PART #	LENGTH
34073	1/4 MPT POL SOFT NOSE WITH BRASS WHEEL

ME1654AR



PART #	LENGTH
34074	MPOL SOFT NOSE X 1/4 HB W/PLASTIC WHEEL

ME1656

VISIT [MIDLANDINDUSTRIES.COM/LPGAS](http://MIDLANDINDUSTRIES.COM/LPGAS) TO  
SEE OUR COMPLETE OFFERING OF LP GAS  
PRODUCTS

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# POL FITTINGS

## BRASS FITTINGS

### PROPANE MOTOR FUEL FILL ADAPTER



- Allows a standard POL fitting to be adapted to fill an engine fuel tank.

PART #	LENGTH
34079	FE POL X 1 3/4 ACME FUEL FILL ADPT

ME458 2017

### FEMALE POL X MIP ADAPTER



PART #	LENGTH
34111	1/4 MPT X FE POL ADAPTER
34112	3/8 MPT X FE POL ADAPTER
34113	1/2 MPT X FE POL ADAPTER
34114	3/4 MPT X FE POL ADAPTER

2011-B ME285 2011-D 2011-E

### FEMALE FPT X FEMALE POL ADAPTER



PART #	LENGTH
34120	1/4 FPT X FE POL
34121	3/8 FPT X FE POL
34122	1/2 FPT X FE POL
34123	3/4 FPT X FE POL

2016-B ME302 2016-D ME304

### POL O-RING ONLY



PART #	LENGTH
34143	POL O-RING ONLY

C5-OR-POL 568-110-01

### POL PLASTIC DUST PLUG



PART #	LENGTH
34160	POL PLASTIC DUST PLUG

ME970P

### APPLIANCE TEE



- Tap & Add

PART #	LENGTH
34170	M.POLXF.POL W/1-20M CYL AND 1/4 INV FLAR

2090



- Add an appliance

PART #	LENGTH
34172	M.POLXF.POL W/1-20 MALE CYLINDER THREAD

2012



- With QCC1 connection

PART #	LENGTH
34174	QCC1 X F. POL W/1-20 MALE CYLINDER THD

2013

### DUAL APPLIANCE TEE



PART #	LENGTH
34176	M.POL X (2) OF 1-20 MALE CYLINDER THREAD

2099

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BRASS

**JIC 37° FLARE STRAIGHTS**

## BRASS FITTINGS

**STRAIGHT TUBE UNION**

PART #	TUBE OD	TUBE THREAD	L	HEX	WORKING PRESSURE
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
28971	3/4	1-1/16-12	2.14	1.13	3250 psi
28972	1"	1-5/16-12	2.25	1.38	2600 psi

SBC 132403 HTXB

**FEMALE STRAIGHT ADAPTER**

PART #	TUBE OD	PIPE	TUBE THREAD	L	HEX	WORKING PRESSURE
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
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**

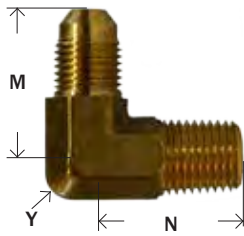
PART #	TUBE OD	A NPTF	TUBE THREAD	L	HEX	WORKING PRESSURE
28752	1/4	1/4-18	7/16-20	1.389	.563	3250 psi
28753	3/8	1/4-18	9/16-18	1.6	.563	3250 psi
28754	3/8	3/8-18	9/16-18	1.574	.690	2925 psi
28756	1/2	1/2-14	3/4-16	1.706	.875	2600 psi

B6505 SJS

# S/B JIC 37° SHAPES

## BRASS FITTINGS

### 90° FORGED ELBOW

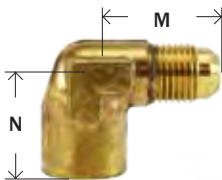


• Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE
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
28773F	3/8	9/16-18	1/2-14	1.22	1.47	0.90	1265 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
28781F	3/4	1 1/16-12	1/2-14	1.66	1.56	1.08	1265 psi
28783F	3/4	1 1/16-12	3/4-14	1.66	1.59	1.06	1084 psi
28784F	1	1 5/16-12	3/4-14	1.88	1.77	1.32	1802 psi
28786F	1	1 5/16-12	1-11 1/2	1.81	1.97	1.3	2361 psi

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

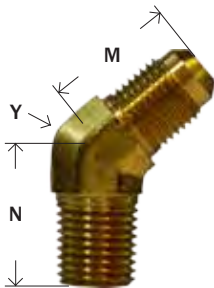
### FEMALE ELBOW FORGED BODY



PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	WORKING PRESSURE
28973	1/4	7/16-20	1/8-27	1.08	0.66	2797 psi
28974	1/4	7/16-20	1/4-18	1.25	0.55	3066 psi
28975	3/8	9/16-18	1/4-18	1.23	0.88	2842 psi

B2502 EBF DTXB

### 45° FORGED ELBOW



• Swivel available

PART #	TUBE OD	TUBE THREAD	A NPTF	M	N	Y	WORKING PRESSURE
28722F	1/4	7/16-20	1/8-27	0.72	0.64	0.5	4367 psi
28724F	1/4	7/16-20	1/4-18	0.81	0.84	0.53	3750 psi
28728F	5/16	1/2-20	1/4-18	0.88	0.86	0.54	
28729F	3/8	9/16-18	1/8-27	0.83	0.65	0.63	3128 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
28734F	3/8	9/16-18	1/2-14	1.03	1.17	0.94	2826 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
28740F	5/8	7/8-14	1/2-14	1.13	1.08	0.88	
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

**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](http://www.P65Warnings.ca.gov)

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 73°F with copper tubing:

**•Vibration**

Excellent resistance.

**•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.

**•Advantages**

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

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.

**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"

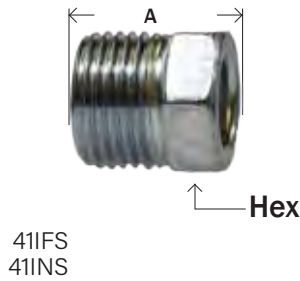
5/8"

3/4"

# INVERTED FLARE

BRASS FITTINGS

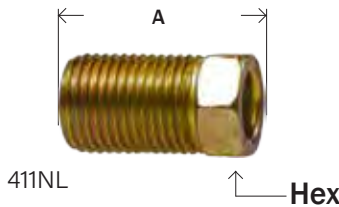
## ZINC CHROMATE STEEL NUT



SAE# 040110						
PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.	
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	
12000	7/16"	11/16-18	0.68	0.68	0.04	
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	
12083	7/8"	1-3/16-16	1.07	1.19	0.14	
12084	1"	1-5/16-16	1.18	1.375	0.21	

121XXX 2105 411FS 105 41W

## LONG STEEL NUT

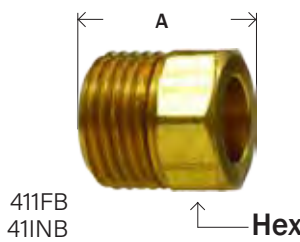


FOR DOMESTIC LINES

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

7896

## INVERTED FLARE BRASS NUT



SAE# 040110

PART #	SIZE	A	HEX	APPROX. WT. LBS.	
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	

• More sizes available online

2100 411F 100 41B

## ZINC STEEL METRIC TUBE NUTS - SEE OUR WEBSITE FOR BRAKE LINES AND TUBING



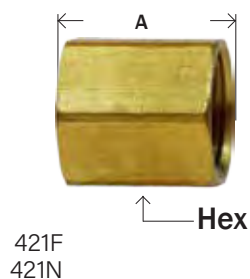
PART #	TUBESIZE	THREAD	REF#	
12260	3/16 British	3/8-24 Bubble	---	
12261	3/16 European	M10 x 1.0 Bubble	276110	
12262	3/16 Japanese	M10 x 1.0 Inv.	121050	
12263	3/16 Domestic	1/2 x 20 Inv.	---	
12264	3/16 Domestic	9/16 - 18 Inv.	121039	
12265	3/16 Imported	M11 x 1.5 Bubble	276011	
12266	3/16 Imported	M12 x 1.0 Bubble	276012	
12267	3/16 Imported	M13 x 1.5 Bubble	276013	
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		
12272	6mm GM	M12 x 1.5 Bubble		
12273	6mm GM	M14 x 1.5 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**

SAE# 040101



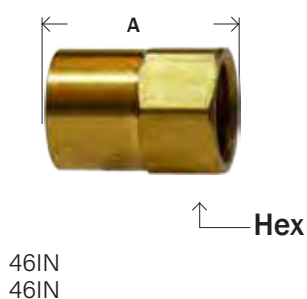
PART #	INV. FLARE X INV. FLARE	A	HEX	APPROX. WT. LBS.
12022	1/8"	0.59	0.40	0.02
12023	3/16"	0.62	0.43	0.02
12024	1/4"	0.62	0.50	0.03
12025	5/16"	0.70	0.56	0.04
12026	3/8"	0.80	0.75	0.08
12027	1/2"	0.91	0.90	0.10
12028	5/8"	1.31	1.06	0.22

see page 72 for metric unions

302 2300 421FHD

**FEMALE ADAPTER**

SAE# 040103



PART #	INV. FLARE X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
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

461FHD 252 46W

**MALE ADAPTER**

SAE# 040102



PART #	INV. FLARE X MALE NPTF	A	HEX	APPROX. WT. LBS.
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
12107	7/8" x 3/4"	1.375	1.375	0.21
12108	1" x 1"	1.62	1.50	0.37

2200 481FHD 202 48W 200

**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](http://www.P65Warnings.ca.gov)



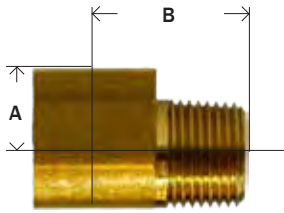
Dimension data can change without notice. Please see our website when dimensions are critical.

# INVERTED FLARE

## BRASS FITTINGS

### ELBOW

SAE# 040202



491N  
491F

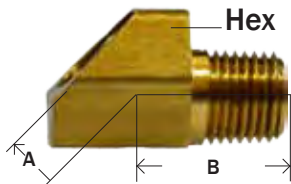
PART #	INV. FLARE X MALE NPTF	A	B	APPROX. WT. LBS.
12057	1/8" x 1/8"	0.26	0.59	0.03
12058	3/16" x 1/8"	0.26	0.61	0.03
12059	1/4" x 1/8"	0.33	0.65	0.04
12054*	1/4" x 1/8"	0.33	0.65	0.04
12060	1/4" x 1/4"	0.28	0.82	0.06
12061	5/16" x 1/8"	0.47	0.68	0.05
12062	5/16" x 1/4"	0.45	0.85	0.08
12082	5/16" x 3/8"	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
12069	3/4" x 1/2"	0.80	1.39	0.42
12080	7/8" x 3/4"	0.94	1.43	0.48
12081	1" x 1"	1.02	1.69	0.60

400 2400 249IFHD 402 249IF 49W

\* Restricted pipe end .062

### 45° ELBOW

SAE# 040302



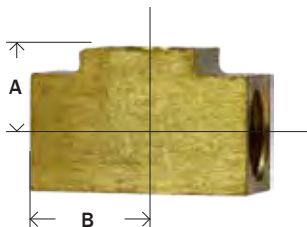
591F  
941N

PART #	INV. FLARE X MALE NPTF	A	B	HEX	APPROX. WT. LBS.
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

SAE# 040401



441F  
441N

PART #	SIZE	A	B	APPROX. WT. LBS.
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](http://www.P65Warnings.ca.gov)

BRASS

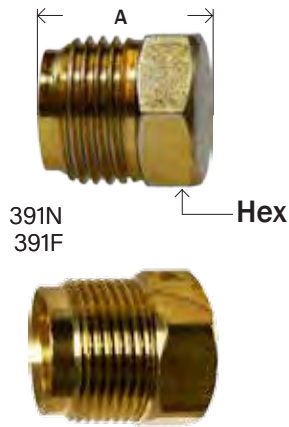
**INVERTED FLARE**

## BRASS FITTINGS

**STEEL PLUG**

SAE# 040109

• cored

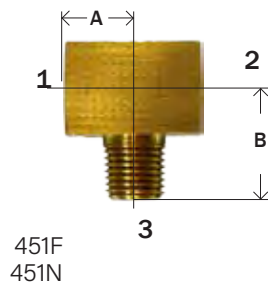


PART #	SIZE	A	HEX	APPROX. WT. LBS.
12091	3/16"	0.53	0.37	0.01
12092	1/4"	0.54	0.43	0.02
12093	5/16"	0.59	0.50	0.03
12094	3/8"	0.66	0.62	0.04
<b>Brass</b>				
12095	3/8"	0.66	0.63	0.04
12096	1/2"	0.82	0.75	0.07
12097	5/8"	0.90	0.87	0.10
12098	3/4"	0.95	1.07	0.17

106 41IP 131 2131

**MALE BRANCH TEE**

SAE# 040425

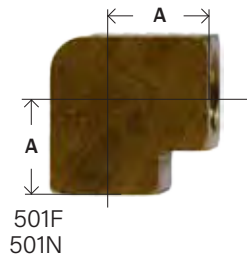


PART #	INV. FLARE X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.
12100	3/16" x 1/8"	0.41	0.60	0.04
12101	1/4" x 1/8"	0.42	0.64	0.06
12102	5/16" x 1/8"	0.47	0.68	0.07
12103	3/8" x 1/4"	0.58	0.93	0.15

145 245IFHD 602 2600 600

**FEMALE ELBOW**

SAE# 040203

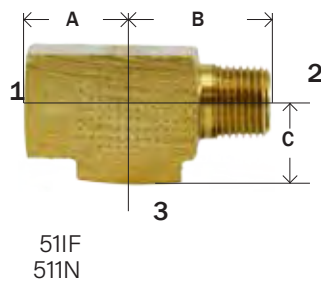


PART #	INV. FLARE X FEMALE NPTF	A	APPROX. WT. LBS.
12110	1/4" x 1/8"	0.55	0.07
12111	5/16" x 1/8"	0.51	0.08
12112	3/8" x 1/4"	0.68	0.10

450

**MALE RUN TEE**

SAE# 040424



PART #	INV. FLARE X MALE NPTF (1&3)X2	A	B	C	APPROX. WT. LBS.
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

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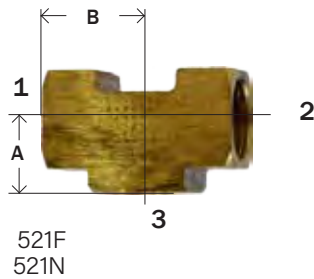


# INVERTED FLARE

## BRASS FITTINGS

### FEMALE BRANCH TEE

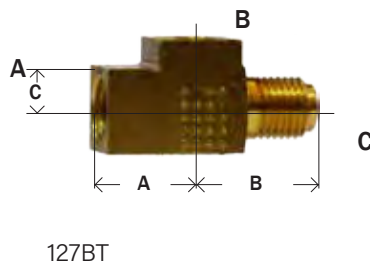
SAE# 040427



PART #	INV. FLARE X FEMALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.
12127	3/16" x 1/8"	0.39	0.55	0.06
12129	5/16" x 1/8"	0.45	0.63	0.12
12130	3/8" x 1/4"	0.56	0.74	0.17

252IFHD 652 136

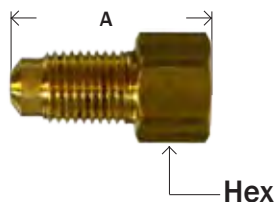
### TOWED TRAILER BRAKE TEE



PART #	A	B	C	REFERENCE #	APPROX. WT. LBS.
12147	3/16" 0.57	3/16" 0.76	3/16" 0.42	7900	0.08
12145	3/16" (1/2-20) 0.68	3/16" (3/8-24) 0.94	3/16" (1/2-20) 0.47	7906	0.17
12148	3/16" (9/16-18)	3/16" (3/8-24)	3/16" (9/16/18)	7933	0.10
12144	3/16" (9/16-20) 0.82	3/16" (3/8-24) 0.94	3/16" (9/16-20) 0.47	7905	0.18
12146	3/16" (7/16-24) 0.54	3/16" (3/8-24) 0.78	1/4" (7/16-24) 0.42	7914	0.08
12150	1/4" 0.56	3/16" 0.77	1/4" 0.43	7901	0.10
12149	1/4" (9/16-18) 0.81	3/16" (3/8-24) 0.93	1/4" (9/16-18) 0.50	7904	0.10
12151	1/4" 0.56	1/4" 0.77	1/4" 0.43	7898	0.12

### INVERTED FLARE AUTO FITTINGS

### DUAL MASTER CYLINDER ADAPTER



PART #	MALE FLARE X FEMALE INV.	A	HEX	REFERENCE #	APPROX. WT. LBS.
12200	3/16" x 3/16"	1.00	0.50	1441	0.03
12202	5/16" x 3/16"	0.96	0.68	7897	0.07



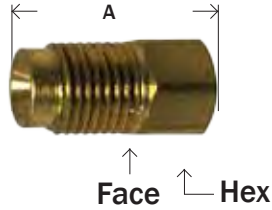
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BRASS

**INVERTED FLARE**

## BRASS FITTINGS

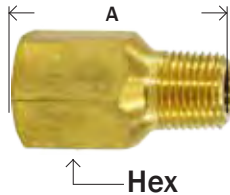
**DUAL MASTER CYLINDER ADAPTER**

\* Seals on hex face

48STA  
6641N  
6011N

PART #	MALE INVERTED THREAD	FEMALE INVERTED THREAD	REF#
12206	3/16(9/16-18)	3/16	7911
12209	3/16(9/16-18)	3/16(1/2-20)	7913
12207	3/16(9/16-20)	3/16	7910
12210	3/16	1/4	7828
12212	1/4	3/16	7818
12214*	7/16-20	1/4	7732
12211	1/4(9/16-18)	1/4	7908
12215	1/4	5/16	7917
12213*	5/16	3/16	7817
12216	5/16	3/16	7909
12208	5/16	3/16(9/16-18)	7912
12218*	5/16	1/4	7727
12220	5/16	1/4	7829
12222*	5/16	5/16	1074
12221	5/16	3/8	7915
12224	3/8" NPTF	5/16	7771
12217	3/8	5/16	7916

47W

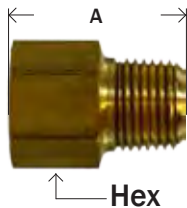
**CARBURETOR TO FUEL LINE ADAPTER - FORD**

PART #	FEMALE TUBE OD X MALE NPTF	A	HEX	REF #	APPROX. WT. LBS.
12230	1/4"(1/2-20) x 1/8"	1.06	0.56	1513	0.04

1513

**RESTRICTION PIPE ADAPTER**

(.0625 ORIFICE)



PART #	SIZE FIP X MIP	A	HEX	REF #	APPROX. WT. LBS.
12310	1/8"	0.75	0.50	1512	0.02

1510

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



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

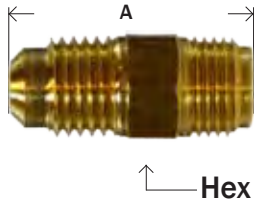
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# INVERTED FLARE

## BRASS FITTINGS

### SAE FLARE X INVERTED FLARE

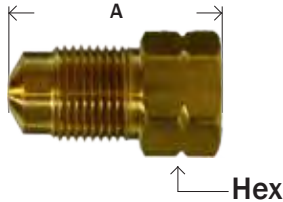


PART #	SAE FLARE X INV. FLARE	A	HEX	REF #	APPROX. WT. LBS.
12250	1/4" x 3/16"	1.03	0.43	1518	0.02
12252	1/4" x 1/4"	1.03	0.43	1522	0.03
12254	3/8" x 5/16"	1.34	0.63	1553	0.08
12256	3/8" x 3/8"	1.37	0.63	1563	0.09
12257	3/8" x 7/16"	1.40	0.68	1554	0.10

4205

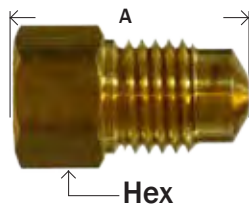
### METRIC HYDRAULIC BRAKE FITTINGS

#### METRIC ADAPTER



PART #	BUBBLE MALE THREAD	TUBE O.D./ FEMALE THREAD	A	HEX	REF #	APPROX. WT. LBS.
12335	M10x1.0	3/16"(3/8-24)	1.02	0.50	1442	0.02
12326	M11x1.5	3/16"(M10x1.0)	1.06	0.50	7935	0.02
12327	M12x1.0	3/16"(M10x1.0)	1.02	0.53	7936	0.04
12328	M16x1.5	3/16"(M10x1.0)	1.02	0.56	7937	0.06

#### ADAPTER STANDARD TO METRIC BUBBLE



PART #	FEMALE INV. FLARE SEAT	MALE METRIC BUBBLE FLARE	A	HEX	REF #	APPROX. WT. LBS.
12336	3/16" (3/8-24)	11x1.5			7973	
12337	3/16" (3/8-24)	(3/16") (10x1.25)	1.00	0.50	7970	0.02
12339	3/16" (3/8-24)	13x1.5	1.03	0.56	7972	0.04
12341	3/16" (3/8-24)	12x1.0	1.02	0.53	7974	0.04

#### FEMALE X MALE ADAPTERS



PART #	FEMALE STANDARD FLARE SEAT	MALE BUBBLE FLARE	MATERIAL
12330	3/8-24 (3/16)	7/16-20	Steel

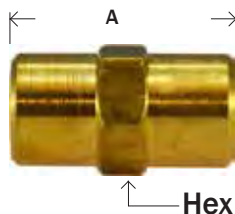


PART #	TUBE OD/ FEMALE THREAD	INVERTED MALE THREAD	REF #
12205	3/16 (3/8-24)	M10 x 1.0	1443



PART #	FEMALE STANDARD FLARE	INVERTED MALE THREAD	MATERIAL
12329	3/8-24 (3/16)	M9 x 1.0	Steel

#### METRIC UNION



PART #	SIZE	A	HEX	REF #	APPROX. WT. LBS.
12342	British Brake Lines 3/16 (3/8-24 Bubble)	0.87	0.50	1594	0.03
12343	European Brake Lines 3/16"(10.0MM)	1.04	0.56	7975	0.04
12344	Japanese Brake Lines 3/16 (M10 x 1.0) Inverted	1.00	0.50	7934A	0.04
12345	GM Brake Lines 6mm M12 x 1.0 Bubble	1.11	0.63		0.06

**COMPRESSION**

BRASS FITTINGS

**COMPRESSION FITTINGS**

These are NOT Lead Free  
See pages 164-166 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 73°F.

**• Vibration**

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

**• Temperature Range**

-65°F to +250°F (-53°C to +121°C) 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" 5/16"	1-1/4" 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**

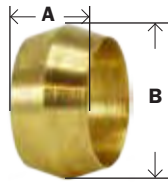
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# COMPRESSION

## BRASS FITTINGS

### BRASS SLEEVE

• FERRULES



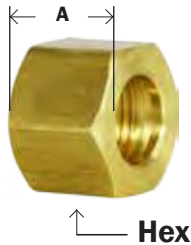
60

SAE# 060115

PART #	SIZE	A	B	APPROX. WT. LBS.
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



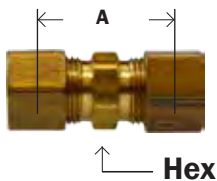
61

SAE# 060110

PART #	SIZE	THREAD	A	HEX	APPROX. WT. LBS.
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

### UNION



62  
262

SAE# 060101BA

PART #	SIZE	A	HEX	APPROX. WT. LBS.
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
18072	1"	1.78	1.38	0.58

M-62

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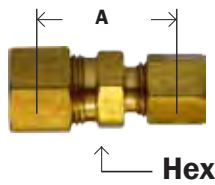
BRASS



**COMPRESSION**

## BRASS FITTINGS

## REDUCING UNION



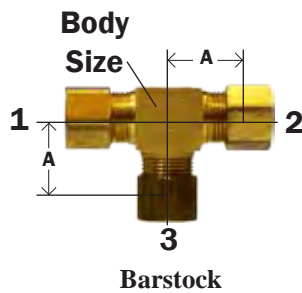
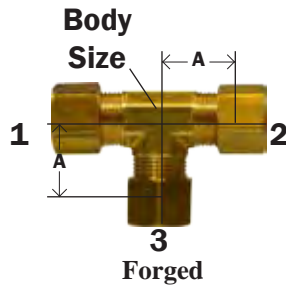
62R

PART #	SIZE	A	HEX	APPROX. WT. LBS.
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
18085	7/8" x 3/8"	1.18	1.18	0.26
18086	7/8" x 1/2"	1.21	1.18	0.24
18084	7/8" x 5/8"	1.23	1.18	0.20

62-R

## TEE

SAE# 060401



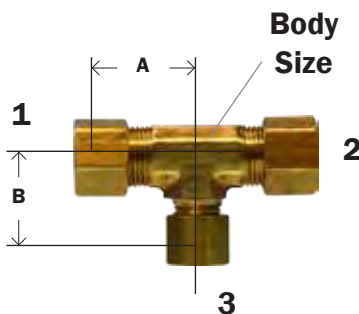
64

PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.
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
18102B*	3/16"	0.60	0.38	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
18104B*	5/16"	0.60	0.50	0.14
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
18106B*	1/2"	0.94	0.69	0.24
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.
18114	1/4" x 1/4" x 1/8"	0.62	0.59	0.38	0.09
18110	1/4" x 1/4" x 3/8"	0.69	0.75	0.50	0.14
18111	3/8" x 1/4" x 1/4"	0.75	0.69	0.50	0.12
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

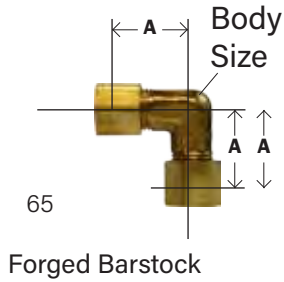
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# COMPRESSION

## BRASS FITTINGS

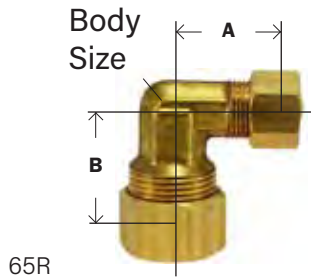
### UNION ELBOW SAE# 060201



PART #	SIZE	A	BODY SIZE	APPROX. WT. LBS.
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
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

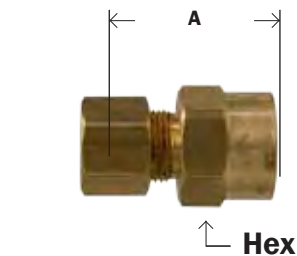


PART #	SIZE	A	B	BODY SIZE	APPROX. WT. LBS.
18135	3/8" x 1/4"	0.69	0.75	0.47	0.12
18136	1/2" x 3/8"	0.88	0.94	0.59	0.15
18137	5/8" x 3/8"	0.88	0.97	0.56	0.18

65-R

### FEMALE ADAPTER

SAE# 060103



PART #	COMP. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
18142	1/8" x 1/8"	0.75	0.56	0.02
18143	3/16" x 1/8"	0.78	0.56	0.04
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
18160	1/2" x 3/4"	1.25	1.16	0.18
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
18167	7/8" x 1/2"	1.28	1.19	0.32
18166	7/8" x 3/4"	1.31	1.12	0.34

• More sizes available online

**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](http://www.P65Warnings.ca.gov)

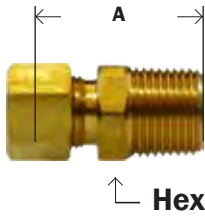
BRASS

**COMPRESSION**

## BRASS FITTINGS

## MALE ADAPTER

SAE# 060102



68

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.
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
18206	1" x 3/4"	1.95	1.37	0.44
18207	1" x 1"	2.00	1.38	0.48

68

• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR C/P MALE & FEMALE ADAPTERS

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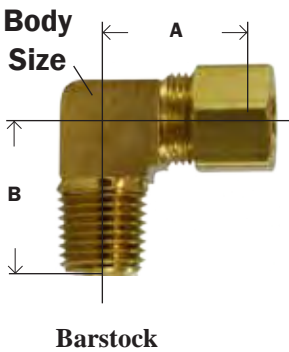
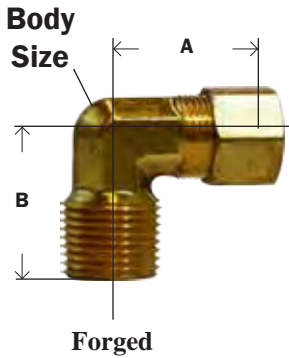


# COMPRESSION

## BRASS FITTINGS

### MALE ELBOW

SAE# 060202



69

PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
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
18223B*	3/16" x 1/4"	0.65	0.85	0.41	0.08
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
18231	5/16" x 1/2"	0.84	1.12	0.56	0.12
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
18248B*	3/8" x 3/4"	1.03	1.20	0.86	0.16
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
18236B*	1/2" x 1/4"	0.85	0.94	0.07	0.17
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

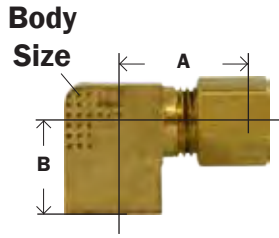
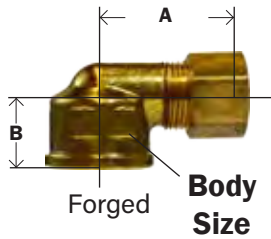
Dimension data can change without notice. Please see our website when dimensions are critical.

**COMPRESSION**

## BRASS FITTINGS

## FEMALE ELBOW

SAE# 060203



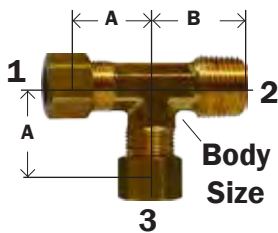
70

PART #	COMP. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
18251	1/8" x 1/8"	0.69	0.56	0.56	0.04
18251B*	1/8" x 1/8"	0.69	0.60	0.57	0.06
18252	3/16" x 1/8"	0.69	0.47	0.56	0.04
18252B*	3/16" x 1/8"	0.60	0.60	0.58	0.07
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
18254B*	1/4" x 1/4"	0.72	0.85	0.68	0.13
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
18250	3/8" x 3/4"	1.09	0.72	1.25	0.18
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
18270	1/2" x 3/4"	1.16	0.72	1.25	0.23
18269	5/8" x 3/8"	1.09	0.77	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
18266	3/4" x 1/2"	1.25	1.25	0.94	0.28

\* Barstock

70 270C BSE3 170C

## FORGED MALE RUN TEE



71

PART #	COMP. X MALE NPTF (1&3) X 2	A	B	BODY SIZE	APPROX. WT. LBS.
18272	1/8" x 1/8"	0.63	0.69	0.36	0.06
18273	3/16" x 1/8"	0.63	0.69	0.36	0.07
18273B*	3/16" x 1/8"	0.63	0.69	0.36	0.06
18274B*	1/4" x 1/8"	0.63	0.75	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
18277	5/16" x 1/4"	0.75	0.88	0.44	0.10
18278	3/8" x 1/8"	0.75	0.75	0.50	0.14
18279	3/8" x 1/4"	0.79	0.87	0.44	0.18
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
18283	5/8" x 1/2"	1.06	1.31	0.69	0.28
18284	3/4" x 1/2"	1.22	1.34	0.88	0.30

\* Barstock

71 171C BST3

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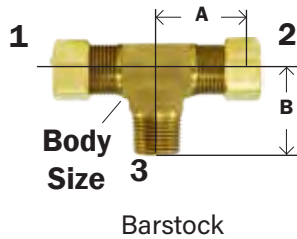
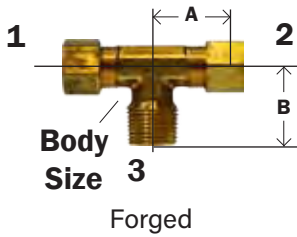


# COMPRESSION

## BRASS FITTINGS

### MALE BRANCH TEE

SAE# 060425



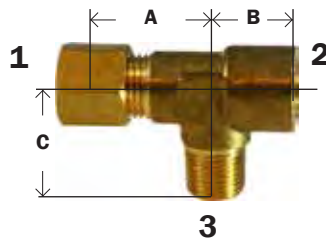
72

PART #	COMP. X MALE NPTF (1&2) X 3	A	B	BODY SIZE	APPROX. WT. LBS.
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
18291B*	1/4" x 1/8"	0.64	0.73	0.45	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
18304	1/2" x 1/4"	0.94	0.97	0.59	0.22
18299B*	1/2" x 3/8"	0.96	1.09	0.70	0.24
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
18303	3/4" x 3/4"	1.25	1.50	0.88	0.54

\* Barstock

72 **BST1 172C**

### FORGED TEE

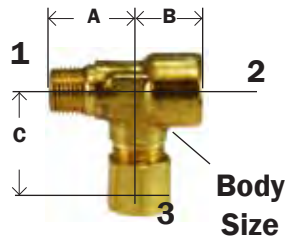


75

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

**BST3**

### ADAPTER TEE



76

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

76 **176C**



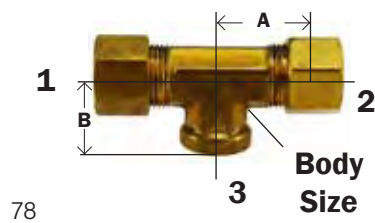
HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

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BRASS

**COMPRESSION**

## BRASS FITTINGS

**FEMALE BRANCH FORGED TEE**

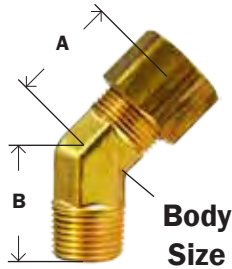
78

PART #	COMP. X FEMALE NPTF (1&2)X3	A	B	BODY SIZE	APPROX. WT. LBS.
18321	1/4" x 1/8"	0.78	0.75	0.45	0.10
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
18322	3/8" x 1/4"	0.81	0.97	0.47	0.14
18323	3/8" x 3/8"	0.97	0.69	1.05	0.16
18326	1/2" x 1/8"	0.94	0.75	0.59	0.20
18324	1/2" x 3/8"	1.00	0.72	0.88	0.22
18327	5/8" x 1/8"	1.06	0.81	0.69	0.26

78 BST4 77 177C 2908

**45° ELBOW**

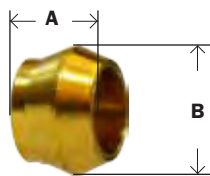
SAE# 060302



6945

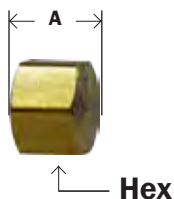
PART #	COMP. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
18329	3/16" x 1/8"	0.40	0.63	0.41	0.04
18330	1/4" x 1/8"	0.40	0.61	0.41	0.04
18336	1/4" x 1/4"	0.59	0.84	0.53	0.06
18331	5/16" x 1/8"	0.59	0.65	0.53	0.06
18332	5/16" x 1/4"	0.59	0.83	0.53	0.08
18333	3/8" x 1/4"	0.62	0.83	0.53	0.08
18338	3/8" x 3/8"	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 PLUG**60CP  
60CSP

PART #	SIZE	A	B	APPROX. WT. LBS.
18028	1/4"	0.30	0.34	0.01
18029	3/8"	0.31	0.47	0.04
18032	5/16"	0.40	0.40	0.01
18030	1/2"	0.34	0.59	0.06
18031	5/8"	0.45	0.72	0.04

CSP

**CAP**61CC  
61CX

PART #	SIZE	A	HEX	APPROX. WT. LBS.
18047	1/4"	0.44	0.50	0.02
18048	3/8"	0.40	0.62	0.04
18049	1/2"	0.48	0.75	0.06
18050	5/8"	0.56	0.94	0.10

61-CC N5CT

**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](http://www.P65Warnings.ca.gov)

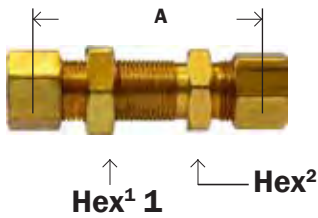


# COMPRESSION

## BRASS FITTINGS

### BULKHEAD UNIONS

SAE# 060101



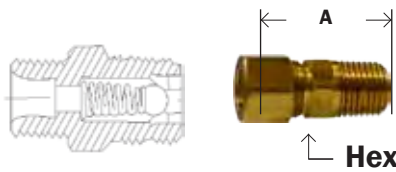
62BH

PART #	SIZE	A	HEX 1	HEX 2	APPROX. WT. LBS.
18088	1/4"	1.58	0.56	0.56	0.10
18090	3/8"	1.76	0.68	0.68	0.14
18093	5/8"	2.01	1.000	0.94	0.32

See our website for bulkhead nuts

62BH 75 274

### BALL CHECK VALVE - MIN. WORKING PRESSURE 3 PSI.

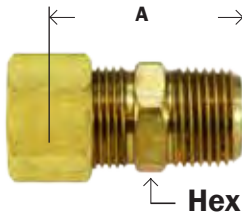


63

PART #	TUBE OD X MALE NPTF	A	HEX	APPROX. WT. LBS.
18092	1/8" x 1/8"	0.78	0.44	0.04
18094	1/4" x 1/8"	0.88	0.44	0.04
18096	3/8" x 1/4"	1.16	0.56	0.08

63 263 63A

### TANK ADAPTER DRILLED THRU (NO STOP)



68T

PART #	COMP. X MALE NPTF	A	HEX	APPROX. WT. LBS.
18208	1/4" x 1/8"	0.88	0.43	0.04
18209	1/4" x 1/4"	0.99	0.56	0.05
18210	3/8" x 1/4"	1.16	0.56	0.05
18211	3/8" x 3/8"	1.09	0.68	0.08
18212	3/8" x 1/2"	1.19	0.87	0.10
18213	1/2" x 3/8"	1.22	0.68	0.12
18214	1/2" x 1/2"	1.09	0.81	0.14
18215	5/8" x 1/2"	1.12	0.81	0.18

68-T 682C 80F

Middle age is when your broad mind and narrow waist begin to change places.

- E. Joseph Cossman



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

**DOUBLE COMPRESSION**

## BRASS FITTINGS

**DOUBLE COMPRESSION THREADED SLEEVE FITTINGS**

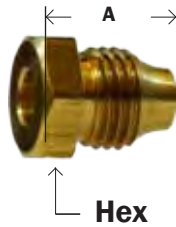
▪ Use with aluminum and copper tubing or plastic tubing with internal tube support. Not recommended for steel tubing.

▪ 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

**NUT**

181

PART #	SIZE	A	HEX	APPROX. WT. LBS.
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
16005	3/8"	0.61	0.62	0.04
16006	1/2"	0.90	0.69	0.05
16007	5/8"	1.07	0.88	0.06

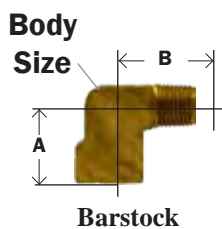
181 6100 11

**MALE ADAPTER**188  
26200

PART #	THRD SLEEVE X MALE NPTF	A	HEX	APPROX. WT. LBS.
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
16120	1/4" x 1/4"	1.06	0.56	0.05
16122	5/16" x 1/8"	0.89	0.56	0.04
16125	5/16" x 1/4"	1.09	0.56	0.05
16123	3/8" x 1/4"	0.84	0.62	0.06

\* 1/4 - 28 Male Thread Tapered.

188 6200 12

**90° ELBOW**189  
26400

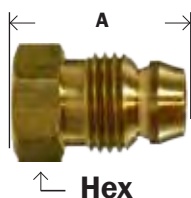
PART #	THRD SLEEVE X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
16127	1/8" x *	0.50	0.52	0.41	0.02
16128	1/8" x 1/8"	0.50	0.66	0.43	0.02
16129	3/16" x 1/8"	0.56	0.62	0.44	0.02
16130	1/4" x 1/8"	0.52	0.62	0.50	0.04
16131	5/16" x 1/8"	0.75	0.81	0.56	0.09
16133	3/8" x 1/4"	0.88	1.00	0.56	0.13

\* 1/4 - 28 Male Thread Tapered

189 6400 15

**BREAK-AWAY NUT**

▪ 1-Piece Fiting

181SP  
21604

PART #	SIZE	A	HEX	APPROX. WT. LBS.
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
16012	3/8"	0.84	0.56	0.04

181-BA 21604 99LB 81LB

# 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.
38711	5/32"
25001	1/8"
25002	3/16"
25003	1/4"

1460 90791 280 90946

#### NUT



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

1461 90790 281 90885

#### DOUBLE END UNION



PART #	TUBE O.D.
38761	5/32"
25062	1/8"
25064	1/4"

1462 90792 283 90891

#### CONNECTOR WITH NUT AND SLEEVE



PART #	TUBE O.D.	PIPE THREAD
38769	5/32"	1/16"
38770	5/32"	1/8"
25175	1/8"	1/16"
25176	1/8"	1/8"
25177	3/16"	1/8"
25179	1/4"	1/8"

• Shipped with nut and split sleeve, picture shows insert 1468 90794 282 90985

#### ELBOW



PART #	TUBE O.D.	PIPE THREAD
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"
25224	1/4"	1/8"

284

**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](http://www.P65Warnings.ca.gov)

BRASS



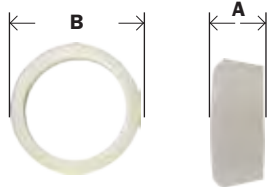
# SPECIAL COMPRESSION ASSEMBLIES

## BRASS FITTINGS

To purchase special compression assemblies, delete the 18 prefix on part# and add the prefix of the type of special assembly you desire. Pricing and availability upon request.

- 22 - Plastic sleeve (inserts should be ordered separately)
- 24 - Long nut compression
- 26 - Captive sleeve (parts listed on following pages)
- 27 - Self align sleeve

### DELRIN SLEEVE



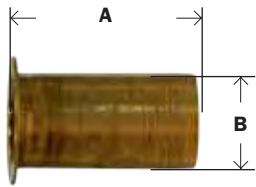
60P

PART #	SIZE	A	B	APPROX. WT. LBS.
18015	1/4"	0.19	0.37	0.01
18016	5/16"	0.19	0.43	0.01
18017	3/8"	0.19	0.50	0.02
18018	1/2"	0.25	0.63	0.02
18019	5/8"	0.22	0.74	0.02

60-P

### BRASS INSERT

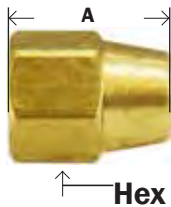
#### • SLEEVE

61P  
63P

PART #	SIZE	A	B	APPROX. WT. LBS.	WALL
22008	1/8"	0.46	0.080	0.01	.016
22008A	1/8"	0.465	0.073	0.01	.023
22009	3/16"	0.45	0.135	0.01	.025
22009A	3/16"	0.52	0.095	0.01	.040
22010	1/4"	0.50	0.163	0.02	.04
22010A	1/4"	0.59	0.125	0.02	.04
22010B	1/4"	0.53	0.172	0.02	.03
22011A	5/16"	0.50	0.232	0.02	.04
22011	5/16"	0.53	0.187	0.02	.062
22012	3/8"	0.56	0.250	0.03	.062
22013	1/2"	0.72	0.370	0.03	.062
22014	5/8"	0.72	0.483	0.03	.062
22015	3/4"	1.03	0.563	0.03	.03

63-BI 60AE 2030 63PT

### LONG NUT COMPRESSION - CAN BE ASSEMBLED ON ANY COMPRESSION FITTING



161

PART #	SIZE	A	HEX	APPROX. WT. LBS.
10013	1/8"	0.50	0.37	0.01
24002	3/16"	0.62	0.43	0.01
24003	1/4"	0.75	0.50	0.02
24004	5/16"	0.84	0.56	0.02
24005	3/8"	0.97	0.62	0.04
24006	1/2"	1.06	0.81	0.06
24007	5/8"	1.19	0.94	0.11
24008	3/4"	1.50	1.25	0.14

161

### SELF-ALIGN SLEEVES



PART #	SIZE
27001	1/8"
27002	3/16"
27003	1/4"

860 601



PART #	SIZE
27005	3/8"
27006	1/2"

860

• More sizes available online

www.midlandindustries.com

Toll Free Phone 1-800-821-5725

# CAPTIVE SLEEVE COMPRESSION

## BRASS FITTINGS

### CAPTIVE SLEEVE NUT

61SA  
61CS



PART #	SIZE
26001	1/8"
26002	3/16"
26003	1/4"
26004	5/16"
26005	3/8"
26007	1/2"
26008	5/8"

CS61 61CA

62SA

### UNION



PART #	SIZE
26062	1/8"
26063	3/16"
26064	1/4"
26065	5/16"
26066	3/8"
26079	3/8" x 1/4"
26068	1/2"

CS62 62CA

64SA

### TEE



PART #	SIZE
26102	3/16"
26103	1/4"
26105	3/8"

CS64 164CA

### FEMALE ADAPTER

66SA



PART #	COMP. X FEMALE NPTF
26142	1/8" x 1/8"
26145	1/4" x 1/8"
26146	1/4" x 1/4"
26153	3/8" x 1/4"

CS66 66CA

### MALE ADAPTER

68SA



PART #	COMP. X MALE NPTF
26175	1/8" x 1/4"
26176	1/8" x 1/8"
26177	3/16" x 1/8"
26178	3/16" x 1/4"
26179	1/4" x 1/8"
26180	1/4" x 1/4"
26180L	1/4" x 1/4"
26181	1/4" x 3/8"
26182	1/4" x 1/2"
26183	5/16" x 1/8"
26184	5/16" x 1/4"
26188	3/8" x 1/4"
26189	3/8" x 3/8"
26190	3/8" x 1/2"
26193	1/2" x 1/4"
26194	1/2" x 3/8"
26195	1/2" x 1/2"
26198	5/8" x 1/2"

CS68 68CA

### MALE ELBOW



69SA

PART #	COMP. X MALE NPTF
26220	1/8" x 1/8"
26220B	1/8" x 1/8"
26221B	3/16" x 1/8"
26221	3/16" x 1/8"
26224B	1/4" x 1/8"
26224	1/4" x 1/8"
26223	3/16" x 1/4"
26225	1/4" x 1/4"
26225B	1/4" x 1/4"
26226	1/4" x 3/8"
26228	5/16" x 1/8"
26229	5/16" x 1/4"
26232	3/8" x 1/8"
26233	3/8" x 1/4"
26233B	3/8" x 1/4"
26234	3/8" x 3/8"
26235	3/8" x 1/2"
26237	1/2" x 3/8"
26238	1/2" x 1/2"

CS69 169CA

### MALE BRANCH TEE

72SA



PART #	COMP. X MALE NPTF (1&2) X 3
26291	1/4" x 1/8"
26292	1/4" x 1/4"
26293	5/16" x 1/8"
26296	3/8" x 1/4"

CS72 172CA

### CAPTIVE SLEEVE X MALE PIPE ANGLE NEEDLE VALVE



PART #	COMP X MALE PIPE
26011	1/4" x 1/8"
26014	5/16" x 1/4"

### CAPTIVE SLEEVE X CAPTIVE SLEEVE NEEDLE VALVE



PART #	COMP X COMP
26021	1/4"
26023	3/8"

Interchangeable with compress-align fittings.

These are NOT Lead Free Lead Free products available upon request

- More sizes available
- Lead Free - add LF to part #

**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](http://www.P65Warnings.ca.gov)

BRASS

**FLARELESS**

BRASS FITTINGS

**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	11/16-20

**•Typical Application**

Pneumatic instrumentation circuits, lubricant and cooling lines.

**•Working Pressure and Temperature Ranges**

Up to 150 PSI from 0°F to + 150°F with thermoplastic tubing. Up to 300 PSI from 0°F to + 175°F 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. -65°F to +250°F (-53°C to +121°C) with brass sleeve, -40°F to +150°F (-40°C to +66°C) 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 dimen-

sions are critical.

**•Advantages**

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

Save 5% by ordering online at  
[www.midlandindustries.com](http://www.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](http://www.P65Warnings.ca.gov)

# FLARELESS BRASS FITTINGS

## NUT AND PLASTIC SLEEVE ASSEMBLY



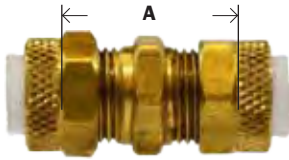
MP61P  
261PF

Hex

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.
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

## UNION



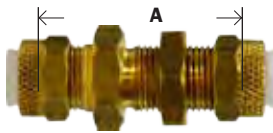
MP62  
262PF

Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.
20240	1/8"	0.66	0.31	0.02
20241	3/16"	0.75	0.37	0.04
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



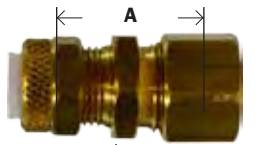
MP82  
282PF

Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.
20337	1/4"	1.25	0.56	0.06
20338	5/16"	1.25	0.62	0.08
20339	3/8"	1.31	0.69	0.10

62PBH 329P 282P

## UNION TUBE #M62C - FLARELESS X STANDARD COMPRESSION



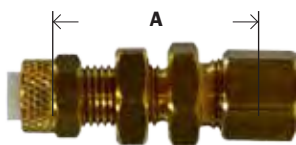
MP62C  
262PFC

Hex<sup>1</sup> Hex<sup>2</sup>

PART #	TUBE O.D.	A	HEX 1	HEX 2	APPROX. WT. LBS.
20235	1/4"	0.75	0.44	0.50	0.04
20237	3/8"	0.84	0.62	0.62	0.08

262S 62PCA 262PC

## BULKHEAD UNION - FLARELESS X COMPRESSION



MP827  
282PFC

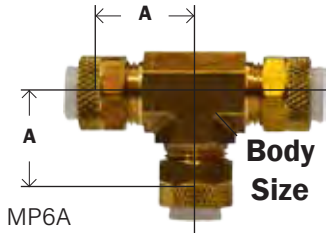
Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.
20333	1/4"	1.31	0.56	0.07
20334	3/8"	1.44	0.69	0.12

1274

**FLARELESS**

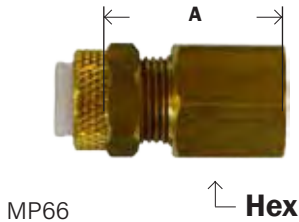
## BRASS FITTINGS

**UNION TEE**

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.
20248	1/8"	0.62	0.31	0.02
20249	3/16"	0.62	0.31	0.04
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
20330*	3/8" x 1/4"	0.72	0.44	0.08
20253	1/2"	0.81	0.62	0.24

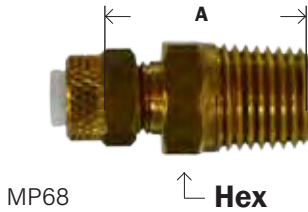
\* Reducing Branch

1264 164P 264P

**FEMALE CONNECTOR**

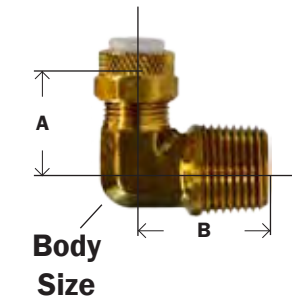
PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
20256	1/8" x 1/8"	0.75	0.56	0.03
20257	3/16" x 1/8"	0.78	0.56	0.05
20259	1/4" x 1/8"	0.76	0.50	0.04
20260	1/4" x 1/4"	1.08	0.62	0.05
20261	5/16" x 1/8"	0.75	0.50	0.03
20265	3/8" x 1/8"	0.77	0.56	0.05
20262	3/8" x 1/4"	0.94	0.62	0.05
20263	1/2" x 3/8"	1.00	0.81	0.12

1266 66P 266P

**MALE CONNECTOR**

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.
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.
20287	1/8" x 1/8"	0.62	0.69	0.31	0.02
20288	3/16" x 1/8"	0.62	0.69	0.37	0.04
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

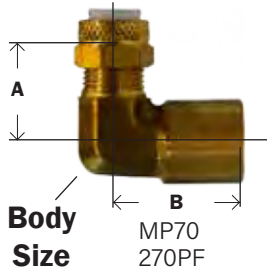
1269 169P 269P

**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](http://www.P65Warnings.ca.gov)



# FLARELESS BRASS FITTINGS

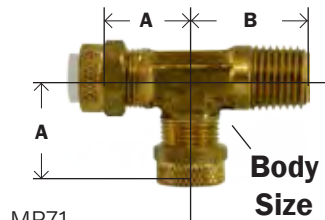
## FEMALE ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
20300	1/8" x 1/8"	0.69	0.55	0.56	0.02
20301	3/16" x 1/8"	0.72	0.55	0.56	0.02
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
20305	1/2" x 3/8"	0.91	0.94	0.63	0.16

1270 170P

## MALE RUN TEE

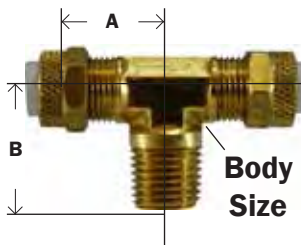


MP71  
271PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
20308	1/8" x 1/8"	0.62	0.69	0.31	0.04
20309	3/16" x 1/8"	0.62	0.69	0.31	0.04
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
20312	5/16" x 1/8"	0.62	0.75	0.37	0.08
20313	3/8" x 1/4"	0.66	0.94	0.44	0.10
20314	1/2" x 3/8"	0.81	1.06	0.63	0.16

1271 171P

## MALE BRANCH TEE

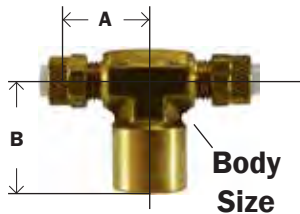


MP72  
272PF

PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
20317	1/8" x 1/8"	0.63	0.69	0.31	0.04
20318	3/16" x 1/8"	0.63	0.69	0.31	0.04
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
20321	5/16" x 1/8"	0.63	0.75	0.37	0.10
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 TEE



MP77  
277PF

PART #	TUBE O.D. X FEMALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
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

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BRASS

**FLARELESS**

## BRASS FITTINGS

## UNIVERSAL NUT AND BRASS SLEEVE ASSEMBLY

MP61B  
261PFB

PART #	TUBE O.D.	THREAD	A	HEX	APPROX. WT. LBS.
20227	1/8"	5/16-24	0.37	0.37	0.02
20228	3/16"	3/8-24	0.41	0.44	0.02
20229	1/4"	3/8-24	0.34	0.43	0.02
20230	5/16"	7/16-24	0.34	0.50	0.02
20231	3/8"	1/2-24	0.37	0.56	0.04
20232	1/2"	11/16-20	0.42	0.81	0.04

261PFB 1261B 61PB 261UB

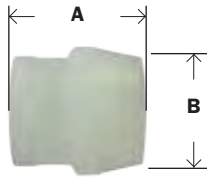
## NUT

MP61  
261PFN

PART #	TUBE O.D.	THREAD	A	HEX (DIA.)	APPROX. WT. LBS.
20218	1/8"	5/16-24	0.37	0.37	0.01
20219	3/16"	3/8-24	0.41	0.44	0.01
20220	1/4"	3/8-24	0.34	0.44	0.02
20221	5/16"	7/16-24	0.34	0.50	0.02
20222	3/8"	1/2-24	0.38	0.56	0.04
20223	1/2"	11/16-20	0.42	0.81	0.06

61PN 1261 261FPN

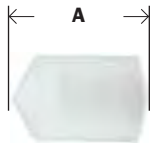
## PLASTIC SLEEVE

MP60  
260PF

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.
20205	1/4"	0.34	0.26	0.01
20206	5/16"	0.39	0.32	0.01
20207	3/8"	0.41	0.38	0.01
20208	1/2"	0.44	0.51	0.01

260FF 1260 60P 260P

## PLASTIC CAP

MP59  
269PF

PART #	TUBE O.D.	A	APPROX. WT. LBS.
20201	1/4"	0.50	0.01
20203	3/8"	0.56	0.01
20204	1/2"	0.59	0.01

1229 59P 259P

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

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# BRASS PUSH-IN FITTINGS

BRASS FITTINGS

## PUSH-IN/ PUSH-TO-CONNECT FITTINGS

BRASS PUSH-IN



NICKEL PLATED BRASS PUSH-IN



BALL VALVES FOR N/P 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



DOT COMPOSITE PUSH-IN



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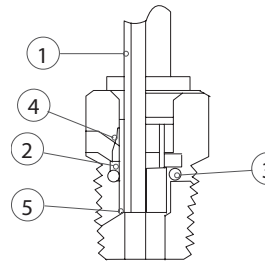
BRASS

**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 or 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**:  
-10°F to 200°F (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**

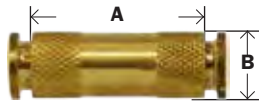
+/- .02 on all dimensions. Dimension data can change without notice. Please call us when dimensions are critical

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# BRASS PUSH-IN FITTINGS

## BRASS FITTINGS

### UNION CONNECTOR

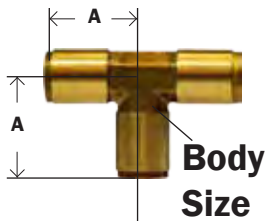


AQ62P  
MQ62

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.
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
20022	3/8" x 1/4"	1.46	0.56	0.05
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



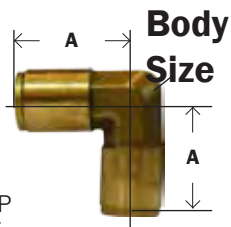
AQ64P  
MQ64

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.
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

### UNION ELBOW

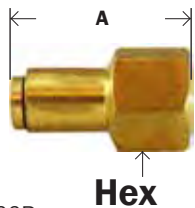


AQ65P  
MQ65

PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.
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
20155	5/16"	0.91	0.47	0.08
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

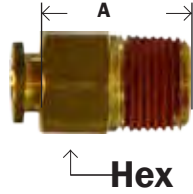
PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
20032	1/8" x 1/8"	0.96	0.56	0.04
20038	1/8" x 1/4"	1.04	0.67	0.04
20012	5/32" x 1/8"	1.09	0.56	0.05
20034	1/4" x 1/8"	1.23	0.56	0.06
20035	1/4" x 1/4"	1.42	0.75	0.09
20036	3/8" x 1/4"	1.32	0.75	0.09
20037	3/8" x 3/8"	1.31	0.87	0.12

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



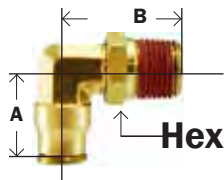
**BRASS PUSH-IN FITTINGS**

## BRASS FITTINGS

**MALE CONNECTOR**AQ68P  
MQ68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.
20047*	1/8" x 10-32"*	0.69	0.37	0.02
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

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.
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

\* Nickel Plated

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

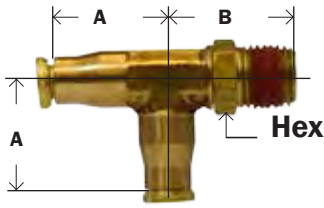
\*\* Furnished with gaskets

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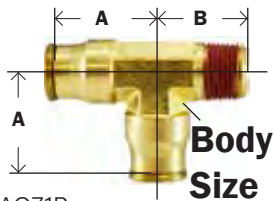
**BRASS PUSH-IN FITTINGS**

## BRASS FITTINGS

**SWIVEL MALE RUN TEE**AQ71PS  
MQ71S

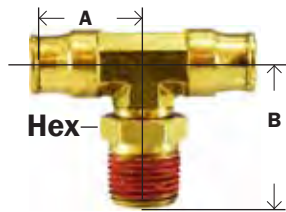
PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.
20160	1/8" x 1/8"	0.65	0.86	0.43	0.08
20161	5/32" x 1/8"	0.67	1.04	0.43	0.09
20162	1/4" x 1/8"	0.92	1.04	0.44	0.09
20163	1/4" x 1/4"	0.92	1.13	0.56	0.11
20164	3/8" x 1/4"	0.94	1.19	0.56	0.11
20165	3/8" x 3/8"	0.96	1.24	0.50	0.12
20174	1/2" x 1/4"	1.12	1.18	0.51	0.16
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

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

**FIXED MALE RUN TEE**AQ71P  
MQ71

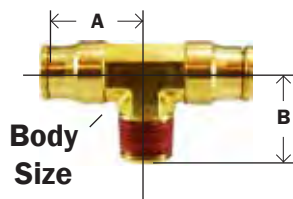
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
20095	1/8" x 1/8"	0.65	0.72	0.31	0.04
20097	3/16" x 1/8"	0.75	0.73	0.37	0.06
20098	1/4" x 1/8"	0.92	0.74	0.37	0.08
20093	1/4" x 1/4"	0.92	0.92	0.43	0.10
20099	3/8" x 1/8"	0.94	0.82	0.50	0.14
20100	3/8" x 1/4"	0.98	0.98	0.50	0.12
20101	3/8" x 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 TEE**AQ72PS  
MQ72S

PART #	TUBE O.D. X MALE NPTF	A	B	HEX	APPROX. WT. LBS.
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 TEE**AQ72P  
MQ72

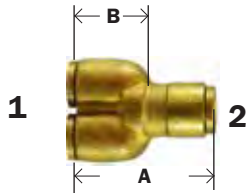
PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
20112	1/8" x 1/8"	0.69	0.72	0.31	0.04
20113	5/32" x 1/8"	0.69	0.65	0.31	0.04
20115	1/4" x 1/8"	0.92	0.74	0.37	0.12
20116	1/4" x 1/4"	0.91	0.91	0.43	0.10
20117	3/8" x 1/8"	0.98	0.80	0.50	0.08
20118	3/8" x 1/4"	0.98	0.97	0.50	0.12
20119	3/8" x 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

# BRASS PUSH-IN FITTINGS

## BRASS FITTINGS

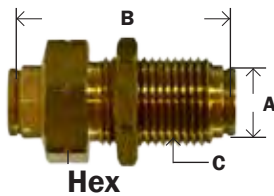
### UNION "Y"



AQ89P

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.
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

### BULKHEAD UNION

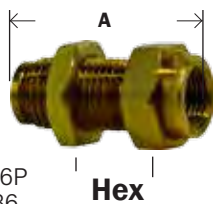


AQ82P  
MQ82

PART #	TUBE O.D. A	B	C	HEX	APPROX. WT. LBS.
20124	1/8"	1.12	7/16-20	0.62	0.03
20125	5/32"	1.12	7/16-20	0.62	0.03
20126	3/16"	1.27	1/2-20	0.68	0.04
20127	1/4"	1.69	1/2-20	0.68	0.06
20128	3/8"	1.69	3/4-16	0.81	0.13
20129	1/2"	1.85	15/16-20	1.12	0.16

AQ82-P 6590 62PLBH KQE 12-029 50-582 282-OF 1174

### FEMALE BULKHEAD UNION



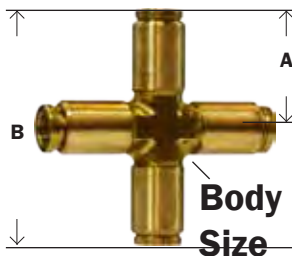
AQ86P  
MQ86

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
20170	1/4" x 1/8"	1.19	0.68	0.08
20171	1/4" x 1/4"	1.36	0.75	0.10
20172	3/8" x 1/4"	1.71	0.75	0.14

AQ86-P 1166BH

Dimension data can change without notice. Please call us when dimensions are

### CROSS



SIZE	SIZE	A	B	BODY SIZE
20142	1/4"	1.03	2.06	0.37
20143	3/8"	1.06	2.12	0.50

### REDUCER - NICKEL PLATED - TUBE OD X STUD



MQ97

PART #	TUBE O.D. 1 X 2	A	B	APPROX. WT. LBS.
20510	1/8" x 1/4"	1.38	0.39	0.02
20511	5/32" x 1/4"	1.33	0.35	0.02
20512	1/4" x 3/8"	1.50	0.51	0.04

67PPL 286PP

### PLASTIC PLUG



AQ59P • Cored  
MQ59

PART #	TUBE O.D.	A	APPROX. WT. LBS.
20009	5/32"	1.16	0.01
20010	1/4"	1.40	0.01
20011	3/8"	1.40	0.02
20013	1/2"	1.50	0.02

284PP AQ59 209-OF 1129 6900 639PL 12-004 50-526

WARNING: This product contains explosive materials. Do not use for applications where failure could result in injury or death. For more information, visit [www.midlandindustries.com](http://www.midlandindustries.com).

**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  
 Parrallel (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](http://www.P65Warnings.ca.gov)

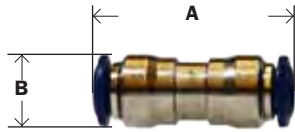


# NICKEL PLATED PUSH-IN FITTINGS

## BRASS FITTINGS

### NICKEL PLATED PUSH-IN FITTINGS

#### UNION CONNECTOR

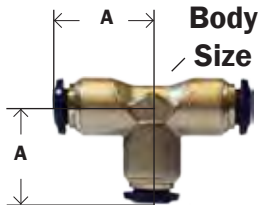


PART #	TUBE O.D.	A	B	APPROX. WT. LBS.
20017N	1/8"	1.06	0.34	0.03
20018N*	5/32"	1.20	0.41	0.03
20016N	5/32" x 1/4"	1.20	0.40	0.04
20019N*	1/4"	1.38	0.49	0.05
20015N*	5/16"	1.46	0.57	0.06
20020N*	3/8"	1.69	0.69	0.06
20022N	3/8" x 1/4"	1.69	0.68	0.06
20021N*	1/2"	1.93	0.81	0.18
20024N	1/2" x 3/8"	1.84	0.80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

\* Available in SS

62PL 88040

#### UNION TEE

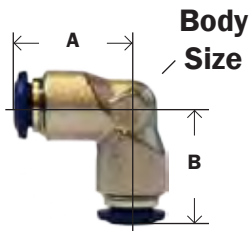


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.
20025N	1/8"	0.67	0.35	0.04
20026N*	5/32"	0.67	0.35	0.04
20028N*	1/4"	0.83	0.43	0.09
20031N*	5/16"	0.87	0.51	0.10
20029N*	3/8"	1.04	0.63	0.13
20030N*	1/2"	1.20	0.74	0.24

\* Available in SS

164PL 88230

#### UNION ELBOW

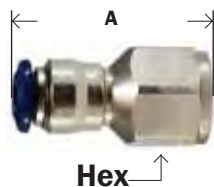


PART #	TUBE O.D.	A	BODY SIZE	APPROX. WT. LBS.
20150N	1/8"	0.67	0.35	0.02
20151N*	5/32"	0.67	0.35	0.04
20152N*	1/4"	0.83	0.43	0.06
20155N*	5/16"	0.87	0.51	0.08
20153N*	3/8"	1.04	0.63	0.09
20154N*	1/2"	1.20	0.75	0.18

\* Available in SS

165PL 88130

#### FEMALE CONNECTOR



PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
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



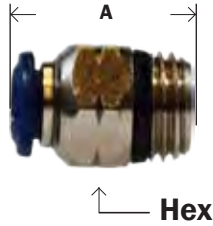
USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

**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](http://www.P65Warnings.ca.gov)

# NICKEL PLATED PUSH-IN FITTINGS

## BRASS FITTINGS

### MALE CONNECTOR

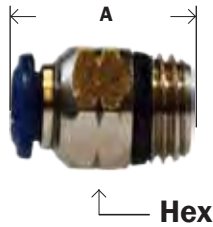


• Can be purchased with NPTF threads upon request

\* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.
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

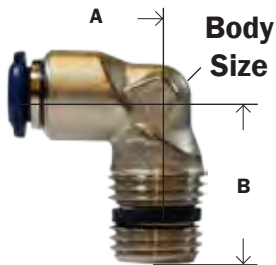
### MALE CONNECTOR WITH INTERNAL HEX



PART #	TUBE O.D. X MALE GLOBAL THREAD	A	HEX	APPROX. WT. LBS.
20842N	1/8" x 10-32" UNF	0.71	0.10	0.02
20847N	5/32" x 10-32 UNF	0.79	0.10	0.02
20846N	5/32" x 1/8"	0.71	0.12	0.03
20845N	1/4" x 10-32" UNF	0.93	0.10	0.03
20843N	1/4" x 1/8"	0.93	0.16	0.06
20844N	1/4" x 1/4"	0.85	0.16	0.10

68PL 8700

### FIXED MALE ELBOW



PART #	TUBE O.D. X MALE NPTF	A	B	BODY SIZE	APPROX. WT. LBS.
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



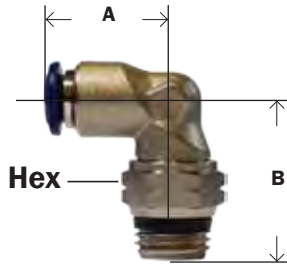
VIEW PRICING AND AVAILABLE STOCK ONLINE

**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](http://www.P65Warnings.ca.gov)

# NICKEL PLATED PUSH-IN FITTINGS

## BRASS FITTINGS

### SWIVEL MALE ELBOW



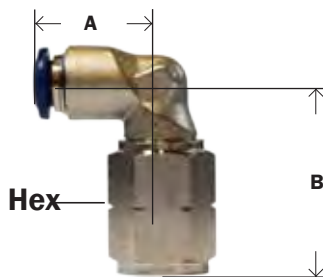
• Can be purchased with NPTF threads upon request

\* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.
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

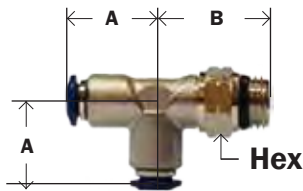
W169PL 87110

### FEMALE SWIVEL ELBOW



PART #	TUBE O.D. X FEMALE NPTF	A	B	HEX
20094N	5/32" x 1/8"	0.669	0.994	0.354
20089N	1/4" x 1/8"	0.826	1.023	0.433
20090N	1/4" x 1/4"	0.826	1.200	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



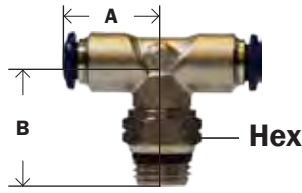
• Can be purchased with NPTF threads upon request

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.
20095N	1/8" x 1/8"	0.67	0.81	0.51	0.05
20851N	1/8" x 1/4"	0.67	0.95	0.59	0.06
20852N	5/32" x 1/8"	0.67	0.79	0.51	0.07
20853N	5/32" x 1/4"	0.67	0.95	0.59	0.07
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
20164N	1/4" x 3/8"	0.83	1.10	0.59	0.11
20159N	3/8" x 1/8"	1.04	1.07	0.59	0.12
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
20181N	3/8" x 1/2"	1.20	1.24	0.59	0.15
20174N	1/2" x 1/4"	1.20	1.24	0.59	0.16
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

**NICKEL PLATED PUSH-IN FITTINGS**

## BRASS FITTINGS

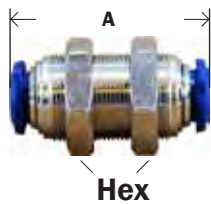
**SWIVEL MALE BRANCH TEE**

- Can be purchased with NPTF threads upon request

\* Available in stainless steel

PART #	TUBE O.D. X MALE GLOBAL THREAD	A	B	HEX	APPROX. WT. LBS.
20103N	1/8" x 1/8"	0.67	0.78	0.51	0.04
20104N	5/32" x 10-32"	0.67	0.79	0.31	0.04
20109N	5/32" x 1/8"	0.70	0.79	0.51	0.06
20850N	5/32" x 1/4"	0.67	1.00	0.59	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
20112N	1/2" x 1/4"	1.20	1.24	0.59	0.23
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

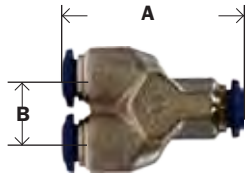
W172PL 87210

**BULKHEAD UNION**

\* Available in stainless steel

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.
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

**UNION "Y"**

PART #	TUBE O.D.	A	B	APPROX. WT. LBS.
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
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

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# 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.
28400	1/8	30/300	.07
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.
28403	5/32 x 1/8	30/300	.08
28407	1/4 x 1/8	30/300	.08
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.
46650	1/8	30/300	.11
46651	1/4	30/300	.10
46652	3/8	20/200	.14
46653	1/2	15/150	.25



#### MIP X FIP

PART #	SIZE	BOX/CASE	WGT.
46660	1/8	30/300	.11
46661	1/4	30/300	.10
46662	3/8	20/200	.14
46663	1/2	15/150	.25

- Optional colors of handle plate for identification

#### PANEL MOUNT DESIGN



#### FIP X FIP ANGLE

PART #	SIZE	BOX/CASE	WGT.
46670	1/8	20/200	.19
46671	1/4	20/200	.20
46672	3/8	25/250	.11



#### 3-WAY FIP - OPEN CENTER

PART #	SIZE	BOX/CASE	WGT.
466900	1/8	25/250	.13
466901	1/4	20/200	.21
466902	3/8	20/200	.21



#### 3-WAY FIP - CLOSED CENTER

PART #	SIZE	BOX/CASE	WGT.
46680	1/8	25/250	.13
46681	1/4	20/200	.21
46682	3/8	20/200	.21

See page 198-200 for more mini ball valves  
Stainless Steel mini ball valves on page 212 and 213

**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](http://www.P65Warnings.ca.gov)

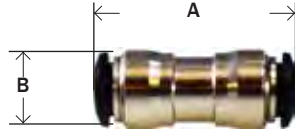
BRASS



# NICKEL PLATED METRIC PUSH-IN FITTINGS

## BRASS FITTINGS

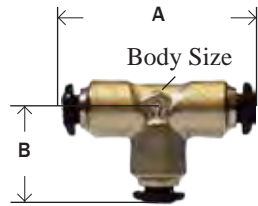
### UNION



PART #	TUBE O.D. (MM)	TUBE O.D. (MM)	A	B
20723N	3		1.014	0.332
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

\* Available in SS

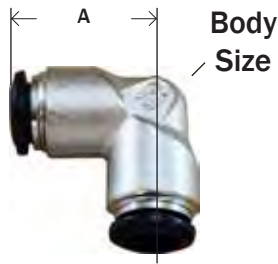
### UNION TEE



PART #	TUBE O.D. (MM)	A	B	BODY SIZE
20741N	3	1.326	0.663	0.351
20610N*	4	1.326	0.663	0.351
20742N	5	1.560	0.780	0.429
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

\* Available in SS

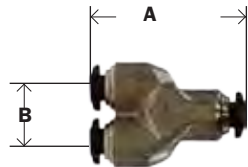
### UNION ELBOW



PART #	TUBE O.D. (MM)	A	BODY SIZE
20738N	3	0.663	0.51
20206N*	4	0.663	0.351
20739N	5	0.780	0.429
20660N*	6	0.780	0.429
20661N*	8	0.878	0.507
20807N*	10	1.034	0.624
20808N*	12	1.190	0.741
20740N	14	1.268	0.741

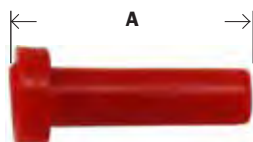
\* Available in SS

### UNION Y



PART #	TUBE O.D. (MM)	B	A
20744N	3	0.390	1.131
20813N	4	0.429	1.248
20745N	5	0.527	1.365
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
20748N	4	0.917
20749N	5	0.956
20750N	6	0.956
20751N	8	1.014
20752N	10	1.112
20753N	12	1.190

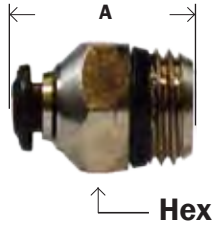
**WARNING:** This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# NICKEL PLATED METRIC PUSH-IN FITTINGS

BRASS FITTINGS

## NICKEL PLATED METRIC PUSH-IN FITTINGS

### METRIC TUBE STRAIGHT MALE

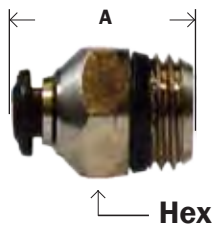


• Can be purchased with BSPP or BSPT Threads

\* Available in SS

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX
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

### METRIC TUBE INTERNAL HEX

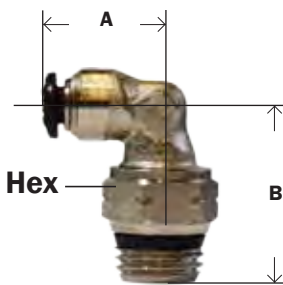


• Can be purchased with BSPP or BSPT Threads

\* Available in SS w BSPP or BSPT Threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	HEX
20619N	3	M5	0.31	0.31
20620N	4	1/8"	0.71	0.43
20621N*	4	M5	0.39	0.38
20622N	4	M7 x 1"	0.83	0.38
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
20627N	8	1/8"	0.98	0.55

### METRIC TUBE SWIVEL MALE ELBOW



• Can be purchased with BSPP or BSPT Threads

\* Available in SS w BSPP or BSPT Threads

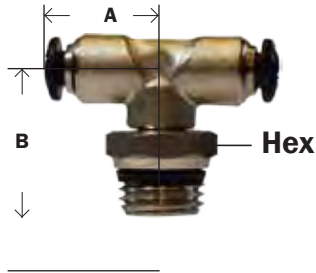
PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX
20708N*	4	1/8"	0.663	0.780	0.507
20709N*	4	1/4"	0.663	0.936	0.585
20710N	5	1/8"	0.780	0.858	0.507
20642N*	6	1/8"	0.819	0.858	0.507
20803N*	6	1/4"	0.819	0.975	0.585
20711N*	8	1/8"	0.878	0.917	0.507
20805N*	8	1/4"	0.878	1.014	0.585
20655N	8	3/8"	0.878	1.092	0.663
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

**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](http://www.P65Warnings.ca.gov)

# NICKEL PLATED METRIC PUSH-IN FITTINGS

## BRASS FITTINGS

### METRIC TUBE SWIVEL MALE BRANCH TEE

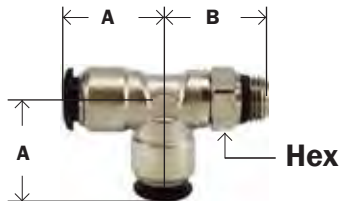


- Can be purchased with BSPP or BSPT threads

\* Available in SS w/BSPP or BSPT threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX
20680N*	4	1/8"	0.663	0.780	0.507
20716N*	4	1/4"	0.663	0.936	0.585
20717N	5	1/8"	0.78	0.858	0.507
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
20690N	8	3/8"	0.886	1.024	0.585
20691N	8	1/2"	0.886	1.122	0.585
20686N*	10	1/4"	1.033	1.092	0.585
20687N*	10	3/8"	1.033	1.170	0.663
20810N*	10	1/2"	1.033	1.287	0.819
20688N*	12	3/8"	1.189	1.287	0.663
20689N*	12	1/2"	1.189	1.404	0.819
20718N	14	3/8"	1.267	1.404	0.663
20719N	14	1/2"	1.267	1.443	0.819

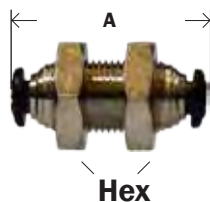
### METRIC TUBE SWIVEL MALE RUN TEE



- Can be purchased with BSPP threads

PART #	TUBE O.D. (MM)	GLOBAL THREAD	A	B	HEX
20670N	4	1/8"	0.663	0.780	0.507
20720N	4	1/4"	0.663	0.936	0.585
20721N	5	1/8"	0.780	0.858	0.507
20672N	6	1/8"	0.819	0.858	0.507
20673N	6	1/4"	0.819	0.975	0.585
20811N	8	1/8"	0.819	0.917	0.507
20674N	8	1/4"	0.878	1.014	0.585
20668N	8	3/8"	0.885	1.063	0.585
20669N	8	1/2"	0.885	1.063	0.585
20676N	10	1/4"	0.878	1.092	0.585
20677N	10	3/8"	1.034	1.170	0.663
20722N	10	1/2"	1.034	1.287	0.819
20678N	12	3/8"	1.190	1.287	0.663
20679N	12	1/2"	1.190	1.404	0.819

### BULKHEAD



PART #	TUBE O.D. (MM)	M	A	HEX
20731N	3	M10x1	1.014	0.546
20732N*	4	M12x1	1.229	0.663
20733N	5	M14x1	1.287	0.663
20734N*	6	M14x1	1.365	0.663
20735N*	8	M16x1	1.443	0.741
20736N*	10	M20x1	1.677	0.936
20737N*	12	M22x1	1.872	1.014


\* Available in SS

# COMPOSITE BODY PUSH-IN FITTINGS

BRASS FITTINGS

# COMPOSITE BODY PUSH-IN FITTINGS



 • For Food Grade,  
see page 340-343

### 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.

May you live all the  
days of your life.

- Jonathan Swift



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

**COMPOSITE BODY PUSH-IN FITTINGS**

## BRASS FITTINGS

## UNION



PART #	TUBE O.D.	APPROX. WT. LBS.	
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.	
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.	
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.	
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.	
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



- See broader range of sizes on page 104 N/P push-in fittings

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.
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.
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

### LONG PATTERN MALE ELBOWS



PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.
20572C	1/4 X 1/8	0.03
20573C	1/4 X 1/4	0.05
20574C	1/4 X 3/8	0.06
20579C	3/8 X 1/4	0.09
20580C	3/8 X 3/8	0.12
20581C	3/8 X 1/2	0.14
20582C	1/2 X 1/4	0.16
20583C	1/2 X 3/8	0.18
20584C	1/2 X 1/2	0.20

# COMPOSITE BODY PUSH-IN FITTINGS

## BRASS FITTINGS

### FEMALE SWIVEL ELBOWS



PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.
20089C	1/4 X 1/8	0.05
20090C	1/4 X 1/4	0.06
20591C	1/4 X 3/8	0.07
20091C	3/8 X 1/4	0.10
20595C	3/8 X 3/8	0.14
20596C	3/8 X 1/2	0.15
20597C	1/2 X 3/8	0.20
20598C	1/2 X 1/2	0.23

### 45° SWIVELS



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

### SWIVEL MALE RUN TEE

- Swivels for installation only.



\* Global Thread

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.
20160C*	1/8" x 1/8"	0.03
20833C*	1/8" x 1/4"	0.03
20835C*	5/32" x 10-32	0.03
20162C	1/4" x 1/8"	0.04
20163C	1/4" x 1/4"	0.04
20834C*	1/4" x 10-32	0.04
20099C	3/8" x 1/8"	0.06
20100C	3/8" x 1/4"	0.08
20165C	3/8" x 3/8"	0.10
20181C	3/8 x 1/2	0.12
20174C	1/2 x 1/4	0.12
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.
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
20830C*	3/16" x 1/8"	0.03
20105C	1/4" x 1/8"	0.04
20106C	1/4" x 1/4"	0.06
20831C*	1/4" x 10/32"	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

# COMPOSITE BODY PUSH-IN FITTINGS

## BRASS FITTINGS

### BULKHEAD UNION



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

PQ82P

### BULKHEAD FEMALES



PART #	TUBE O.D. X THREAD	APPROX. WT. LBS.
20170C	1/4 X 1/8	0.04
20171C	1/4 X 1/4	0.04
20172C	3/8 X 1/4	0.06
20173C	3/8 X 3/8	0.07
20175C	1/2 X 1/4	0.07
20176C	1/2 X 3/8	0.09
20179C	1/2 X 1/2	0.10

### SWIVEL "Y" CONNECTOR

• Swivels for installation only. • Not a live swivel



PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.
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
20193C	3/8 X 1/2	0.07
20194C	1/2 X 3/8	0.06
20195C	1/2 X 1/2	0.09

PQ88PS

### IN-LINE NEEDLE VALVE



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

PQ310C

### RIGHT ANGLE FLOW CONTROL METER IN • Free flow out



• Marked w/V

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.
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

JPQ

### RIGHT ANGLE FLOW CONTROL METER OUT • Free flow in

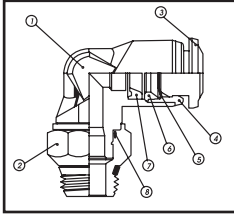


• Marked w/C

PART #	TUBE O.D. X MALE NPT	APPROX. WT. LBS.
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

**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

-5° F to + 175° F (-20° C to + 80° 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)
20600	4
20601	6
20602	8
20603	10
20604	12

**UNION TEE**

PART #	TUBE O.D. (MM)
20610	4
20862	5
20611	6
20612	8
20613	10
20614	12
20861	14

3104

**UNION ELBOW**

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

3102

**MALE ADAPTER**

PART #	TUBE OD (MM)	BSPT THREAD
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

NOTE: See page 102 for a complete line of male adapters with global thread.

**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](http://www.P65Warnings.ca.gov)

# METRIC COMPOSITE BODY PUSH-IN FITTINGS

## BRASS FITTINGS

### SWIVEL ELBOW



PART #	TUBE OD (MM)	BSPT THREAD
20690*	4	M5
20856*	4	1/8"
20855*	4	1/4"
20692*	5	M5
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"
20712*	8	1/2"
20656	10	1/4"
20657	10	3/8"
20713*	10	1/2"
20790	12	1/4"
20658	12	3/8"
20659	12	1/2"
20714*	14	3/8"
20854*	14	1/2"

- \* Global Thread
- BSPP Available

### SWIVEL BRANCH TEE



PART #	TUBE OD (MM)	BSPT THREAD
20680*	4	1/8"
20860*	4	1/4"
20717*	5	1/8"
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"
20718*	14	3/8"
20719*	14	1/2"

- \* Global Thread
- BSPP Available

### SWIVEL RUN TEE



PART #	TUBE OD (MM)	BSPT THREAD
20670	4	1/8"
20720*	4	1/4"
20721*	5	1/8"
20672	6	1/8"
20673	6	1/4"
20811	8	1/8"
20674	8	1/4"
20675	8	3/8"
20676	10	1/4"
20677	10	3/8"
20678	12	3/8"
20679	12	1/2"

- \* Global Thread
- BSPP Available

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BRASS



**METRIC COMPOSITE BODY PUSH-IN FITTINGS**

## BRASS FITTINGS

## UNION WYE



PART #	TUBE OD (MM)	
20813	4	
20814	6	
20815	8	
20746	10	
20827	12	

## SWIVEL MALE WYE



PART #	TUBE OD (MM)	GLOBAL THREAD	
20816	4	1/8"	
20821*	4	1/4"	
20817*	6	1/8"	
20818	6	1/4"	
20819*	8	1/8"	
20820*	8	1/4"	
20822*	8	3/8"	
20823*	10	1/4"	
20824*	10	3/8"	
20825*	10	1/2"	
20826*	12	3/8"	
20827*	12	1/2"	

- \* Global Thread
- BSPP Available

Also available:

- 45° elbow swivel
- 4 position Y
- Manifolds
- Extended swivel elbows
- Bulkhead union
- Plug-in elbows and tees

A man's ancestry is a positive property to him.

- Edward Bulwer-Lytton



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!

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# D.O.T. PUSH-IN TUBE FITTINGS



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

## 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 con-

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 )

PRICING FILE AVAILABLE ONLINE

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

**D.O.T. PUSH-IN**

## BRASS FITTINGS

## PLUG



AQ59DOT

PART #	TUBE O.D.	APPROX. WT. LBS.	
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.	
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.	
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 164 PMT 1864 DQ64DOT

## UNION ELBOW

AQ65DOT  
DQ65

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

**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](http://www.P65Warnings.ca.gov)



# D.O.T. PUSH-IN

## BRASS FITTINGS

### FEMALE CONNECTOR



AQ66DOT  
DQ66

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
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

### MALE CONNECTOR



AQ68DOT  
DQ68

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
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

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



USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE  
WITH MIDLAND MORE CONVENIENTLY

**D.O.T. PUSH-IN**

## BRASS FITTINGS

## MALE ELBOW



Forged

AQ69DOT  
DQ69

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
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 ELBOW



Forged

AQ62DOTS  
DQ69S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
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

A mind becomes a detriment when it acquires more intelligence than its integrity can handle.

- Cullen Hightower



# D.O.T. PUSH-IN

## BRASS FITTINGS

### FEMALE ELBOW



Forged

AQ70DOTS  
DQ70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.	
700402	1/4" x 1/8"	0.06	
700404	1/4" x 1/4"	0.10	
700406	1/4" x 3/8"	0.16	
700602	3/8" x 1/8"	0.15	
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	
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.	
710402	1/4" x 1/8"	0.06	
71040604	(1/4" x 3/8") x 1/4"	0.20	
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	
71060406	(3/8" x 1/4") x 3/8"	0.20	
710608	3/8" x 1/2"	0.14	
710806	1/2" x 3/8"	0.28	

AQ71DOT 171PMTNS 1871 DQ71DOT



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

**D.O.T. PUSH-IN**

## BRASS FITTINGS

**MALE SWIVEL RUN TEE**

AQ71DOTS  
DQ71S Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
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

**MALE 45° ELBOW**

AQ54DOT  
DQ54 Forged

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
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	
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.	
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**

AQ72DOT  
DQ72 Forged

PART #	TUBE O.D. X MALE NPTF (1 X 2) X 3	APPROX. WT. LBS.	
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	
72100808	(5/8" x 1/2") x 1/2"	0.20	

AQ72DOT 172PMTNS 1872 DQ72DOT

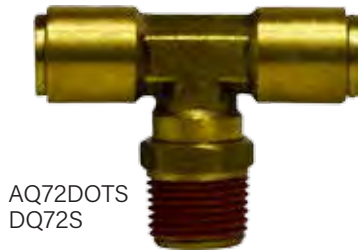
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# D.O.T. PUSH-IN

## BRASS FITTINGS

### MALE SWIVEL BRANCH TEE



AQ72DOTS  
DQ72S

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.	
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	
770402	1/4" x 1/8"	
770404	1/4" x 1/4"	
770604	3/8" x 1/4"	

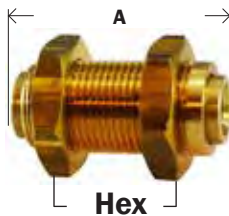
### GLADHAND BULKHEAD CONNECTOR



#### TUBE OD X MALE NPTF

PART #	SIZE	
830808	1/2" x 1/2"	

### BULKHEAD UNION



AQ82DOT  
DQ82

PART #	TUBE O.D.	APPROX. WT. LBS.	
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.	
860402	1/4" x 1/8"	0.08	
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](mailto:warning@compdotfitting.com) with any questions or concerns.

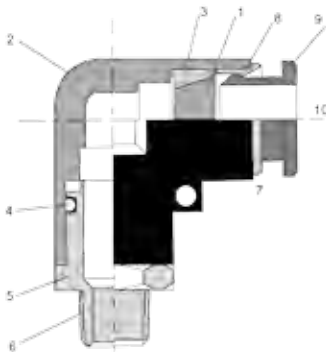


- One touch connection reduces installation time and cost.
- Rugged ultraviolet and vibration resistant composite body.
- Various shapes and configurations to meet vehicle applications and make installations easier.

### SPECIFICATIONS FOR FMVSS (D.O.T.) AND SAE COMPLIANT FITTINGS

PRICING FILE AVAILABLE ONLINE

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 <sup>3</sup> /min. or less						
Thread	Thread Portion	ANSI/ASME B1.20.1, 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.	
620532C	5/32	0.01	
620400C	1/4	0.01	
620600C	3/8	0.03	
620800C	1/2	0.05	
621000C	5/8	0.08	

### UNION TEE



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
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	

### UNION 90° ELBOW



PART #	TUBE OD (INCH)	APPROX. WT. LBS.	
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.	
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.
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
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.
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.
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.
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
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.
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.
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.
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
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

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BRASS

**COMPOSITE BODY D.O.T. PUSH-IN**

BRASS FITTINGS

**UNION "Y"**

PART #	A&B TUBE OD (INCH)	C TUBE OD (INCH)	APPROX. WT. LBS.
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.
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.
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.
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

Available on [Midlandmetal.com](http://Midlandmetal.com)

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**D.O.T. AIR BRAKE - NYLON TUBING**



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

**-Typical Application**

Air brake systems except where temperatures exceed +200°F or where battery acid can drip on tubing.

**-Pressure**

Maximum operating pressure of 150 PSI.

**-Vibration**

Fair resistance.

**-Temperature Range**

-40°F to +200°F (-40°C to +93°C).

**-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

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

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BRASS

**D.O.T. AIR BRAKE - NYLON TUBING**

## BRASS FITTINGS

**SLEEVE**

SAE# 100115

60NA  
NT60

PART #	TUBE O.D.	APPROX. WT. LBS.
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

**NUT**

SAE# 100110

62NA  
NT61

PART #	TUBE O.D.	APPROX. WT. LBS.
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

**UNION**

SAE# 100101BA

62NA  
NT62

PART #	TUBE O.D.	APPROX. WT. LBS.
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 UNION**62NABH  
NT62BH

PART #	TUBE O.D.	APPROX. WT. LBS.
38028	1/4"	0.11
38029	3/8"	0.16
38030	1/2"	0.26

62NBH 1474 475

**STAINLESS STEEL INSERT**

• 300 SERIES STAINLESS

• For SAE# J844 TUBING

AQ71DOTS  
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.
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**AQ71DOTS  
DQ71S

PART #	TUBE O.D.	APPROX. WT. LBS.
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



# D.O.T. AIR BRAKE - NYLON TUBING

## BRASS FITTINGS

### TEE

SAE# 100401BA



64NA  
NT64

PART #	TUBE O.D.	APPROX. WT. LBS.
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.
38049	3/8" x 1/4"	0.24
38057	1/2" x 3/8"	0.30

### ELBOW

SAE# 100201BA



65NA  
NT65

PART #	TUBE O.D.	APPROX. WT. LBS.
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

SAE# 100103BA



66NA  
NT66

PART #	TUBE O.D. X FEMALE NPT	APPROX. WT. LBS.
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

If you watch a game, it's fun. If you play it, it's recreation.  
If you work at it, it's golf.

- Bob Hope

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

Fax 1-800-877-5391



sales@midlandindustries.com

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**D.O.T. AIR BRAKE - NYLON TUBING****BRASS FITTINGS****MALE ADAPTER**

SAE# 100102BA

68NA  
NT68VS

• More sizes available online

**SWIVEL MALE ADAPTER**

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.
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

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

**MALE ELBOW**

SAE# 100202BA

69NA  
NT69VS

• More sizes available online

**SWIVEL MALE ELBOW**

PART #	TUBE O.D. X MALE NPTF	APPROX. WT. LBS.
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

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

**FEMALE ELBOW**

SAE# 100203BA

70NA  
NT70

PART #	TUBE O.D. X FEMALE NPTF	APPROX. WT. LBS.
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

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# D.O.T. AIR BRAKE - NYLON TUBING

## BRASS FITTINGS

### MALE RUN TEE

SAE# 100424BA

1



71NA  
NT71VS

PART #	TUBE O.D. X MALE NPTF X	APPROX. WT. LBS.
	TUBE O.D. 1X2X3	
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

SAE# 100425BA

1



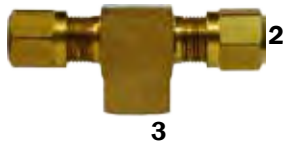
72NA  
NT72VS

PART #	TUBE O.D. X TUBE O.D. X	APPROX. WT. LBS.
	MALE NPTF 1X2X3	
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

1



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

### 45° ELBOW

SAE# 100302BA

6945NA  
NT6945VS



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

**D.O.T. AIR BRAKE - COPPER TUBING**

## BRASS FITTINGS

**SLEEVE**

SAE# 120115BA

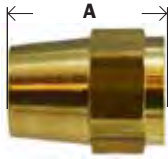
60AB  
AB60

PART #	TUBE O.D.	A	APPROX. WT. LBS.
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**

SAE# 120111BA

61AB  
AB61

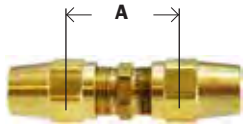
Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.
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**

SAE# 120101BA

62AB  
AB62

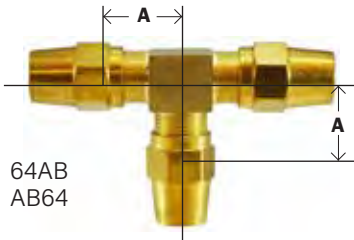
Hex

PART #	TUBE O.D.	A	HEX	APPROX. WT. LBS.
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**

SAE# 120401BA

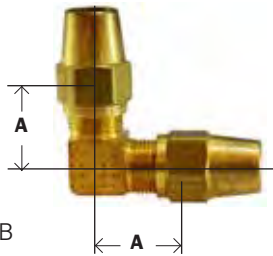
64AB  
AB64

PART #	TUBE O.D.	A	APPROX. WT. LBS.
38188	1/4"	0.62	0.16
38189	3/8"	0.82	0.24
38190	1/2"	0.94	0.48
38191	5/8"		

264AB 1364

**ELBOW**

SAE# 120201BA

65AB  
A65

PART #	TUBE O.D.	A	APPROX. WT. LBS.
38196	1/4"	0.62	0.10

265AB 1365

**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](http://www.P65Warnings.ca.gov)

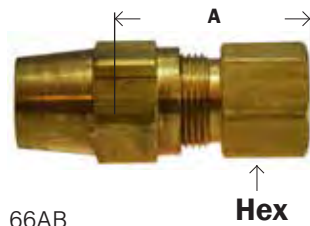


# D.O.T. AIR BRAKE - COPPER TUBING

## BRASS FITTINGS

### FEMALE ADAPTER

SAE# 120103BA



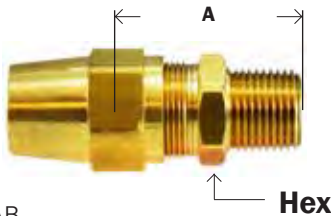
66AB  
AB66

PART #	TUBE O.D. X FEMALE NPTF	A	HEX	APPROX. WT. LBS.
38204	1/4" x 1/8"	0.84	0.56	0.08
38205	1/4" x 1/4"	1.07	0.68	0.10
38206	3/8" x 1/8"	1.00	0.56	0.10
38207	3/8" x 1/4"	1.19	0.68	0.12
38208	3/8" x 3/8"	1.18	0.87	0.16
38209	1/2" x 3/8"	1.27	0.87	0.18
38210	1/2" x 1/2"	1.44	1.06	0.20
38211	5/8" x 3/8"	1.31	0.87	0.24
38212	5/8" x 1/2"	0.50	1.06	0.26
38213	3/4" x 1/2"			

66AB 1366

### MALE ADAPTER

SAE# 120102BA



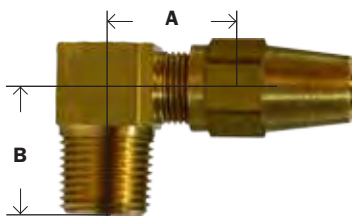
68AB  
AB68

PART #	TUBE O.D. X MALE NPTF	A	HEX	APPROX. WT. LBS.
38217	1/4" x 1/8"	0.88	0.43	0.06
38218	1/4" x 1/4"	0.97	0.56	0.08
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
38227	5/8" x 3/8"	1.39	0.81	0.22
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

SAE# 120202BA



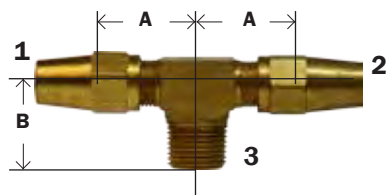
69AB  
AB69

PART #	TUBE O.D. X MALE NPTF	A	B	APPROX. WT. LBS.
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
38246	5/8" x 1/2"	1.10	1.25	0.36

269AB 1369

### MALE BRANCH TEE

SAE# 120425BA



72AB  
AB72

PART #	TUBE O.D. X MALE NPTF (1&2)X3	A	B	APPROX. WT. LBS.
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](http://www.P65Warnings.ca.gov)

BRASS



**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: -40°F to + 120° 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.	
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.	
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.	
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

### SPRING



61HSG  
HE61G

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

379 67RBSG 0999999

### UNION



62HE  
HE62

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

### MALE CONNECTOR



68HEA  
HE68S

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

#68ABS 09155 3380B-Y8 387

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BRASS

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

## BRASS FITTINGS

## ADAPTER FOR SWIVEL TYPE REUSABLE AND CRIMPED

68HEAB  
1390

PART #	MALE ABS X MALE PIPE	ABS THREAD	APPROX. WT. LBS.
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.
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.
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.
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

“The man who removes a mountain begins  
by carrying away small stones.”

- Chinese Proverb



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

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# STEEL GREASE FITTINGS

## BRASS FITTINGS

- 8000 PSI MAX. PRES-
- EXCEEDS 12HR SALT

Meets SAE #J-534C

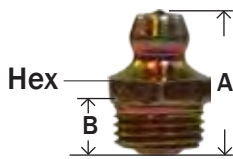
- ASSORTMENTS ALSO

Many types available on special order.

• SEE WEBSITE FOR GREASE ACCESS-

### PIPE THREAD

### BALL CHECK - 1/8"-27 NPTF

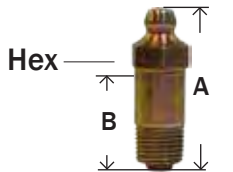


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36110	1/8" -27 NPTF	0.66	0.28	0.437	0.01
36110SS	303 SS	0.68	0.29	0.437	0.01
36111	Thread Forming	0.62	0.23	0.437	0.01

#610 1610 2800 1720 5000

### PIPE THREAD

### BALL CHECK

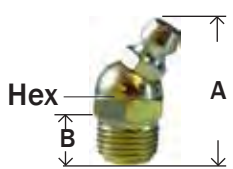


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36112	1/8" -27 NPTF	1.25	0.22	0.437	0.02
36113	1/8" -27 NPTF	1.75	1.26	0.437	0.02

#607 1607 2800 1669 5003

### PIPE THREAD

### 30° ANGLE BALL CHECK

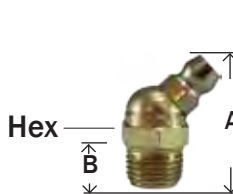


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36114	1/8" -27 NPTF	0.90	0.30	0.437	0.01

#611 1611 2830 5100

### PIPE THREAD

### 45° ANGLE BALL CHECK

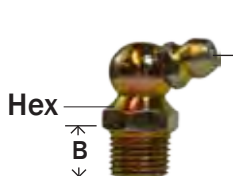


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36116	1/8" -27 NPTF	0.88	0.22	0.437	0.01
36116SS	303 SS	0.95	0.29	0.437	0.01

#688 1688 2845 5200

### PIPE THREAD

### 65° ANGLE BALL CHECK

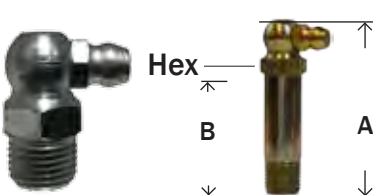


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36118	1/8" -27 NPTF	0.86	0.30	0.437	0.01

#612 1612 2865 5300

### PIPE THREAD

### 90° ANGLE BALL CHECK

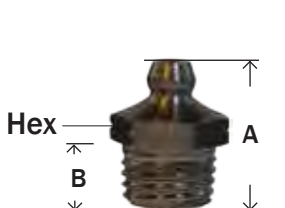


PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36120	1/8" -27 NPTF	0.84	0.30	0.437	0.01
36120SS	303 SS	0.84	0.29	0.437	0.01
36121	1/8" -27 NPTF	1.81	1.25	0.437	0.01

#613 1613 2890 5400 5407

### PIPE THREAD

### BALL CHECK - 1/4"-18 NPTF



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36130	1/4" -18 NPTF	0.84	0.30	0.437	0.02
36130SS	303 SS	0.87	0.42	0.437	0.02

#627 1627 2900K 5050

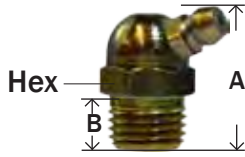
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

BRASS

**STEEL GREASE FITTINGS**

## BRASS FITTINGS

## PIPE THREAD

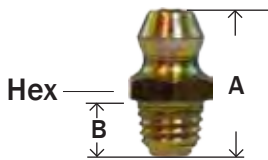


## 65° ANGLE BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36132	1/4"-18 NPTF	0.97	0.34	0.56	0.02

#629 1629 2965 5350

## 1/4-28 TAPER THREAD

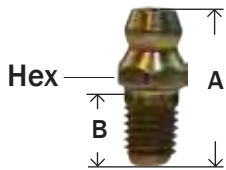


## SHORT BALL CHECK - 1/4-28 NPTF

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36140	1/4"-28 NPTF	0.54	0.18	0.31	0.01
36140SS	303 SS	0.54	0.18	0.31	0.01
36141	Thread Forming	0.55	0.10	0.31	0.01

#641 1641 2400 3038 5010

## 1/4-28 TAPER THREAD

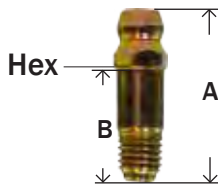


## LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36142	1/4"-28 Taper Thread	0.69	0.34	0.312	0.01

#652 1652 2400 5013

## 1/4-28 TAPER THREAD

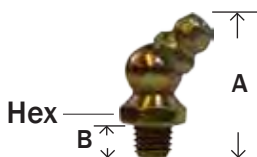


## EXTRA LONG BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36144	1/4"-28 Taper Thread	0.92	0.60	0.312	0.02

#680 1680 2400 5014

## 1/4-28 TAPER THREAD

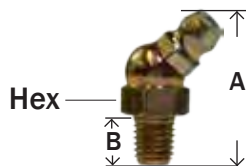


## SHORT 45° BALL CHECK

PART #	SIZE	AN- GLE	A	B	HEX	APPROX. WT. LBS.
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

#637 1637 2445 1665 2465 3010 5210

## 1/4-28 TAPER THREAD

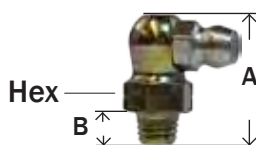


## LONG 45° BALL CHECK

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36148	1/4"-28 Taper Thread	0.94	0.30	0.375	0.02

#636 1630 2445

## 1/4-28 TAPER THREAD



## 90° ANGLE BALL CHECK

SAE# A515002

PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
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
36152	Thread Forming	0.75	0.16	0.375	0.02

#911 1911 2490 3054 5410

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# STEEL GREASE FITTINGS

## BRASS FITTINGS

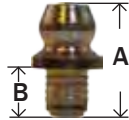
### DRIVE TYPE BALL CHECK Drive Type



PART #	SIZE	A	B	APPROX. WT. LBS.
36160	5/16"	0.55	0.25	0.01

#608 1608 5021

### DRIVE TYPE BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.
36164	3/16"	0.52	0.25	0.01
36164SS	303 SS	0.51	0.25	0.01

#728 1728 2316 5033

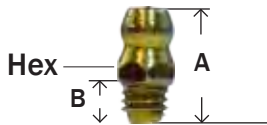
### DRIVE TYPE BALL CHECK



PART #	SIZE	A	B	APPROX. WT. LBS.
36166	1/4"	0.55	0.23	0.01
36166SS	303 SS	0.55	0.23	0.01

#743 1743 214 5029

### METRIC

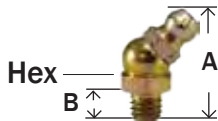


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36168	6MM x 1	16	3.7	7	0.01

( Diameter x Pitch )

#711 6000 2106 2M6 5175

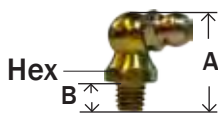
### METRIC 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36170	6MM x 1	21	3.7	9	0.02

#712 6045 2107 5176

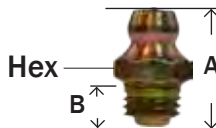
### METRIC 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36172	6MM x 1	18	3.7	9	0.02

#713 6090 2108 ZM906 5177

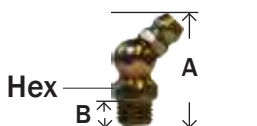
### METRIC



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36174	8MM x 1	16	3.7	9	0.02

#811 8000 2103 ZM58 5178

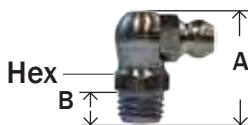
### METRIC 45° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36176	8MM x 1	21	3.7	9	0.02

#812 8045 2104 ZM458 5179

### METRIC 90° ANGLE



PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36178	8MM x 1	18	3.7	9	0.02

#813 8090 2105 ZM908 5180

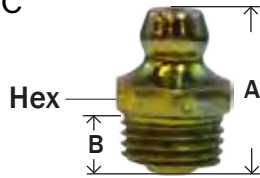
WARNING: This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

BRASS

**STEEL GREASE FITTINGS**

## BRASS FITTINGS

## METRIC

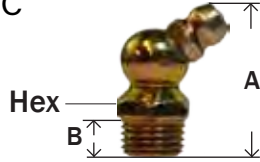


PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36180	10MM x 1	16	3.7	11	0.02

• DIAMETER X PITCH (EXTRA FINE)

#911 9000 2109 ZM510 5181

## METRIC

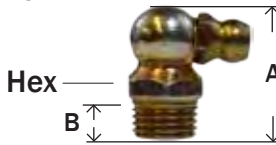


## 45° ANGLE

PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36182	10MM x 1	21	3.7	11	0.02

#912 9045 2110 ZM4510

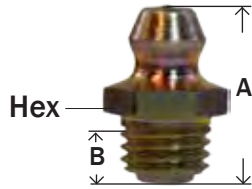
## METRIC



## 90° ANGLE

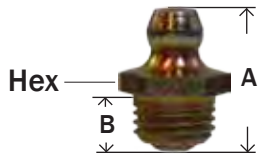
PART #	SIZE	A (MM)	B (MM)	HEX (MM)	APPROX. WT. LBS.
36184	10MM x 1	18	3.7	11	0.02

#913 9090 2111 ZM9010 5183



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
36186	5/16"-24	0.65	0.12	0.375	0.02

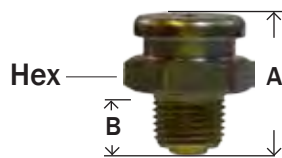
#711-B 1711 2500



PART #	SIZE	A	B	HEX	APPROX. WT. LBS.
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.
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

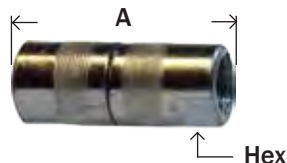
1184 1186

**WHIP HOSE - EXCEEDS SAE 100R1-AT - USE WITH HAND GREASE GUNS ONLY  
10,000 PSI BURST PRESSURE RUB-**1/8" NPT SOLID  
3/16" ID**3,000 PSI WORKING PRESSURE**

PART #	LENGTH
36210	12" RUBBER
36212	18" RUBBER
36214	24" RUBBER
36216	36" RUBBER

**4 JAW GREASE GUN COUPLER**

PROVIDES QUICK, POSITIVE, LEAKPROOF CONNECTION W/ GREASE



1/8" NPTF

PART #	A	HEX	APPROX. WT. LBS.
36220	1.50	0.56	0.05

# STEEL GREASE FITTINGS

BRASS FITTINGS

## ADAPTERS FOR GREASE FITTINGS

ADAPTERS

• CARBON STEEL, ZINC COATED



PART #	FEMALE	MALE	L	H	WEIGHT
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



PART #	FEMALE ENGLISH TO MALE ENGLISH	L	H	WEIGHT	
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	
36307	1/4"-28 UNF	1/4"-28 SAE-LT	1.34	-	0.01
36308	1/8"-27 NPTF	1/8"-27 NPTF	.75	1/2	0.02
36309*	1/8"-27 NPTF	1/8"-27 NPTF	.82	1/2	0.02
36310	1/8"-27 NPTF	1/8"-27 NPTF	.94	9/16	0.04
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
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
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
36373	1/8"-27 PTF SPL Extra Short	1/8"-27 PTF SPL Extra Short	.82	1/2	0.03

COUPLING



PART #	FEMALE	FEMALE	L	H	WEIGHT
36340	1/4"-28 UNF	1/8"-27 NPTF	.65	1/2	0.02

BULKHEAD CONNECTOR



PART #	FEMALE	MALE (FEMALE)	L	H	WEIGHT
36350	1/8"-27 NPTF	1/8"-27 NPSM (1/4"-28 UNF)	.88	1/2	0.03

**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](http://www.P65Warnings.ca.gov)

BRASS

**SPECIALTY VALVES**

BRASS FITTINGS

**SPECIALTY VALVES AND COCKS**

DRAIN COCKS



AIR VALVES



3, 4 AND 6 WAY



NEEDLE



MARINE &amp; ANTI-SIPHON



PANEL MOUNT BALL VALVES



TRUCK



MINI BALL



SOLID BOTTOM SHUT-OFF



CHECK



SPRING BOTTOM SHUT-OFF

MORE VALVES ON OUR WEBSITE  
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](http://www.P65Warnings.ca.gov)

# DRAIN COCKS

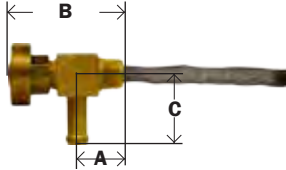
## BRASS FITTINGS

### 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

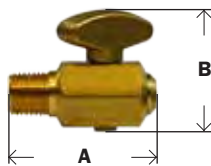
### GASOLINE SHUT OFF W/ SCREEN FILTER



PART #	BARB X MALE PIPE	A	B	C	APPROX. WT. LBS.
46064	1/4" x 1/8"	0.55	1.34	0.66	0.06

827

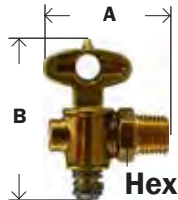
### DRAIN COCK 150 PSI - TRUNK AIR TANK



PART #	MALE PIPE	A	B	APPROX. WT. LBS.
46066	1/4"	1.73	1.41	0.22

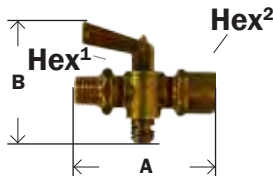
DCR601-4

### TRUCK DRAIN - 125 P.S.I.G



PART #	MALE PIPE	INDUSTRY NUMBER	A	B	HEX	APPROX. WT. LBS.
46067	1/8"		1.53	1.95	0.62	0.14

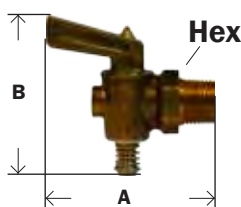
### SHUT OFF - 150 P.S.I MAX.



PART #	MALE PIPE X FEMALE PIPE	INDUSTRY NUMBER	A	B	HEX 1	HEX 2	APPROX. WT. LBS.
46069	1/4"	W20332	1.96	1.96	0.75	0.62	0.20

#60HC 3380-A 0903610 367

### LEVER HANDLE



PART #	MALE PIPE	INDUSTRY NUMBER	A	B	HEX	APPROX. WT. LBS.
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

- 30 psi

\*Valve is closed when handle is in the position of the picture

840 41D DC601

### AIR TANK DRAIN PULL VALVE



PART #	SIZE	DESCRIPTION
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

**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](http://www.P65Warnings.ca.gov)

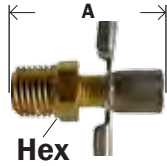
BRASS



**DRAIN COCKS**

## BRASS FITTINGS

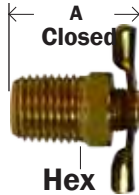
## INTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.
46079	1/8"	6783	1.45	0.55	0.02

DC602 808 400A 1800A

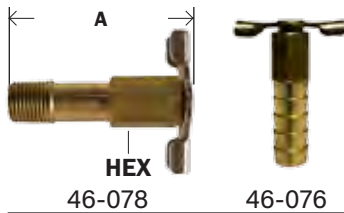
## INTERNAL SEAT - WING NUT HANDLE



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.
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



PART #	SIZE	IND #	A	HEX	APPROX. WT. LBS.
46078	1/8 MIP	1.85			
46076	3/8" Hose I.D.		1.65	0.43	0.02

809

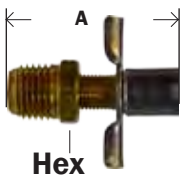
## PIN HANDLE - INTERNAL SEAT



PART #	MALE PIPE	INDUSTRY NUMBER	A	HEX	APPROX. WT. LBS.
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.
46084*	1/4"	6788	1.56	0.56	0.02

\* Replaces GM # 511771 &amp; Chrysler #836015

200A 239 DC606 807

## BIBB VALVE



PART #	MALE PIPE	INDUSTRY NUMBER	A	B*	C	APPROX. WT. LBS.
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.
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

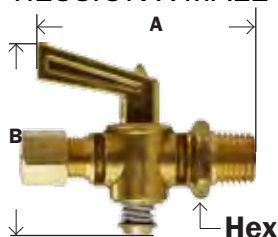
320D 240 DC604 801

# SHUT-OFF COCKS

## BRASS FITTINGS

- Designed for working pressure of 30 PSI.
- Forged brass bodies and brass handles.
- Instantaneous off-on operation with 360° rotation.
- Not good for gasoline.

### COMPRESSION X MALE PIPE

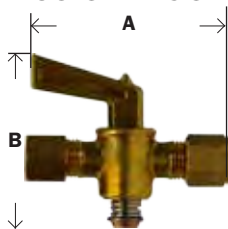


PART #	COMP X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.
46130	1/4" x 1/8"	27-C	1.87	1.81	0.51	0.14
46131	1/4" x 1/4"	227-C	2.05	1.86	0.62	0.15
46132	5/16" x 1/8"	29-C	2.05	1.90	0.50	0.16
46134	3/8" x 1/4"	57-C	2.05	1.83	0.62	0.15

868 V304C 2068 133C VC206

### COMPRESSION X COMPRESSION

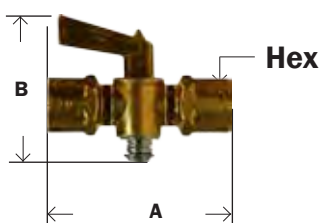
\* See pg. 73-74 to order nut and sleeve separately.



PART #	COMP X COMP	IND. #	A	B	APPROX. WT. LBS.
46140	1/4"	28-C	1.82	1.84	0.12
46141	5/16"	30-C	1.84	1.88	0.14
46142	3/8"	58-C	1.87	1.80	0.14
46143	1/2"	68-C	2.21	2.32	0.22

V3030F 2062 134C

### FEMALE X FEMALE PIPE

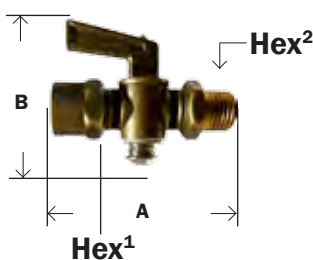


PART #	FEMALE PIPE X FEMALE PIPE	A	B	HEX	APPROX. WT. LBS.
46151	1/8"	1.77	1.79	0.56	0.12
46152	1/4"	2.28	1.82	0.69	0.20
46152T*	1/4"	2.28	2.00	0.68	0.20
46153	3/8"	2.44	2.28	0.81	0.30

\* 150 PSI

V403P 132C 875

### MALE PIPE X FEMALE

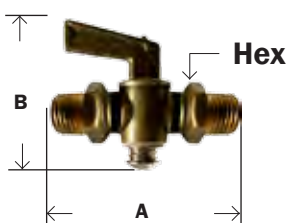


PART #	MALE PIPE X FEMALE PIPE	IND. #	A	B	HEX 1	HEX 2	APPROX. WT. LBS.
46160	1/8"	48-P	2.03	1.84	0.50	0.56	0.14
46161	1/4"	49-P	2.26	1.79	0.69	0.69	0.18
46161T*	1/4"		2.26	1.98	0.69	0.69	0.20
46162	3/8"	50-P	2.33	2.28	0.82	0.82	0.28

\* 150 PSI

880 V402P 130C

### MALE PIPE X MALE PIPE



PART #	MALE PIPE X MALE PIPE	IND. #	A	B	HEX	APPROX. WT. LBS.
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
46166T*	1/4"		2.23	2.00	0.68	0.18
46167	3/8"	78-P	2.43	2.24	0.82	0.22

\* 150 PSI

1V401P 890

• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR BRASS AIR COCKS & FLARE SHUTOFF COCKS

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](http://www.P65Warnings.ca.gov)

BRASS

**NEEDLE VALVES**

## BRASS FITTINGS

**NEEDLE VALVES**

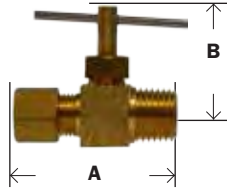
THESE ARE NOT LEAD FREE SEE PAGES 169 FOR LEAD FREE PRODUCTS

Made with either pin handle or pressed on handle.

Please specify if you have a preference.

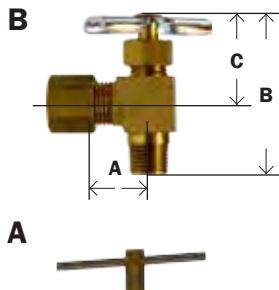
- Used on instrumentation, hydraulic, and pneumatic systems.
- Designed for a maximum working pressure of 150 PSI. or

- Provided with steel handles and metal-to-seats with fine-thread screwdown.
- Not designed for natural gas, LPG, nuclear aircraft applications.
- Always install with pressure against the seat.

**COMP X MALE PIPE**

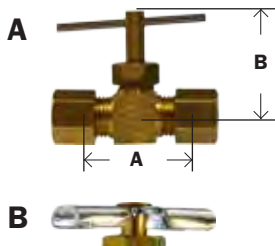
PART #	COMP X MALE PIPE	IND. #	A	B	APPROX. WT. LBS.
46002	1/4" x 1/8"	M-101-C	1.29	1.12	0.07
46003	1/4" x 1/4"	M-101-C	1.27	1.14	0.10

NV106C 2205 820 3068

**COMP X MALE PIPE-ANGLE**

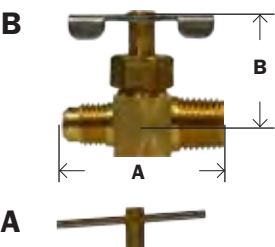
PART #	COMP X MALE PIPE	HAN-DLE	IND. #	A	B	C	APPROX. WT. LBS.
46011	1/4" x 1/8"	A	M-103-C	0.56	1.48	0.93	0.08
46011X	Heavy Pat-tern	B	M-103-C	0.53	1.53	0.83	0.08
46012	1/4" x 1/4"	B	M-104-C	0.62	1.67	0.90	0.13
46013	5/16" x 1/8"	B	M-104-C	0.63	1.63	0.95	0.10

NV104C 2203 821 3069

**COMP X COMP**

PART #	COMP X COMP	HAN-DLE	IND. #	A	B	APPROX. WT. LBS.
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
46022	5/16"	A	M-107-C	1.22	1.08	0.12
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	AP-PROX. WT. LBS.
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
46031	3/8" x 1/4"	B	M-108-SAE	1.73	1.22	0.18

NV103F 2405 823 3048



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

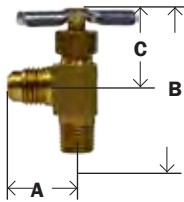
**WARNING:** This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



# NEEDLE VALVES

## BRASS FITTINGS

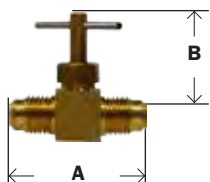
### FLARE X MALE PIPE



PART #	MALE FLARE X MALE PIPE	IND. #	A	B	C	APPROX. WT. LBS.
46036	1/4" x 1/8"	M-103-SAE	0.68	1.54	0.86	0.08
46038	5/16" x 1/8"	M-203-SAE	0.88	1.59	0.94	0.11
46039	5/16" x 1/4"	M-204-SAE	0.90	1.94	1.00	0.14
46040	3/8" x 1/4"	M-303-SAE	0.95	1.86	0.90	0.17

NV101F 2403 824 3049

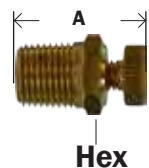
### FLARE X FLARE



PART #	MALE FLARE X MALE FLARE	IND. #	A	B	APPROX. WT. LBS.
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

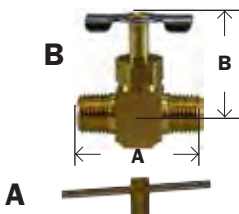
### MULTI-PURPOSE AIR VENT



PART #	MALE PIPE	A	HEX	APPROX. WT. LBS.
46048	1/8"	0.78	0.43	0.02

705

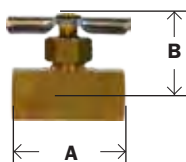
### MALE PIPE TO MALE PIPE



PART #	MALE PIPE X MALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.
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

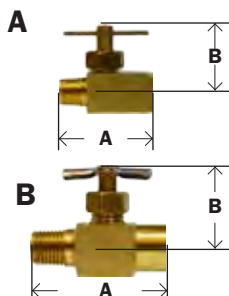


PART #	FEMALE PIPE X FEMALE PIPE	IND. #	A	B	APPROX. WT. LBS.
46055*	1/8"	M-304-P	1.18	0.84	0.18
46056	1/4"	M-3044-P	1.60	1.24	0.21
46056P*	1/4" Heavy	M-3044-P	1.62	2.53	0.20

\* Pressed on handle

6800 NV109P 2304 817 3103

### MALE X FEMALE PIPE



NBR seals -30°C to 120°C

PART #	MALE PIPE X FEMALE PIPE	HANDLE	IND. #	A	B	APPROX. WT. LBS.
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
46061L	1/4" Light Pattern	B	M-3055-P	1.88	1.09	0.21

NV108P 2305 818 3120

# 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
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
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
46475	1/2 x 1/2
46476	5/8 x 1/2

TV412



### MIP X FLARE

PART #	SIZE
46485	1/2 x 5/8

### SOLID BOTTOM VALVES

- Designed for instantaneous on-off operation.
- 360° rotation standard.
- 30 PSI
- Packed with grease.



8875

### O-RING SEALED MIP X FIP

PART #	SIZE
46400	1/8
46401	1/4
46402	3/8

1035D M-70-SBV

- Good for Propane



### #M-72-SBV FIP X FIP

PART #	SIZE
46411	1/4

### SOLID BOTTOM FUEL VALVES

- Approved for use on Motorcraft fuel lines.
- Pointer lever.
- 90° 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
46400M	1/8 x 1/8
46401M	1/4 x 1/4
46402M	3/8 x 3/8

8980



### PIPE MALE X MALE

PART #	SIZE
46406M	1/4 x 1/4

8990

- Good for Propane



### PIPE FEMALE X FEMALE

PART #	SIZE
46411M	1/4 x 1/4

8975



### MALE PIPE X FLARE

PART #	SIZE
46429M	1/4 x 3/8
46430M	3/8 x 3/8

8948

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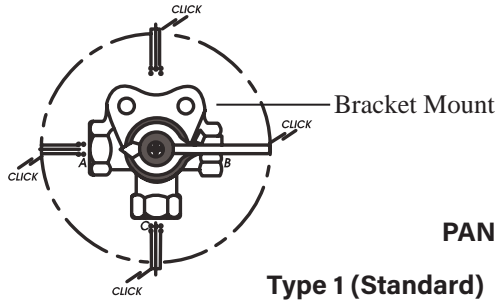
# SPECIALTY VALVES

## 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 40° to 180°F, 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**

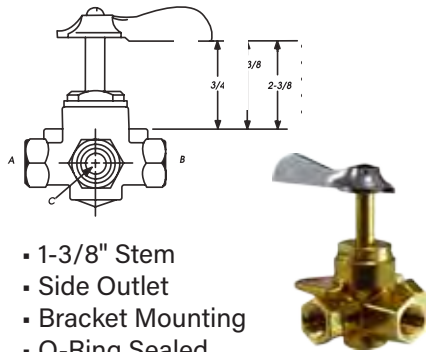


PANEL MOUNTING AVAILABLE

#### Type 1 (Standard)

A pronounced "click" may be felt at each position.

### THREE-WAY VALVES (Side 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
46247	1/4	1-3/8"
46248	3/8	1-3/8"

### M-108-MID WITH CLICK 360°

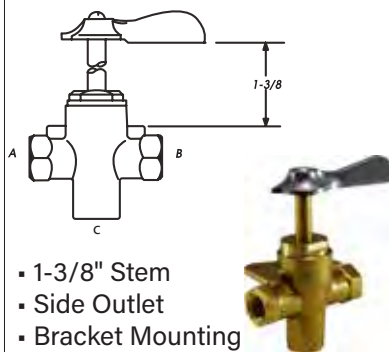
PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM
46250	1/8	1-3/8"
46251	1/4	1-3/8"
46252	3/8	1-3/8"

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"

### 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
46241	1/4	1-3/8"

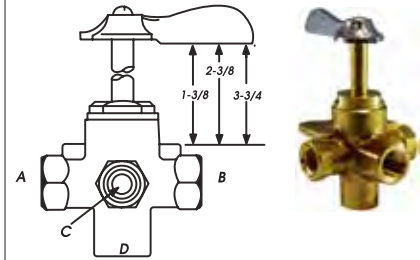
### WITH CLICK 360°

PART #	A-B-C FEMALE PIPE THREAD	LENGTH OF STEM
46243	1/8	1-3/8"
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

#### LESS CLICK

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM
46257	1/4	1-3/8"

### M-114-MID WITH CLICK (360°)

PART #	A-B-C-D FEMALE PIPE THREAD	LENGTH OF STEM
46255	1/4	1-3/8"
46256	3/8	1-3/8"

### WITH 2-3/8" LONG STEM M-115-MID

Part #	A-B-C-D Female Pipe Thread	Length of Stem
46260	1/4	2-3/8"

#### 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"

# MARINE FITTINGS

## BRASS FITTINGS

• Calibrated to support 30" column of gasoline.



**BRASS ANTI-SIPHON VALVES**

PART #	SIZE
46520	1/4 x 1/4
46521	3/8 x 3/8
46522	1/2 x 1/2

• Flo direction <-



**BRASS ANTI-SIPHON VALVES  
BARB X NPT**

PART #	SIZE
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
46986	5/6 x 1/4
46987	3/8 x 1/4
46988	3/8 x 3/8
46989	1/2 x 1/2



**ALUMINUM**

PART #	SIZE
46520A	1/4 x 1/4
46521A	3/8 x 3/8



**ALUMINUM**

PART #	SIZE
46530A	5/16 x 1/4
46531A	3/8 x 1/4
46532A	3/8 x 3/8
46533A	1/2 x 3/8

- NBR O-Ring
- Brass or Aluminum
- Working temp 180°F
- #316 Ball & Spring
- 3,000 PSI



**MALE MIP X FEMALE FIP BRASS**

PART #	SIZE
46523	1/4
46524	3/8



**ALUMINUM**

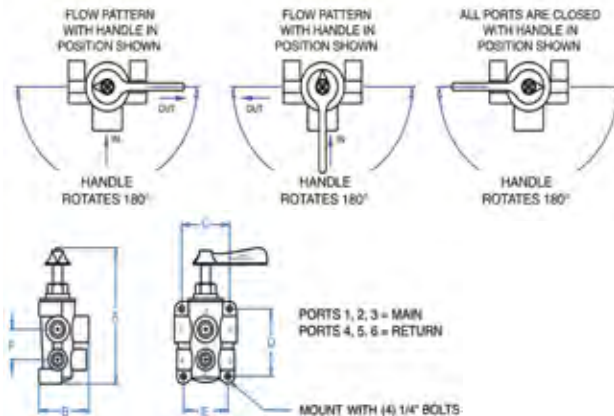
PART #	SIZE
46523A	1/4
46524A	3/8



**FLARE X MIP - BRASS**

PART #	SIZE
46526	3/8 x 1/4

## SIX PORT VALVES



Six port fuel valves are used where 2 tanks supply a single engine, and a return to each supply tank is required.

ABYC H33.9.2 states that fuel system valves must have an independent means of support, so in-line valves are not

PART #	IND. #	FEMALE PIPE THREAD OF	STEM	LENGTH TYPE
46237	SK-1036	1-2-3 4-5-6 1/2 x 3/8	13/16	1



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# 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



#### MALE X FEMALE

PART #	SIZE
46900	1/8 x 1/8
46903	1/4 x 1/4



#### MALE X MALE

PART #	SIZE
46910	1/8 x 1/8
46912	1/4 x 1/4



#### MALE PIPE X HOSE BARB

PART #	SIZE
47042	1/8 x 1/4
46980	1/4 x 1/4
46981	1/4 x 3/8

### FEMALE X FEMALE



PART #	SIZE
46920	1/8 x 1/8
46921	1/8 x 1/4
46922	1/4 x 1/4



PART #	SIZE
46922A	1/4 x 1/4
46923	3/8 x 3/8



PART #	SIZE
46924	1/2 x 1/2
46925	3/4 x 3/4

### U.L. TWO WAY VALVES

- Buna-N Seal, Teflon Seat Plated metal handle, plated brass ball.



#### U.L. TWO WAY VALVES

PART #	SIZE
46440	1/4 x 1/4



#### U.L. TWO WAY VALVES

PART #	SIZE
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

#### FEMALE X FEMALE



PART #	SIZE
46830	1/8 x 1/8
46832	1/4 x 1/4
46833	3/8 x 3/8
46834	1/2 x 1/2

#### FEMALE X FEMALE



PART #	SIZE
46875	1/8 x 1/8
46878	1/4 x 1/4



PART #	SIZE
46951	1/8 FPT
46956	1/4 FPT

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BRASS

**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 BUNA-N**

PART #	SIZE
46560	1/8"
46561	1/4"
46562	3/8"
46563	1/2"
46564	3/4"

**FIP X FIP VITON**

PART #	SIZE
46560V	1/8"
46561V	1/4"
46562V	3/8"
46563V	1/2"
46564V	3/4"

**FEMALE X MALE BUNA-N**

PART #	SIZE
46565	1/8"
46566	1/4"
46567	3/8"
46568	1/2"
46569	3/4"

**MALE X MALE**

PART #	SIZE
46570	1/8"
46571	1/4"
46572	3/8"
46573	1/2"

**MALE X FEMALE**

PART #	SIZE
46575	1/8"
46576	1/4"
46577	3/8"
46578	1/2"

**HIGH PRESSURE CHECK VALVES**

MAX. 2500 PSI  
Cracking Pressure 1 PSI

- Opening diameter .187
- 180° max operating temp.
- SS ball and spring

**MNPT X MNPT**

PART #	SIZE	OPEN-ING DIA.
46500	1/4 x 1/4	0.187

MAX. 2500 PSI

- Flo direction ->
- Opening diameter .187
- 180° max operating temp.
- Buna Seal
- SS ball and spring

**MNPT X FNPT**

PART #	SIZE	OPEN-ING DIA.
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	OPEN-ING DIA.
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

<b>Body</b>	Chrome plated Brass
<b>Spring</b>	Steel
<b>O-Ring</b>	NBR Rubber



NPT- Inlet NPSM - Outlet

PART #	SIZE	DIMENSIONS (IN.)	
		A	B
46-200	1/4	1.97	0.67
46-201	3/8	1.97	0.83
46-202	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
46513	1/4
46517	3/8

**FEMALE X MALE**

PART #	SIZE
46514	1/4
46518	3/8

**MALE X FEMALE**

PART #	SIZE
46516	1/4
46539	3/8

**MALE X MALE**

PART #	SIZE
46515	1/4
46519	3/8

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# LEAD FREE



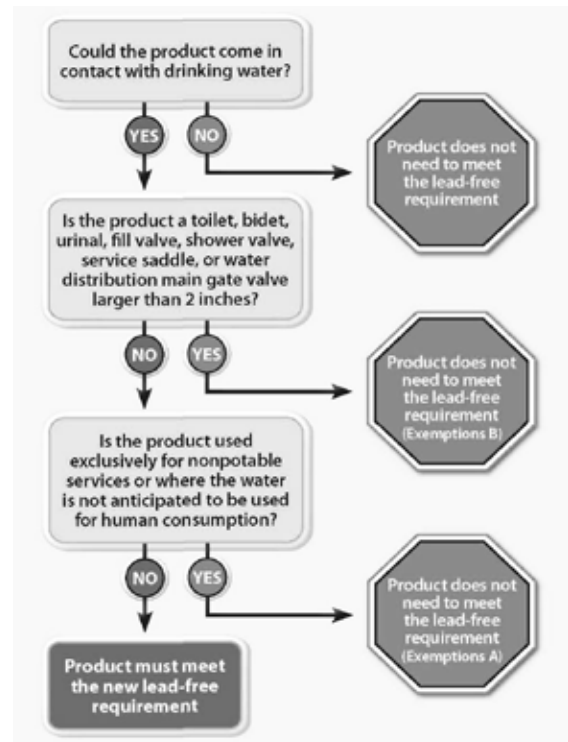
## What is the new lead-free requirement?

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.

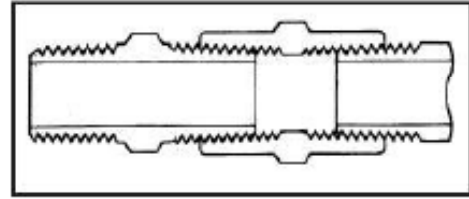
(B) The new requirement does not apply to toilets, bidets, urinals, fill valves, flushometer valves, tub fillers, shower valves, service saddles or water distribution main gate valves 2 inches in diameter or larger.



**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
28001LF	1/8"
28002LF	1/4"
28003LF	3/8"
28004LF	1/2"
28005LF	3/4"

**ELBOW 90° FORGED**



PART #	SIZE
28009LF	1/8"
28010LF	1/4"
28011LF	3/8"
28012LF	1/2"
28013LF	3/4"

**REDUCING ELBOW FORGED**



PART #	SIZE
28015LF	3/8" x 1/4"

**ELBOW 45°**



LF10045

PART #	SIZE
28018LF	1/8"
28019LF	1/4"

**TEE BARSTOCK**



LF101

PART #	SIZE
28024LF	1/8"
28025LF	1/4"
28026LF	3/8"
28027LF	1/2"
28028LF	3/4"

**TEE FORGED**



PART #	SIZE
28032LF	1/8"
28033LF	1/4"
28034LF	3/8"
28035LF	1/2"
28036LF	3/4"

**REDUCING TEE FORGED**



PART #	SIZE
28039LF	3/8"x3/8"x1/4"

**CROSS BARSTOCK**



LF102

PART #	SIZE
28041LF	1/8"
28042LF	1/4"
28043LF	3/8"
28044LF	1/2"
28045LF	3/4"

**COUPLING**



LF103

PART #	SIZE
28058LF	1/8"
28059LF	1/4"
28060LF	3/8"
28061LF	1/2"
28062LF	3/4"

**X-HEAVY COUPLING**



PART #	SIZE
28059EHLF	1/4"

**UNION**



LF104

PART #	SIZE
28067LF	1/8"
28068LF	1/4"
28069LF	3/8"
28070LF	1/2"
28071LF	3/4"

**CAP**



LF108

PART #	SIZE
28075LF	1/8"
28076LF	1/4"
28077LF	3/8"
28078LF	1/2"
28079LF	3/4"

**PLUG CORED SQUARE HEAD**



LF

PART #	SIZE
28084LF	1/8"
28085LF	1/4"
28086LF	3/8"
28087LF	1/2"
28088LF	3/4"

**PLUG SOLID SQUARE HEAD**



LF109SD

PART #	SIZE
28084SLF	1/8"
28085SLF	1/4"
28086SLF	3/8"
28087SLF	1/2"
28088SLF	3/4"

**COUNTERSUNK PLUG HEX**



LF109AL

PART #	SIZE
28093LF	1/8"
28094LF	1/4"
28095LF	3/8"
28096LF	1/2"
28097LF	3/4"

**PLUG CORED HEX HEAD**



LF121

PART #	SIZE
28201LF	1/8"
28202LF	1/4"
28203LF	3/8"
28204LF	1/2"
28205LF	3/4"

**PLUG SOLID HEX HEAD**



PART #	SIZE
28201SLF	1/8"
28202SLF	1/4"
28203SLF	3/8"
28204SLF	1/2"

**HEX BUSHING**



LF110

PART #	SIZE
28102LF	1/4" x 1/8"
28103LF	3/8" x 1/8"
28104LF	3/8" x 1/4"
28105LF	1/2" x 1/8"
28106LF	1/2" x 1/4"
28107LF	1/2" x 3/8"
28108LF	3/4" x 1/8"
28109LF	3/4" x 1/4"
28110LF	3/4" x 3/8"
28111LF	3/4" x 1/2"
28112LF	1" x 1/4"
28113LF	1" x 3/8"
28114LF	1" x 1/2"
28115LF	1" x 3/4"

**FACE BUSHING**



LF110F

PART #	SIZE
28121LF	1/4" x 1/8"
28116LF	3/8" x 1/4"
28117LF	1/2" x 3/8"
28118LF	3/4" x 1/2"

**LEAD FREE PIPE**

LEAD FREE BRASS FITTINGS

**CLOSE NIPPLE**



LF112

PART #	SIZE
28131LF	1/8"
28132LF	1/4"
28133LF	3/8"
28134LF	1/2"
28135LF	3/4"

**LONG NIPPLE**



LF113

PART #	SIZE
28140LF	1/8" x 1-1/2"
28141LF	1/8" x 2"
28142LF	1/8" x 2-1/2"
28143LF	1/8" x 3"
28144LF	1/4" x 1-1/2"
28145LF	1/4" x 2"
28146LF	1/4" x 2-1/2"
28147LF	1/4" x 3"
28148LF	3/8" x 1-1/2"
28149LF	3/8" x 2"

**HEX NIPPLE**



LF23325X

LF122

PART #	SIZE
28211LF	1/8"
28212LF	1/4"
28213LF	3/8"
28214LF	1/2"
28215LF	3/4"
28216LF	1"

**LONG HEX NIPPLE**



PART #	SIZE
28212EHLF	1/4"

**REDUCING HEX NIPPLE**



LF123

PART #	SIZE
28220LF	1/4" x 1/8"
28221LF	3/8" x 1/8"
28222LF	3/8" x 1/4"
28223LF	1/2" x 1/8"
28224LF	1/2" x 3/8"
28225LF	3/4" x 1/2"

**REDUCING COUPLING**



LF119

PART #	SIZE
28181LF	1/4" x 1/8"
28182LF	3/8" x 1/8"
28183LF	3/8" x 1/4"
28180LF	1/2" x 1/8"
28184LF	1/2" x 1/4"
28185LF	1/2" x 3/8"
28189LF	3/4" x 1/2"

**ADAPTER**



LF120

PART #	SIZE
28190LF	1/8" x 1/8"
28191LF	1/4" x 1/8"
28192LF	1/4" x 1/4"
28198LF	3/8" x 1/8"
28193LF	3/8" x 1/4"
28194LF	3/8" x 3/8"
28199LF	1/2" x 1/4"
28195LF	1/2" x 3/8"
28196LF	1/2" x 1/2"
28208LF	3/4" x 1/2"
28209LF	3/4" x 3/4"

\* Forged and Barstock shapes may be substituted for one another in Lead Free.

**SHORT BARSTOCK\* STREET ELBOW 90°**



PART #	SIZE
28156SLF	1/8"
28157SLF	1/4"
28158SLF	3/8"
28159SLF	1/2"
28160SLF	3/4"

**BARSTOCK\* ST ELBOW**



LF116

PART #	SIZE
28156LF	1/8"
28157LF	1/4"
28158LF	3/8"
28159LF	1/2"
28160LF	3/4"

**STREET ELBOW 90° FORGED\***



PART #	SIZE
28165LF	1/8"
28166LF	1/4"
28167LF	3/8"
28168LF	1/2"
28169LF	3/4"

**REDUCING STREET ELBOW FORGED\***



PART #	SIZE
28261LF	1/4" x 1/8"
28262LF	1/4" x 3/8"
28264LF	3/8" x 1/2"
28265LF	1/2" x 3/8"

**STREET ELBOW 45°**



LF124

PART #	SIZE
28230LF	1/8"
28231LF	1/4"
28232LF	3/8"
28233LF	1/2"
28234LF	3/4"

**STREET TEE BARSTOCK**



LF127

PART #	SIZE
28245LF	1/8"
28246LF	1/4"
28247LF	3/8"
28248LF	1/2"
28249LF	3/4"

**STREET TEE FORGED**



PART #	SIZE
28253LF	1/8"
28254LF	1/4"
28255LF	3/8"

**ELBOW BARSTOCK**



PART #	SIZE
28266BLF	1/8"
28267BLF	1/4"

**ELBOW FORGED**



PART #	SIZE
28266LF	1/8"
28267LF	1/4"
28268LF	3/8"
28269LF	1/2"

**REDUCING ELBOW**



PART #	SIZE
28273LF	1/4" x 1/8"
28272LF	3/8" x 1/8"
28275LF	3/8" x 1/4"
28276LF	1/2" x 3/8"

**TEE BARSTOCK**



LF131

PART #	SIZE
28281LF	1/8"
28282LF	1/4"
28283LF	3/8"
28284LF	1/2"

**TEE FORGED**



PART #	SIZE
28290LF	1/8"
28291LF	1/4"
28292LF	3/8"

**PUSH-ON**

**MALE ADAPTER**



PART #	HOSE I.D. X MALE NPTF
30200LF	1/4" x 1/8"
30201LF	1/4" x 1/4"
30203LF	3/8" x 1/4"
30204LF	3/8" x 3/8"
30206LF	1/2" x 3/8"
30207LF	1/2" x 1/2"

**SAE/JIC DUAL 45°/37° FEMALE SWIVEL**



PART #	HOSE I.D. X FEMALE 45°/37°
30230LF	1/4" x 1/4"



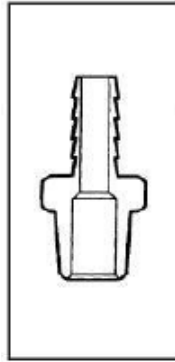
# LEAD FREE HOSE BARBS

LEAD FREE BRASS FITTINGS

LEAD FREE

## BRASS HOSE BARBS LEAD FREE

- One piece, except swivels (nut and stem)
- Used with plastic tubing or rubber hose
- -40° to 200° F. temperature range
- Intended for use with hose clamp or crimp type ferrule
- Barbed edges provide positive connection
- Excellent vibration resistance
- Barb size is hose I.D.



### RIGID MALE ADAPTER



LF29

PART #	HOSE I.D. X MALE NPTF
32001LF	1/8" x 1/8"
32027LF	1/8" x 1/4"
32002LF	3/16" x 1/8"
32003LF	3/16" x 1/4"
32004LF	1/4" x 1/8"
32005LF	1/4" x 1/4"
32006LF	1/4" x 3/8"
32007LF	1/4" x 1/2"
32954LF	1/4" x 3/4"
32008LF	5/16" x 1/8"
32009LF	5/16" x 1/4"
32010LF	5/16" x 3/8"
32011LF	3/8" x 1/8"
32012LF	3/8" x 1/4"
32013LF	3/8" x 3/8"
32014LF	3/8" x 1/2"
32026LF	3/8" x 3/4"
32015LF	1/2" x 1/4"
32016LF	1/2" x 3/8"
32017LF	1/2" x 1/2"
32018LF	1/2" x 3/4"
32019LF	5/8" x 3/8"
32020LF	5/8" x 1/2"
32021LF	5/8" x 3/4"
32306LF	3/4" x 3/8"
32022LF	3/4" x 1/2"
32023LF	3/4" x 3/4"
32024LF	1" x 3/4"
32025LF	1" x 1"

### FORGED HOSE BARB 90° ELBOW



LF29EBS

PART #	HOSE I.D. X MALE NPTF
32038LF	1/4" x 1/8"
32039LF	1/4" x 1/4"
32309LF	1/4" x 3/8"
32036LF	5/16" x 1/8"
32040LF	5/16" x 1/4"
32046LF	3/8" x 1/8"
32041LF	3/8" x 1/4"
32042LF	3/8" x 3/8"
32047LF	3/8" x 1/2"
32048LF	1/2" x 1/4"
32043LF	1/2" x 3/8"
32311LF	1/2" x 1/2"
32313LF	3/4" x 1/2"

### MENDER/ SPLICER



PART #	HOSE I.D. X HOSE I.D.
32091LF	1/8"
32092LF	3/16"
32093LF	1/4"
32094LF	5/16"
32095LF	3/8"
32096LF	1/2"
32097LF	5/8"
32098LF	3/4"

## RIGID FEMALE ADAPTER



LF29F

PART #	HOSE I.D. X FEMALE NPTF
32050LF	1/8" x 1/8"
32317LF	1/8" x 1/4"
32051LF	3/16" x 1/8"
32062LF	3/16" x 1/4"
32052LF	1/4" x 1/8"
32053LF	1/4" x 1/4"
32054LF	1/4" x 3/8"
32441LF	1/4" x 1/2"
32055LF	5/16" x 1/8"
32056LF	5/16" x 1/4"
32318LF	5/16" x 3/8"
32057LF	3/8" x 1/8"
32058LF	3/8" x 1/4"
32059LF	3/8" x 3/8"
32063LF	3/8" x 1/2"
32064LF	1/2" x 1/4"
32060LF	1/2" x 3/8"
32061LF	1/2" x 1/2"
32065LF	3/4" x 3/4"

### HOSE BARB TEES



PART #	HOSE BARB SIZE
32365LF	1/4"
32366LF	5/16"
32126LF	3/8"

### FEMALE 45° FLARE SWIVEL



PART #	HOSE I.D. X HOSE I.D.
32101LF	1/4" x 1/4"
32105LF	3/8" x 3/8"
32100LF	1/2" x 1/2"

### LEAD FREE MINI BALL VALVES BARB X BARB

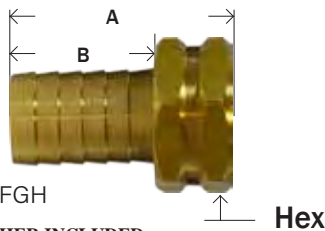


PART #	H.B. X H.B.
944142LF	1/4"
944134LF	3/8"



**BARSTOCK BRASS GARDEN HOSE COUPLINGS**

**FEMALE SWIVEL ONLY**

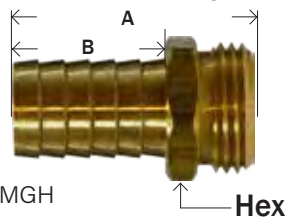


LF29FGH

• WASHER INCLUDED

PART #	HOSE BARB X FGH
30031LF	3/8" x 3/4"
30032LF	1/2" x 3/4"
30033LF	5/8" x 3/4"

**MALE END ONLY**



LF29MGH

PART #	HOSE BARB X MGH
30039LF	3/8" x 3/4"
30040LF	1/2" x 3/4"
30041LF	5/8" x 3/4"
30042LF	3/4" x 3/4"

**GARDEN HOSE COUPLING**



• WASHER INCLUDED

PART #	HOSE BARB
30025LF	3/8"
30027LF	1/2"
30028LF	5/8"
30029LF	3/4"

**SWIVEL - FGH X FGH**



LFS3

• WASHER INCLUDED

PART #	FGH X FGH
30011LF	3/4" x 3/4"
30012LF	no swivel

**SWIVEL - FGH X FEMALE PIPE**



LFS1  
LFS2

• WASHER INCLUDED

PART #	FGH X FEMALE NPTF
30001LF	3/4" x 1/2"
30006LF	3/4" x 3/4"

**RIGID - FGH X FEMALE PIPE**



• WASHER INCLUDED

PART #	FGH X FEMALE NPTF
30016LF	3/4" x 1/8"
30078LF	3/4" x 1/2"
30083LF	3/4" x 3/4"

**SWIVEL - FGH X MALE PIPE**



• WASHER INCLUDED

PART #	FGH X MALE NPTF
30047LF	3/4" x 1/4"
30048LF	3/4" x 3/8"
30049LF	3/4" x 1/2"

**RIGID - FGH X MALE PIPE**



• WASHER INCLUDED

PART #	FGH X FEMALE NPTF
30088LF	3/4" x 1/2" (1/2" SWT)

**RIGID - MGH X MGH**



LF85GHT

PART #	MGH X MGH
30098LF	3/4" x 3/4" (1/2" FIP)

**RIGID - MGH X FEMALE PIPE**



LF110GH-124

PART #	MGH X FEMALE NPTF
30066LF	3/4" x 1/4"
30067LF	3/4" x 3/8"
30068LF	3/4" x 1/2"
30073LF	3/4" x 3/4"

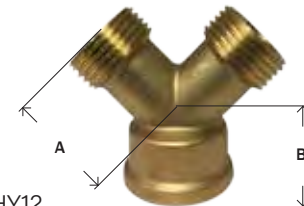
**RIGID - MGH X MALE PIPE**



LF68GH1216

PART #	MGH X MALE NPTF
30052LF	3/4" x 1/4"
30053LF	3/4" x 3/8"
30058LF	3/4" x 1/2"
30058SLF	3/4" x 1/2" (1/2" SWT)
30063LF	3/4" x 3/4" x 1/2"

**CAST BRASS HOSE - "Y" CONNECTOR**



LFHY12

PART #	SIZE FGH X MGH(2)
30140LF	3/4"

**GARDEN HOSE CAP**



LFHC-12W

PART #	SIZE
30103LF	3/4" Die Cast

**GARDEN HOSE NUT**



PART #	SIZE
30021LF	Knurled
30022LF	Hex Nut

**LEAD FREE FLARE**  
LEAD FREE BRASS FITTINGS

**45° s.a.e. 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
10013LF	1/8"
10014LF	3/16"
10015LF	1/4"
10016LF	5/16"
10017LF	3/8"
10018LF	7/16"
10019LF	1/2"
10020LF	5/8"
10021LF	3/4"

**SHORT FORGED NUT**



PART #	THREAD SIZE UNF
10039LF	1/4"
10041LF	3/8"
10052LF	3/8" x 1/4"
10042LF	1/2"
10054LF	1/2" x 3/8"
10043LF	5/8"
10056LF	5/8" x 1/2"
10044LF	3/4"

**UNION**



LF242

PART #	THREAD SIZE UNF
10104LF	1/8"
10105LF	3/16"
10106LF	1/4"
10107LF	5/16"
10108LF	3/8"
10118LF	3/8" x 1/4"
10109LF	1/2"
10120LF	1/2" x 1/4"
10121LF	1/2" x 3/8"
10110LF	5/8"
10122LF	5/8" x 3/8"
10123LF	5/8" x 1/2"
10111LF	3/4"

**CAP**



LF40

PART #	THREAD SIZE UNF
10075LF	1/4"
10076LF	5/16"
10077LF	3/8"
10078LF	1/2"
10079LF	5/8"
10080LF	3/4"

**UNION TEE**



PART #	SIZE (1 X 2 X 3)
10157LF	1/8"
10158LF	3/16"
10159LF	1/4"
10160LF	5/16"
10161LF	3/8"
10162LF	1/2"
10163LF	5/8"

**REDUCING UNION TEE**

PART #	SIZE (1 X 2 X 3)
10174LF	3/8" x 3/8" x 1/4"
10175LF	3/8" x 3/8" x 1/2"
10181LF	1/2" x 1/2" x 3/8"
10182LF	1/2" x 1/2" x 5/8"
10189LF	5/8" x 5/8" x 1/2"

**PLUG**



LF39

PART #	THREAD SIZE UNF
10064LF	1/4"
10066LF	3/8"
10067LF	1/2"
10068LF	5/8"

**FEMALE ADAPTER**



LF46

PART #	MALE FLARE X FEMALE NPTF
10227LF	3/16" x 1/8"
10228LF	1/4" x 1/8"
10229LF	1/4" x 1/4"
10230LF	1/4" x 3/8"
10231LF	1/4" x 1/2"
10232LF	5/16" x 1/8"
10233LF	5/16" x 1/4"
10234LF	3/8" x 1/8"
10235LF	3/8" x 1/4"
10236LF	3/8" x 3/8"
10237LF	3/8" x 1/2"
10238LF	3/8" x 3/4"
10239LF	1/2" x 1/4"
10240LF	1/2" x 3/8"
10241LF	1/2" x 1/2"
10242LF	1/2" x 3/4"
10243LF	5/8" x 3/8"
10244LF	5/8" x 1/2"
10245LF	5/8" x 3/4"
10247LF	3/4" x 3/4"

**MALE BRANCH TEE**



PART #	SIZE
10204LF	1/4" x 1/8"
10205LF	1/4" x 1/4"
10206LF	1/4" x 3/8"
10210LF	3/8" x 1/4"
10211LF	3/8" x 3/8"
10212LF	3/8" x 1/2"
10214LF	1/2" x 3/8"
10215LF	1/2" x 1/2"
10218LF	5/8" x 1/2"

**FORGED SWIVEL**



LF700

PART #	FEMALE FLARE UNF
10481LF	1/4"
10482LF	5/16"
10483LF	3/8"
10484LF	1/2"
10485LF	5/8"
10487LF	3/8" x 1/4"
10488LF	1/2" x 3/8"

**MALE ADAPTER**



LF48  
LF248

PART #	MALE FLARE X MALE NPTF
10253LF	1/8" x 1/8"
10254LF	3/16" x 1/8"
10252LF	3/16" x 1/4"
10255LF	1/4" x 1/8"
10256LF	1/4" x 1/4"
10256EHLF	1/4" x 1/4"
10257LF	1/4" x 3/8"
10258LF	1/4" x 1/2"
10259LF	5/16" x 1/8"
10260LF	5/16" x 1/4"
10261LF	5/16" x 3/8"
10251LF	5/16" x 1/2"
10262LF	3/8" x 1/8"
10263LF	3/8" x 1/4"
10264LF	3/8" x 3/8"
10265LF	3/8" x 1/2"
10266LF	3/8" x 3/4"
10267LF	1/2" x 1/4"
10268LF	1/2" x 3/8"
10269LF	1/2" x 1/2"
10270LF	1/2" x 3/4"
10272LF	5/8" x 3/8"
10273LF	5/8" x 1/2"
10274LF	5/8" x 3/4"
10275LF	3/4" x 1/2"
10276LF	3/4" x 3/4"
10278LF	7/8" x 3/4"

**UNION ELBOW**



BS  
LF255B

PART #	FLARE X FLARE
10406LF	1/4"
10407LF	3/8"
10409LF	1/2"
10419LF	1/2" x 3/8"

**FLARE X FIP TEE**



PART #	FLARE X FLARE X FE PIPE
10434LF	1/2" x 1/2" x 1/2"

**90° MALE ELBOW**



LF249B  
BS

**FORGED ELBOW**

PART #	FLARE X MALE PIPE
10284LF	3/16" x 1/8"
10286LF	1/4" x 1/8"
10287LF	1/4" x 1/4"
10288LF	1/4" x 3/8"
10289LF	1/4" x 1/2"
10290LF	5/16" x 1/8"
10291LF	5/16" x 1/4"
10293LF	3/8" x 1/8"
10294LF	3/8" x 1/4"
10295LF	3/8" x 3/8"
10296LF	3/8" x 1/2"
10297LF	3/8" x 3/4"
10298LF	1/2" x 1/4"
10299LF	1/2" x 3/8"
10300LF	1/2" x 1/2"
10301LF	1/2" x 3/4"
10302LF	5/8" x 3/8"
10303LF	5/8" x 1/2"
10304LF	5/8" x 3/4"
10305LF	3/4" x 1/2"
10306LF	3/4" x 3/4"

**FEMALE ELBOW**



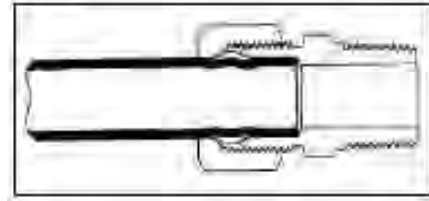
PART #	FLARE X FEMALE PIPE
10313LF	1/4" x 1/8"
10314LF	1/4" x 1/4"
10319LF	3/8" x 1/4"
10320LF	3/8" x 3/8"
10321LF	3/8" x 1/2"
10322LF	3/8" x 3/4"
10324LF	1/2" x 3/8"
10325LF	1/2" x 1/2"
10326LF	1/2" x 3/4"
10328LF	5/8" x 1/2"
10329LF	5/8" x 3/4"
10331LF	3/4" x 3/4"

**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
18001LF	1/8"
18002LF	3/16"
18003LF	1/4"
18004LF	5/16"
18005LF	3/8"
18006LF	7/16"
18007LF	1/2"
18008LF	5/8"
18009LF	3/4"
18010LF	7/8"

60 260

**BRASS NUT**



LF261

PART #	SIZE
18033LF	1/8"
18034LF	3/16"
18035LF	1/4"
18036LF	5/16"
18037LF	3/8"
18038LF	7/16"
18039LF	1/2"
18040LF	5/8"
18041LF	3/4"
18042LF	7/8"

**BRASS NUT W/  
CAPTIVE SLEEVE**



LF611X6

PART #	SIZE
26001LF	1/8"
26002LF	3/16"
26003LF	1/4"
26004LF	5/16"
26005LF	3/8"
26007LF	1/2"
26008LF	5/8"
26015LF	3/4"
26016LF	7/8"

**DELTRIN SLEEVE**



PART #	SIZE
18015	1/4"
18016	5/16"
18017	3/8"
18018	1/2"

60-P

**BRASS INSERT**



• **SLEEVE**

PART #	SIZE
22008LF	1/8"
22009LF	3/16"
22010LF	1/4"
22011LF	5/16"
22012LF	3/8"
22013LF	1/2"

**CAP**



PART #	SIZE
18047LF	1/4"
18046LF	5/16
18048LF	3/8"
18049LF	1/2"
18050LF	5/8"

61-CC N5CT

**UNION**



LF262

PART #	SIZE
18062LF	1/8"
18063LF	3/16"
18064LF	1/4"
18065LF	5/16"
18066LF	3/8"
18067LF	7/16"
18068LF	1/2"
18069LF	5/8"
18070LF	3/4"
18071LF	7/8"

M-62

**REDUCING UNION**



LF62R

PART #	SIZE
18076LF	1/4" x 1/8"
18077LF	1/4" x 3/16"
18078LF	5/16" x 1/4"
18079LF	3/8" x 1/4"
18080LF	3/8" x 5/16"
18081LF	1/2" x 3/8"
18082LF	5/8" x 3/8"
18083LF	5/8" x 1/2"

62-R

**TANK UNION**



LF62T

• DRILLED THROUGH

PART #	SIZE
18066DLF	3/8"
18068DLF	1/2"
18069DLF	5/8"
18071DLF	7/8"

**TEE**



LF264B

PART #	SIZE
18101LF	1/8"
18102LF	3/16"
18103LF	1/4"
18104LF	5/16"
18105LF	3/8"
18106LF	1/2"
18107LF	5/8"
18109LF	7/8"

**REDUCING TEE**



LF264B

PART #	SIZE (1 X 2 X 3)
18114LF	1/4" x 1/4" x 1/8"
18110LF	1/4" x 1/4" x 3/8"

64-R

**ELBOW**



LF265

PART #	SIZE
18122LF	1/8"
18123LF	3/16"
18124LF	1/4"
18125LF	5/16"
18126LF	3/8"
18127LF	1/2"
18128LF	5/8"
18129LF	3/4"
18130LF	7/8"
18135LF	3/8" x 1/4"
18136LF	1/2" x 3/8"
18137LF	5/8" x 3/8"

65 BSE2 165C 265C

**FEMALE COUPLING**



LF66  
LF266

PART #	COMP. X FE-MALE NPT
18142LF	1/8" x 1/8"
18143LF	3/16" x 1/8"
18144LF	3/16" x 1/4"
18145LF	1/4" x 1/8"
18146LF	1/4" x 1/4"
18147LF	1/4" x 3/8"
18148LF	1/4" x 1/2"
18149LF	5/16" x 1/8"
18150LF	5/16" x 1/4"
18151LF	5/16" x 3/8"
18152LF	3/8" x 1/8"
18153LF	3/8" x 1/4"
18154LF	3/8" x 3/8"
18155LF	3/8" x 1/2"
18156LF	3/8" x 3/4"
18157LF	1/2" x 1/4"
18158LF	1/2" x 3/8"
18159LF	1/2" x 1/2"
18160LF	1/2" x 3/4"
18161LF	5/8" x 3/8"
18162LF	5/8" x 1/2"
18163LF	5/8" x 3/4"
18164LF	3/4" x 1/2"
18165LF	3/4" x 3/4"
18167LF	7/8" x 1/2"

66

**TANK COUPLING**



• DRILLED THROUGH

COMP X FIP

PART #	SIZE
18154DLF	3/8" x 3/8"
18155DLF	3/8" x 1/2"
18158DLF	1/2" x 3/8"
18159DLF	1/2" x 1/2"
18162DLF	5/8" x 1/2"

**COMP X SWEAT ADAPTER**



PART #	SIZE
18171LF	3/8" x 1/2" nom.swt.



**LEAD FREE COMPRESSION**

LEAD FREE BRASS FITTINGS

**MALE ADAPTER**



LF68

**COMP X MIP**

PART #	SIZE
18176LF	1/8" x 1/8"
18177LF	3/16" x 1/8"
18178LF	3/16" x 1/4"
18179LF	1/4" x 1/8"
18180LF	1/4" x 1/4"
18181LF	1/4" x 3/8"
18182LF	1/4" x 1/2"
18183LF	5/16" x 1/8"
18184LF	5/16" x 1/4"
18185LF	5/16" x 3/8"
18186LF	5/16" x 1/2"
18187LF	3/8" x 1/8"
18188LF	3/8" x 1/4"
18189LF	3/8" x 3/8"
18190LF	3/8" x 1/2"
18191LF	3/8" x 3/4"
18192LF	7/16" x 1/4"
18204LF	7/16" x 3/8"
18193LF	1/2" x 1/4"
18194LF	1/2" x 3/8"
18195LF	1/2" x 1/2"
18196LF	1/2" x 3/4"
18197LF	5/8" x 3/8"
18198LF	5/8" x 1/2"
18199LF	5/8" x 3/4"
18200LF	3/4" x 1/2"
18201LF	3/4" x 3/4"
18202LF	7/8" x 1/2"
18203LF	7/8" x 3/4"
18205LF	7/8" x 1"

THE MAN WHO HAS NO INNER-LIFE IS A SLAVE TO HIS SURROUNDINGS.

- HENRI FREDERIC AMIEL

**ELBOW**



LF269B  
LF69F

**COMP X MIP**

PART #	SIZE
18220LF	1/8" x 1/8"
18221LF	3/16" x 1/8"
18223LF	3/16" x 1/4"
18224LF	1/4" x 1/8"
18225LF	1/4" x 1/4"
18226LF	1/4" X 3/8"
18227LF	1/4" x 1/2"
18228LF	5/16" x 1/8"
18229LF	5/16" x 1/4"
18230LF	5/16" x 3/8"
18232LF	3/8" x 1/8"
18233LF	3/8" x 1/4"
18234LF	3/8" x 3/8"
18235LF	3/8" x 1/2"
18248LF	3/8" x 3/4"
18247LF	7/16" x 1/4"
18236LF	1/2" x 1/4"
18237LF	1/2" x 3/8"
18238LF	1/2" x 1/2"
18239LF	1/2" x 3/4"
18240LF	5/8" x 3/8"
18241LF	5/8" x 1/2"
18242LF	5/8" x 3/4"
18243LF	3/4" x 1/2"
18245LF	3/4" x 3/4"

**TANK CONNECTOR**



LF68T

- DRILLED THROUGH

**COMP X MIP**

PART #	SIZE
18177TLF	3/16" x 1/8"
18208LF	1/4" x 1/8"
18209LF	1/4" x 1/4"
18210LF	3/8" x 1/4"
18211LF	3/8" x 3/8"
18212LF	3/8" x 1/2"
18213LF	1/2" x 3/8"
18214LF	1/2" x 1/2"

69 269C BSE1 169C

**FEMALE ELBOW**



**COMP X FIP**

PART #	SIZE
18251LF	1/8" x 1/8"
18252LF	3/16" x 1/8"
18253LF	1/4" x 1/8"
18254LF	1/4" x 1/4"
18267LF	1/4" x 3/8"
18268LF	1/4" x 1/2"
18255LF	5/16" x 1/8"
18256LF	5/16" x 1/4"
18257LF	3/8" x 1/8"
18258LF	3/8" x 1/4"
18259LF	3/8" x 3/8"
18260LF	3/8" x 1/2"
18250LF	3/8" x 3/4"
18262LF	1/2" x 3/8"
18263LF	1/2" x 1/2"
18269LF	5/8" x 3/8"
18264LF	5/8" x 1/2"

**45° ELBOW**



**COMP X MIP**

PART #	SIZE
18330LF	1/4" x 1/8"
18336LF	1/4" x 1/4"
18333LF	3/8" x 1/4"
18338LF	3/8" x 3/8"
18334LF	1/2" x 3/8"
18339LF	1/2" x 1/2"
18335LF	5/8" x 1/2"

**MALE RUN TEE**



LF272

**COMPRESSION X MIP**

PART #	SIZE
18273LF	3/16" x 1/8"
18274LF	1/4" x 1/8"
18275LF	1/4" x 1/4"
18276LF	5/16" x 1/8"
18277LF	5/16" x 1/4"
18279LF	3/8" x 1/4"
18280LF	3/8" x 3/8"
18281LF	1/2" x 3/8"

**LEAD FREE COMPRESSION**

LEAD FREE BRASS FITTINGS

**MALE BRANCH TEE**



COMP X MIP

PART #	SIZE
18289LF	1/8" x 1/8"
18290LF	3/16" x 1/8"
18291LF	1/4" x 1/8"
18292LF	1/4" x 1/4"
18293LF	5/16" x 1/8"
18294LF	5/16" x 1/4"
18295LF	3/8" x 1/8"
18296LF	3/8" x 1/4"
18297LF	3/8" x 3/8"
18299LF	1/2" x 3/8"
18300LF	1/2" x 1/2"
18301LF	5/8" x 1/2"

**TEE**



COMP X FIP X MIP

PART #	SIZE
18307LF	1/4" x 1/8 x 1/8"

**TEE**



FIP X MIP X COMP

PART #	SIZE
18315LF	1/4" x 1/4" x 1/4"

**FEMALE BRANCH TEE**



COMP X FIP

PART #	SIZE
18325LF	3/8" x 1/8"
18322LF	3/8" x 1/4"
18323LF	3/8" x 3/8"
18327LF	5/8" x 1/8"

**FEMALE ADAPTER**



COMPRESSION X FEMALE FLARE

PART #	SIZE
18502LF	1/4" x 1/4"

**MALE ADAPTER**



COMPRESSION X MALE FLARE

PART #	SIZE
18503LF	1/4" x 1/4"

**FEMALE ADAPTER (GASKET)**



FEMALE COMPRESSION X COM-

PART #	SIZE
18500LF	3/8" x 1/4"
18501LF	1/2" x 3/8"

**FEMALE ADAPTER (GASKET)**



FEMALE FLARE X COMPRESSION

PART #	SIZE
18510LF	9/16-24 x 3/8

**FEMALE ADAPTER (GASKET)**



LF124GH  
LF125GH

FE GARDEN HOSE X COMPRES-

PART #	SIZE
30050LF	3/4" x 1/4"
30051LF	3/4" x 3/8"

**SWIVEL ELBOW**



LF69GHS-162

COMP X FE GARDEN HOSE

PART #	SIZE
30055LF	3/8" x 3/4"

• NO NUT & SLEEVE

**LEAD FREE ADD-A-TEE**  
COMP X COMP X SWIVEL FE  
COMPRESSION

- For adding a water line
- Ice makers, Coffee makers and instant hot water systems



3/8 3/8

1/4



3/8 3/8

3/8

• NSF Approved

PART #	MALE & FEM. COMPRESSION X MALE COMP
935044LF	3/8 x 1/4
935045LF	3/8 x 3/8

MY MISSION IN LIFE IS NOT MERELY TO SURVIVE, BUT TO THRIVE; AND TO DO SO WITH SOME PASSION, SOME COMPASSION, SOME HUMOR, AND SOME STYLE.

- MAYA ANGELOU

# N/P COMPRESSION/ ICE MAKER KITS/ LEAD FREE BRASS FITTINGS

LEAD FREE BRASS FITTINGS



LEAD FREE

## NICKEL PLATED COMPRESSION FITTINGS

### NUT



PART #	SIZE
18054LF	1/4"
18055LF	3/8"
18056LF	1/2"
18057LF	5/8"

### UNION



PART #	SIZE
31066LF	3/8"
31068LF	1/2"

### REDUCING UNION



PART #	SIZE
31079LF	3/8" x 1/4"
31081LF	1/2" x 3/8"
31082LF	5/8" x 3/8"
31083LF	5/8" x 1/2"

### TEE



PART #	SIZE
31105LF	3/8"
31106LF	1/2"

### ELBOW



PART #	SIZE
31126LF	3/8"
31127LF	1/2"

### REDUCING ELBOW

PART #	SIZE
31137LF	5/8" x 3/8"

### FEMALE COUPLING



PART #	SIZE
31154LF	3/8" x 3/8"
31155LF	3/8" x 1/2"
31158LF	1/2" x 3/8"
31159LF	1/2" x 1/2"

### COMP X SWEAT ADAPTER



PART #	SIZE
31171LF	3/8" x 5/8" O.D (1/2" Nom. Sweat)

### CONNECTOR



PART #	SIZE
31188LF	3/8" x 1/4"
31189LF	3/8" x 3/8"
31190LF	3/8" x 1/2"
31194LF	1/2" x 3/8"
31195LF	1/2" x 1/2"
31198LF	5/8" x 1/2"

### ELBOW



PART #	SIZE
31233LF	3/8" x 1/4"
31234LF	3/8" x 3/8"
31235LF	3/8" x 1/2"
31237LF	1/2" x 3/8"
31238LF	1/2" x 1/2"

### ELBOW



PART #	SIZE
31260LF	3/8" x 1/2"

## Ice Maker Kits

### ICE MAKER WATER SUPPLY



- Lead free fittings
- Bag with Header Card
- 25' 1/4" O.D. Polyethylene Tubing - 979215
- 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

PART #	DESCRIPTION
43265LF	Kit
979215	1/4" OD, 25' Tube

### ICE-MAKER WATER SUPPLY

- Economy
- 25' Polyethylene Tubing
- Self Piercing Saddle Valve
- 1/4" Compression Union
- 1/4" Inserts & Sleeves



PART #
43266LF



VIEW PRICING AND AVAILABLE STOCK ONLINE

**COMP X COMP**



PART #	COMP X COMP
46021LF	1/4"
46022LF	5/16"
46023LF	3/8"

**COMP X MALE PIPE**



PART #	COMP X MALE PIPE
46002LF	1/4" x 1/8"
46003LF	1/4" x 1/4"
46005LF	3/8" x 1/4"

**COMP X MALE PIPE-ANGLE**



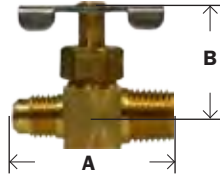
PART #	COMP X MALE PIPE
46011LF	1/4" x 1/8"
46012LF	1/4" x 1/4"
46013LF	5/16" x 1/8"
46015LF	3/8" x 1/8"
46016LF	3/8" x 1/4"

**FLARE X FLARE**



PART #	COMP X COMP
46045LF	1/4"
46046LF	3/8"

**FLARE X MALE PIPE**



PART #	MALE FLARE X MALE PIPE
46029LF	1/4" x 1/4"

**FEMALE PIPE X FEMALE PIPE**



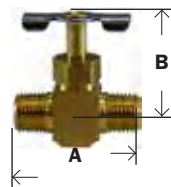
PART #	FEMALE X FEMALE
46055LF	1/8" x 1/8"
46056LF	1/4" x 1/4"

**MALE X FEMALE PIPE**



PART #	FEMALE X MALE
46060LF	1/8" x 1/8"
46061LF	1/4" x 1/4"

**MALE PIPE TO MALE PIPE**



PART #	MALE PIPE X MALE PIPE
46051LF	1/4"

**VALVE WITH TEE**



PART #	SIZE
46175LF	1/4" x 3/8"
46177LF	1/4" x 5/8"
46174LF	3/8" x 3/8"

**VALVE WITH SADDLE FITS**  
up to 3/4" pipe



PART #	SIZE
46091LF	1/4"
46092LF	5/16"
46093LF	3/8"

**BRASS SADDLE**



PART #	SIZE
46099LF	1/8"

**SELF PIERCING SADDLE VALVES**

- 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.



PART #	
46090ALF	Solid Pin
46090HLF	Hollow Pin



**SUPPLY STOPS/ SS SUPPLY CONNECTORS**

LEAD FREE BRASS FITTINGS

LEAD FREE

**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	
746436	LF 3/8 Female Iron Pipe	
746437	LF 1/2 Nominal Pex x 1/4 Comp.	
746438	LF 1/2 Nominal Pex	
746446	LF 1/2 Female Iron Pipe	
746456	LF 5/8 Compression	
746457	LF 5/8 Compression Contractor Pack bagged less 3/8" Nut & Ferrule	
746466	LF 1/2 Nominal Sweat	



**STRAIGHT STOPS**

PART #	X 3/8 COMPRESSION	
746506	LF 3/8 Compression	
746536	LF 3/8 Female Iron Pipe	
746537	LF 1/2 Nominal Pex x 1/4 Comp.	
746538	LF 1/2 Nominal Pex	
746546	LF 1/2 Female Iron Pipe	
746556	LF 5/8 Compression	
746566	LF 1/2 Nominal Sweat	
746567	LF 1/2 Socket CPVC	



**3 WAY STOPS**

PART #	DESCRIPTION	
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	

**LEAD FREE**

**AB1953/S.152 COMPLIANT**

Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

**CONNECTORS**

- Marine Grade Stainless Steel Braid
  - Precision 12 Point Crimp
  - Heavy duty Brass Inserts
- Chloramine/ Chlorine Resistant Inner Liner

**LAVATORY**



3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	
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"	

**BALLCOCK**



3/8 COMPRESSION X 7/8 BALLCOCK

923209	9"	
923212	12"	
923216	16"	
923220	20"	



1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

923509	9"	
923512	16"	
923520	20"	



**SS SUPPLY CONNECTORS**

LEAD FREE BRASS FITTINGS

- 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

- 100% Pressure Leak Tested
- High Performance Teflon Seats
- Individually Boxed
- Conventional Oval Handle Design
- Meets or Exceeds ASME A112.18.1

**ICE MAKER**



1/4 COMPRESSION X 1/4 COMPRESSION

PART #	LENGTH
923112	12"
923124	24"
923136	36"
923148	48"
923161	60"
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
923648	48"
923660	60"
923672	72"
923684	84"



3/8 COMPRESSION X 3/4 FEMALE GARDEN HOSE ELBOW

924248	48"
924260	60"
924272	72"
924284	84"
924297	120"

Act

**WASHING MACHINE**



3/4 FEMALE GARDEN HOSE X 3/4 FEMALE GARDEN HOSE

923936	36"
923948	48"
923960	60"
923972	72"

**WATER HEATER**



3/8 COMPRESSION X 3/4 FEMALE IRON PIPE

PART #	L
922712	12"
922718	18"
922724	24"



7/8 COMPRESSION X 3/4 FEMALE IRON PIPE

922812	12"
922818	18"
922824	24"

3/4 MALE IRON PIPE X 3/4 FEMALE IRON PIPE

922912	12"
922918	18"
922924	24"



3/4 FEMALE IRON PIPE X 3/4 FEMALE IRON PIPE

924115	12"
924118	18"
924124	24"

**PVC SUPPLY CONNECTORS**

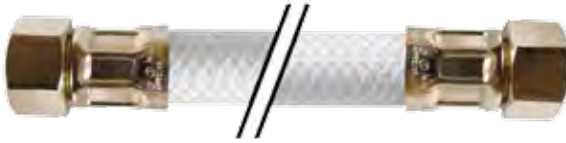
LEAD FREE BRASS FITTINGS

- Reinforced Flexible PVC
- Heavy Duty Brass Inserts
- Precision 12 Point Crimp

**LEAD FREE  
AB1953/S.152  
Compliant**

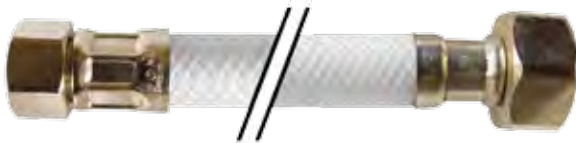
Meets S.3874/ Public Law No. 111-380 Reduction of Lead in Drinking Water Act

**LAVATORY**



3/8 COMPRESSION X 3/8 COMPRESSION

PART #	LENGTH	
920012	12"	
920016	16"	
920020	20"	
920030	30"	
920036	36"	



3/8 COMPRESSION X 1/2 FEMALE IRON PIPE

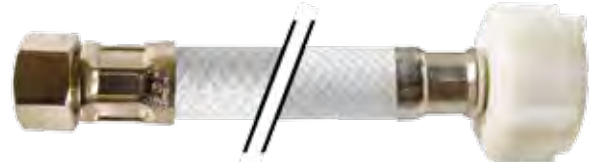
920112	12"	
920116	16"	
920120	20"	
920130	30"	
920136	36"	



1/2 FEMALE IRON PIPE X 1/2 FEMALE IRON PIPE

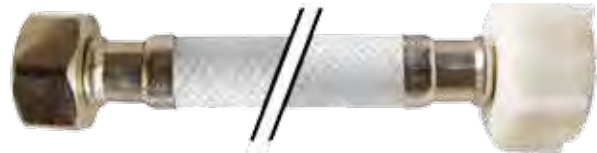
920412	12"	
920416	16"	
920420	20"	
920430	30"	
920436	36"	
920448	48"	

**BALLCOCK**



3/8 COMPRESSION X 7/8 BALLCOCK

921209	9"	
921212	12"	
921216	16"	
921220	20"	



1/2 FEMALE IRON PIPE X 7/8 BALLCOCK

921509	9"	
921512	12"	
921516	16"	
921520	20"	

YOUR WORK IS GOING TO FILL A LARGE PART OF YOUR LIFE, AND THE ONLY WAY TO BE TRULY SATISFIED IS TO DO WHAT YOU BELIEVE IS GREAT WORK. AND THE ONLY WAY TO DO GREAT WORK IS TO LOVE WHAT YOU DO. IF YOU HAVEN'T FOUND IT YET, KEEP LOOKING. DON'T SETTLE. AS WITH ALL MATTERS OF THE HEART, YOU'LL KNOW WHEN YOU FIND IT.

- STEVE JOBS



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

**TRANSITION FITTINGS**

LEAD FREE BRASS FITTINGS

**BRASS CPVC  
FEMALE ADAPTER**



PART#	SIZE	
35403LF	1/2"	
35404LF	3/4"	
35405LF	1"	
35406LF	1-1/4"	
35407LF	1-1/2"	
35408LF	2	

**BRASS CPVC  
MALE ADAPTER**



PART#	SIZE	
35413LF	1/2"	
35414LF	3/4"	
35415LF	1"	
35416LF	1-1/4"	
35417LF	1-1/2"	
35418LF	2	

**LEAD FREE CPVC DROP EAR ELBOW**



PART#	SIZE	
35420LF	1/2"	

**STAINLESS STEEL CPVC  
MALE ADAPTER**



PART#	SIZE	
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	
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	
35420SS	1/2"	

# FITTING ASSORTMENTS AND DISPLAYS

## MAKE YOUR OWN ASSORTMENTS WITH OUR DIFFERENT SIZE OF BINS



Fittings Assortments and Displays are available for most product categories. These customer-friendly modular bin displays keep products organized for easier product maintenance. Header cards are also available to assist in proper product/sizing selection. Lift product sales and satisfy customers with these best in industry merchandisers.

- Bin labels color coded by category
- Easy to shop bins keep products organized
- Space saving slider racks available

Go to [www.MidlandIndustries.com/displays](http://www.MidlandIndustries.com/displays) to create your own assortment or order from the assortments below. Bins can be ordered with or without fittings. Bins, Labels and headers provided, not the gondola.

### LIST OF ASSORTMENTS:

PART# W/ FITTINGS	SIZE	PART # EMPTY
97550	2' Expanded Flare LF	97553
97560	2' Expanded Comp LF	97563
97510	2' Lead Free Compression/ Flare-Basic - LF	97513
97570	2' Lead Free Pipe And Hose Barb - LF	97573
90590	Nylon Fittings	90593
97805	64 ftg Truck & Auto Assortments	97803
97435	Stainless Steel Nipples And Fittings	97433
97445	Stainless Steel Fittings	97443
97815	Lead Free Red Brass Pipe Fittings And Nipples	97813
97535	Pipe Nipples- 44 Top Selling Items; 1/8" Thru 1" LF	97538
97545	Pipe Fittings- 44 Top Selling Items; 1/8" Thru 1" LF	97548
97825	Pneumatic Tools Fittings Assortment	97823
97835	Nylon Air Brake Assortment	97833
97845	Brass Push-To-Connect Assortment	97843
97855	Composite Push-To-Connect Assortment	97853
97865	Marine - Pipe & Barb	97863
97875	Marine - Brass Nipples & Bronze Fittings	97873
97885	Marine - Nylon	97883
97895	Marine - The Big 'Un	97883
97905	LF Brass & Copper Tubing Beverage Assortment	97903
97915	PTC NSF Fittings & Plastic Tubing Beverage Assortment	97913
97925	SS Beverage Fittings and Clearbraided Beverage Assortment	97923

## START YOUR OWN ASSORTMENT - 978000



**GONDOLA**

Gondolas may be purchased from your local Lozier distributor.

**SLIDER KIT**



PART#	SIZE
90507	4x4 - No Bins just slider frame

**LABELS**

Labels are provided when you order an assortment or you can print out your own labels on our website when you create your own assortment.

Add - **LAB** to part# for the assortment on the previous page to order just the labels.



See part # for your assortment or print out your own.

**BINS**

Bins are offered in 3 sizes - 4,5 and 6 across. These bins may be attached to a gondola or peg board wall to make a display. They are made of clear, strong plastic.

**6 ACROSS**



**5 ACROSS**



**4 ACROSS**



PART#	SIZE
9050004	4 BIN
9050005	5 BIN
9050006	6 BIN

**PACKAGING**

- Tagged
- Bagged



Call our order desk for details.



# HEADER CARDS/ SIZE GUIDE



PART#	DESCRIPTION	
90500	HEADER CARD ONLY	
905001	HEADER CARD FTTGS	



PART#	DESCRIPTION	
905021	HEADER CARD ONLY	
905031	HEADER CARD FTTGS	



PART#	DESCRIPTION	
905022	HEADER CARD ONLY	
905032	HEADER CARD FTTGS	



PART#	DESCRIPTION	
905023	HEADER CARD ONLY	
905033	HEADER CARD FTTGS	



PART#	DESCRIPTION	
905025	HEADER CARD ONLY	
905035	HEADER CARD FTTGS	



PART#	DESCRIPTION	
905024	HEADER CARD ONLY	
905034	HEADER CARD FTTGS	



PART#	DESCRIPTION	
905026	HEADER CARD ONLY	
905036	HEADER CARD FTTGS	

**VALVES**



VALVES..... 179-225

Quick Opening Gate.....205  
 Y Strainer .....206  
 Check Valves..... 207-209



LEAD FREE BALL VALVES ..... 180-182  
 LEAD FREE VALVES ..... 183  
 Press Valve..... 184  
 Pex Valves..... 185  
 Full Port Ball..... 186  
 Locking Handle ..... 187  
 Butterfly Handle..... 187  
 N/P Ball Valve ..... 188  
 N/P Ball w/SS Trim ..... 189  
 Italian Ball Valve ..... 190  
 M X F Ball Valve..... 191-192  
 Tee Handle M X F Ball..... 193  
 M X F Ball Locking handle ..... 194  
 Spring Handle Ball Valve ..... 195  
 Right Angle Ball valve ..... 195  
 Wye, 3-Way Ball Valve..... 196  
 Safety Exhaust Ball Valve..... 196  
 Gas Valves..... 197  
 Mini Ball Valves..... 198-201  
 3-Way Valves..... 202  
 Strainer Ball Valve ..... 203  
 Vacuum Breaker/Hose Bibb..... 203  
 Bent Nose Garden Valve..... 203  
 Gate Valves..... 204

STAINLESS STEEL VALVES..... 210-219  
 2000# Full Port.....210  
 Standard Port.....211  
 1,000 PSI Full Port.....212  
 SS Mini Ball Valve .....213-214  
 Check Valves..... 215-218  
 Y-strainer, Globe,Gate ..... 219

Carbon Steel valves ..... 220-223  
 2,000# Standard Port .....220  
 2,000 # FP 2-Piece.....221  
 Hi Pressure 2-Way Valves .....222  
 Hi Pressure 3-Way Balves .....222  
 Check valves-5,000# .....223

PVC Valves ..... 224-225



**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!

**LEAD FREE BALL VALVES**

VALVES

**LEAD FREE BALL VALVE****LEAD FREE**

• BRASS • 600PSI • STAINLESS STEEL BALL • FULL PORT

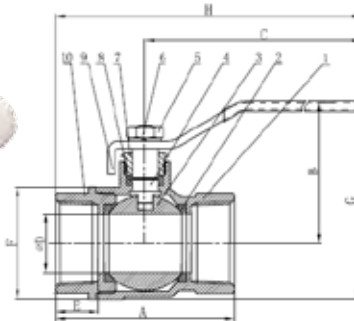
IAMPO IGC 157 - 2004b

PRICING FILE AVAILABLE ONLINE

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 B1.201  
 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
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
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	5.53	1.091	2.50	3.909	7.756	1.88	2/24
941168LF	2"	1.949	5.38	3.01	5.53	1.343	3.244	4.638	8.268	3.62	2/12

# LEAD FREE BALL VALVES

VALVES

1/2" - 2" Sizes Gas Approved



# LEAD FREE BALL VALVE

• BRASS • 600PSI • FULL PORT W/APPROVALS  
 CSA, UL, FM(1/4"-2"), cUPC, NSF/ ANSI 61 & 372

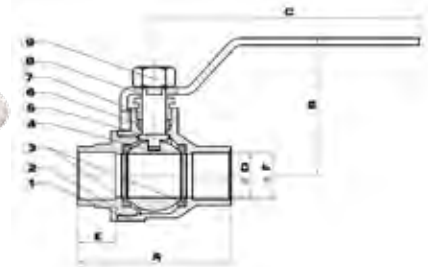


## FEATURES

- 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

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
		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
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



**LEAD FREE BALL VALVES**

VALVES

**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**



**SWT X SWT**

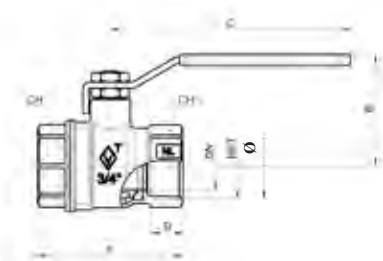
ANSI/INSF 61-8  
• Generic Handles

**FIP X FIP LEAD FREE FORGED BRASS BALL VALVE**

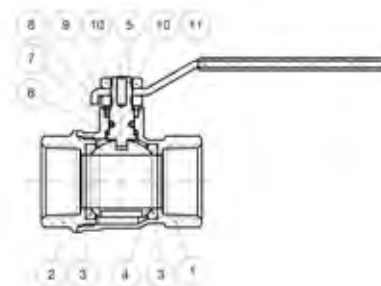
PART #	NPT	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE
943233LF	1/2"	0.57	2.09	1.57	3.35	0.46	0.98	0.39	20/80
943234LF	3/4"	0.75	2.28	1.77	3.80	0.49	1.22	0.56	14/56
943235LF	1"	0.94	3.04	2.03	3.80	0.59	1.50	0.89	6/24
943236LF	1-1/4"	1.24	3.23	2.32	4.72	0.62	1.85	1.44	4/16
943237LF	1-1/2"	1.49	3.70	2.60	4.72	0.64	2.13	2.19	2/8

**SWT X SWT LEAD FREE FORGED BRASS BALL VALVE**

PART #	SWT	Ø	DN	A	B	C	D	CH	WEIGHT (LBS)	BOX/CASE
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





# LEAD FREE GATE/ CHECK/ Y VALVES

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	
940130LF	1/4	
940131LF	3/8	
940132LF	1/2	
940133LF	3/4	
940134LF	1	
940135LF	1-1/4	
940136LF	1-1/2	
940137LF	2	

## BRASS GATE VALVE C X C



PART#	SIZE	
940142LF	1/2"	
940143LF	3/4"	
940144LF	1"	
940145LF	1-1/4"	
940146LF	1-1/2"	
940147LF	2"	

## BRASS CHECK VALVE

- NSF Approved
- ANSI 61-4

NO	Part	Material
1	Cap	C37700
2	Gasket	NBR
3	Spring	Stainless Steel
4	Positioning Seat	BRASS
5	Screw	BRASS
6	Body	C37700



## LEAD-FREE

PART #	SIZE	
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	
940352LF	1/2"	
940353LF	3/4"	
940354LF	1"	
940355LF	1-1/4"	
940356LF	1-1/2"	
940357LF	2"	

## C X C SWING CHECK VALVE



PART #	SIZE	
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	
940523LF	1/2"	

# PRESS BALL VALVE

## VALVES

### LEAD FREE COPPER PRESS BALL VALVE

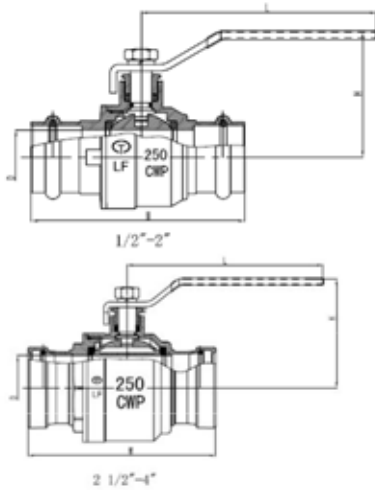
Midland Series "940 LF" 2-Piece, Full Port, Lead Free, Copper, Press Ball Valves are designed for use in flameless, copper press piping systems. Midland Copper Press Ball Valves feature a lead free brass body, adjustable packing gland and blowout proof stem with stem a single O-ring seal. Our press ball 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

# PEX BALL VALVES - 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 DRAIN VALVE

C/E PEX X C/E PEX

WITH WASTE 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



- Cold Expansion
- Conforms to ASTM F1807

PART	SIZE
945650LF	1/2"
945651LF	3/4"
945652LF	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](http://www.P65Warnings.ca.gov)

VALVES

# FORGED BRASS BALL VALVE

VALVES

# FORGED BRASS BALL VALVE

• BRASS • 600WOG • FULL PORT



ISO 9002 Manufacturer  
FEATURES

Made in China

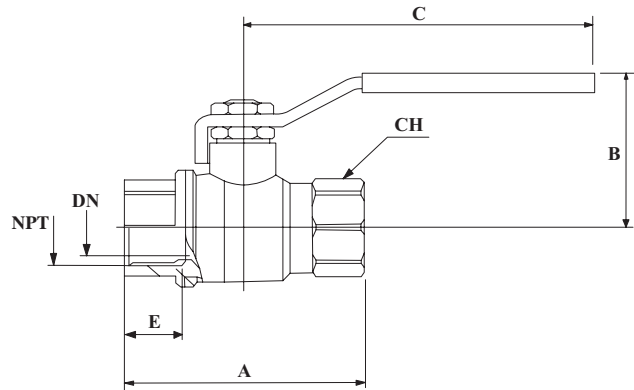
1/4"-2" 600 PSI non-shock cold water,  
gas, oil - 150 PSI saturated steam  
2-1/2"- 4" 400 PSI non-shock cold water,  
gas, oil

- 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

- 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



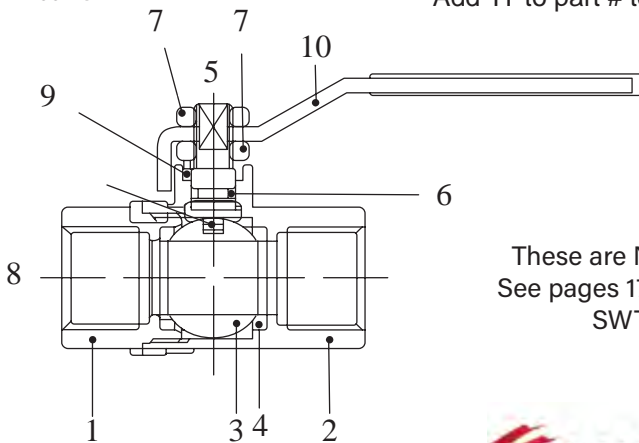
• Generic Handles



PART#	SIZE		DIMENSION INCHES					WEIGHT	BOX/CASE
	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 pages 179 for 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

• Not Lead Free AB1953 Compliant

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
	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						WEIGHT	BOX/CASE
	NPT	A	B	C	D	E		
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

**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](http://www.P65Warnings.ca.gov)

VALVES



**NICKEL PLATED BALL VALVE**

VALVES

**NICKEL PLATED BALL VALVE**

• BRASS • 600WOG • FULL PORT • NO APPROVALS

**Vacuum service to 29 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, Nickel plated

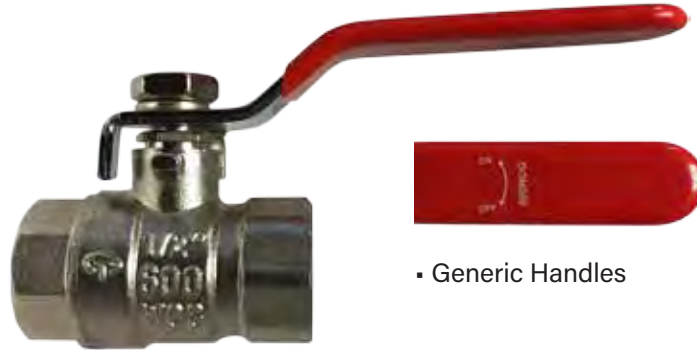
PTFE Ball Seats

Blow Out Proof Brass Stem

Steel Handle w/Vinyl Grip

Made in China

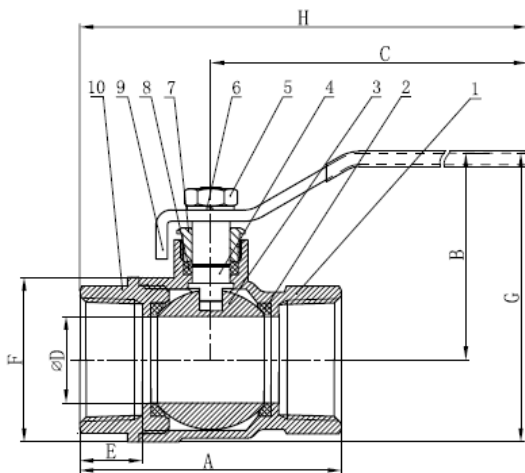
- Not Lead Free



• Generic Handles

**FIP X FIP NICKEL PLATED BALL VALVE**

PART #	SIZE	OD	A	B	C	E	F	G	H	WEIGHT	BOX/CASE
941151NP	1/4"	0.394	1.73	1.69	3.35	0.453	0.945	2.154	4.331	0.32	10/120
941152NP	3/8"	0.394	1.73	1.69	3.35	0.473	0.945	2.154	4.331	0.32	10/120
941153NP	1/2"	0.524	1.89	1.73	3.35	0.472	1.083	2.276	4.291	0.36	10/100
941154NP	3/4"	0.748	2.28	1.89	3.35	0.563	1.378	2.579	4.488	0.57	10/80
941155NP	1"	0.984	2.80	2.14	4.29	0.650	1.772	3.031	5.689	0.65	8/48
941156NP	1-1/4"	1.240	3.15	2.32	4.29	0.669	2.165	3.398	5.866	1.75	4/36
941157NP	1-1/2"	1.476	3.44	2.66	5.63	0.701	2.50	3.909	7.343	2.10	2/24
941158NP	2"	1.949	4.06	3.01	5.63	0.708	3.244	4.638	7.638	3.35	2/12



No	Item	Qty	Material
1	Body	1	NP Brass
2	Seat	2	PTFE
3	Ball	1	Brass CP
4	Stem	1	Brass/ NP
5	Handle Nut	1	Plated Steel
6	Lock Washer	1	Plated Steel
7	Packing Nut	1	Brass/ NP
8	Packing	1	PTFE



USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE  
WITH MIDLAND MORE CONVENIENTLY

**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](http://www.P65Warnings.ca.gov)



# N/P BALL VALVE W/SS TRIM

VALVES

Gas Approved



UL842, UL258, UL125,FM

CSA AGA 3.88 5 PSIG

# N/P BALL VALVE W/SS TRIM

- NICKEL PLATED
- SS BALL, HANDLE, NUT & STEM
- LOCKING HANDLE
- W/APPROVALS

## Features

- Vacuum service to 29 inches Hg
- Thread Conform ANSI B1.20.1
- Forged Brass Body
- Blow Out Proof Stem Design
- Packing Nut, O-RING & Packing On The Stem Seal
- Stainless Steel Ball, Handle, Nut&Stem
- Handle With Vinyl Grip

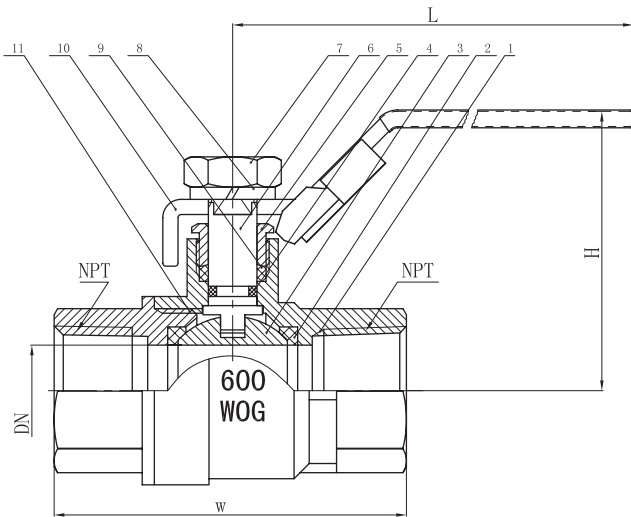
## Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free
- No more rusty handles



• Generic Handles

PART#	SIZE	D	L	H	W	CV	WT.(LBS.)	BOX/CASE
941121NP	1/4	0.394	3.22	1.84	1.73	8.23	0.326	10/120
941122NP	3/8	0.394	3.22	1.84	1.73	8.23	0.320	10/120
941123NP	1/2	0.591	3.22	2.02	2.24	18.55	0.474	10/100
941124NP	3/4	0.748	4.04	2.40	2.52	29.76	0.785	10/80
941125NP	1	0.984	4.08	2.20	2.97	51.55	1.155	8/48
941126NP	1-1/4	1.259	5.20	3.05	3.44	84.42	1.797	4/36
941127NP	1 1/2	1.574	5.20	3.18	3.88	131.93	2.447	2/24
941128NP	2	1.941	5.20	3.48	4.33	200.35	3.477	2/12



Part Name	Material
Body	Brass/ Nickel Plated
Seat	PTFE
Ball	Stainless Steel
O-ring	Viton
Packing Nut	Brass/ Nickel Plated
Stem	Stainless Steel
Handle Nut	Stainless Steel
Lock Washer	Stainless Steel
Packing	PTFE
Handle	Stainless Steel
Cap	Brass/ Nickel Plated

## BRONZE BALL VALVES AVAILABLE WITH UL-MARINE LISTING AND SS TRIM



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!

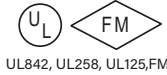
**WARNING:** This product can expose you to chemicals, including chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# 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

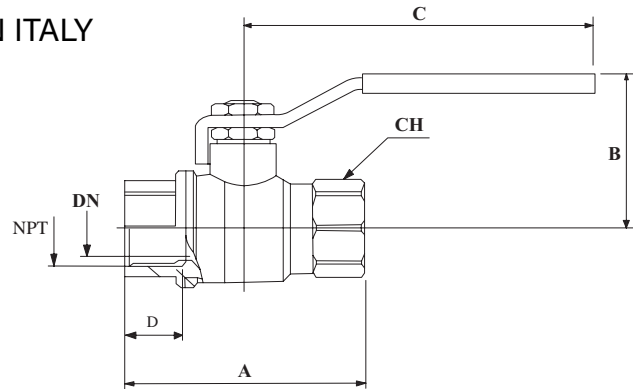
- **Adjustable stem packing gland**
- Maximum operating temperature: 248°F (120° C) at 600 PSI
- Minimum operating temperature: -20°F (-40°C)
- Each valve individually tested
- Forged Brass - for more strength
- Threaded ends to ANSI B1.20.1
- Hard chromium plated solid ball
- Bottom entry, blow-out proof stem
- Deeper threads - for better connections

• **REVERSIBLE HANDLES**

MADE IN ITALY



Female x Female



PART#	SIZE		DIMENSION INCHES						WEIGHT	BOX/CASE
	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	

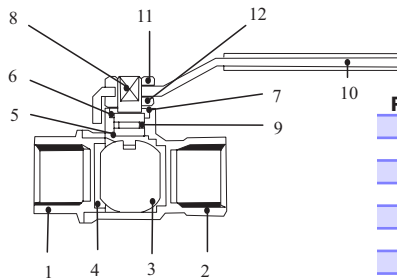
HANDLE OPTIONS

TEE HANDLES

PART #	VALVE SIZE	LIST PRICE
43200T	1/4" - 3/4"	

LOCKING HANDLES

PART #	VALVE SIZE	LIST PRICE
43200L	1/4" - 3/4"	
43204L	1"	
43206L	1-1/4" - 1-1/2"	



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](http://www.P65Warnings.ca.gov)

• Not Lead Free AB1953 Compliant

[www.midlandindustries.com](http://www.midlandindustries.com)



Toll Free Phone 1-800-821-5725

# MALE X FEMALE BRASS BALL VALVE

VALVES

# MALE X FEMALE BRASS BALL VALVE

• 600WOG • FULL PORT



UL842, UL258

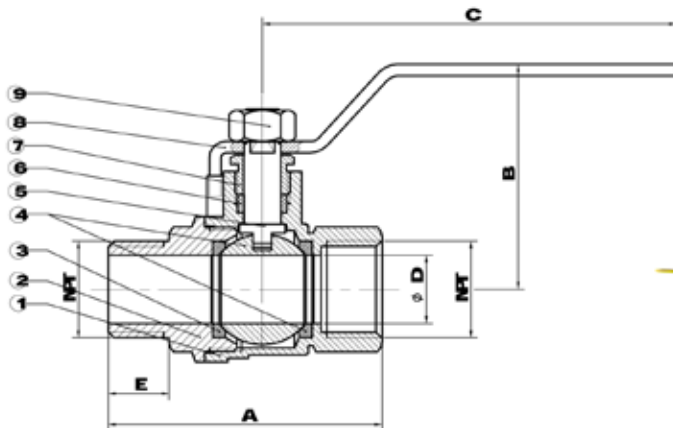
- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG ( non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, 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 B1.201
- Hard chromium plated solid ball



• Not Lead Free

PART#	SIZE	NPT	A	B	C	D	E	WEIGHT	BOX/CASE
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



Locking Handle option  
see pg. 182



Tee handle option  
see pg. 181

# ITALIAN MALE X FEMALE BALL VALVE

VALVES

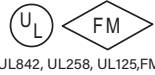
## ITALIAN MALE X FEMALE BALL VALVE

• BRASS • 600WOG • FULL PORT

Gas Approved



CSA AGA 3.88 5 PSIG



UL842, UL258, UL125, FM

Made in Italy

ISO 9002 Manufacturer  
FEATURES

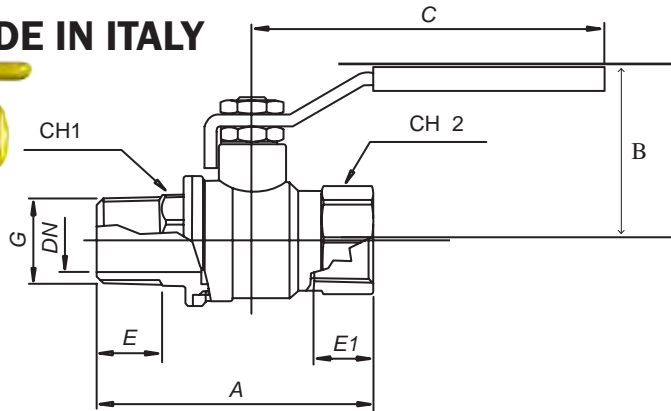
- Solid chrome plated brass ball
- Suitable for full range of liquids and gases.
- Minimal pressure drop due to large full size ports.
- Bottom loaded, pressure retaining stem.
- Pressure rated at 600psi (42 bars) WOG ( non-shock) and 150psi (10.34 bars) saturated steam. Virgin TFE stem packing seal, 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.

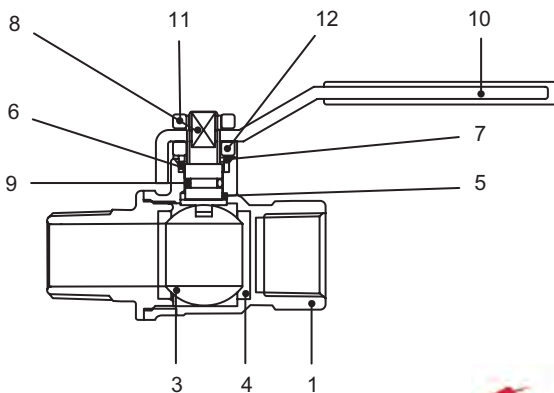


MIP x FIP

MADE IN ITALY



PART#	SIZE	DN	A	B	C	E	E1	CH1	CH2	WEIGHT	BOX/CASE
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

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](http://www.P65Warnings.ca.gov)



# TEE HANDLE BALL VALVE - MXF

VALVES

## TEE HANDLE BALL VALVE - MALE X FEMALE



UL842, UL258

### Features

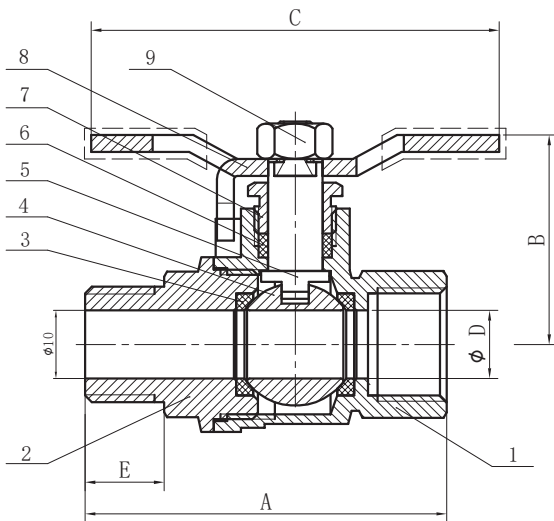
- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass Ball
- Handle with vinyl grip

### Performance rating

- 600 PSI (WOG) 150 PSI (WSP) Service
- Temperature range: -20° F to 300° F
- Made in China
- Not lead free



PART#	SIZE NPT	DIMENSION INCHES					Weight	Box/Case
		A	B	C	D	E		
948170T	1/4"	2.016	1.27	2.67	0.315	0.457	0.26	70/140
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
948176T	1-1/2"	3.965	2.717	4.331	1.575	0.717	2.46	9/18



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



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

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VALVES

# LOCKING HANDLE BALL VALVES - FEMALE X MALE VALVES

## LOCKING HANDLE BALL VALVES - FEMALE X MALE



UL842, UL258

### Features

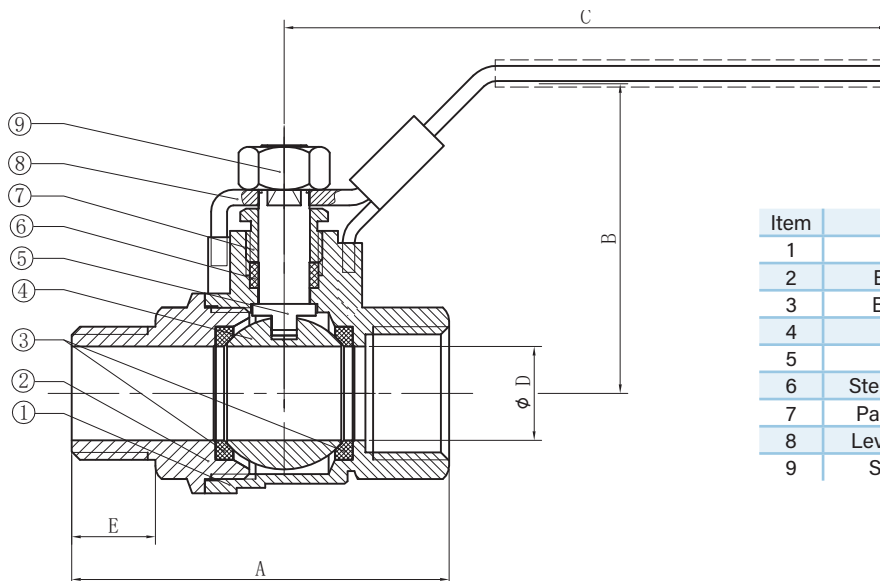
- Thread conform ANSI B1.20.1
- Forged brass body
- Blow out proof stem design
- Packing nut, O-Ring and packing on the stem seal
- Chrome Plated Brass ball
- Handle with vinyl grip

### 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
	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



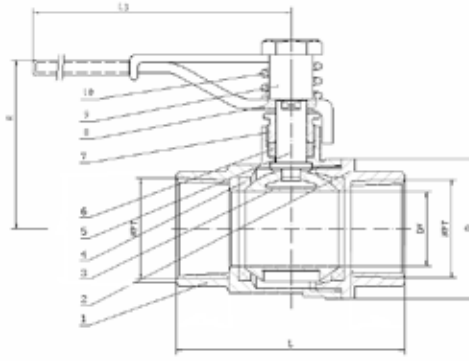
Item	Part	Materials
1	Body	Brass
2	End Cap	Brass
3	Ball Seat	PTFE
4	Ball	C/P Brass
5	Stem	Brass
6	Stem Packing	PTFE
7	Packing Nut	Brass
8	Lever Handle	Nickel plating steel
9	Stem Nut	Brass plating steel

**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](http://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



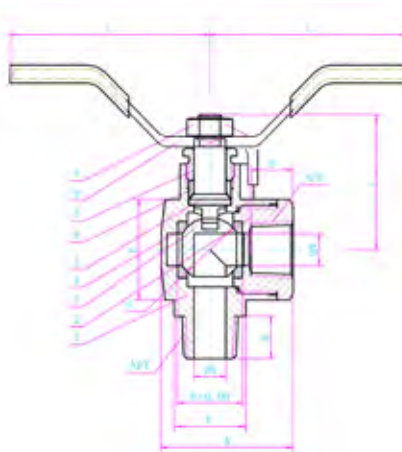
Part #	Part Name	Material
1	Body	Brass
2	Bonnet	Brass
3	Ball	Brass
4	Sealing Seat	PTFE
5	Stem	Stainless Steel
6	Packing Ring	PTFE
7	Gland	Brass
8	Handle	Stainless Steel
9	Bolt	Brass
10	Spring	Stainless Steel

PART#	SIZE	L	D	DN	H	L3	WTG	BOX/ CASE
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

• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR STAINLESS STEEL BRASS VALVES FOR FUEL LINES

## RIGHT ANGLE BRASS BALL VALVE

Working pressure: 250PSI  
 Temperature Range -40° to 400°F( -40 °C to +205 °C)  
 With lever Handle Teflon seats 2-pc,full port Heavy Duty forged Body Steel Handle w/Vinyl Grip  
 Made 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

PART #	SIZE	A	B	C	D	S	DN	L	E	F	WTG	BOX/ CASE
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

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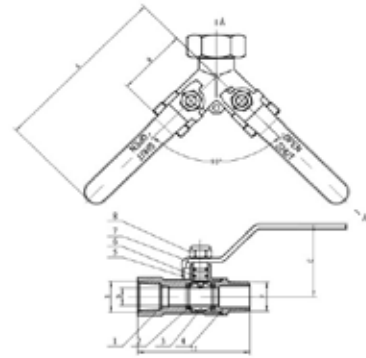
# 3 WAY AND SAFETY EXHAUST BALL VALVES

## 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	Viton



Designed for the portable air compressor industry, these valves control the flow of water,

oil, and inert gases in two direction 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 has a drilled hole on the two valve balls and body that vents compressed air in the line when 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

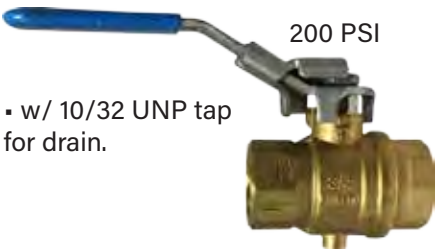
PART #	BALL	E	F	A	B	C	D	G	WTG	BOX/CASE
947125	Non-vented	1" Female	3/4" Male	5.18"	2.5"	2.05"	0.59"	90°	1.43	2/24
947126	Vented								1.48	2/24

### EXHAUST VALVES

#### AUTOMATIC DRAIN & LATCH LOCK HANDLE

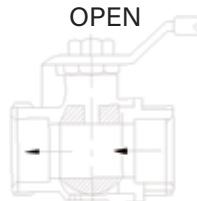
Full port hot forged brass ball valve, blow-out proof stem, downstream automatic vent with lockable handle in compliance with OSHA requirements.

- Maximum working pressure: 200 PSI (CWP).
- Temperature rating: +15°F through +210°F.
- Made in Italy
- Not lead free

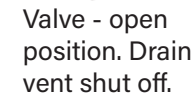


200 PSI

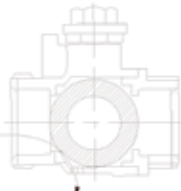
- w/ 10/32 UNP tap for drain.



OPEN



CLOSED



PART#	SIZE
948131	1/4"
948132	3/8"
948133	1/2"
948134	3/4"
948135	1"

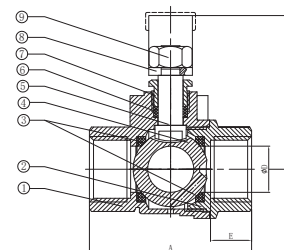
Valve - closed and draining occurs. Upstream seat prevents air flow. Downstream system is vented to atmosphere.

### 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
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



#### MATERIAL LIST

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

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# GAS BALL VALVES

VALVES



CSA AGA 3.88 5 PSIG

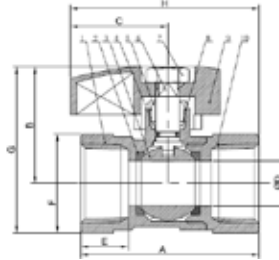
# GAS BALL VALVES

ISO 9002 MANUFACTURER  
FEATURES



Manual Valve  
LISTED  
Threaded NPT  
UL 842, UL 258, UL 125

- 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



NO.	ITEM	TOTAL	MATERIAL
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

## GAS BALL VALVE (2-PIECE) FEMALE X FEMALE

PART#	SIZE	WTG	BOX/CASE
943311	3/8"	0.35	10/100
943312	1/2"	0.44	10/100
943313	3/4"	0.62	10/100

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
943342	3/8
943343	1/2
943345	5/8
943344	15/16



## FLARE X MIP

PART#	SIZE
943347	3/8 x 1/2
943348	1/2 x 1/2

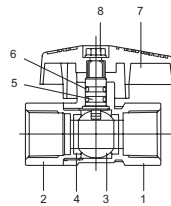


## FLARE X FIP

PART#	SIZE
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 viton o-rings stem seals
- Teflon 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

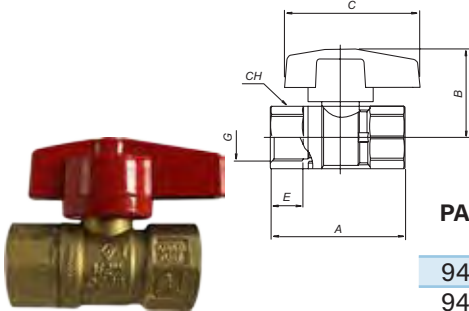


CSA AGA 3.88 5 PSIG



Manual Valve  
LISTED  
Threaded NPT  
UL 842, UL 258, UL 125

## GAS BALL VALVES FEMALE X FEMALE



PART#	SIZE	DIMENSION INCHES								
		G	DN	A	B	C	E	CH	PN in psi	WTG
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

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



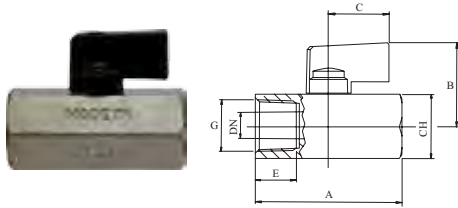
# CHROME PLATED BRASS MINI BALL VALVES

VALVES

## ITALIAN CHROME PLATED BRASS MINI BALL VALVE

ISO 9002 Manufacturer

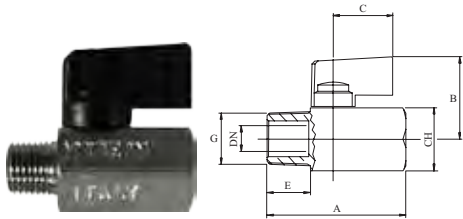
- |  |                 |  |
|--|-----------------|--|
| <ul style="list-style-type: none"> <li>• Solid chrome plated brass ball</li> <li>• Max working pressure 235 psi will handle 300psi@75° F</li> <li>• Longer body style for longer, deeper thread connections</li> <li>• One piece drawn sand blasted chrome plated body.</li> <li>• Each valve is seal tested for maximum safety.</li> <li>• Double seal system allows valve to be operated in both directions making installation easier.</li> </ul> | <b>FEATURES</b> | <ul style="list-style-type: none"> <li>• Blowout-proof brass stem.</li> <li>• NPT taper ANSI B1.20.1 threads.</li> <li>• 32°F to +176°F temperature.</li> <li>• 1/4 Turn Aluminium handle with mechanical stop.</li> <li>• NSF Approved valves available upon request.</li> <li>• Not lead free</li> </ul> |
|--|-----------------|--|



Made in Italy

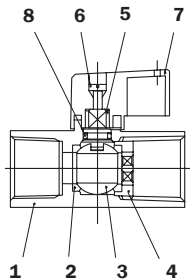
### Female x Female

PART#	SIZE		DIMENSION INCHES							BOX/CASE
	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	

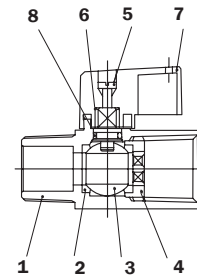


### Male x Female

PART#	SIZE		DIMENSION INCHES							BOX/CASE
	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	



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



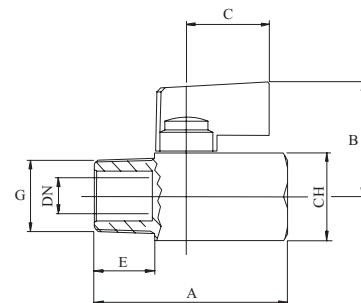
## YELLOW BRASS 1/4" MINI MALE X FEMALE VALVE

- Proprietary seal design extreme for low & high temperature applications
- -76° to +248°F temperature.
- Nominal working pressure 235 psi will handle 300psi@75° F
- One piece drawn sand blasted brass plated body. Solid chrome plate brass ball
- 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.
- 1/4 TURN BLACK METAL HANDLE WITH MECHANICAL STOP.



MALE X FEMALE

MADE IN ITALY



Part#	Size		Dimension Inches						
	NPT	DN	A	B	C	E	CH	CASE	
46903ISB	1/4"	0.315	1.75	1.18	0.91	0.48	0.83	200	

**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](http://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

See page 107 for C/P Push-In mini ball valves



#### 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/VITON SEALS

#### 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

#### FEMALE X FEMALE - TEE HANDLE



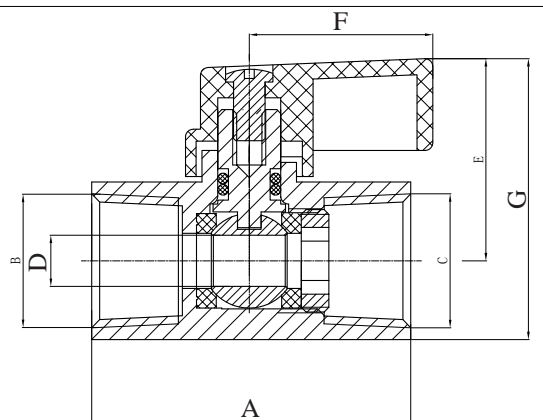
PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE
		A	D(FLOW)	HAN- DLE	G		
46934LT	1/8	1.60	0.24	1.34	1.43	0.21	20/300
46935LT	1/4	1.57	0.31	1.34	1.43	0.20	20/300
46936LT	3/8	1.60	0.28	1.34	1.43	0.22	20/300

#### FEMALE X FEMALE - SCREWDRIVER



PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/ CASE
		A	D(FLOW)		
46934LS	1/8	1.57	0.24	0.21	20/300
46935LS	1/4	1.57	0.31	0.20	20/300
46936LS	3/8	1.57	0.28	0.22	20/300
46937LS	1/2	1.77	0.35	0.24	20/200

- Not lead free



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

**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](http://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/VITON SEALS****MALE X FEMALE - LEVER HANDLE**

PART #	SIZE	DIMENSIONS (IN)				WT LBS	BOX/ CASE
		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

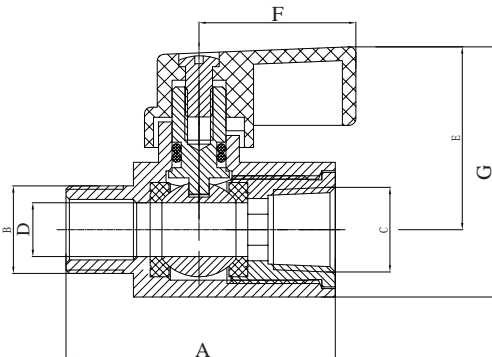
**MALE X FEMALE - TEE HANDLE**

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 - SCREWDRIVER**

PART #	SIZE	DIMENSIONS (IN)		WT LBS	BOX/ CASE
		A	D(FLOW)		
46930S	1/8	1.57	0.24	0.17	20/300
46931S	1/4	1.57	0.31	0.15	20/300
46932S	3/8	1.57	0.28	0.21	20/300
46933S	1/2	1.77	0.35	0.24	20/200

- Not lead free



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

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# FORGED BRASS MINI BALL VALVES

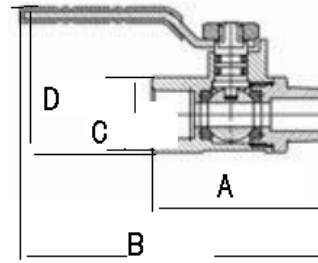
VALVES

## FORGED BRASS MINI-BALL 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

See page 107 for C/P mini ball valves

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	Teflon	2
8	Ball Disc	Brass	1
9	End Plug	Brass	1



FEMALE X FEMALE

PART #	SIZE	A	B	C	D
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



HOSE BARB X MALE

PART #	SIZE	A	B	C	D
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



FEMALE X MALE

PART #	SIZE	A	B	C	D
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
944103	3/8	1.78	3.02	0.87	1.50
944102	3/8X1/4	1.78	2.50	0.89	1.50



HOSE BARB X FEMALE

PART #	SIZE	A	B	C	D
944135	1/8X1/8	1.78	2.44	0.62	1.38
944136	1/4X1/4	1.97	2.87	0.73	1.55



MALE X MALE

PART #	SIZE	A	B	C	D
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
944112	1/2	2.56	4.93	1.02	2.21



HOSE BARB X HOSE BARB

PART #	SIZE	A	B	C	D
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
944142LF	1/4	2.49	3.19	0.73	1.55
944134LF	3/8	2.47	3.18	0.73	1.55

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VALVES

# 3 WAY BALL VALVE

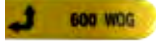
VALVES

## SIDE OUTLET 3-WAY BALL VALVE

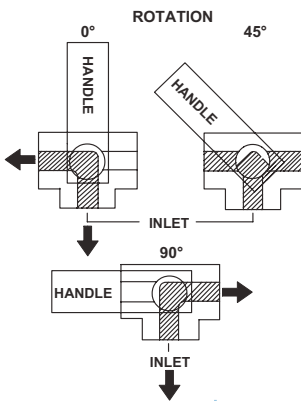
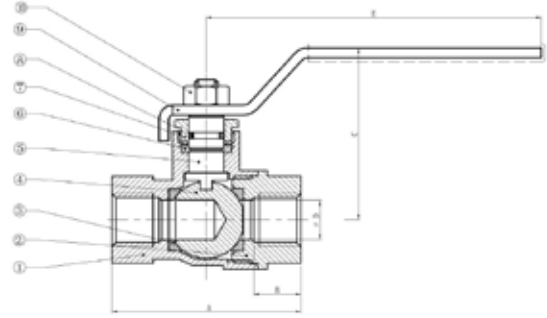
- BRASS
- 600WOG
- FULL PORT



- 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

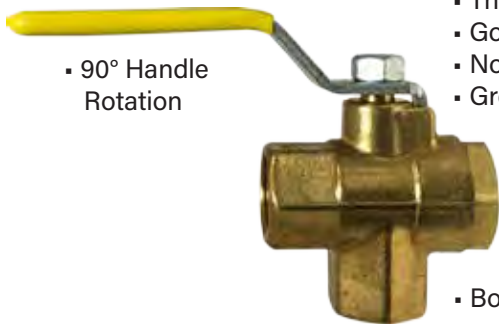
### Nomenclature & Materials

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
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

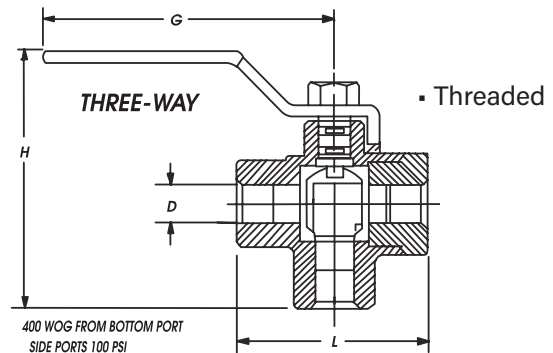
### BOTTOM OUTLET 3 WAY BALL VALVE

- Forged Brass
- Teflon ball seats
- Bottom Port is inlet 400 psi
- Side Ports are inlet 100 psi
- Double O-Ring Stem Seals - primary seal is Viton 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
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

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# MISCELLANEOUS VALVES

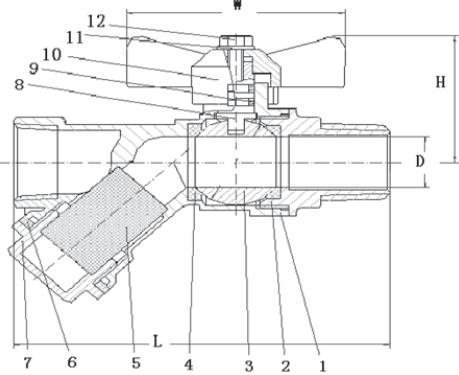
## VALVES

### 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	Viton
10	Handle	Zinc



PART #	SIZE	L	D	W	H	WTG	BOX/CASE
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

### 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
947055	3/4" x 3/4"
947055LF	3/4" x 3/4"

### RADIATOR AIR VALVE

COIN SLOT OR LOSSE KEY



PART #	SIZE
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



PART #	SIZE	BOX
942142	1/2"	12

### HOSE BIBBS

3/4" HOSE THREAD OUTLET



PART #	SIZE	WTG	BOX/CASE
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
942100	1/2"	12	72
942101	3/4"	12	72
942102	1"	12	72



# BRASS GATE VALVE

VALVES

## BRASS GATE VALVE

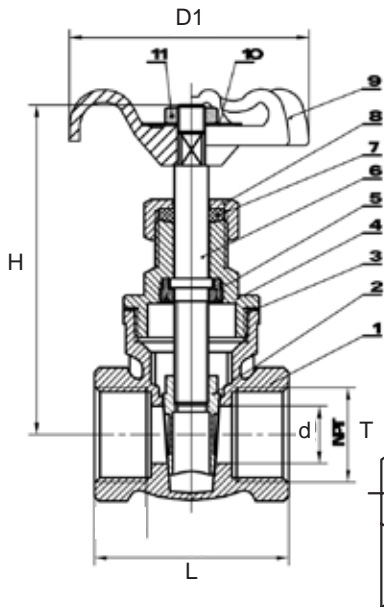
• BRASS • 200WOG • FULL PORT

- 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
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	3.33	2/24
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	8.34	1/6
940140	4	4.53	9.88	4.74	3.60	4-8 NPT	4.88	13.09	1/4



	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

#### Crown handle

1/2-1/4



#### X handle

1/2-1/4



Add "C" to part# for Crown handle, "X" for X handle.

See page 218 for SS Gate Valve



See Lead Free section page 182 for lead free Gate Valves.



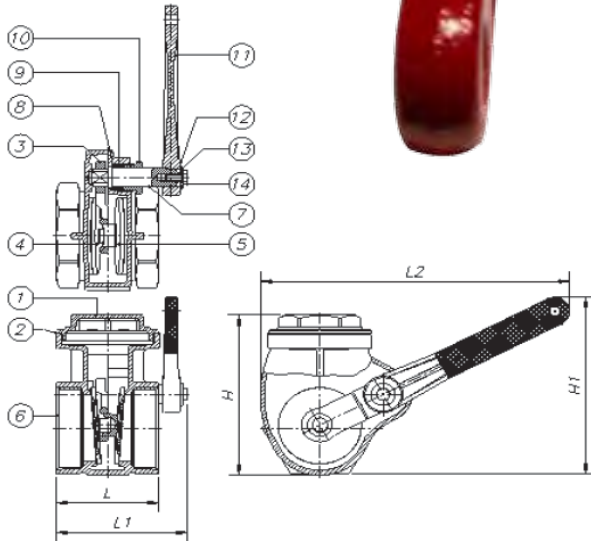
**WARNING:** This product can expose you to chemicals, including lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# QUICK OPENING GATE VALVE

VALVES

## GATE VALVE QUICK OPENING

Features: Bronze Material, Threaded Ends



### 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	TEFLON 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
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

Ignorance, the root and stem of all evil. - Plato

**Y-PATTERN STRAINER**

VALVES

**CLASS 150 BRASS Y-PATTERN STRAINER**

- Forged Brass body, size 1/4"-3".
- Pressure rating: 150 WOG (water, oil, gas)/PN25  
150 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
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	8/48
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
940529	2-1/2"	9.50	5.39	NPT 3/4	9.56	1/6
940530	3"	9.4	5.67	NPT 3/4	13.49	1/4

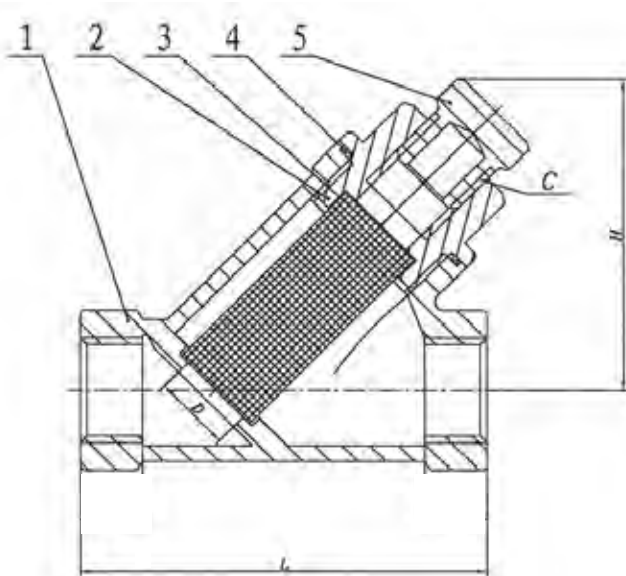
Add 'S' to part # for replacement



See page 172 for 1/2" Lead Free



See page 207 for SS Y Strainer



	Name	Material
1	BODY	C85700
2	BONNET	C85700
3	STRAINER	304 S.S.
4	SPRING SEAL	PTFE

**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](http://www.P65Warnings.ca.gov)

# BRASS SWING CHECK VALVES

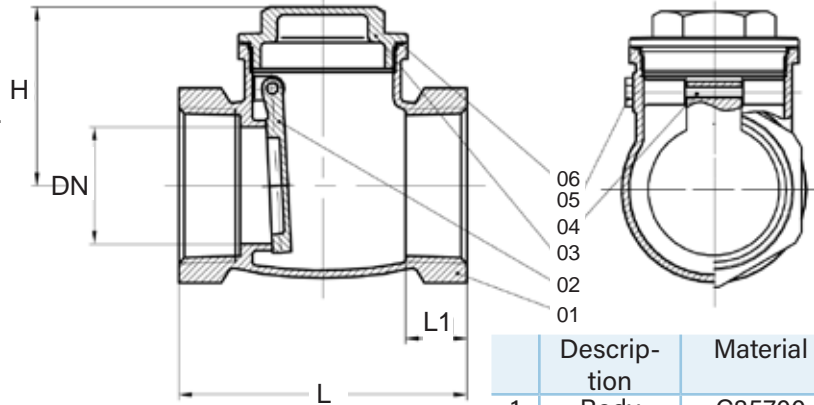
VALVES

## 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.
- Threaded ends to ANSI B1.20.1

- Integral seat.
- Temp range -5° - 150F°
- NOT LEAD FREE
- Cracking pressure 3-5 psi

• Made in Indonesia



	Description	Material
1	Body	C85700
2	Disc	C85700
3	Cap	C85700

### CAST BRASS SWING CHECK VALVES IPS SCREWED ENDS

PART #	SIZE	L	H	L1	DN	WEIGHT	BOX/CASE
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	.73	5/60
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	5/30
940357	2	4.21	2.74	0.886	1.772	2.58	2/20
940358	2-1/2	5.14	3.09	1.063	2.224	4.55	1/15
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 page 182 for Lead Free Brass Swing Check



• See page 218 for SS Swing Check Valves

### Y PATTERN BRASS SWING CHECK VALVE SCREWED ENDS



PART #	SIZE	
940-352B	1/2"	----
940-353B	3/4"	----
940-354B	1"	----
940-355B	1-1/4"	----
940-356B	1-1/2"	----
940-357B	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](http://www.P65Warnings.ca.gov)

VALVES



# BRASS CHECK VALVES

VALVES

## BRASS CHECK VALVES

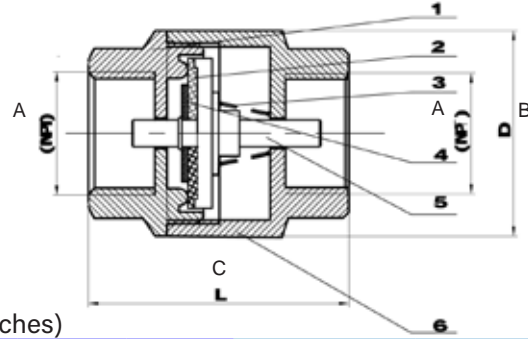
S.S. SPRING LOADED BRONZE POPPET - For positive sealing & self-cleaning. Insures against leakage.

- 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
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	.80	6/60
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



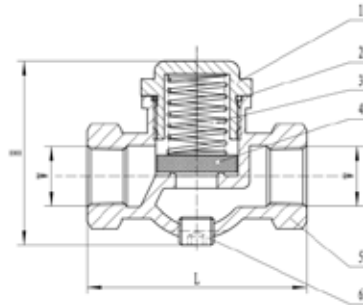
• See page 182 for Lead Free Brass Check



• See page 215 for 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 • Teflon 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
947140	1/8"	1/8	1.75	1.34	0.28	20/100
947141	1/4"	1/4	1.75	1.37	0.29	20/100
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

High Capacity, Size 1/4"-2" 400 WOG, 2 1/2"-4" 175 WOG

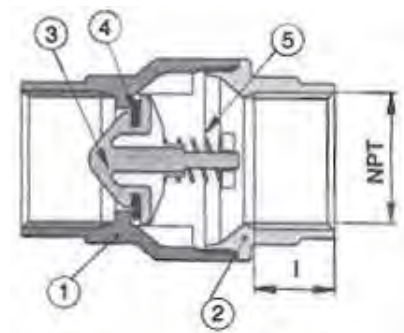
- Soft Seat for Bubble Tight Shutoff, Spring Loaded for Fast Seating Action.
  - Compact design.
  - Low Cracking Pressure 1/2 psi.
  - Flow Profile Designed to Minimize Head Loss.
  - Perfect Seating both at High and Low Pressure, Wide Temperature Range: +10° to 210°F.
  - Polyetherimide Disc to ensure 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 VITON® Seal for fuels and hydrocarbons. Max working TEMPERATURE 325°F/125 psi steam

Add V to part# for Viton®



BRASS IN-LINE CHECK

PART#	SIZE	I	PSI	LBS	CASE	VITON PART#
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



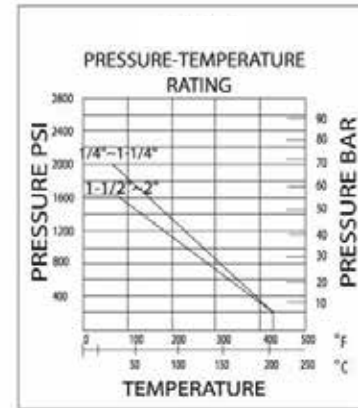
NO	Part	Material	PCS
1	BODY	BRASS	1
2	END CONNECTION	BRASS	1
3	DISC	POLYETHERIMIDE	1
4	SEAT	100002 NBR	1
		100003 Viton	1
5	SPRING	STAINLESS STEEL	1

**316 SS FULL PORT VALVES**

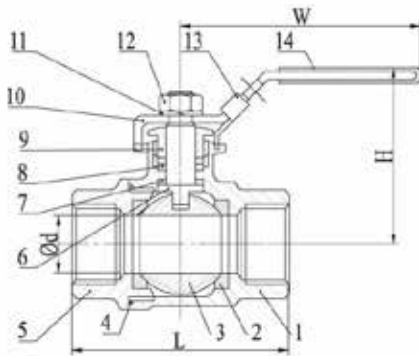
VALVES

**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
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

• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR UL-MARINE VERSION

**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](http://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

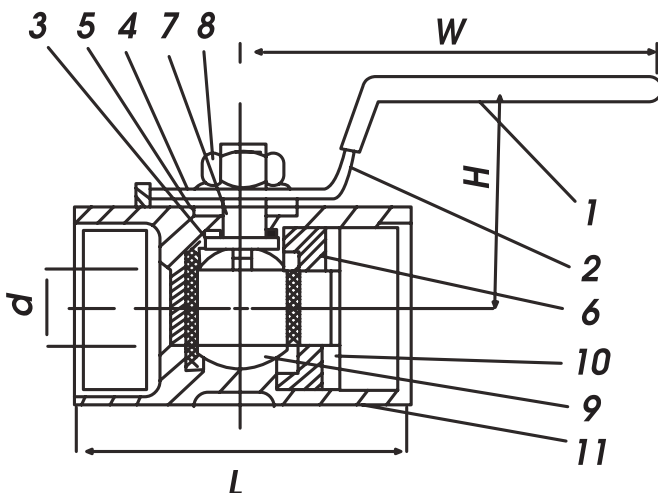


### LOCKING HANDLE

Valves will accept a pad-lock on the handle.

PART#	SIZE	D	L	H	W	dimensions (inches)		
						WEIGHT	CASE	
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	Stem	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 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](http://www.P65Warnings.ca.gov)

VALVES

# 316 SS TWO PIECE FULL PORT VALVES

VALVES

## TWO PIECE FULL PORT BALL VALVE

316 Stainless Steel

1000 PSI

Materials: CFM8M (SS316)

### Features:

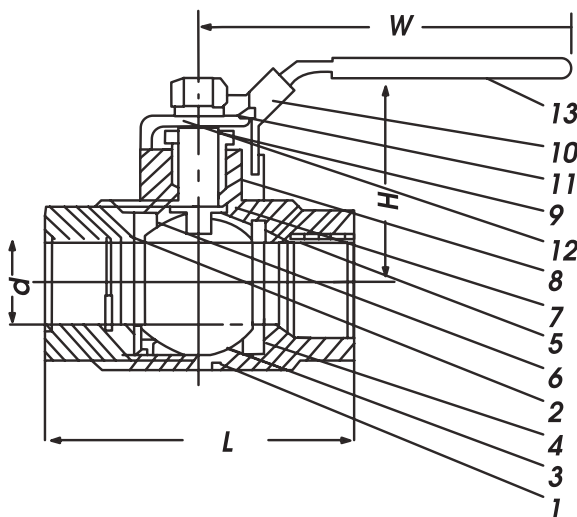
- Quality manufactured for harsh environments.
- Corrosion resistant.
- Investment Casting body
- Working pressure 1000 psi for W.O.G.
- Adjustable stem packing
- Pure teflon seals and seats
- Temperature range: -60 to 450°F
- Blow-out proof stem and safe pressure-reducing hole
- 100% leakage tested 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
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



Dimensions may change without notice. Please see our website if they are critical.

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 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](http://www.P65Warnings.ca.gov)



# 316 SS MINI BALL VALVES

VALVES

## STAINLESS STEEL MIN BALL VALVES

- 316 Stainless Steel
- Working pressure 400PSI
- Working Temperature -10°C to 150°C



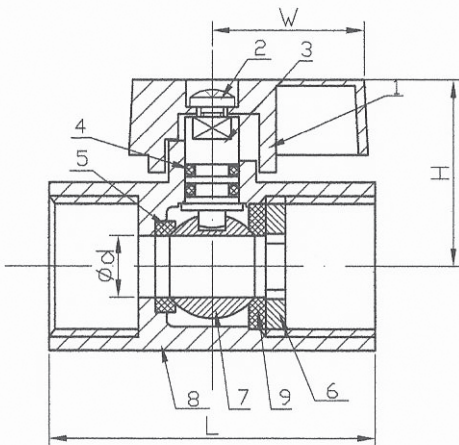
### FEMALE PIPE x FEMALE PIPE

PART#	SIZE	W	D	H	L	WEIGHT	CASE
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
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 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](http://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

Teflon seats and sealing

- Viton 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"×1/4"	0.314"	2.34"	22.1/0.87"	1.5"	0.33	36
46923SS	3/8"×3/8"	0.314"	2.39"	22.1/0.87"	1.5"	0.39	36
46924SS	1/2"×1/2"	0.314"	2.81"	24.9/0.98"	1.5"	0.43	36



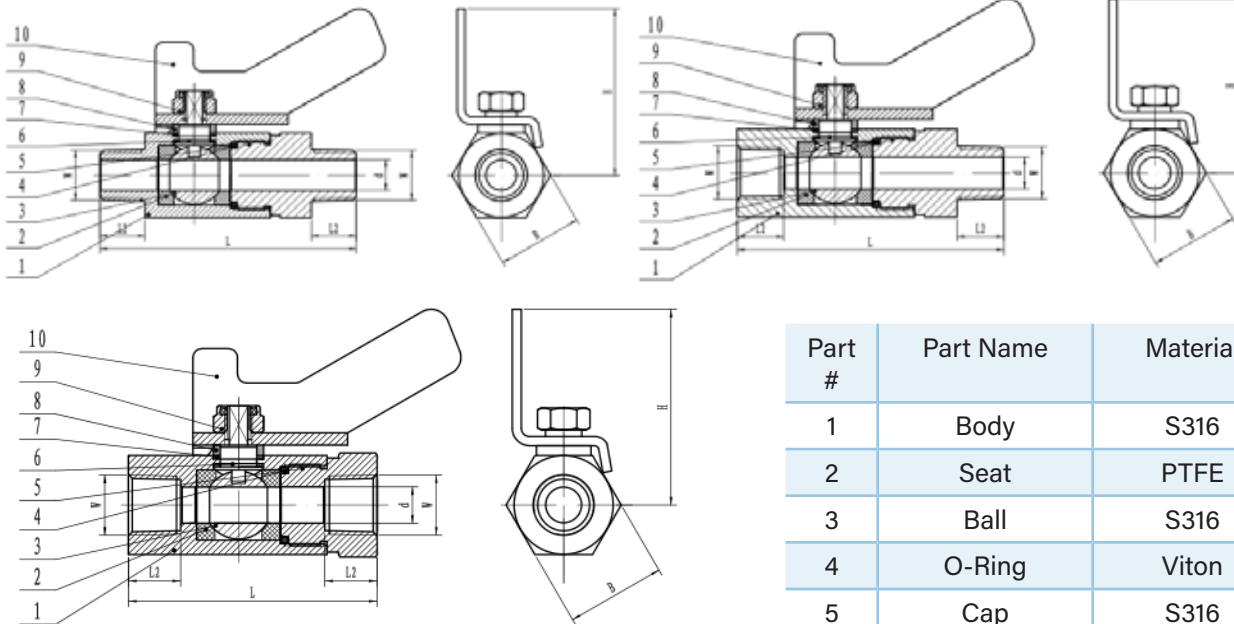
#### MALE PIPE X FEMALE PIPE

PART #	SIZE MIP X FIP	DIMENSIONS IN				WTG	BOX
		D	L	B (HEX)	H		
46903SS	1/4"×1/4"	0.314"	2.45"	0.87"	1.5"	0.39	36
46904SS	3/8"×3/8"	0.314"	2.45"	0.87"	1.5"	0.36	36
46905SS	1/2"×1/2"	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"×1/4"	0.314"	2.59"	0.87"	1.5"	0.33	36
46913SS	3/8"×3/8"	0.314"	2.65"	0.87"	1.5"	0.34	36
46914SS	1/2"×1/2"	0.314"	2.47"	0.98"	1.5"	0.63	36



Part #	Part Name	Material
1	Body	S316
2	Seat	PTFE
3	Ball	S316
4	O-Ring	Viton
5	Cap	S316
6	Stem	S316
7	Stem Bottom Seal	PTFE
8	Stem Up Seal	PTFE

**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](http://www.P65Warnings.ca.gov)

# 304 SS CHECK VALVES

VALVES

#304 STAINLESS STEEL

## CHECK VALVE

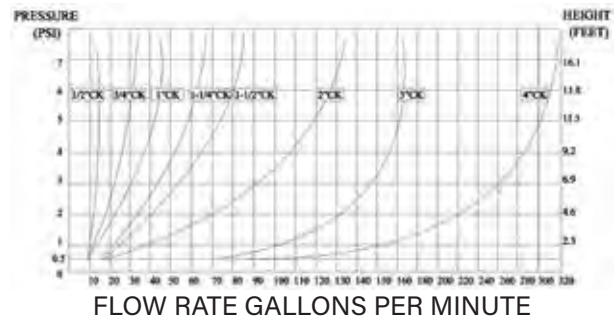
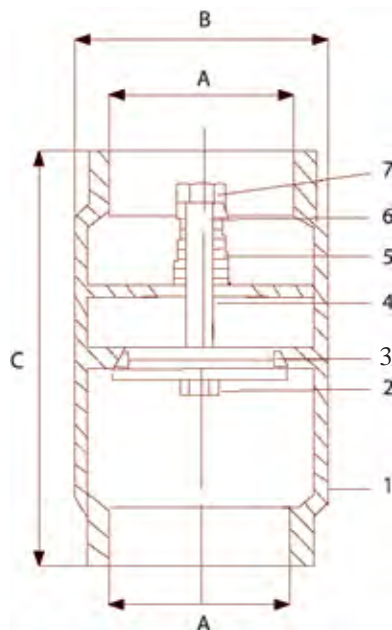
- No Lead.
- Water wells need a check valve installed above the pumps between lengths of drop pipes.
- Opens & Closes with flow of media.
- No cracking pressure.
- Working pressure unavailable.
- Made in Taiwan



### DIMENSIONS (INCHES)

PART#	SIZE	A NPT	B	C	BOX/CASE
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.



	Part	Material
1	Body	S.S 304
2	Stopper	S.S 304
3	O-Ring	Viton
4	Washer	PE
5	Spring	S.S 304
6	Cap	S.S 304
7	Nut	S.S 304

**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](http://www.P65Warnings.ca.gov)

VALVES

**SS IN-LINE CHECK VALVES**

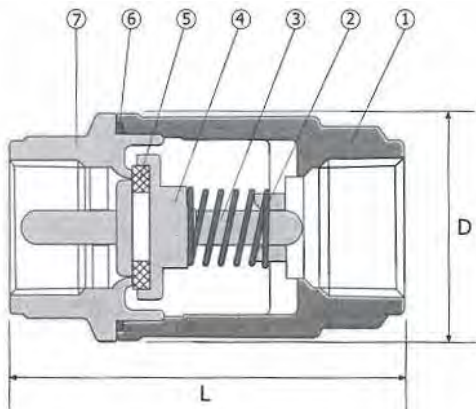
VALVES

**STAINLESS STEEL IN-LINE CHECK VALVE****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
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



	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 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](http://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



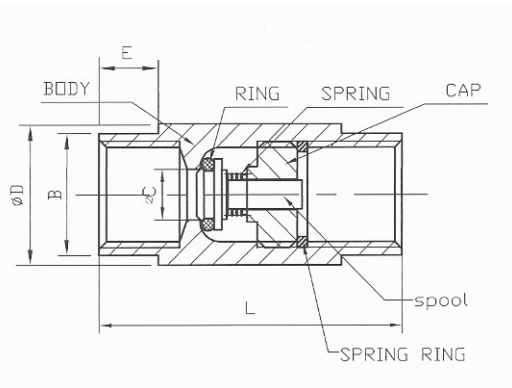
PART#	SIZE	L	C	D	B	E	LBS/PC	CASE
949451	1/4"	2.165	.217	.748	.699	.394	.19	200
949452	3/8"	2.165	.295	.866	.787	.394	.21	160
949453	1/2"	2.165	.413	1.063	.945	.472	.31	100
949454	3/4"	2.677	.591	1.417	1.26	.472	.71	60
949455	1"	3.268	.787	1.693	1.496	.591	1.14	36

## MALE PIPE x FEMALE PIPE



PART#	SIZE	L	C	D	B	E	LBS/PC	CASE
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
949475	1"	3.268	.787	1.693	1.496	.591	1.05	40

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



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING



**SS Y-SPRING/ BARREL CHECK VALVES**

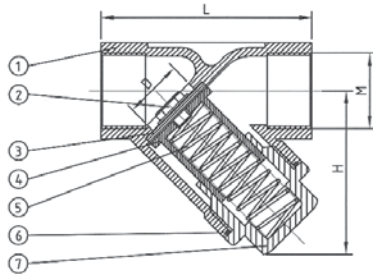
VALVES

**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
949481	1/4"	2.559	1.661	.472	.44	70
949482	3/8"	2.559	1.661	.472	.51	70
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



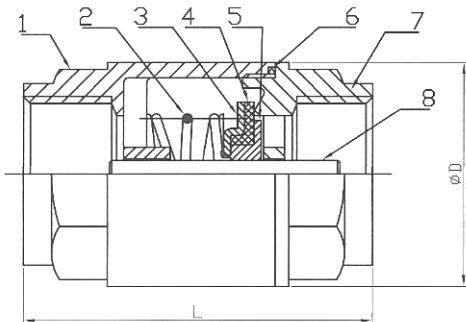
NO	Part	Material	QTY
1	BODY	CF8M/ CF8	1
2	BOLT	304	1
3	SEAT	Teflon	1
4	DISC	304	1
5	SPRING	304	1
6	GASKET	Teflon	1
7	CAP	CF8M/ CF8	1

**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
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

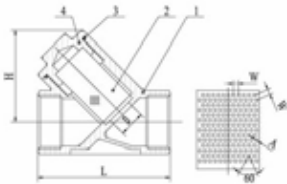
**WARNING:** This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# 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

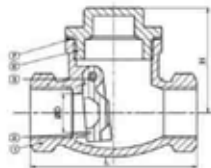
PART #	SIZE	D	L	H	W	ØA	LBS
949521	1/4"	.38"	2.53	51	1.69	1	0.44
949522	3/8"	.48"	2.53	51	1.69	1	0.38
949523	1/2"	.59"	2.53	51	1.76	1	0.46
949524	3/4"	.79"	3.12	60	2.07	1	0.69
949525	1"	.98"	3.57	72	2.67	1	1.27
949526	1-1/4"	1.26"	4.17	77	2.9	1	1.74
949527	1-1/2"	1.57"	4.71	87	3.23	1	2.38
949528	2"	1.96"	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
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

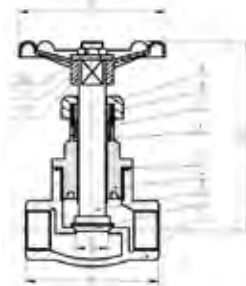
CF8 = 304SS

### 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



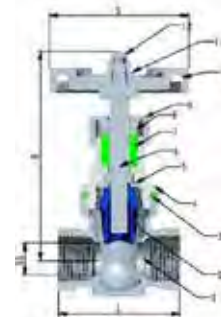
PART #	SIZE	L	LBS
949303	1/2	2.64	0.89
949304	3/4	3.19	1.3
949305	1	3.46	1.72
949306	1-1/4	3.81	2.33
949307	1-1/2	4.25	3.11
949308	2	5.1	4.38

### 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



PART #	SIZE	L	D	D1	H	LBS
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 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](http://www.P65Warnings.ca.gov)

**CARBON STEEL BALL VALVES**

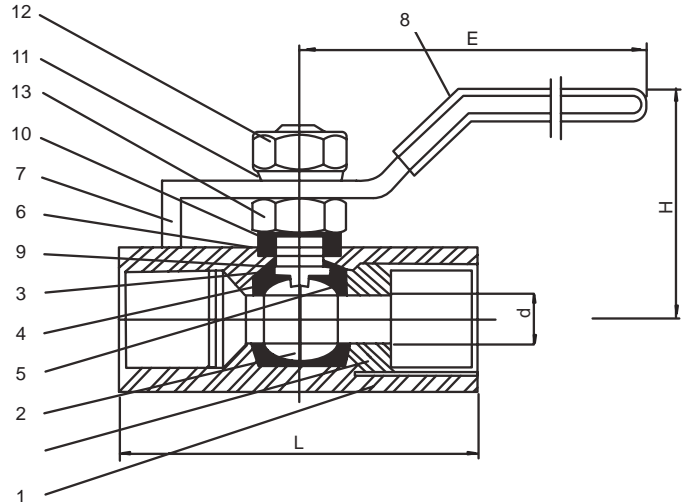
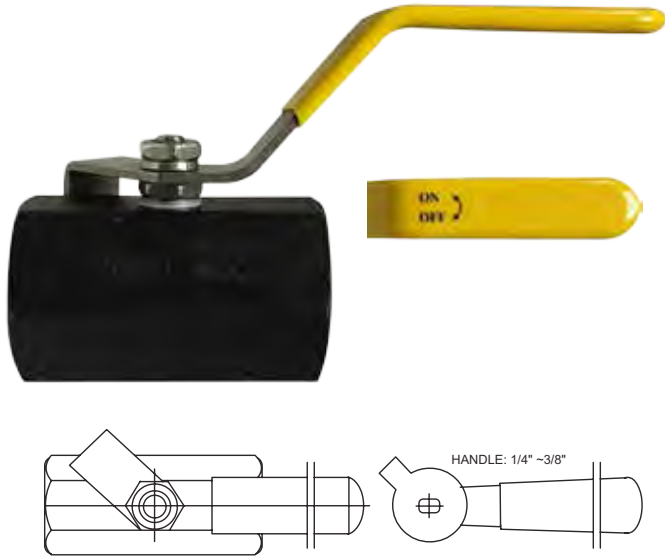
## VALVES

**STANDARD PORT CARBON STEEL BALL VALVE**

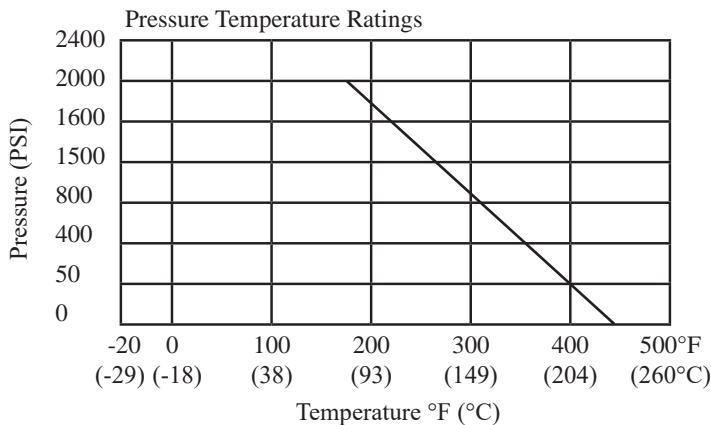
- For chemical and industrial applications.
- Blow-out proof stem design.
- 100% air tested under water, at 100 psi, open and closed positions.
- Made in China
- Generic handles

**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
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 Cobalt, which are known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



# CARBON STEEL FULL PORT BALL VALVES

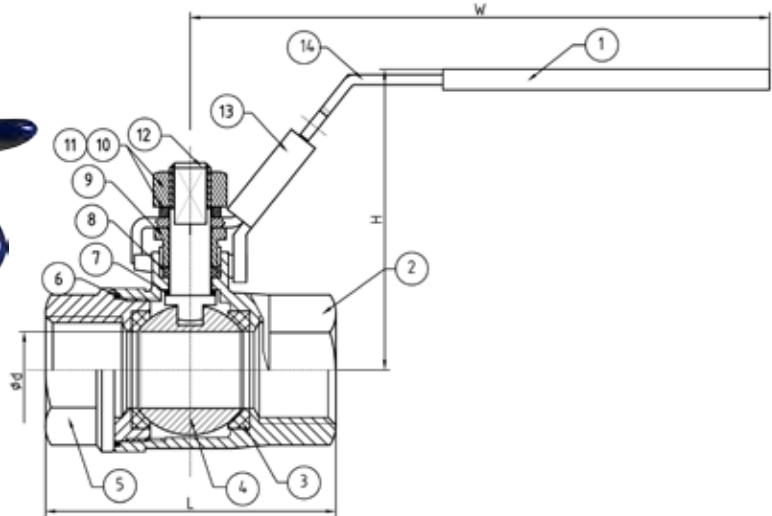
VALVES

## 2000 PSI CARBON STEEL 2PC FULL PORT BALL VALVE

• 2 PIECE

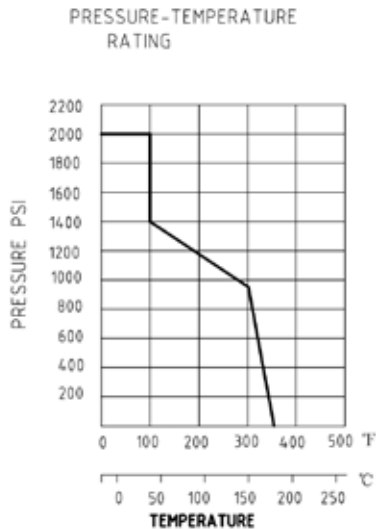
### SPECIFICATIONS

- 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
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



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 Cobalt, which are known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

VALVES

# HIGH PRESSURE FULL PORT 2-WAY VALVES

## VALVES

### FULL PORT Two-Way



BKH

PART #	THREAD	WORKING PRESSURE
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

PART #	THREAD	WORKING PRESSURE
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
GB220TSAE+	1-5/8-12 UNF	5000 PSI
GB224TSAE+	1-7/8-12 UNF	5000 PSI

\* Reduced Port  
+ 'L' flow pattern  
Temp Rating = -22° - 212°F

**Construction:** Steel Body, Ball, Stem  
Zinc Chromate Plate  
Buna "O" Rings (Viton on request)  
Delrin Ball Seats

### FULL PORT Three-Way



BK3

PART #	THREAD	WORKING PRESSURE
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
GE3L114TNPT	1 1/4" NPT	4500 PSI
GE3L112TNPT	1 1/2" NPT	4500 PSI

PART #	THREAD	WORKING PRESSURE
GE3L04SAE	7/16-20 UNF	5880 PSI
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
GB3L20TSAE+	1-5/8-12 UNF	4500 PSI
GB3L24TSAE+	1-7/8-12 UNF	4500 PSI

+ 'L' flow pattern  
Temp Rating = -22° - 212°F

**Construction:** Steel Body, Ball, Stem  
Zinc Chromate Plate  
Buna "O" Rings (Viton on request)  
Delrin Ball Seats

**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](http://www.P65Warnings.ca.gov)



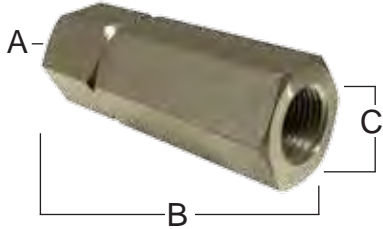


# HIGH PRESSURE CHECK VALVES

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
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
100105	1-1/4 NPT	5.56	2.40	50	3,000
100125	1-1/2 NPT	5.56	2.56	60	3,000

## CHECK VALVES - HARD SEAT CARBON STEEL CONSTRUCTION - 65lb Cracking Pressure



PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI
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
1001065	1-1/4NPT	5.20	2.41	50	3,000
1001265	1-1/2NPT	5.20	2.56	60	3,000

## CHECK VALVES - 5lb Cracking Pressure

• w/ SAE threads



PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI
100145	7/16-20 SAE	2.56	.87	6	5,000
100165	9/16-18 SAE	2.91	.94	10	5,000
100185	3/4-16 SAE	3.74	1.18	18	5,000
1001125	1-1/6-12 SAE	4.29	1.50	30	3,000
1001165	1-5/16-12 SAE	5.00	1.81	36	3,000
1001205	1-5/8-12 SAE	5.20	2.41	50	3,000
1001245	1-7/8-12 SAE	5.20	2.56	60	3,000

## CHECK VALVES - 65lb Cracking Pressure

• w/ SAE threads



PART #	A SIZE	B INCHES	C INCHES	RATED FLOW GPM	PSI
1001465	7/16-20 SAE	2.56	.87	6	5,000
1001665	9/16-18 SAE	2.91	.94	10	5,000
1001865	3/4-16 SAE	3.74	1.18	18	5,000
10011265	1-1/6-12 SAE	4.29	1.50	30	3,000
10011665	1-5/16-12 SAE	5.00	1.81	36	3,000
10012065	1-5/8-12 SAE	5.20	2.41	50	3,000
10012465	1-7/8-12 SAE	5.20	2.56	60	3,000

**Rated Pressure: Sizes 2 thru 8 - 5000 psi / Sizes 10 thru 24 - 3000 psi**

• Soft Seat available by special quote



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

**PVC VALVES**

## VALVES

- 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
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
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

I CAN'T CHANGE THE DIRECTION OF THE WIND, BUT I CAN ADJUST MY SAILS TO ALWAYS REACH MY DESTINATION.

- JIMMY DEAN

**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
899000	1/2"	100
899001	3/4"	100
899002	1"	100
899003	1-1/4"	100
899004	1-1/2"	48
899005	2"	24

**SLIP X SLIP BALL VALVE**

PART #	SIZE	CASE
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 BALL VALVE**

PART #	SIZE
940281	1/2"
940282	3/4"

**WARNING:** This product can expose you to chemicals, including Chloroethane, which are known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)



# PLASTIC VALVES

## VALVES

### INLINE PLASTIC SPRING CHECK VALVE

Socket x Socket

- 200 PSI working pressure @ 77°F .5 PSI to open.



PART#	SIZE
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
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

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
46277	3/4"

### DRUM & BARREL FAUCET VALVE

- Die cast body w/ nylon seat and steel spring.
- For use with all petroleum products except trichlorethylene.

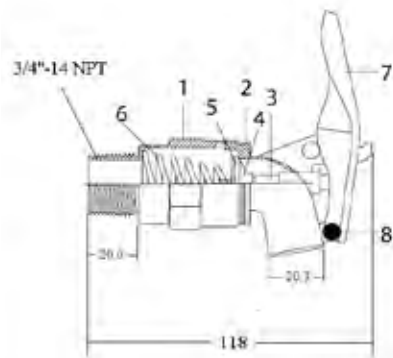


G261N

Not suitable for potable water

#### SELF-CLOSING DRUM & BARREL FAUCET

PART #	SIZE
46270	3/4"



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

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**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

DUCTILE IRON THREADED FLAT FACED COMPANAION FLANGES



LF WATER METER FLANGES, FLANGE KITS AND LF METER COUPLINGS



# 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:ANSI B16.5 125LB/150LB
- 4.INSPECTION & TEST:API 598

### TOP FLANGE DIMENSIONS

SIZE	4- d2
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:ANSI B16.5 125LB/150LB
- 4.INSPECTION & TEST:API 598



### TOP FLANGE DIMENSIONS

SIZE	ISO5211	K	E	4- D2
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
9650G86	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"

# 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

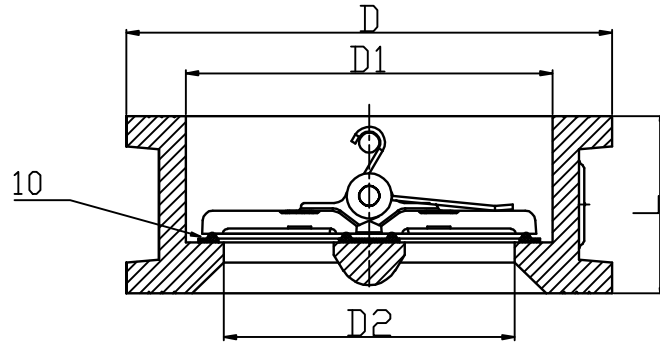


PART#	REPLACEMENT GEAR OPERATOR
9650G23	2-3 9650 BFV
9650G46	4-6 9650 BFV
9650G812	8-10 9650BFV
9650G120	12 - 9650BFV

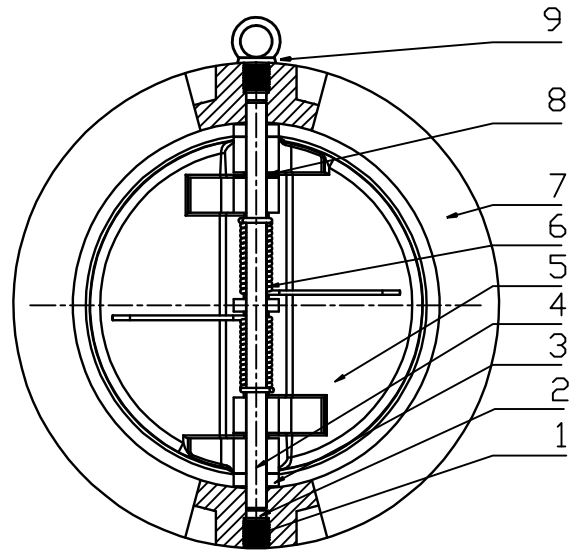
# DUCTILE IRON CHECK VALVES

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 Iron ASTM 65-45-12



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



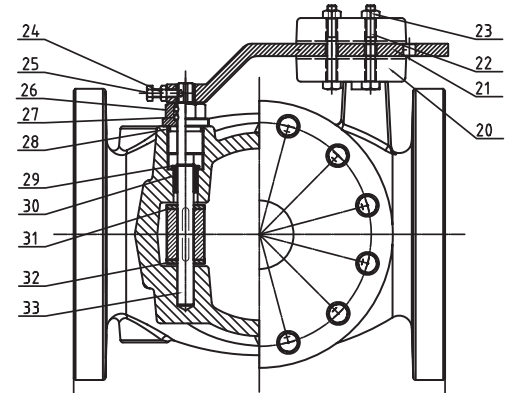
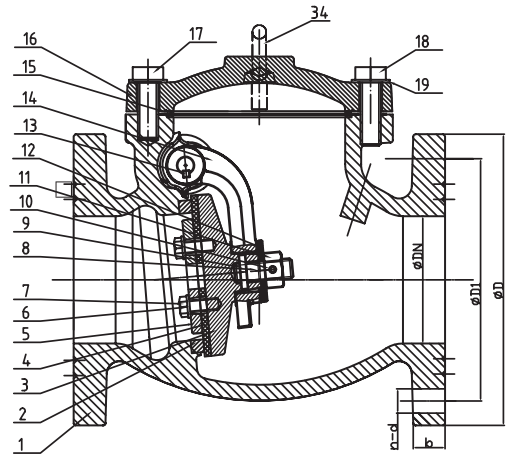
VIEW PRICING AND AVAILABLE STOCK ONLINE

# 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

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



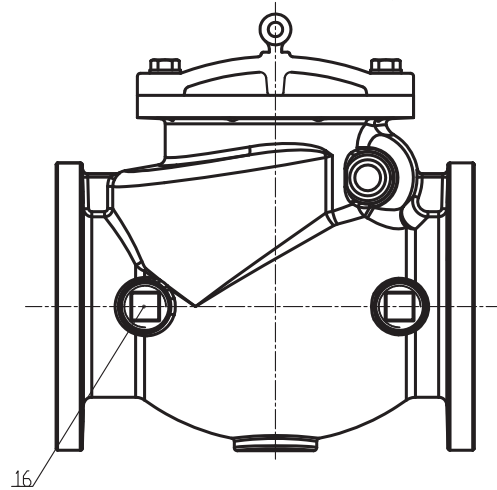
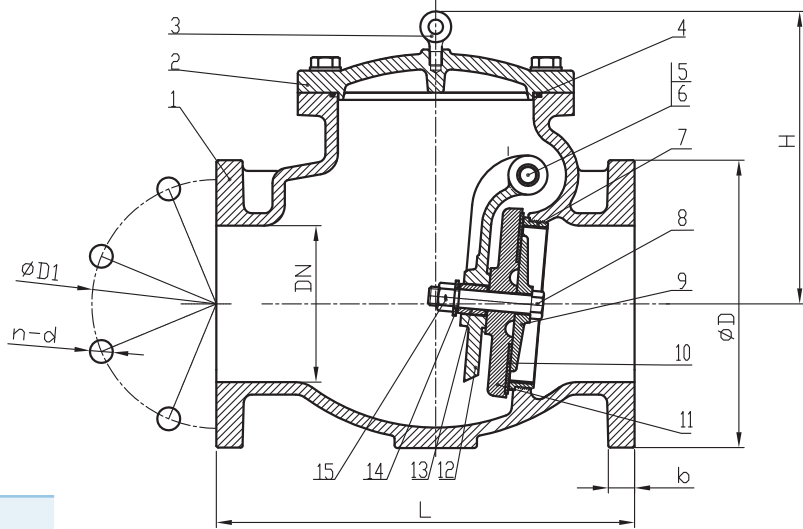
PART#	SIZE	CASE	WEIGHT
96203LW	3	16	57
96204LW	4	12	84
96206LW	6	6	156
96208LW	8	4	294
962010LW	10	2	466
962012LW	12	2	627

## UL/FM FLANGED SWING CHECK VALVE

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

**DUCTILE IRON CHECK VALVES**

VALVES

**AWWA C508 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

**MAIN DIMENSIONS**

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



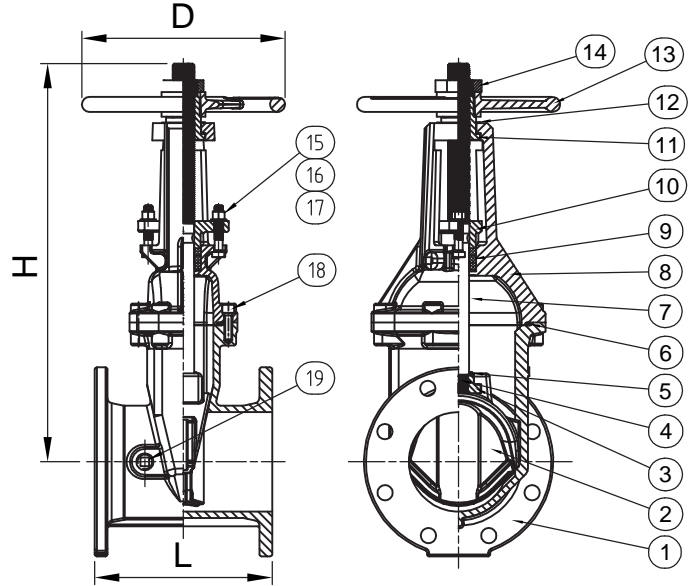
GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS



# DUCTILE IRON GATE VALVES

VALVES

## 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

COMPLIES WITH NEW YORK AND CHICAGO REQUIREMENTS.

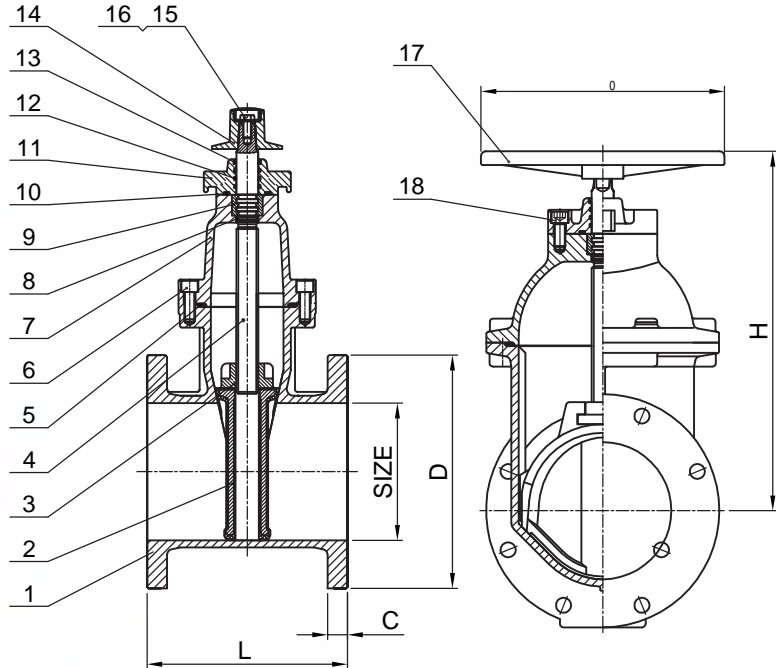
	DESCRIPTION	MATERIAL	ASTM SPEC.
1	Body	Ductile Iron	A536 65-45-12
2	Wedge	Ductile Iron, EPDM Encapsulated	A536 65-45-12
3	Wedge Nut	Stainless Steel	A276 Type 304SS
4	Pin	Stainless Steel	A276 Type 420SS
5	O-Ring	Rubber	D2000 NBR
6	Gasket	Rubber	D2000 NBR
7	Stem	Stainless Steel	A276 Type 304SS
8	Bonnet	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

### 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"

**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

CHANGE YOUR THOUGHTS AND YOU  
CHANGE YOUR WORLD.

- NORMAN VINCENT PEALE

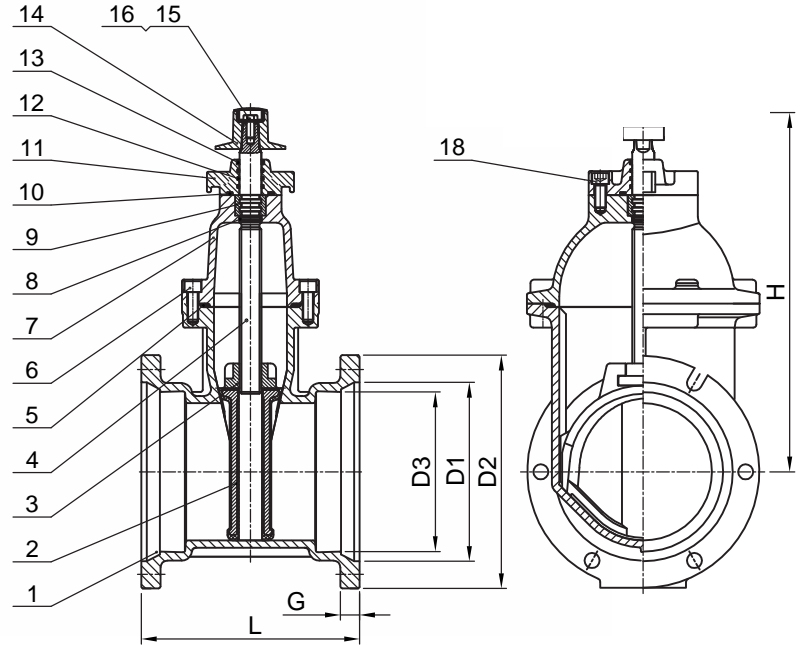
**MAIN DIMENSIONS**

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"

# DUCTILE IRON GATE VALVES

VALVES

## AWWA C515-15 NRS RESILIENT SEATED GATE VALVE MJ × 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

\*STANDARD CONFIG IS OP NUT ONLY

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

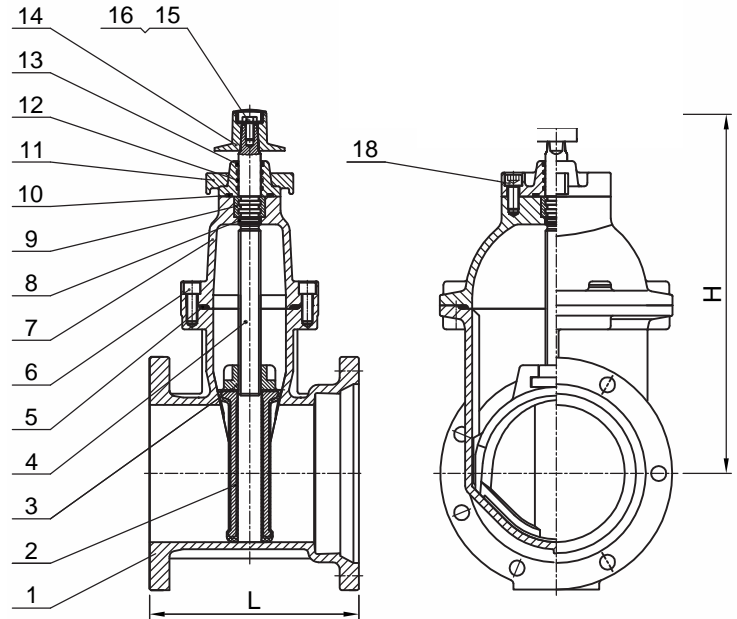
If you always put limit on everything you do, physical or anything else. It will spread into your work and into your life. There are no limits. There are only plateaus, and you must not stay there, you must go beyond them.

- Bruce Lee

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"

**DUCTILE IRON GATE VALVES**

VALVES

**NRS RESILIENT SEATED GATE VALVE****FL × 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

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

\*STANDARD CONFIG IS OP NUT ONLY

**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"

# BLACK AND GALVANIZED COMPANION FLANGES

VALVES

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 B1.20.1

\*APPLICATION: WATERWORKS, 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



# BLACK AND GALVANIZED COMPANION FLANGES

VALVES

## THREADED COMPANION FLANGE CLASS 150 (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 B1.20.1

\*APPLICATION: WATERWORKS, PUMP, IRRIGATION

### BLACK

PART #	DESCRIPTION (DI FLANGE)	SIZE (INCH)	A (INCH)	B (INCH)	C (INCH)	D (INCH)	BOLT HOLE SIZE	NO. OF HOLES	UNIT WEIGHT (KG)
108075	2 1/2X7 1/2 150 (Pipe Size 2-1/2 x 3)	2" X7-1/2"	7.50	6.00	0.75	1.19	φ0.75	4	4.3827
108076	1 1/2X9 150 (Pipe Size 1-1/2 x 4)	2-1/2"X7-1/2"	7.50	6.00	0.75	1.19	φ0.75	4	4.2013
108077	2 X9 150 (Pipe Size 2 x 4)	1-1/2"X9"	9.00	7.50	0.94	1.31	φ0.75	8	6.8352
108088	2 1/2X9 150 (Pipe Size 2-1/2 x 4)	2"X9"	9.00	7.50	0.94	1.31	φ0.75	8	6.4168
108089	3 X9 150 (Pipe Size 3 x 4)	2-1/2"X9"	9.00	7.50	0.94	1.31	φ0.75	8	6.3343
108090	2X10 150 (Pipe Size 2 x 5)	3"X9"	9.00	7.50	0.94	1.31	φ0.75	8	6.081
108091	1 1/2 X11 150 (Pipe Size 1 1/2 x 6)	4"X10"	10.00	8.50	0.94	1.44	φ0.875	8	6.8761
108094	2 1/2X11 150 (Pipe Size 2-1/2 x 6)	2"X11"	11.00	9.50	1.00	1.56	φ0.875	8	10.6349
108095	4 X11 150 (Pipe Size 4 x 6)	3"X11"	11.00	9.50	1.00	1.56	φ0.875	8	10.1831
108092	5 X11 150 (Pipe Size 5 x 6)	4"X11"	11.00	9.50	1.00	1.56	φ0.875	8	9.4563
108096	5 X13 1/2 150 (Pipe Size 5 x 8)	4" X13-1/2"	13.50	11.75	1.12	1.75	φ0.875	8	17.1296
108097	2 X16 150 R (Pipe Size 2 x 10)	6"X 13-1/2"	13.50	11.75	1.12	1.75	φ0.875	8	15.2184
108098	6 X16 150 R (Pipe Size 6 x 10)	2"X16"	16.00	14.25	1.19	1.94	φ1	12	26.54

### GALVANIZED

108033	1 1/2X9 150 (Pipe Size 1-1/2 x 4)	2-1/2"X7-1/2"	7.50	6.00	0.75	1.19	φ0.75	4	4.2013
108035	3 X9 150 (Pipe Size 3 x 4)	2-1/2"X9"	9.00	7.50	0.94	1.31	φ0.75	8	6.3343
108036	2X10 150 (Pipe Size 2 x 5)	3"X9"	9.00	7.50	0.94	1.31	φ0.75	8	6.081
108038	2 1/2X11 150 (Pipe Size 2-1/2 x 6)	2"X11"	11.00	9.50	1.00	1.56	φ0.875	8	10.6349
108039	3 X11 150 (Pipe Size 3 x 6)	2-1/2"X11"	11.00	9.50	1.00	1.56	φ0.875	8	10.5386
108037	5 X11 150 (Pipe Size 5 x 6)	4"X11"	11.00	9.50	1.00	1.56	φ0.875	8	9.4563
108040	5 X13 1/2 150 (Pipe Size 5 x 8)	4" X13-1/2"	13.50	11.75	1.12	1.75	φ0.875	8	17.1296

# WATER METER FLANGES

VALVES

VALVES

## LEAD FREE OVAL WATER METER FLANGE OVAL



PART#	SIZE	CASE	
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

PART#	SIZE	CASE	
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	
970217	1-1/2"	12	
970218	2"	10	

## LEAD FREE BRASS METER COUPLING



PART#	SIZE	CASE	
970253	1/2"	100	
970254	3/4"	100	
970255	1"	80	
970257	1-1/2"	24	
970258	2"	24	

# NIPPLES

NIPPLES AND FITTINGS

## NIPPLES & FITTINGS



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If you don't see what you're looking for, visit [www.midlandindustries.com](http://www.midlandindustries.com)

- Many malleable fittings not listed in the catalog
- Aluminum nipples and fittings
- Tank accessories - duplex tank bushings, double tapped bushings and vent caps
- Sch 40 seamless steel nipples
- Many odd sizes of nipples and fittings not listed in catalog

# 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.

**PRICING FILE AVAILABLE ONLINE**

- 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 SCH 80 BRASS  
NIPPLES - EXTRA HEAVY

**STANDARD RED BRASS 85%  
PIPE WITH THREADED ENDS SPECIFICATIONS:**

Pipe Size in Inches	Dimension in Inches			Allowable Pressure POUNDS PER SQUARE INCH				
	O.D.	I.D.	Wall Thickness	Standard Size (Inches)	@ 100° F	@ 200° F	@ 300° F	@ 400° F
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

**LEAD  
FREE**



# SCH 40 SEAMLESS

NIPPLES AND FITTINGS

113RB



1/8" - 27



## 1/8" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
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
40018	x 14"	1/1	0.29
40019	x 16"	1/1	0.34



1/4"-18



## 1/4" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
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
40033	x 9"	25/200	0.33
40034	x 10"	25/200	0.36
40035	x 11"	25/200	0.40
40036	x 12"	25/200	0.43

 See page 7 for Yellow Brass Nipples



# SCH 40 SEAMLESS

NIPPLES AND FITTINGS



LEAD  
FREE

3/8"-18

## 3/8" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
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
40053	x 9"	25/150	0.47
40054	x 10"	25/100	0.52
40055	x 11"	25/100	0.57
40056	x 12"	25/100	0.62

113RB



LEAD  
FREE

1/2" - 14

## 1/2" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
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



HELP US HELP YOU! [GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE](#) SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

# SCH 40 SEAMLESS

NIPPLES AND FITTINGS

NIPPLES & FITTINGS



3/4" - 14

## 3/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.
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



1" - 11 1/2

## 1" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.
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

# SCH 40 SEAMLESS

NIPPLES AND FITTINGS



LEAD  
FREE

1 1/4" - 11 1/2"

## 1-1/4" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.
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
40130	x 7"	25/50	1.56
40131	x 8"	25/50	1.78
40132	x 9"	25/50	2.00
40133	x 10"	25/50	2.22
40134	x 11"	25/50	2.45
40135	x 12"	25/50	2.67
40136	x 18"	1/1	4.00

113RB



LEAD  
FREE

1-1/2" - 11 1/2"

## 1-1/2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.
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
40150	x 7"	20/40	1.85
40151	x 8"	20/40	2.12
40152	x 9"	20/40	2.38
40153	x 10"	20/40	2.65
40154	x 11"	1/40	2.91
40155	x 12"	1/15	3.18
40156	x 18"	1/1	4.77



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

# SCH 40 SEAMLESS

NIPPLES AND FITTINGS

NIPPLES & FITTINGS



LEAD  
FREE

2" - 11 1/2

## 2" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.
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
40173	x 11"	1/18	3.77
40174	x 12"	1/14	4.12
40175	x 18"	1/1	6.18
40176	x 24"	1/1	8.24
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.
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

We know what we are, but know not what we may be.

- William Shakespeare

See our Valve section for 2-1/2, 3 and 4" Valves

# SCH 40 SEAMLESS

NIPPLES AND FITTINGS



**LEAD  
FREE**

## 3" DIAMETER SCH 40 SEAMLESS

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.
40200	Close ( 2-5/8" )	1/24	1.89
40201	x 3"	1/20	2.16
40202	x 3-1/2"	1/18	2.52
40203	x 4"	1/18	2.88
40204	x 4-1/2"	1/18	3.24
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
40213	x 12"	1/1	

113RB



**LEAD  
FREE**

## 4" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
40220	Close ( 2-7/8 )	1/20	2.40
40221	x 3"	1/10	2.72
40222	x 3-1/2"	1/10	3.18
40223	x 4"	1/10	3.71
40224	x 4-1/2"	1/5	4.24
40225	x 5"	1/5	4.77
40226	x 5-1/2"	1/5	5.30
40234	x 6"	1/5	6.36



**LEAD  
FREE**

## 6" DIAMETER SCH 40 SEAMLESS

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
40254	Close	1/1	4.94
40256	x 4"	1/1	6.54
40259	x 4-1/2"	1/1	7.12
40260	x 5"	1/1	7.91
40261	x 6"	1/1	9.49



# CHROME PLATED

## NIPPLES AND FITTINGS

113CP



**LEAD FREE**

### 3/8" DIAMETER CHROME PLATED

Part #	Size	Box/Case	Approx. Wt. Lbs.
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
41049	x 5-1/2"	5/25	0.29
41050	x 6"	5/25	0.31



**LEAD FREE**

### 1/2" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
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
41074	x 10"	1/1	0.78



**LEAD FREE**

81300-12

### 3/4" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
41080	Close (1- 3/8" )	25/400	0.15
41081	x 1-1/2"	25/400	0.16
41082	x 2"	25/300	0.21
41083	x 2-1/2"	25/300	0.27
41084	x 3"	25/200	0.32
41085	x 3-1/2"	25/200	0.37
41086	x 4"	25/150	0.43
41087	x 4-1/2"	25/150	0.48
41088	x 5"	25/100	0.53
41089	x 5-1/2"	25/100	0.59
41090	x 6"	25/100	0.64



**LEAD FREE**

81300-16

### 1" DIAMETER CHROME PLATED

PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
41100	Close ( 1-1/2" )	25/200	0.23
41101	x 2"	25/200	0.30
41102	x 2-1/2"	25/150	0.38
41103	x 3"	25/150	0.45
41104	x 3-1/2"	25/100	0.53
41105	x 4"	25/100	0.60
41106	x 4-1/2"	25/100	0.68
41107	x 5"	25/75	0.75
41108	x 5-1/2"	25/75	0.83
41109	x 6"	25/50	0.94

**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](http://www.P65Warnings.ca.gov)



# BRONZE FITTINGS

NIPPLES AND FITTINGS

## 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

PRICING FILE AVAILABLE ONLINE

- UL/ FM Approved
- ISO 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

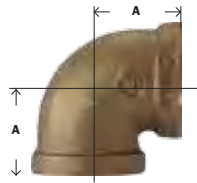


- Approved to ANSI/NSF 61-4 California AB 1953
- Meets Federal State Drinking Water Act, Lead Free Requirement
- Brass fittings conform to AWWA C800
- Brass castings conform to ASTM B584, UNS Alloy C8933
- Brass fittings dimensions conform to ASME B16.15
- NPT threads on all fittings conform to ASME B1.20.1
- Brass unions conform to specification A-A-59617
- Manufacturing facilities are ISO 9001:2008

PRICING FILE AVAILABLE ONLINE

# BRONZE/ LEAD FREE BRONZE

## NIPPLES AND FITTINGS



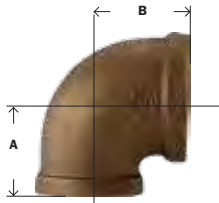
100RB

738100



### 90° ELBOWS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #	
44100	0.08	50/600	1/8"	0.55	0.06	44-100LF	----
44101	0.12	35/420	1/4"	0.72	0.10	44-101LF	----
44102	0.17	90/360	3/8"	0.83	0.15	44-102LF	----
44103	0.24	50/200	1/2"	1.03	0.25	44-103LF	----
44104	0.34	35/105	3/4"	1.19	0.41	44-104LF	----
44105	0.61	20/60	1"	1.43	0.69	44-105LF	----
44106	0.95	20/40	1-1/4"	1.71	1.02	44-106LF	----
44107	1.30	15/30	1-1/2"	1.87	1.36	44-107LF	----
44108	2.07	8/16	2"	2.14	2.14	44-108LF	----
44109	3.80	1/12	2-1/2"	2.74	3.79	44-109LF	----
44110	4.76	1/4	3"	3.10	5.21	44-110LF	----
44112	9.71	1/2	4"	3.80	8.59	44-112LF	----



100RRB

738105



### 90° REDUCING ELBOWS

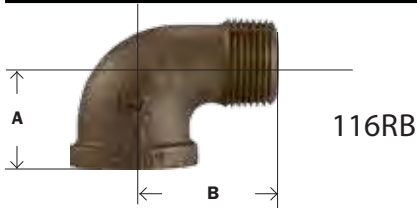
PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	B	APPROX. WT. LBS.	PART #
44120			1/4 x 1/8				44120LF
			3/8 x 1/8				44121LF
44122			3/8 x 1/4				44122LF
44123	0.44	60/240	1/2 x 1/4	0.93	0.90	0.19	44123LF
44124	0.58	60/240	1/2 x 3/8	0.93	0.90	0.22	44124LF
44125	0.80	40/160	3/4 x 1/4	1.08	1.11	0.31	44125LF
			3/4 x 3/8				44126LF
44127			3/4 x 1/2				44127LF
			1 x 1/4				44128LF
			1 x 3/8				44129LF
			1 x 1/2				44130LF
44131	1.07	50/100	1 x 3/4	1.30	1.31	0.56	44131LF
			1 1/4 x 1/2				44132LF
			1 1/4 x 3/4				44133LF
44134	0.80	25/50	1 1/4 x 1	1.52	1.60	0.81	44134LF
			1 1/2 x 1/2				44135LF
			1 1/2 x 3/4				44136LF
44137	1.07	10/40	1 1/2 x 1	1.56	1.72	1.02	44137LF
			1 1/2 x 1 1/4				44138LF
44140			2 x 1				44140LF
			2 x 1 1/4				44141LF
			2 x 1 1/2				44142LF
			2 1/2 x 2				44146LF
			3 x 2				44150LF

• Other sizes available online

**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](http://www.P65Warnings.ca.gov)

# BRONZE/ LEAD FREE BRONZE

## NIPPLES AND FITTINGS

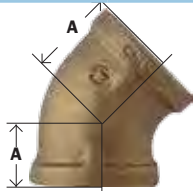


738116



### 90° STREET ELLS

PART #	APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #
44160	0.07	60/720	1/8"	0.55	0.92	0.06	44160LF
44161	0.11	35/420	1/4"	0.72	1.11	0.11	44161LF
44162	0.18	60/240	3/8"	0.83	1.24	0.16	44162LF
44163	0.24	60/180	1/2"	1.03	1.51	0.24	44163LF
44164	0.37	35/105	3/4"	1.19	1.66	0.38	44164LF
44165	0.67	45/90	1"	1.43	1.98	0.66	44165LF
44166	1.00	25/50	1-1/4"	1.71	2.26	0.99	44166LF
44167	1.37	9/27	1-1/2"	1.87	2.46	1.15	44167LF
44168	1.93	8/16	2"	2.14	2.98	2.07	44168LF
44169	4.05	5/10	2-1/2"	2.74	3.92	3.79	44169LF
44170	6.16	1/8	3"	3.10	4.45	6.38	44170LF



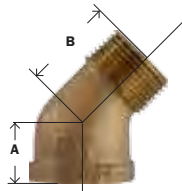
10045RB

738107



### 45° ELBOWS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #
44180	0.08	50/600	1/8"	0.43	0.05	44180LF
44181	0.13	30/360	1/4"	0.55	0.09	44181LF
44182	0.17	75/300	3/8"	0.63	0.14	44182LF
44183	0.21	50/200	1/2"	0.79	0.19	44183LF
44184	0.32	40/120	3/4"	0.91	0.36	44184LF
44185	0.52	20/60	1"	1.07	0.59	44185LF
44186	0.86	20/40	1-1/4"	1.23	0.87	44186LF
44187	1.10	10/30	1-1/2"	1.31	1.13	44187LF
44188	1.71	12/24	2"	1.47	1.65	44188LF
44189	3.24	1/12	2-1/2"	1.95	2.69	44189LF
44190	4.12	1/10	3"	2.17	3.68	44190LF
			4"	2.60	7.49	44191LF



124RB

738124

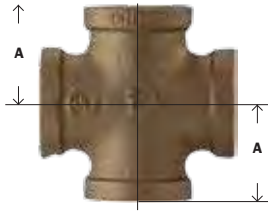


### 45° STREET ELBOWS

PART #	APPROX. WT. LBS.	BOX/ CASE	SIZE	A	B	APPROX. WT. LBS.	PART #
44200	0.06	70/840	1/8"	0.26	0.43	0.06	
44201	0.11	100/400	1/4"	0.35	0.56	0.09	44201LF
44202	0.13	100/400	3/8"	0.37	0.63	0.12	44202LF
44203	0.18	75/225	1/2"	0.45	0.79	0.22	44203LF
44204	0.28	40/120	3/4"	0.52	0.91	0.31	44204LF
44205	0.52	25/75	1"	0.60	1.07	0.52	44205LF
44206	0.77	10/40	1-1/4"	0.67	1.23	0.72	44206LF
44207	0.97	10/30	1-1/2"	0.70	1.31	1.05	44207LF
44208	2.04	12/24	2"	0.76	1.47	2.04	44208LF

# BRONZE/ LEAD FREE BRONZE

## NIPPLES AND FITTINGS



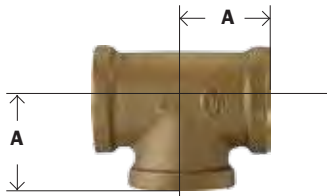
102RB

738102



### CROSSES

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #
44391		0.20	60/240	1/4"	0.72	0.15	44391LF
44392		0.15	50/150	3/8"	0.83	0.25	44392LF
44393		0.45	30/90	1/2"	1.03	0.38	44393LF
44394		0.76	20/60	3/4"	1.19	0.59	44394LF
44395		1.04	15/30	1"	1.19	0.94	44395LF
44396		1.63	10/20	1-1/4"	1.71	1.43	44396LF
44397		2.10	8/16	1-1/2"	1.87	1.89	44397LF
44398		3.28	5/10	2"	2.14	2.95	44398LF



101RB



### TEES

PART #		APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #
44-250	----	0.11	120/480	1/8"	0.55	0.09	44250LF
44-251	----	0.17	75/300	1/4"	0.72	0.13	44251LF
44-252	----	0.25	45/180	3/8"	0.83	0.21	44252LF
44-253	----	0.31	40/120	1/2"	1.03	0.35	44253LF
44-254	----	0.50	35/70	3/4"	1.19	0.55	44254LF
44-255	----	0.85	20/40	1"	1.43	0.92	44255LF
44-256	----	1.29	14/28	1-1/4"	1.71	1.34	44256LF
44-257	----	1.68	12/24	1-1/2"	1.87	1.82	44257LF
44-258	----	2.70	8/16	2"	2.14	2.80	44258LF
44-259	----	5.14	1/6	2-1/2"	2.74	4.70	44259LF
44-260	----	7.59	1/6	3"	3.10	6.69	44260LF
				4"	3.18	11.92	44261LF



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

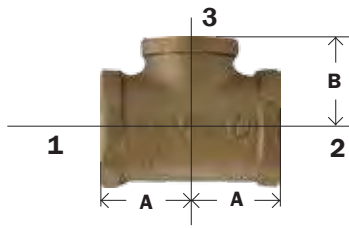
**WARNING:** This product can expose you to chemicals, including Nickel, which are known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)





# BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



101RRB

738106



## REDUCING TEES REDUCING ON THE BRANCH

PART #		APPROX. WT. LBS.	BOX/ CASE	SIZE 1 X 2 X 3	A	B	APPROX. WT. LBS.	PART #
				1/4 x 1/4 x 1/8				44270LF
				3/8 x 3/8 x 1/4				44273LF
44-276	----	0.24	40/160	1/2 x 1/2 x 1/4	0.87	0.87	0.28	44276LF
				1/2 x 1/2 x 3/8				44279LF
44-280	----	0.46	40/160	1/2 x 1/2 x 3/4	2.42	1.155	0.48	44280LF
44-287				3/4 x 1/2 x 1/2				44287LF
				3/4 x 1/2 x 3/4				44288LF
44-282	----	0.43	25/100	3/4 x 3/4 x 1/4	1.05	1.08	0.38	44282LF
44-283	----	0.45	25/100	3/4 x 3/4 x 3/8	1.00	1.00	0.46	44283LF
44-286	----	0.53	20/80	3/4 x 3/4 x 1/2	1.08	1.11	0.40	44286LF
				3/4 x 3/4 x 1				44288LF
				1 x 1/2 x 1/2				44292LF
				1 x 1/2 x 3/4				44293LF
44-296				1 x 3/4 x 3/4				44296LF
				1 x 1 x 1/4				44268LF
				1 x 1 x 3/8				44290LF
44-291	----	0.60	15/60	1 x 1 x 1/2	1.20	1.24	0.73	44291LF
44-298	----	0.80	12/48	1 x 1 x 3/4	1.30	1.31	0.71	44298LF
				1 1/4 x 1/2 x 1 1/4				44314LF
44-301	----	0.85	20/40	1 1/4 x 1 1/4 x 1/2	1.34	1.53	1.18	44301LF
44-303	----	0.90	20/40	1 1/4 x 1 1/4 x 3/4	1.30	1.31	1.08	44303LF
44-306	----	1.21	20/40	1 1/4 x 1 1/4 x 1	1.58	1.67	1.23	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			1.88	44330LF
				2 x 2 x 1 1/4			2.03	44334LF
				2 x 2 x 1 1/2				44336LF
				2 1/2 x 2 1/2 x 2				44344LF
				3 x 3 x 2				44351LF



VIEW PRICING AND AVAILABLE STOCK ONLINE

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](http://www.P65Warnings.ca.gov)



# BRONZE/ LEAD FREE BRONZE

## NIPPLES AND FITTINGS



103RB

738103



### COUPLINGS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #
44410	0.12	70/840	1/8"	0.80	0.06	44410LF
44411	0.11	40/480	1/4"	0.80	0.09	44411LF
44412	0.15	40/480	3/8"	1.05	0.13	44412LF
44413	0.18	60/240	1/2"	1.29	0.21	44413LF
44414	0.28	50/150	3/4"	1.43	0.32	44414LF
44415	0.45	25/100	1"	1.68	0.53	44415LF
44416	0.63	16/64	1-1/4"	1.86	0.73	44416LF
44417	0.82	18/36	1-1/2"	1.92	0.97	44417LF
44418	1.38	12/24	2"	2.20	1.51	44418LF
44419	2.63	1	2-1/2"	2.88	2.20	44419LF
44420	3.80	1	3"	3.18	3.63	44420LF
			4"			44421LF



119RB

738119



### REDUCING COUPLINGS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #
44430	0.08	70/840	1/4" x 1/8"	0.88	0.08	44430LF
44431	0.11	35/420	3/8" x 1/8"	0.92	0.10	44431LF
44432	0.13	30/360	3/8" x 1/4"	0.92	0.11	44432LF
44433	0.16	75/300	1/2" x 1/8"	1.17	0.14	
44434	0.16	75/300	1/2" x 1/4"	1.17	0.16	44434LF
44435	0.18	60/240	1/2" x 3/8"	1.17	0.17	44435LF
44436	0.23	45/180	3/4" x 1/4"	1.35	0.20	44436LF
44437	0.24	45/180	3/4" x 3/8"	1.35	0.23	44437LF
44438	0.23	60/180	3/4" x 1/2"	1.35	0.26	44438LF
44440	0.40	30/120	1" x 3/8"	1.56	0.40	
44441	0.33	30/120	1" x 1/2"	1.56	0.38	44441LF
44442	0.44	25/100	1" x 3/4"	1.56	0.43	44442LF
44444	0.62	25/75	1-1/4" x 1/2"	1.77	0.60	44444LF
44445	0.64	25/75	1-1/4" x 3/4"	1.77	0.57	44445LF
44446	0.54	15/60	1-1/4" x 1"	1.77	0.65	44446LF
44447	0.80	20/60	1-1/2" x 1/2"	1.80	0.77	44447LF
44448	0.83	15/60	1-1/2" x 3/4"	1.80	0.74	44448LF
44449	0.68	25/50	1-1/2" x 1"	1.80	0.83	44449LF
44450	0.99	12/48	1-1/2" x 1-1/4"	1.80	0.87	44450LF
44458	1.28	12/36	2" x 1/2"	2.03	1.07	
44451	0.97	12/36	2" x 3/4"	2.03	1.25	44451LF
44452	1.40	12/36	2" x 1"	2.03	1.19	44452LF
44453	1.09	9/27	2" x 1-1/4"	2.03	1.22	44453LF
44454	3.60	9/27	2" x 1-1/2"	2.03	1.28	44454LF
44461	1.26	1	2-1/2" x 1-1/2"	3.15	1.94	
44462	2.29	1	2-1/2" x 2"	3.15	2.37	44462LF
44456	2.49	1	3" x 2"	3.69	2.46	
44463	3.92	1	3" x 2-1/2"	3.69	3.82	

**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](http://www.P65Warnings.ca.gov)

# BRONZE/ LEAD FREE BRONZE

## NIPPLES AND FITTINGS



108RB

738108



### CAPS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #
44470	0.04	80/160	1/8"	0.53	0.03	44470LF
44471	0.06	80/960	1/4"	0.58	0.06	44471LF
44472	0.10	60/720	3/8"	0.66	0.09	44472LF
44473	0.13	75/300	1/2"	0.75	0.13	44473LF
44474	0.19	40/160	3/4"	0.87	0.21	44474LF
44475	0.30	25/100	1"	1.03	0.35	44475LF
44476	0.51	20/80	1-1/4"	1.10	0.52	44476LF
44477	0.66	18/54	1-1/2"	1.12	0.65	44477LF
44478	1.00	12/36	2"	1.35	1.14	44478LF
44479			2-1/2"	1.69	1.83	44479LF
44480	2.74	1	3"	1.83	2.64	44480LF
			4"	2.09	4.21	44481LF



104RB

738104



### UNIONS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	APPROX. WT. LBS.	PART #
44600	0.17	40/160	1/8"	1.18	0.13	44600LF
44601	0.25	40/160	1/4"	1.26	0.27	44601LF
44602	0.37	40/160	3/8"	1.50	0.39	44602LF
44603	0.52	50/100	1/2"	1.57	0.44	44603LF
44604	0.78	35/70	3/4"	1.89	0.59	44604LF
44605	1.18	20/40	1"	2.13	0.90	44605LF
44606	1.64	15/30	1-1/4"	2.36	1.33	44606LF
44607	2.08	10/20	1-1/2"	2.68	1.80	44607LF
44608	3.24	6/12	2"	2.99	2.66	44608LF
44609	5.31	4/8	2-1/2"	3.35	4.80	44609LF
44610	6.94	4/8	3"	3.74	6.49	44610LF
			4"	3.86	9.56	44611LF



• Straight Thread

111RB

738111



### HEX LOCKNUTS

PART #	BOX/CASE	SIZE	A	THICKNESS	APPROX. WT. LBS.	
44-700	180/720	1/8"	0.50	0.19	0.01	44700LF
44-701	90/540	1/4"	0.66	0.25	0.03	44701LF
44-702	90/540	3/8"	0.77	0.28	0.04	44702LF
44-703	90/360	1/2"	0.97	0.31	0.09	44703LF
44-704	90/360	3/4"	1.23	0.34	0.10	44704LF
44-705	50/150	1"	1.50	0.38	0.17	44705LF
44-706	45/180	1-1/4"	1.86	0.42	0.22	44706LF
44-707	45/135	1-1/2"	2.12	0.47	0.29	44707LF
44-708	25/75	2"	2.63	0.53	0.45	44708LF

# BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS

NIPPLES & FITTINGS



Hex

110RB

738110



## HEX BUSHINGS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	HEX	APPROX. WT. LBS.	PART #
44500	0.02	120/1440	1/4" x 1/8"	0.58	0.66	0.03	44500LF
44501	0.06	75/900	3/8" x 1/8"	0.64	0.72	0.06	44501LF
44502	0.04	75/900	3/8" x 1/4"	0.64	0.75	0.04	44502LF
44503	0.10	150/600	1/2" x 1/8"	0.75	0.92	0.09	44503LF
44504	0.09	150/600	1/2" x 1/4"	0.75	0.93	0.10	44504LF
44505	0.08	150/600	1/2" x 3/8"	0.75	0.92	0.08	44505LF
44506	0.17	75/300	3/4" x 1/8"	0.87	1.15	0.17	44506LF
44507	0.15	75/300	3/4" x 1/4"	0.85	1.14	0.18	44507LF
44508	0.14	75/300	3/4" x 3/8"	0.85	1.14	0.17	44508LF
44509	0.14	75/300	3/4" x 1/2"	0.85	1.15	0.14	44509LF
44557	0.24	50/200	1" x 1/8"	1.05	1.43		
44510*	0.23	50/200	1" x 1/4"	1.05	1.43	0.28	44510LF*
44511*	0.22	50/200	1" x 3/8"	1.05	1.50	0.26	44511LF
44512	0.25	50/200	1" x 1/2"	1.00	1.40	0.30	44512LF
44513	0.21	50/200	1" x 3/4"	1.00	1.43	0.21	44513LF
44514	0.34	30/120	1-1/4" x 1/4"	1.22	1.10	0.34	44514LF
44515	0.35	30/120	1-1/4" x 3/8"	1.19	1.84	0.29	44515LF
44516*	0.34	30/120	1-1/4" x 1/2"	1.14	1.33	0.39	44516LF*
44517	0.40	30/120	1-1/4" x 3/4"	1.08	1.75	0.43	44517LF
44518	0.33	30/120	1-1/4" x 1"	1.08	1.76	0.42	44518LF
44519*	0.47	25/75	1-1/2" x 1/4"	1.09	2.12	0.29	44519LF
44520*	0.45	25/75	1-1/2" x 3/8"	1.35	2.16	0.44	44520LF
44521*	0.44	25/75	1-1/2" x 1/2"	1.20	2.10	0.51	44521LF*
44522*	0.48	25/75	1-1/2" x 3/4"	1.20	2.12	0.54	44522LF*
44523	0.53	25/75	1-1/2" x 1"	1.14	2.08	0.57	44523LF
44524	0.45	25/75	1-1/2" x 1-1/4"	1.14	2.12	0.46	44524LF
44527*	0.67	20/60	2" x 1/2"	1.27	1.32	1.10	44527LF
44528*	0.74	20/60	2" x 3/4"	1.27	1.62	0.77	44528LF
44529*	0.76	20/60	2" x 1"	1.29	1.95	0.77	44529LF*
44530	0.86	20/60	2" x 1-1/4"	1.22	2.47	0.88	44530LF
44531	0.83	20/60	2" x 1-1/2"	1.22	2.50	0.71	44531LF
44532	1.16	15/30	2-1/2" x 1"	1.53	1.94	1.19	44532LF
		15/30	2-1/2" x 1-1/4"		1.50	1.24	44533LF
44534	1.36	15/30	2-1/2" x 1-1/2"	1.50	2.38	1.15	44534LF
44535	1.13	15/30	2-1/2" x 2"	1.43	2.97	1.12	44535LF
44537	1.82	12/24	3" x 1-1/2"	1.61	2.68	2.44	44537LF
44538	2.33	12/24	3" x 2"	1.61	3.70	1.82	44538LF
44539	2.19	12/24	3" x 2-1/2"	1.53	3.70	2.11	44539LF
44541	3.51	5/10	4" x 2"	1.81	4.62	3.86	44541LF
		5/10	4" x 2-1/2"	1.81	4.62	3.48	44542LF
44543	4.22	12/24	4" x 3"	2.01	4.62	3.56	44543LF

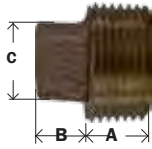


\* INSIDE HEX

**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](http://www.P65Warnings.ca.gov)

# BRONZE/ LEAD FREE BRONZE

NIPPLES AND FITTINGS



109RB

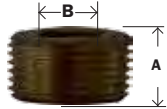
738109



## CORED SQUARE HEAD PLUGS

PART #	APPROX. WT. LBS.	BOX/CASE	SIZE	A	B	C	APPROX. WT. LBS.	PART #
44650*	0.02	300/3600	1/8"	0.27	0.24	0.28	0.02	44650LF
44651*	0.04	150/1800	1/4"	0.41	0.28	0.37	0.04	44651LF
44652	0.06	100/1200	3/8"	0.41	0.31	0.43	0.06	44652LF
44653	0.10	50/600	1/2"	0.54	0.38	0.56	0.10	44653LF
44654	0.13	30/360	3/4"	0.55	0.44	0.62	0.13	44654LF
44655	0.25	20/240	1"	0.69	0.50	0.81	0.22	44655LF
44656	0.39	40/120	1-1/4"	0.71	0.56	0.93	0.32	44656LF
44657	0.57	30/90	1-1/2"	0.73	0.62	1.12	0.47	44657LF
44658	0.77	20/60	2"	0.76	0.68	1.31	0.68	44658LF
44659	1.25	16/32	2-1/2"	1.07	0.74	1.50	1.26	44659LF
44660	2.02	16/32	3"	1.13	0.80	1.68	1.49	44660LF
44662	3.20	6/12	4"	1.22	0.92	2.25	3.20	44662LF

\* solid



109ALRB

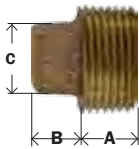
SQUARE DRIVE

738115

## BRONZE COUNTERSUNK PLUGS



PART #	A	SOCKET SIZE	SIZE	BOX/CASE	APPROX. WT. LBS.	SIZE
			1/8"			44630LF
			1/4"			44631LF
			3/8"			44632LF
44633	0.57	0.43	1/2"	120/1440	0.06	44633LF
44634	0.58	0.47	3/4"	70/840	0.11	44634LF
44635	0.75	0.59	1"	20/240	0.22	44635LF
44636	0.74	0.72	1-1/4"	40/120	0.33	44636LF
44637	0.79	0.72	1-1/2"	30/90	0.50	44637LF
44638	0.80	0.85	2"	20/60	0.88	44638LF
44639	1.08	1.25	2-1/2"	1/1	1.56	44639LF
44640	1.13	1.38	3"	1/1	2.47	44640LF
44641	1.22	2.12	4"	1/1	3.21	44641LF



109SRB

738114

## SOLID SQUARE HEAD PLUGS



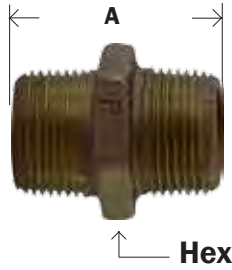
PART #	A	B	C	SIZE	BOX/CASE	APPROX. WT. LBS.	PART #
44670	0.27	0.24	0.28	1/8"	400/4800	0.02	44670LF
44671	0.41	0.28	0.37	1/4"	150/1800	0.04	44671LF
44672	0.41	0.31	0.43	3/8"	120/1440	0.06	44672LF
44673	0.54	0.38	0.56	1/2"	50/600	0.12	44673LF
44674	0.55	0.44	0.62	3/4"	35/420	0.18	44674LF
44675	0.69	0.50	0.81	1"	20/240	0.36	44675LF
44676	0.71	0.56	0.93	1-1/4"	30/120	0.63	44676LF
44677	0.73	0.62	1.12	1-1/2"	30/90	0.84	44677LF
44678	0.76	0.68	1.31	2"	10/60	1.27	44678LF
				2-1/2"			44679LF
				3"			44680LF
				4"			44681LF



# BRONZE/ LEAD FREE BRONZE

## NIPPLES AND FITTINGS

### HEX NIPPLES



PART #	SIZE	A	HEX	BOX/ CASE	APPROX. WT. LBS.
44720	1/8"	1.25	0.50		0.05
44721	1/4"	1.25	0.61	150/1800	0.06
44722	3/8"	1.55	0.68	120/1440	0.11
44723	1/2"	1.65	1.03	240/480	0.18
44724	3/4"	1.77	1.21	80/320	0.24
44725	1"	2.06	1.46	50/150	0.36
44726	1-1/4"	2.12	1.81	50/100	0.47
44727	1-1/2"	2.25	2.07	35/70	0.76
44728	2"	2.50	2.41	20/40	1.50
44729	2-1/2"	2.80	3.10	1	2.10
44730M	3"	3.58	3.88	4/8	2.53

### REDUCING HEX NIPPLES



PART #	SIZE	BOX/CASE	APPROX. WT. LBS.
44740	1/4" x 1/8"	1/1	0.06
44742	1/2" x 3/8"	1/1	0.16
44750	1-1/2" x 1"	1/1	0.64
44753	1-1/2" x 1-1/4"	1/1	0.68

See page 239 for Stainless Steel Reducing Hex Nipples

### FLANGE THREADED COMPANION LEAD-FREE



PART #	SIZE	STD. PACK.	WT. PER 100
44790LF	1/2" x 3-1/2"	1	95
44791LF	3/4" x 3-7/8"	1	124
44792LF	1" x 4-1/4"	1	168
44793LF	1-1/4" x 4-5/8"	1	224
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
44799LF	5" x 10"	1	1495
44800LF	6" x 11"	1	1801

### FLANGE SWEAT COMPANION LEAD FREE



PART #	SIZE	STD. PACK.	WT. PER 100
44827LF	1-1/2" x 5"	1	176
44828LF	2" x 6"	1	291
44829LF	2-1/2" x 7"	1	405
44830LF	3" x 7-1/2"	1	520
44831LF	4" x 9"	1	798

### FLANGE FLOOR LEAD FREE



PART #	SIZE	STD. PACK.	WT. PER 100
44780LF	1/2"	1	35
44781LF	3/4"	1	44
44782LF	1"	1	59
44783LF	1-1/4"	1	87
44784LF	1-1/2"	1	105
44785LF	2"	1	150

**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](http://www.P65Warnings.ca.gov)

# CHROME PLATED BRONZE FITTINGS

NIPPLES AND FITTINGS

## CHROME PLATED BRONZE FITTINGS

### CHROME PLATED 90° ELBOW



781100

PART #	SIZE	
45102LF	3/8"	
45103LF	1/2"	
45104LF	3/4"	
45105LF	1"	

### CHROME PLATED COUPLING



781103

PART #	SIZE	
45-412LF	3/8"	----
45-413LF	1/2"	----
45-435LF	1/2" x 3/8"	

### 90° ELBOW



81100

PART #	SIZE	APPROX. WT. LBS.
45100	1/8"	0.08
45101	1/4"	0.12
45102	3/8"	0.17
45103	1/2"	0.24
45104	3/4"	0.34
45105	1"	0.61
45124	1/2" x 3/8"	0.58
45127	3/4" x 1/2"	0.80

### 90° STREET ELLS



81116

PART #	SIZE	APPROX. WT. LBS.
45160	1/8"	0.07
45161	1/4"	0.11
45162	3/8"	0.18
45163	1/2"	0.24
45164	3/4"	0.37
45165	1"	

### CHROME PLATED 90° ELBOW



781116

PART #	SIZE	
45-163LF	1/2"	----
45-164LF	3/4"	

### CHROME PLATED TEE



781101

PART #	SIZE	
45-252LF	3/8"	----
45-253LF	1/2"	----

### 45° ELBOW



81124

PART #	SIZE	APPROX. WT. LBS.
45200	1/8"	0.06
45201	1/4"	0.11
45202	3/8"	0.13
45203	1/2"	0.18
45204	3/4"	0.28

### CROSSES



81102

PART #	SIZE	APPROX. WT. LBS.
45393	1/2"	0.45
45394	3/4"	0.76

# CHROME PLATED BRONZE FITTINGS

NIPPLES AND FITTINGS

## 45° ELBOWS



81107

PART #	SIZE	APPROX. WT. LBS.
45180	1/8"	0.08
45181	1/4"	0.13
45182	3/8"	0.17
45183	1/2"	0.21
45184	3/4"	0.32
45185	1"	0.52

## TEES



81101

PART #	SIZE	APPROX. WT. LBS.
45250	1/8"	0.11
45251	1/4"	0.17
45252	3/8"	0.25
45253	1/2"	0.31
45254	3/4"	0.50
45255	1"	0.85

## COUPLINGS



81103

PART #	SIZE	APPROX. WT. LBS.
45410	1/8"	0.12
45411	1/4"	0.11
45412	3/8"	0.15
45413	1/2"	0.18
45414	3/4"	0.28
45415	1"	0.45
45432	3/8" x 1/4"	0.13
45435	1/2" x 3/8"	0.18
45438	3/4" x 1/2"	0.23
45439	1" x 3/4"	0.44

## CAPS



81108

PART #	SIZE	APPROX. WT. LBS.
45470	1/8"	0.04
45471	1/4"	0.06
45472	3/8"	0.10
45473	1/2"	0.13
45474	3/4"	0.19
45475	1"	

## UNIONS



81104

PART #	SIZE	APPROX. WT. LBS.
45600	1/8"	0.17
45601	1/4"	0.25
45602	3/8"	0.37
45603	1/2"	0.52
45604	3/4"	0.78
45605	1"	1.18
45606	1-1/4"	1.64

## HEX BUSHINGS



81110

PART #	SIZE	APPROX. WT. LBS.
45-502	3/8" x 1/4"	0.04
45-504	1/2" x 1/4"	0.09
45-505	1/2" x 3/8"	0.08
45-509	3/4" x 1/2"	0.14
45-513	1" x 3/4"	0.21

## PLUGS



PART #	SIZE	APPROX. WT. LBS.
45652	3/8"	0.06
45653	1/2"	0.10
45654	3/4"	0.13
45655	1"	0.25
45657	1-1/2"	0.57

# USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

## 90° ELBOWS



PART #	SIZE	LBS.
44100DLF	1/8"	0.06
44101DLF	1/4"	0.10
44102DLF	3/8"	0.15
44103DLF	1/2"	0.25
44104DLF	3/4"	0.41
44105DLF	1"	0.69
44106DLF	1-1/4"	1.02
44107DLF	1-1/2"	1.36
44108DLF	2"	2.14
44109DLF	2-1/2"	3.79
44110DLF	3"	5.21
44112DLF	4"	8.59

## 90° REDUCING ELBOWS



PART #	SIZE	LBS.
44120DLF	1/4 x 1/8	0.09
44121DLF	3/8 x 1/8	0.13
44122DLF	3/8 x 1/4	0.13
44123DLF	1/2 x 1/4	0.19
44124DLF	1/2 x 3/8	0.22
44125DLF	3/4 x 1/4	0.31
44126DLF	3/4 x 3/8	0.29
44127DLF	3/4 x 1/2	0.31
44128DLF	1 x 1/4	0.41
44129DLF	1 x 3/8	0.39
44130DLF	1 x 1/2	0.45
44131DLF	1 x 3/4	0.56
44132DLF	1 1/4 x 1/2	0.72
44133DLF	1 1/4 x 3/4	0.68
44134DLF	1 1/4 x 1	0.81
44135DLF	1 1/2 x 1/2	0.94
44136DLF	1 1/2 x 3/4	0.88
44137DLF	1 1/2 x 1	1.02
44138DLF	1 1/2 x 1 1/4	1.00
44140DLF	2 x 1	1.46
44141DLF	2 x 1 1/4	1.48
44142DLF	2 x 1 1/2	1.73

## 90° DROP ELBOWS



PART #	SIZE	LBS.
44839DLF	3/8"	0.25
44840DLF	1/2"	0.37

## 90° STREET ELBOWS



PART #	SIZE	LBS.
44160DLF	1/8"	0.06
44161DLF	1/4"	0.11
44162DLF	3/8"	0.16
44163DLF	1/2"	0.24
44164DLF	3/4"	0.38
44165DLF	1"	0.66
44166DLF	1-1/4"	0.99
44167DLF	1-1/2"	1.15
44168DLF	2"	2.07
44169DLF	2-1/2"	3.79
44170DLF	3"	6.38

## 45° ELBOWS



PART #	SIZE	LBS.
44180DLF	1/8"	0.05
44181DLF	1/4"	0.09
44182DLF	3/8"	0.14
44183DLF	1/2"	0.19
44184DLF	3/4"	0.36
44185DLF	1"	0.59
44186DLF	1-1/4"	0.87
44187DLF	1-1/2"	1.13
44188DLF	2"	1.65
44189DLF	2-1/2"	2.69
44190DLF	3"	3.68

# USA MADE, LEAD FREE BRONZE FITTINGS

## NIPPLES AND FITTINGS

### 45° STREET ELBOWS



PART #	SIZE	LBS.
44201DLF	1/4"	0.09
44202DLF	3/8"	0.12
44203DLF	1/2"	0.22
44204DLF	3/4"	0.31
44205DLF	1"	0.52
44206DLF	1-1/4"	0.72
44207DLF	1-1/2"	1.05
44208DLF	2"	2.04

### CROSSES



PART #	SIZE	LBS.
44391DLF	1/4"	0.15
44392DLF	3/8"	0.25
44393DLF	1/2"	0.38
44394DLF	3/4"	0.59
44395DLF	1"	0.94
44396DLF	1-1/4"	1.43
44397DLF	1-1/2"	1.89
44398DLF	2"	2.95

If a man does not keep pace with his companions, perhaps it is because he hears a different drummer. Let him step to the music which he hears, however measured or far away.

- Henry David Thoreau

### TEES



PART #	SIZE	LBS.
44250DLF	1/8"	0.09
44251DLF	1/4"	0.13
44271DLF	1/4" x 1/4" x 3/8"	0.17
44.270DLF	1/4" x 1/4" x 1/8"	0.12
44252DLF	3/8"	0.21
44281DLF	3/8" x 3/8" x 1/2"	0.24
44273DLF	3/8" x 3/8" x 1/4"	0.17
44253DLF	1/2"	0.35
44280DLF	1/2" x 1/2" x 3/4"	0.38
44276DLF	1/2" x 1/2" x 1/4"	0.23
44254DLF	3/4"	0.55
44289DLF	3/4" x 3/4" x 1"	0.55
44286DLF	3/4" x 3/4" x 1/2"	0.41
44283DLF	3/4" x 3/4" x 3/8"	0.40
44282DLF	3/4" x 3/4" x 1/4"	0.35
44288DLF	3/4" x 1/2" x 3/4"	0.42
44287DLF	3/4" x 1/2" x 1/2"	0.40
44255DLF	1"	0.92
44298DLF	1" x 1" x 3/4"	0.58
44291DLF	1" x 1" x 1/2"	0.56
44295DLF	1" x 1" x 1/4"	0.69
44297DLF	1" x 3/4" x 1"	0.58
44296DLF	1" x 3/4" x 3/4"	0.46
44294DLF	1" x 1/2" x 1"	0.51
44256DLF	1-1/4"	1.34
44306DLF	1-1/4" x 1-1/4" x 1"	0.91
44303DLF	1-1/4" x 1-1/4" x 3/4"	0.93
44300DLF	1-1/4" x 1-1/4" x 1/2"	0.93
44310DLF	1-1/4" x 1" x 1-1/4"	0.94
44302DLF	1-1/4" x 3/4" x 3/4"	0.92
44257DLF	1-1/2"	1.82
44318DLF	1-1/2" x 1-1/2" x 1"	1.20
44316DLF	1-1/2" x 1-1/2" x 3/4"	1.12
44258DLF	2"	2.80
44334DLF	2" x 2 x 1-1/4"	1.91
44330DLF	2" x 2" x 1"	1.70
44328DLF	2" x 2" x 3/4"	1.67
44259DLF	2-1/2"	4.70
44260DLF	3"	6.69
44350DLF	3" x 2" x 2"	3.40
44261DLF	4"	11.35



# USA MADE, LEAD FREE BRONZE FITTINGS

NIPPLES AND FITTINGS

## STREET TEES



PART #	SIZE	LBS.
44364DLF	3/4"	0.46

## 45° Y-BRANCHES



PART #	SIZE	LBS.
44963DLF	1/2"	0.30
44964DLF	3/4"	0.65
44965DLF	1"	0.97

## COUPLINGS



PART #	SIZE	LBS.
44410DLF	1/8"	0.06
44411DLF	1/4"	0.09
44412DLF	3/8"	0.13
44413DLF	1/2"	0.21
44414DLF	3/4"	0.32
44415DLF	1"	0.53
44416DLF	1-1/4"	0.73
44417DLF	1-1/2"	0.97
44418DLF	2"	1.51
44419DLF	2-1/2"	2.20
44420DLF	3"	3.63

## REDUCING COUPLINGS



PART #	SIZE	LBS.
44430DLF	1/4" x 1/8"	0.08
44431DLF	3/8" x 1/8"	0.10
44432DLF	3/8" x 1/4"	0.11
44433DLF	1/2" x 1/8"	0.14
44434DLF	1/2" x 1/4"	0.16
44435DLF	1/2" x 3/8"	0.17
44436DLF	3/4" x 1/4"	0.20
44437DLF	3/4" x 3/8"	0.23
44438DLF	3/4" x 1/2"	0.26
44440DLF	1" x 3/8"	0.40
44441DLF	1" x 1/2"	0.38
44442DLF	1" x 3/4"	0.43
44444DLF	1-1/4" x 1/2"	0.60
44445DLF	1-1/4" x 3/4"	0.57
44446DLF	1-1/4" x 1"	0.65
44447DLF	1-1/2" x 1/2"	0.77
44448DLF	1-1/2" x 3/4"	0.74
44449DLF	1-1/2" x 1"	0.83
44450DLF	1-1/2" x 1-1/4"	0.87
44458DLF	2" x 1/2"	2.03
44451DLF	2" x 3/4"	1.25
44452DLF	2" x 1"	1.19
44453DLF	2" x 1-1/4"	1.22
44454DLF	2" x 1-1/2"	1.28
44461DLF	2-1/2" x 1-1/2"	1.94
44462DLF	2-1/2" x 2"	2.37
44456DLF	3" x 2"	2.46
44463DLF	3" x 2-1/2"	3.82

Health is the greatest gift,  
contentment the greatest  
wealth, faithfulness the best  
relationship.

- Buddha

# USA MADE, LEAD FREE BRONZE FITTINGS

## NIPPLES AND FITTINGS

### CAPS



PART #	SIZE	LBS.	
44470DLF	1/8"	0.03	
44471DLF	1/4"	0.06	
44472DLF	3/8"	0.09	
44473DLF	1/2"	0.13	
44474DLF	3/4"	0.21	
44475DLF	1"	0.35	
44476DLF	1-1/4"	0.52	
44477DLF	1-1/2"	0.65	
44478DLF	2"	1.14	
44480DLF	3"	2.64	

### STANDARD UNIONS



PART #	SIZE	LBS.	
44601DLF	1/4"	0.27	
44602DLF	3/8"	0.39	
44603DLF	1/2"	0.44	
44604DLF	3/4"	0.59	
44605DLF	1"	0.90	
44606DLF	1-1/4"	1.33	
44607DLF	1-1/2"	1.80	

Keep your face always toward the sunshine  
- and shadows will fall behind you.

- Walt Whitman

### HEX BUSHINGS



PART #	SIZE	LBS.	
44510DLF	1" x 1/4"	0.28	
44511DLF	1" x 3/8"	0.26	
44512DLF	1" x 1/2"	0.30	
44513DLF	1" x 3/4"	0.21	
44514DLF	1-1/4" x 1/4"	0.34	
44515DLF	1-1/4" x 3/8"	0.29	
44516DLF	1-1/4" x 1/2"	0.39	
44517DLF	1-1/4" x 3/4"	0.43	
44518DLF	1-1/4" x 1"	0.42	
44519DLF	1-1/2" x 1/4"	0.29	
44520DLF	1-1/2" x 3/8"	0.44	
44521DLF	1-1/2" x 1/2"	0.51	
44522DLF	1-1/2" x 3/4"	0.54	
44523DLF	1-1/2" x 1"	0.57	
44524DLF	1-1/2" x 1-1/4"	0.46	
44527DLF	2" x 1/2"	1.10	
44528DLF	2" x 3/4"	0.77	
44529DLF	2" x 1"	0.77	
44530DLF	2" x 1-1/4"	0.88	
44531DLF	2" x 1-1/2"	0.71	
44532DLF	2-1/2" x 1"	1.19	
44534DLF	2-1/2" x 1-1/2"	1.15	
44535DLF	2-1/2" x 2"	1.12	
44538DLF	3" x 2"	1.82	
44539DLF	3" x 2-1/2"	2.11	
44541DLF	4" x 2"	3.86	

### COUNTERSUNK PLUGS



PART #	SIZE	LBS.	
44633DLF	1/2"	0.06	
44634DLF	3/4"	0.11	
44635DLF	1"	0.22	
44636DLF	1-1/4"	0.33	
44637DLF	1-1/2"	0.50	
44638DLF	2"	0.88	
44639DLF	2-1/2"	1.56	
44640DLF	3"	2.47	
44641DLF	4"	3.21	

# USA MADE, LEAD FREE AND EXTRA HEAVY FITTINGS

NIPPLES AND FITTINGS

## REGULAR PLUGS



PART #	SIZE	LBS.
44653DLF	1/2"	0.10
44654DLF	3/4"	0.13
44655DLF	1"	0.22
44656DLF	1-1/4"	0.32
44657DLF	1-1/2"	0.47
44658DLF	2"	0.68
44659DLF	2-1/2"	1.26
44660DLF	3"	1.49
44662DLF	4"	3.20

## SOLID PLUGS



PART #	SIZE	LBS.
44672DLF	3/8"	0.06
44673DLF	1/2"	0.12
44674DLF	3/4"	0.18
44675DLF	1"	0.36
44676DLF	1-1/4"	0.63
44677DLF	1-1/2"	0.84
44678DLF	2"	1.27

Once I knew only darkness and stillness... my life was without past or future... but a little word from the fingers of another fell into my hand that clutched at emptiness, and my heart leaped to the rapture of living.

- Helen Keller

## USA EXTRA HEAVY FITTINGS

### EXTRA HEAVY ELBOWS



PART #	SIZE	LBS.
43101	1/4"	0.17
43102	3/8"	0.29
43103	1/2"	0.47
43104	3/4"	0.67
43105	1"	1.31
43106	1-1/4"	1.81
43107	1-1/2"	2.60
43108	2"	3.54
43110	2-1/2"	5.58
43109	3"	8.20

### EXTRA HEAVY STREET ELBOWS



PART #	SIZE	LBS.
43165	1"	0.85
43167	1-1/2"	2.10

### EXTRA HEAVY 45° ELBOWS



PART #	SIZE	LBS.
43183	1/2"	0.40
43184	3/4"	0.61
43185	1"	0.96
43186	1-1/4"	1.54
43187	1-1/2"	2.10
43188	2"	3.21
43189	2-1/2"	5.00
43190	3"	7.25

NIPPLES & FITTINGS

# USA EXTRA HEAVY BRONZE FITTINGS

NIPPLES AND FITTINGS

## EXTRA HEAVY TEES



PART #	SIZE	LBS.
43251	1/4"	0.21
43252	3/8"	0.35
43253	1/2"	0.64
43276	1/2" x 1/2" x 1/4"	0.51
43254	3/4"	1.05
43255	1"	1.56
43298	1" x 1" x 3/4"	1.30
43291	1" x 1" x 1/2"	1.16
43256	1-1/4"	2.43
43257	1-1/2"	3.15
43258	2"	5.05
43259	3"	7.55

## EXTRA HEAVY COUPLINGS



PART #	SIZE	LBS.
43411	1/4"	0.15
43412	3/8"	0.24
43413	1/2"	0.36
43414	3/4"	0.57
43438	3/4" x 1/2"	0.45
43415	1"	0.91
43442	1" x 3/4"	0.70
43441	1" x 1/2"	0.75
43416	1-1/4"	1.37
43446	1-1/4" x 1"	1.22
43417	1-1/2"	1.79
43450	1-1/2" x 1-1/4"	1.67
43449	1-1/2" x 1"	1.45
43418	2"	2.76
43454	2" x 1-1/2"	2.30
43419	2-1/2"	4.10

## EXTRA HEAVY CROSSES



PART #	SIZE	LBS.
43393	1/2"	0.71
43394	3/4"	1.24
43395	1"	1.95
43396	1-1/4"	2.92
43397	1-1/2"	4.06
43398	2"	5.75

## EXTRA HEAVY CAPS



PART #	SIZE	LBS.
43473	1/2"	0.23
43474	3/4"	0.37
43475	1"	0.60
43476	1-1/4"	1.05
43477	1-1/2"	1.24
43478	2"	2.09

## EXTRA HEAVY UNIONS



PART #	SIZE	LBS.
43601	1/4"	0.35
43602	3/8"	0.50
43603	1/2"	0.66
43604	3/4"	1.05
43605	1"	1.65
43606	1-1/4"	2.36
43607	1-1/2"	2.95
43608	2"	3.95
43609	2-1/2"	5.65
43610	3"	8.80

# CLEANOUT PLUGS/ DROP EAR ELBOWS

NIPPLES AND FITTINGS



- Southern Code

## CAST BRASS SQUARE HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE
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



- Southern Code

## CAST BRASS COUNTERSUNK HEAD CLEANOUT PLUG

PART #	SIZE	BOX/CASE
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
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

## DROP EAR ELBOWS

- Lead Free Brass



- Lead Free Bronze



PART #	SWT X FIP
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

- Lead Free Brass



PART #	SWT X SWT
44844LF	1/2 x 1/2

- Lead Free Bronze



PART #	PEX X FIP
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](http://www.P65Warnings.ca.gov)



# BRONZE/ STEEL INSERT FITTINGS

## NIPPLES AND FITTINGS

### 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
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
973965	3/4"
973966	1"
973967	1-1/4"

#### ELBOWS



( Barb x Male Pipe )

PART #	SIZE
973980	3/4" x 3/4"
973981	1" x 3/4"
973982	1" x 1"

#### ELBOWS



( Barb x Barb )

PART #	HOSE SIZE
973975	3/4"
973976	1"
973977	1-1/4" x 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
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



( Insert x NPT )

PART #	SIZE
974264	3/4 x 1/2
974265	1 x 3/4
974266	1-1/4 x 1
974267	1-1/2 x 1-1/4

#### COUPLINGS



PART #	SIZE	BOX/CASE
973900	1/2	30/120
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

**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](http://www.P65Warnings.ca.gov)

# SS AND LEAD FREE BRONZE INSERT

## NIPPLES AND FITTINGS

### STAINLESS STEEL #304



#### #304 INSERT X MALE PIPE

- For coiled plastic pipe to submersible pump

PART #	SIZE
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
973980SS	3/4 x 3/4
973982SS	1 x 1
973985SS	1-1/4 x 1-1/4

### LEAD FREE BRONZE INSERT FITTINGS

- NSF Approved
- ANSI 61-8



#### INSERT X INSERT

PART #	SIZE
973960LF	1/2
973961LF	3/4
973962LF	1
973963LF	1-1/4

- NSF Approved
- ANSI 61-8



#### INSERT TEE

PART #	SIZE
973965LF	3/4
973966LF	1
973967LF	1-1/4

- NSF Approved
- ANSI 61-8



#### INSERT X MALE BRANCH TEE

PART #	SIZE
973969LF	3/4
973970LF	1 x 3/4
973971LF	1

- NSF Approved
- ANSI 61-8



#### INSERT X INSERT ELBOW

PART #	SIZE
973975LF	3/4
973976LF	1

### WELL COUPLINGS



#### 304 SS DROP WELL COUPLINGS STANDARD

PART #	SIZE
62415DC	1
62416DC	1-1/4
62417DC	1-1/2
62418DC	2



#### HEAVY WALLED SS 304 DROP WELL COUPLINGS

PART #	SIZE
62415HDDC	1
62416HDDC	1-1/4
62417HDDC	1-1/2
62418HDDC	2



#### #304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE
61775	1
61776	1-1/4
61777	1-1/2
61778	2

# SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

## 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.

### SCHEDULE 80 SEAMLESS

- 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

SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR SCHEDULE 80 NIPPLES

### 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.

Both #304 and #316 nipples are NSF/ANSI 372 and NSF/ANSI 61 compliant.

### 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

# SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304

1/8" - 27

#316



**1/8" DIAMETER  
SCH 40 WELDED**



PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
48031	x 7"	1	0.22	49031
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
	x 14"	1	0.46	49037
	x 16"	1	0.47	49038



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

# SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304

3/8"-18

#316



**3/8" DIAMETER  
SCH 40 WELDED**



PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
48052	x 8"	1	0.34	49052
48053	x 9"	1		
48054	x 10"	1	0.43	49054
48056	x 12"	1		



1/2" - 14

**1/2" DIAMETER  
SCH 40 WELDED**



PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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	49072
48073	x 9"	1	0.54	
48074	10"	1	0.58	49074
48075	x 11"	1	0.64	
48076	x 12"	1	0.69	



USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

**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](http://www.P65Warnings.ca.gov)





# SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS

#304



3/4" - 14

3/4" DIAMETER  
SCH 40 WELDED

#316



PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
48091	x 7"	1	0.45	
48092	x 8"	1	0.67	49092
48094	x 10"	1	0.94	49094
48096	x 12"	1	1.03	



1" - 11 1/2

1" DIAMETER  
SCH 40 WELDED



PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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	49110
48111	x 8"	1	1.02	49111
48113	x 10"	1	1.16	49113
48115	x 12"	1	1.31	



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

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NIPPLES & FITTINGS

# SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS



1 1/4" - 11 1/2"



## 1-1/4" DIAMETER SCH 40 WELDED

PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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	49151
48152	x 9"	1	1.88	
48153	x 10"	1	2.28	49153
48155	x 12"	1	2.43	

• See our website for threaded one end (TOE) nipples



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

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# SCH 40 STAINLESS STEEL NIPPLES

NIPPLES AND FITTINGS



## 2" DIAMETER SCH 40 WELDED



PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
48169	x 7"	1	1.92	49169
48170	x 8"	1	2.01	49170
48171	x 9"	1	2.55	
48172	x 10"	1	2.69	
48174	x 12"	1	2.89	

## 2-1/2" DIAMETER SCH 40 WELDED

PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.
48180	X Close (2-1/2")	10	0.64
48181	x 3"		
48187	x 6"	1	2.37
48193	x 12"	1	4.85



## 3" DIAMETER SCH 40 WELDED

PART # 304 S.S.	LENGTH	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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	49205
48207	x 6"	5	1.88	49207
48209	x 8"	1	1.91	49209
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	
		x 4"	1	2.98	49223	
48227		x 6"	1	4.10	49234	
		x 8"	1	5.95	49236	
		x 12"	1	9.25	49240	

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NIPPLES & FITTINGS

# 304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

## 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.

**PRICING FILE AVAILABLE ONLINE**

### HIGH PRESSURE 1000# BARSTOCK

- SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM)



**1000#**

- Stainless bar stock dimensions conform to MSS SP-114
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008
- Fittings meet applicable chemical & physical properties

### HIGH PRESSURE 3000# FORGED

A182 and ANSI/ASME B16.11.

- SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM)



**3000#**

- Use with air, water, oil, natural gas, steam
- Maximum Pressure:
  - Type 304 SS: 2,570 psi @ 72°F;
  - 1,965 psi @ 350°F for steam
  - Type 316 SS: 3,000 psi @ 72°F
  - 2810 psi @ 350°F for steam
- Pipe Nipples and Pipe: Use threaded Schedule 80 thickwall stainless steel

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# 304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

## 90° ELBOW 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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

## 90° STREET ELBOW 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
	4"	1	7.61	63171

## 45° ELBOW 304 & 316 150#



PART # 304 S.S.	LIST PRICE	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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

SEE OUR WEBSITE FOR STAINLESS STEEL FITTING DIMENSIONS



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!

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NIPPLES & FITTINGS



## 304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

### TEE 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
	4"	1	7.19	63261

### CROSS 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
	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	63396
62397	1-1/2"	5	1.53	63397
62398	2"	1	2.28	63398
	3"	1	5.46	63400
	4"	1	9.41	63401

### 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.
62740		1/4" x 1/8"	1	0.04	63740
62741		3/8" x 1/8"	1	0.07	63741
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
62747		3/4" x 1/4"	1	0.15	63747
62748		3/4" x 3/8"	1	0.15	63748
62749		3/4" x 1/2"	1	0.15	63749

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 For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# 304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

## COUPLING 304 & 316 150#



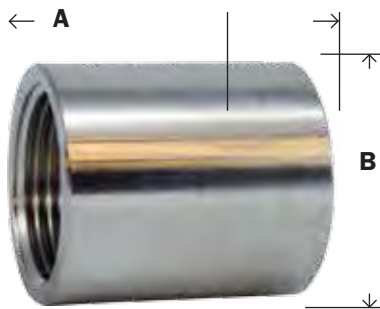
PART # 304 S.S.	SIZE*	BOX	APPROX. WT. LBS.	PART # 316 S.S.
62410	1/8"	25	0.03	63410
62411	1/4"	25	0.06	63411
62412	3/8"	25	0.07	63412
62413	1/2"	25	0.13	63413
62414	3/4"	25	0.18	63414
62415	1"	25	0.24	63415
62416	1-1/4"	10	0.44	63416
62417	1-1/2"	10	0.51	63417
62418	2"	5	0.79	63418
62419	2-1/2"	1	1.28	63419
62420	3"	1	1.87	63420
62421	4"	1	2.80	63421

## REDUCING COUPLING 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
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
62428	3" x 1"	1	1.82	
62456	3" x 2"	1	2.25	

## OD MACHINED COUPLING 304 & 316 150#

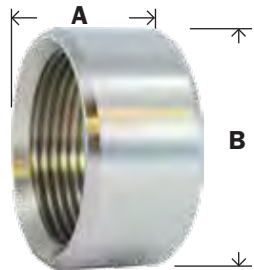


PART # 304 S.S.	LIST PRICE	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.
62410B		1/8"	0.76	0.56	25	0.04	63410B
62411B		1/4"	0.94	0.71	25	0.04	63411B
62412B		3/8"	0.98	0.84	25	0.07	63412B
62413B		1/2"	1.33	1.01	25	0.09	63413B
62414B		3/4"	1.41	1.27	25	0.16	63414B
62415B		1"	1.69	1.54	10	0.21	63415B
62416B		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		

# 304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

## HALF COUPLING 304 & 316 150#



PART # 304 S.S.	LIST	SIZE	A	B	BOX	APPROX. WT. LBS.	PART # 316 S.S.
62770		1/8"					
62771		1/4"	0.39	0.70	25	0.02	63771
62772		3/8"	0.45	0.82	25	0.02	63772
62773		1/2"	0.57	1.02	25	0.09	63773
62774		3/4"	0.67	1.22	25	0.11	63774
62775		1"	0.79	1.47	25	0.13	63775
62776		1-1/4"	0.86	1.88	10	0.24	63776
62777		1-1/2"	0.94	2.10	10	0.26	63777
62778		2"	1.06	2.60	5	0.44	63778

## 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	63600	
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	
62610		3"	1	3.40	63610	

## CAP - CAST 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
62075	1/8"	25	0.04	63075
62076	1/4"	25	0.09	63076
62077	3/8"	25	0.11	63077
62078	1/2"	25	0.13	63078
62079	3/4"	25	0.22	63079
62080	1"	10	0.22	63080
62081	1-1/4"	10	0.29	63081
62082	1-1/2"	5	0.40	63082
62083	2"	5	0.49	63083

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# 304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

## HEX BUSHING 304 & 316 150#



PART # 304 S.S.	SIZE M X F	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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	
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
62536	2-1/2" x 1"	5	1.70	
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	
	4" x 1-1/2"	5	3.92	63540
	4" x 2"	1	3.72	63541
62543	4" x 3"	1	2.43	63543

• SEE PAGE 13 FOR STAINLESS STEEL BULKHEAD FITTINGS

• SEE PAGE 268 FOR STAINLESS STEEL:

- BARBED FOR PLASTIC PIPE
- WELL COUPLINGS
- MERCHANT COUPLINGS



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

# 304 AND 316 150# SS FITTINGS

## NIPPLES AND FITTINGS

### HEX LOCKNUT

#### 304 & 316 150#

- Straight Thread



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
62700	1/8"	25	0.02	
62701	1/4"	25	0.05	63701
62702	3/8"	25	0.06	63702
62703	1/2"	25	0.07	63703
62704	3/4"	25	0.11	63704
62705	1"	25	0.15	63705
62706	1-1/4"	25	0.22	63706
62707	1-1/2"	25	0.29	63707
62708	2"	10	0.35	63708

### CORED SQUARE HEAD PLUG

#### 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
62659	2-1/2"	1	1.04	
62660	3"	1	0.88	

### CORED HEX HEAD PLUG

#### 304 & 316 150#



PART # 304 S.S.	SIZE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
	4"	1	2.77	63641

### HOSE NIPPLE

#### 304 & 316 150#



HOSE BARB X MALE PIPE

PART # 304 S.S.	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.	PART # 316 S.S.
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
73961	4"	1	3.57	973991

**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](http://www.P65Warnings.ca.gov)



# 304 AND 316 150# SS FITTINGS

NIPPLES AND FITTINGS

## REDUCING HOSE NIPPLE

304 150#



HOSE BARB X MALE PIPE

PART # 304 S.S	HOSE I.D. X MALE PIPE	BOX	APPROX. WT. LBS.
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
73981	2" x 1-1/2"	1	0.88
73982	2" x 1-1/4"	1	0.88

## SOLID HEX HEAD PLUG

316 150#



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.
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.
63759	1/16"	1	0.03
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#



PART # 316 S.S	SIZE	BOX	APPROX. WT. LBS.
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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NIPPLES & FITTINGS

**BLACK AND GALVANIZED SCH 40**

NIPPLES AND FITTINGS

**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. For pressure ratings, see the knowledge bank on our website.

**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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PRICING FILE AVAILABLE ONLINE

# BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS

1/8" - 27

Wall Thickness 0.068 - GradeB - Test Pressure  
700 PSI - Thread Length 0.39



**1/8" DIAMETER  
SCH 40 WELDED**



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56014	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	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56033	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 Cobalt, which are known to the State of California to cause cancer.  
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NIPPLES & FITTINGS

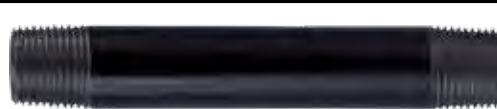
# BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS



## 3/8" DIAMETER SCH 40 WELDED

Wall Thickness 0.091 - Grade B  
- Test Pressure 700 PSI - Thread  
Length 0.6



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56053	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



## 1/2" DIAMETER SCH 40 WELDED

Wall Thickness 0.109 - Grade B - Test Pressure 700  
PSI - Thread Length 0.78



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56244	x 42"	1/3	3.03	57244
56245	x 48"	1/3	3.48	57245
56246	x 60"	1/3	4.35	57246
56247	x 72"	1/3	5.22	57247

**WARNING:** This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.  
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# BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS

## 3/4" DIAMETER SCH 40 WELDED



Wall Thickness 0.113 -  
Grade B - Test Pressure  
700 PSI - Thread Length  
0.79



Part # Galv	Length	Box/Case	Approx. Wt. Lbs.	Part # Black
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
56254	x 42"	1/3	3.83	57254
56255	x 48"	1/3	4.40	57255
56256	x 60"	1/3	5.50	57256
56257	x 72"	1/3	6.60	57257

I hated every minute of training, but I said, 'Don't quit. Suffer now and live the rest of your life as a champion.'

- Muhammad Ali



# BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS



## 1" DIAMETER SCH 40 WELDED

Wall Thickness 0.133 - Grade  
B - Test Pressure 700 PSI -  
Thread Length 0.98



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56264	x 42"	1/3	5.48	57264
56265	x 48"	1/3	6.28	57265
56266	x 60"	1/3	7.85	57266
56267	x 72"	1/3	9.42	57267

Put your heart, mind, and soul into even your  
smallest acts. This is the secret of success.

- Swami Sivananda

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# BLACK AND GALVANIZED SCH 40

## NIPPLES AND FITTINGS



### 1-1/4" DIAMETER SCH 40 WELDED

Wall Thickness 0.14 - Grade  
B - Test Pressure 1300 PSI -  
Thread Length 1.01



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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



### 1-1/2" DIAMETER SCH 40 WELDED

Wall Thickness 0.145 - Grade  
B - Test Pressure 1300 PSI -  
Thread Length 1.03



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56154	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

# BLACK AND GALVANIZED SCH 40

NIPPLES AND FITTINGS



## 2" DIAMETER SCH 40 WELDED

Wall Thickness 0.154 - Grade  
B - Test Pressure 2500 PSI -  
Thread Length 1.06



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56173	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
56294	x 42"	1/3	12.63	57294
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	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56188	x 7"	1/10	3.27	57188
56189	x 8"	1/10	3.75	57189
56190	x 9"	1/10	4.24	57190
56191	x 10"	1/8	4.72	57191
56192	x 11"	1/8	5.21	57192
56193	x 12"	1/8	5.69	57193

**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](http://www.P65Warnings.ca.gov)



# BLACK AND GALVANIZED SCH 40

## NIPPLES AND FITTINGS



### 3" DIAMETER SCH 40 WELDED

Wall Thickness 0.216 - Grade  
B - Test Pressure 2500 PSI -  
Thread Length 1.64



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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 Pressure 2210 PSI -  
Thread Length 1.74



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
56330	x 7"	1/5	6.48	57330
56229	x 8"	1/5	7.01	57229
56331	x 9"	1/5	7.54	57331
56332	x 10"	1/5	8.14	57332
56228	x 12"	1/4	8.54	57228



VIEW PRICING AND AVAILABLE STOCK ONLINE

# NIPPLES AND ASSORTMENTS

## NIPPLES AND FITTINGS



### 6" DIAMETER SCH 40 WELDED

Wall Thickness 0.154 - Grade  
B - Test Pressure 2500 PSI -  
Thread Length 1.06



PART # GALV	LENGTH	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
56300	X Close (3-1/8")	1/1	3.80	57300
	x 4"	1/1	5.30	57304
	x 6"	1/1	8.30	57301
	x 8"	1/1	11.30	57305
	x 10"			57306
	x 12"	1/1	17.20	57308



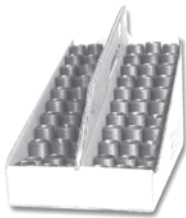
### 8" DIAMETER SCH 40 WELDED

Wall Thickness 0.154 - Grade  
B - Test Pressure 2500 PSI -  
Thread Length 1.06

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.
57-320	X Close (3-1/8")	1/1	5.80
57-322	x 6"	1/1	6.50
57-324	x 8"	1/1	11.30
57-326	x 10"	1/1	19.00
57-328	x 12"	1/1	28.55

## STEEL NIPPLE ASSORTMENTS

### B "6" ASSORTMENTS



BLACK		LENGTH											WT. LBS.	TOTAL PIECES		
		1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"					
973567	1/2"	6	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	6	27	66
973569	1"	6	6	6	6	6	6	6	6	6	6	6	6	6	34	60

GALV.		LENGTH											WT. LBS.	TOTAL PIECES		
		1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"					
973667	1/2"	6	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	6	27	66
973669	1"	6	6	6	6	6	6	6	6	6	6	6	6	6	34	60

### STEEL TOTE TRAYS



PART #	SIZE	CAPACITY
990781	1/2"	77pcs
990782	3/4"	66pcs
990783	1"	50pcs
990786	1-1/4"	40pcs
990784	1-1/2"	30pcs
990785	2"	27pcs

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](http://www.P65Warnings.ca.gov)



# BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS

## 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.
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.
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
59031SMLS	x 7"	40 / 80	0.30
59032SMLS	x 8"	40 / 80	0.35
59033SMLS	x 9"	40 / 80	0.39
59034SMLS	x 10"	40 / 80	0.44
59036SMLS	x 12"	40 / 80	0.53

 **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](http://www.P65Warnings.ca.gov)

# BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS

NIPPLES & FITTINGS

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.
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
59052SMLS	x 8"	40/80	0.47
59054SMLS	x 10"	40/80	0.53
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.
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
59073SMLS	x 9"	40/80	0.73
59074SMLS	x 10"	40 / 80	0.88
59075SMLS	x 11"	32/64	0.96
59076SMLS	x 12"	32 / 64	1.06

See our website for Schedule 80 Welded Black and Glavanized Steel Nipples

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# BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS



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.
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.
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
59114SMLS	x 11"	12 / 24	1.92
59115SMLS	x 12"	12 / 24	2.10

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# BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS



## 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.
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.
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
59152SMLS	x 9"	12 / 24	2.61
59153SMLS	x 10"	8 / 16	2.90
59154SMLS	x 11"	8 / 16	3.20
59155SMLS	x 12"	8 / 16	3.51

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# BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS



## 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.
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
59196SMLS	x 18"	1/1	7.22
59197SMLS	x 24"	1/1	9.74
59198SMLS	x 36"	1/1	14.61
59199SMLS	x 48"	1/1	19.48



## 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.
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



# BLACK SCH 80 SEAMLESS

NIPPLES AND FITTINGS

NIPPLES & FITTINGS



## 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.	
59-200SMLS	X Close (2-5/8")	1 / 16	1.79	----
59-201SMLS	x 3"	1 / 16	2.11	----
59-202SMLS	x 3-1/2"	1 / 16	2.55	----
59-203SMLS	x 4"	1 / 8	2.89	----
59-204SMLS	x 4-1/2"	1 / 8	3.30	----
59-205SMLS	x 5"	1 / 8	3.73	----
59-206SMLS	x 5-1/2"	1 / 8	4.17	----
59-207SMLS	x 6"	1 / 8	4.57	----
59-208SMLS	x 7"	1 / 6	5.45	----
59-209SMLS	x 8"	1 / 6	6.29	----
59-210SMLS	x 9"	1 / 6	7.17	----
59-211SMLS	x 10"	1 / 4	8.01	----
59-212SMLS	x 11"	1 / 4	8.85	----
59-213SMLS	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.	
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	
59226SMLS	x 7"	1/3	7.33	
59227SMLS	x 8"	1 / 3	9.23	
59228SMLS	9"			
59229SMLS	x 10"	1 / 3	11.73	
59231SMLS	x 12"	1 / 3	14.24	

## SCHEDULE 80 SEAMLESS



**6" DIAMETER**



**8" DIAMETER**

PART #	LENGTH	BOX/CASE	APPROX. WT. LBS.		PART #
			6"	8"	
59300SMLS	X Close	2	3.57	4.62	59-320SMLS
59301SMLS	x 6"	2	14.29	16.91	59-322SMLS
59305SMLS	x 8"	2	19.05	22.54	59-324SMLS
59306SMLS	x 10"	2	23.81	27.47	59-326SMLS
59308SMLS	x 12"	2	28.57	34.18	59-328SMLS

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# BLACK EXTRA HEAVY XXS SEAMLESS

NIPPLES AND FITTINGS



## 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.
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.
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.
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
59111SMLSXX	x 8"	1 / 25	1.88
59115SMLSXX	x 12"	1 / 15	2.15



## 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.
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
59169SMLSXX	x 7"	1 / 8	4.35
59170SMLSXX	x 8"	1 / 8	5.86
59171SMLSXX	x 9"	1 / 8	6.58
59172SMLSXX	x 10"	1 / 8	7.31
59174SMLSXX	x 12"	1 / 8	9.34
59179SMLSXX	x 24"	1 / 1	14.77

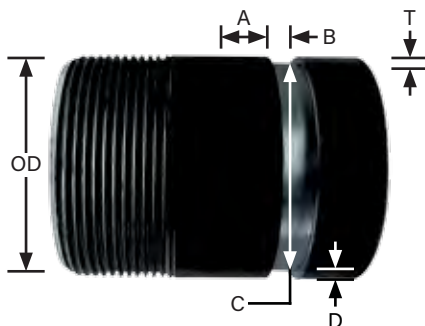
# SCH 40 AND SCH 80 GROOVE NIPPLES

NIPPLES AND FITTINGS

## THREAD X GROOVE



SCH 40



SCH 80

### 2" DIAMETER

PART #	LIST PRICE	BOX	WTG	LENGTH	WTG	BOX	PART #
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 #
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 #
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

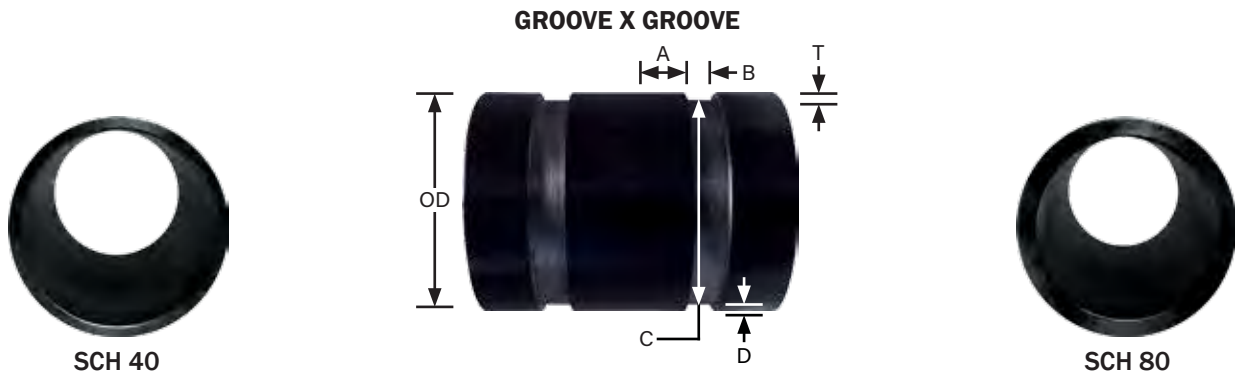


GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

**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](http://www.P65Warnings.ca.gov)

# BLACK SCH 40 AND SCH 80 SEAMLESS GROOVE NIPPLES

NIPPLES AND FITTINGS



2" DIAMETER							
PART #	BOX	WTG	LENGTH	WTG	BOX	PART #	
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 #	BOX	WTG	LENGTH	WTG	BOX	PART #	
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 #	BOX	WTG	LENGTH	WTG	BOX	PART #	
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

**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](http://www.P65Warnings.ca.gov)

NIPPLES & FITTINGS

# MERCHANT COUPLINGS

NIPPLES AND FITTINGS

## 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.

### MERCHANT COUPLINGS



• Straight threads thru 2"

PART # GALV	SIZE	PART # BLACK
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	SIZE	PART # BLACK
	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
64780H	3"	65780H
64781H	4"	65781H



### #304 STAINLESS STEEL MERCHANT COUPLINGS

PART #	SIZE
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 INCHES	WEIGHT 100 PCS APPROX.		QUANTITY PER BOX	THREADS PER INCH	THREADS TYPE
			POUNDS				
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

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





# 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: 300PSI

### API LINE PIPE COUPLINGS

PART #	NPT SIZE	THREADS PER INCH	OUTSIDE DIAMETER	LENGTH	UNIT WEIGHT
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
65779API	2-1/2"	8	3.375	4-1/8	3.28
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

I'm sorry, if you were right, I'd agree with you.

- Robin Williams



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!

# MALLEABLE FITTINGS

NIPPLES AND FITTINGS

## 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

F°	16.3			
	Class	Sizes	Sizes	Sizes
	150 PSIG	1/4-1 300#	1 1/4-2 300#	2 1/4-3 300#
-200-	300	2000	1500	1000
150				
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.

SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR MORE SIZES AND CONFIGURATIONS

### 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

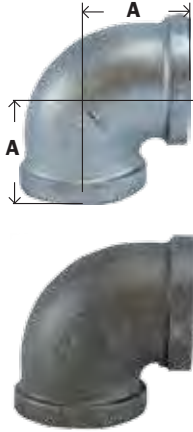


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# BLACK AND GALVANIZED IRON #150

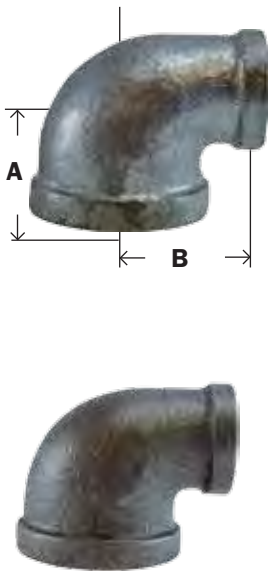
## NIPPLES AND FITTINGS

### ELBOWS 90°



Part # Galvanized	Size	A	Box/Case	Approx. Wt. Lbs.	Part # Black
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
	8"			41.1	65115

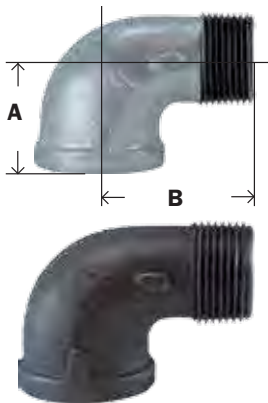
### REDUCING ELBOWS 90°



PART # GALVANIZED	SIZE	A	B	BOX/CASE	AP-PROX. WT. LBS.	PART # BLACK
64122	3/8" x 1/4"	0.88	0.90	90/360	0.16	65122
64123	1/2" x 1/4"	0.97	0.98	60/240	0.21	65123
64124	1/2" x 3/8"	1.04	1.03	60/240	0.24	65124
64126	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
64136	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 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
64148	3" x 1-1/2"	2.28	2.83	6/18	4.54	65148

SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR SIDE OUTLET ELBOWS

### 90° STREET ELBOWS



PART # GALVANIZED	SIZE	A	B	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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

# BLACK AND GALVANIZED IRON #150

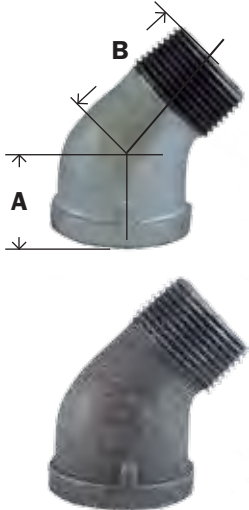
## NIPPLES AND FITTINGS

### ELBOWS 45°



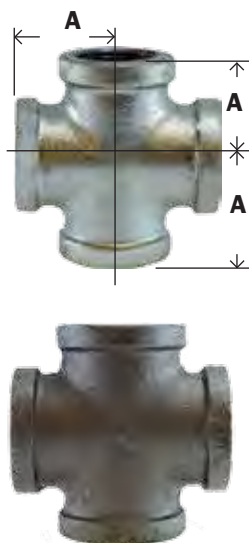
PART # GALVANIZED	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
64180	1/8"	0.63	50/600	.07	65180
64181	1/4"	0.73	30/360	.10	65181
64182	3/8"	0.80	75/300	.14	65182
64183	1/2"	0.88	50/200	.21	65183
64184	3/4"	0.98	40/120	.33	65184
64185	1"	1.12	20/60	.50	65185
64186	1-1/4"	1.29	20/40	.74	65186
64187	1-1/2"	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
	8"			26.40	65194

### 45° STREET ELBOWS



PART # GALVANIZED	SIZE	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
64-200	1/8"	0.63	0.83	70/840	.05	65-200
64-201	1/4"	0.73	0.94		.09	65-201
64-202	3/8"	0.80	1.03		.14	65-202
64-203	1/2"	0.86	1.30	75/225	.19	65-203
64-204	3/4"	0.96	1.48	40/120	.28	65-204
64-205	1"	1.10	1.69	25/75	.48	65-205
64-206	1-1/4"	1.26	1.87	10/40	.71	65-206
64-207	1-1/2"	1.40	2.05	10/30	1.02	65-207
64-208	2"	1.65	2.38	12/24	1.68	65-208
64-209	2-1/2"	1.95	2.72	6/12	2.69	65-209
64-210	3"	2.17	3.16	3/6	4.61	65-210

### CROSSES



PART # GALVANIZED	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
64390	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
64399	2-1/2"	2.71	4/8	5.49	65399
64400	3"	3.06	2/4	7.71	65400
	4"		1/1	14.77	65401

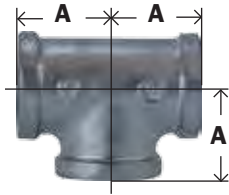
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# BLACK AND GALVANIZED IRON #150

## NIPPLES AND FITTINGS

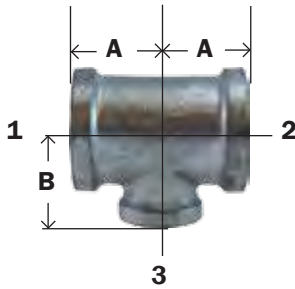
### TEES



PART # GALVANIZED	SIZE	A	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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
	8"			37.85	65264

### REDUCING TEES

(SAME SIZE ON RUN, REDUCING ON BRANCH)



PART # GALVA- NIZED	SIZE (1&2) X 3	A	B	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
64273	3/8" x 1/4"	0.81	0.90	25/300	.18	65273
64276	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
64282	3/4" x 1/4"	1.05	1.08	25/100	.43	65282
64283	3/4" x 3/8"	1.12	1.13	25/100	.39	65283
64286	3/4" x 1/2"	1.20	1.18	20/80	.49	65286
64268	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
64322	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
64334	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
64343	2-1/2" x 1-1/2"	2.16	2.51	5/10	2.97	65343
64729	3" x 1"	2.00	2.00	3/6	4.15	
	3" x 1-1/2"				5.19	65359
64351	3" x 2"	2.52	2.89	3/6	5.35	65351

**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](http://www.P65Warnings.ca.gov)

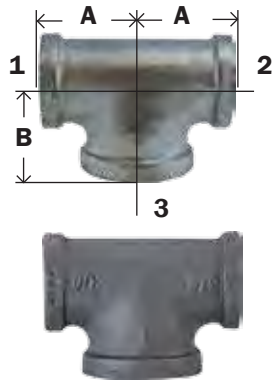
NIPPLES & FITTINGS



# BLACK AND GALVANIZED IRON #150

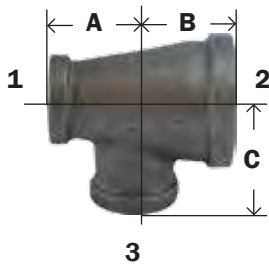
## NIPPLES AND FITTINGS

### BULLHEAD TEES



PART # GALVANIZED	SIZE (1&2) X 3	A	B	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
64280	1/2" x 3/4"	1.22	1.20	30/120	.4	65-280
64733	1/2" x 1"	1.36	1.26	25/100	.50	65-733
64289	3/4" x 1"	1.45	1.37	20/120	.60	65-289
64299	1" x 1-1/4"	1.67	1.58	15/30	.96	65-299
64300	1" x 1-1/2"	1.80	1.65	9/36	1.11	65-300
64317	1-1/4" x 1-1/2"	1.88	1.82	12/24	1.07	65-317

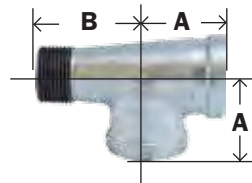
### REDUCING TEES REDUCING ON RUN



PART # BLACK	SIZE 1 X 2 X 3	A	B	C	BOX/CASE	APPROX. WT. LBS.
65-287	3/4" x 1/2" x 1/2"	1.18	1.18	1.20	25/100	0.39
65-288	3/4" x 1/2" x 3/4"	1.28	1.20	1.28	20/80	0.49
65-292	1" x 1/2" x 1/2"	1.31	1.22	1.31	20/80	0.51
65-293	1" x 1/2" x 3/4"	1.22	1.37	1.45	20/80	0.53
65-294	1" x 1/2" x 1"	1.40	1.50	1.50	15/60	0.54
65-295	1" x 3/4" x 1/2"	1.20	1.26	1.40	20/80	0.58
65-296	1" x 3/4" x 3/4"	1.34	1.28	1.42	15/60	0.63
65-297	1" x 3/4" x 1"	1.45	1.50	1.50	15/60	0.62
65-347	1-1/4" x 3/4" x 3/4"	1.31	1.45	1.64	10/40	0.66
65-305	1-1/4" x 3/4" x 1-1/4"	1.62	1.75	1.75	10/40	1.14
65-309	1-1/4" x 1" x 1"	1.55	1.47	1.63	20/40	1.00
65-346	1-1/4" x 3/4" x 1/2"	1.31	1.45	1.64	20/40	1.05
65-349	1-1/4" x 1" x 1/2"	1.26	1.34	1.53	20/40	1.10
65-350	1-1/4" x 1" x 3/4"					
65-310	1-1/4" x 1" x 1-1/4"	1.30	1.36	1.44	15/30	1.21
65-372	1-1/2" x 1" x 1"	1.50	1.65	1.78	15/30	1.28
65-375	1-1/2" x 1-1/4" x 3/4"	1.43	1.52	1.25	15/30	1.30
65-377	1-1/2" x 1-1/4" x 1-1/4"	1.75	1.82	1.88	15/30	1.35
65-267	2" x 3/4" x 2"					
65-312	2" x 1-1/2" x 1-1/4"	1.82	1.90	2.10	10/30	1.21
65-313	2" x 1-1/2" x 1-1/2"	1.94	2.02	2.16	10/30	1.79

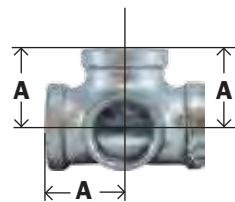
• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR GALVANIZED REDUCING TEE & MORE BLACK

### MALLEABLE SERVICE TEE (STREET TEE)



PART # GALVANIZED	SIZE	A	B	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
64363	1/2"	1.12	1.62	40/12	0.31	65-363
64364	3/4"	1.31	1.89	25/75	0.49	65-364

### SIDE OUTLET TEES



PART # GALVANIZED	SIZE	A	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
64383	1/2"	1.12	25/100	.39	65383
64384	3/4"	1.31	15/60	.58	65384
64385	1"	1.50	20/40	.88	65385
64386	1-1/4"	1.75	12/24	1.32	65386
	1-1/2"	1.97	1/1	1.56	65387
	2"	2.29	1/1	1.81	65388

# BLACK AND GALVANIZED IRON #150

## NIPPLES AND FITTINGS

### COUPLINGS



PART # GALVANIZED	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
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



SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR MORE SIZES

PART # GALVANIZED	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
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
64439	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
64460	1-1/4" x 3/8"	2.06	25/75	.55	65460
64444	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
64443	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
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
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
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

# BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

## HEX BUSHING



SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR MORE SIZES



\* INSIDE HEX

PART #	SIZE	A	HEX	BOX/	APPROX.	PART #
GALVANIZED	M X F			CASE	WT. LBS.	BLACK
64500	*1/4" x 1/8"	0.79	0.67	1/25	.03	65500
64501	*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
64503	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
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
64514*	1-1/4" x 1/4"	1.24	1.12	30/120	.29	65514*
64515*	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
64551	4" x 3/4"	2.15	4.90	5/10	3.88	65551
64553*	4" x 1"	2.00	4.75	5/10	3.79	65553*
64552	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
64545*	6" x 4"	2.33	5.79	2/4	7.11	65545*

NOTE: ADD DT TO THE PART# FOR A DOUBLE-TAPPED BUSHING

# BLACK AND GALVANIZED IRON #150

## NIPPLES AND FITTINGS

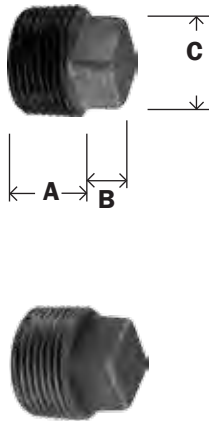
### UNIONS



• Brass Seat

PART # GALVANIZED	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
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 • Cored



PART # GALVANIZED	SIZE	A	B	C	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
64651	*1/8"	0.41	0.23	0.30	1/25	.02	65650
64652	*1/4"	0.48	0.28	0.38	1/25	.03	65651
64653	*3/8"	0.53	0.31	0.43	1/25	.04	65652
64654	1/2"	0.58	0.38	0.56		.08	65653
64655	3/4"	0.65	0.44	0.63		.13	65654
64656	1"	0.75	0.50	0.82	20/240	.22	65655
64657	1-1/4"	0.82	0.56	0.94	40/120	.33	65656
64658	1-1/2"	0.85	0.62	1.13	30/90	.41	65657
64659	2"	0.91	0.68	1.31	20/60	.68	65658
64660	2-1/2"	1.26	0.74	1.50	16/64	.89	65659
64661	3"	1.16	0.80	1.69	16/32	1.68	65660
64662	4"	1.22	1.00	2.28	6/12	3.02	65661
64663	6"	1.85	1.13	5.97	5/10	11.41	65662
64664	8"				1/1		65664

### CAPS



PART # GALVANIZED	SIZE	A	BOX/ CASE	APPROX. WT. LBS.	PART # BLACK
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 page 313-314 for Galvanized and Black Steel Fittings.

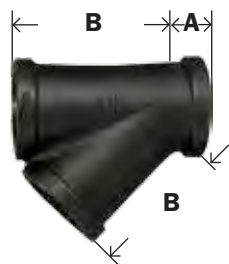
**WARNING:** This product can expose you to chemicals, including Chromium, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

NIPPLES & FITTINGS

# BLACK AND GALVANIZED IRON #150

## NIPPLES AND FITTINGS

### LATERAL Ys



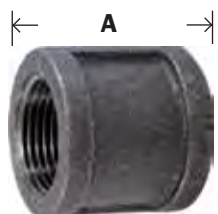
PART #	SIZE	A	B	CASE	WEIGHT
65963	1/2	2.32	1.71	120	.35
65964	3/4	2.77	2.05	60	.58
65965	1	3.28	2.42	40	.97
65966	1-1/4	3.94	2.92	24	1.44
65967	1-1/2	4.38	3.28	16	1.93
65968	2	5.41	3.98	8	3.12
65969	2-1/2	6.25	4.73	4	5.61
65970	3	7.26	5.55	2	8.36
65971	4	8.98	6.97	2	14.88

### LOCKNUTS



PART # GALV	SIZE	A HEX	THICK-NESS	BOX/ CASE	WEIGHT	PART # BLACK
64703	1/2		0.31	150/600	0.08	65703
64704	3/4		0.34	90/360	0.13	65704
64705	1		0.38	60/240	0.19	65705
64706	1-1/4		0.42	45/180	0.27	65706
64707	1-1/2		0.47	45/135	0.47	65707
64708	2		0.53	25/75	0.56	65708

### RIGHT & LEFT COUPLINGS



PART # GALV	SIZE	A	CASE	WEIGHT	PART # BLACK
64573	1/2	1.34	240	0.19	65-573
64574	3/4	1.52	150	0.28	65-574
64575	1	1.67	100	0.45	65-575
64576	1-1/4	1.93	64	0.66	65-576
64577	1-1/2	2.15	36	0.84	65-577
64578	2	2.53	24	1.39	65-578

### SIDE OUTLET ELBOW



PART # GALV	SIZE	A	B	CASE	PART # BLACK
64583	1/2	1.10		135	65583
64584	3/4	1.30		80	65584
64585	1	1.50		40	65585
64586	1-1/4	1.77		30	65586
64587	1-1/2	1.97		24	65587
64588	2	2.29		10	65588



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

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](http://www.P65Warnings.ca.gov)

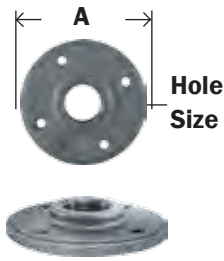




# BLACK AND GALVANIZED IRON #150

NIPPLES AND FITTINGS

## FLOOR FLANGES



PART # GALVANIZED	SIZE	A	THICKNESS	HOLE SIZE	BOX/CASE	APPROX. WT. LBS.	PART # BLACK
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

## EXTENSION FIP X MIP



PART #	SIZE	APPROX. WT. LBS.	BOX/CASE
65-621	1/2"	0.12	75 / 300
65-622	3/4"	0.23	40 / 160

## MUSHROOM VENT CAP

Cast Iron Galvanized Threaded Cap. 30 Mesh screen. Protects against driving rain, snow, sleet and insects.



More sizes available - see website

PART #	SIZE
21174	3/4"
21175	1"
21176	1-1/2"
21177	1-1/2"
21178	2"
21179	3"
21180	4"

SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR:



DOUBLE TAPPED BUSHINGS



DUPLEX TANK BUSHINGS



WASTE NUT

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](http://www.P65Warnings.ca.gov)

# STEEL FITTINGS

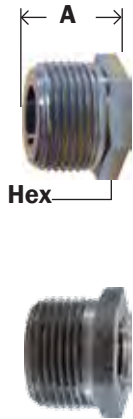
NIPPLES AND FITTINGS

## 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	SIZE M X F	A	HEX	APPROX. WT. LBS.	PART # BLACK
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
	1-1/4" x 1/8"	1.08	1.31	0.16	67514

### FACE BUSHING



PART # ZINC	SIZE M X F	A	APPROX. WT. LBS.	PART # BLACK
66700	1/4" x 1/8"	0.44	0.01	67700
66701	3/8" x 1/8"	0.48	0.02	67701
66702	3/8" x 1/4"	0.48	0.02	67702
	1/2" x 1/8"	0.56	0.04	67703
66704	1/2" x 1/4"	0.56	0.04	67704
66705	1/2" x 3/8"	0.56	0.04	67705
	3/4" x 1/4"	0.62	0.12	67707
66708	3/4" x 3/8"	0.62	0.10	67708
66709	3/4" x 1/2"	0.62	0.10	67709
	1" x 3/8"	0.75	0.18	67711
66712	1" x 1/2"	0.75	0.16	67712
66713	1" x 3/4"	0.75	0.16	67713

### CAPS



PART # ZINC	SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK
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
66475	1"	1.16	1.50	0.30	67475
66476	1-1/4"	1.28	2.00	0.68	67476
66477	1-1/2"	1.35	2.25	0.83	67477
66478	2"	1.45	2.625	1.36	

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](http://www.P65Warnings.ca.gov)

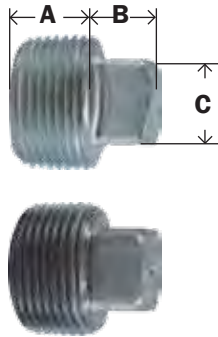
# STEEL FITTINGS

## NIPPLES AND FITTINGS

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	SIZE NPTF	A	B	C	APPROX. WT. LBS.	PART # BLACK
	1/16"	0.33	0.18	0.22	0.01	67669
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	SIZE NPTF	A	HEX	APPROX. WT. LBS.	PART # BLACK
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	SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK
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	SIZE NPTF	A	SOCKET SIZE	APPROX. WT. LBS.	PART # BLACK
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

# BLACK EXTRA HEAVY 300# IRON

## NIPPLES AND FITTINGS

### 300# MALLEABLE

#### 90° ELBOW



PART #	SIZE
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
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
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
69252	3/8"
69253	1/2"
69254	3/4"
69255	1"
69256	1-1/4"
69257	1-1/2"
69258	2"

#### COUPLING



PART #	SIZE
69411	1/4"
69412	3/8"
69413	1/2"
69414	3/4"
69415	1"
69416	1-1/4"
69417	1-1/2"
69418	2"

SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR MORE SIZES AND GALVANIZED



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

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# BLACK EXTRA 300# IRON

## NIPPLES AND FITTINGS

### REDUCING COUPLING



PART #	SIZE
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
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
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:

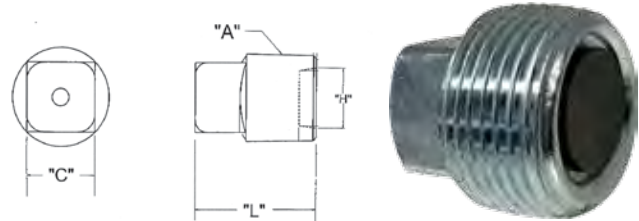
- The constant flaking effect of normal wear of moving parts.
- Particles not removed by flushing operations after boring or machining.
- Chipping due to sub-surface casting flaws.
- Minute component breakdown caused by stress usage.

**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"
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 1/2	.803 - .815	.895 - .905	1.25 - 1.33



# BULL PLUGS AND SWAGS

## NIPPLES AND FITTINGS

# BULL PLUGS AND SWAGES

### STANDARD BULL PLUG

- Sch 40 150#
- Zinc plated



PART #	DESCRIPTION
91008	2"
91007	2" w/ 1/2" TAP
91009	2-1/2"
91010	3"
91011	4"

### XH BULL PLUG

- Made from sch. 80 pipe.
- Zinc plated
- Hollow



PART #	DESCRIPTION
90001	1/4"
90002	3/8"
90003	1/2"
90004	3/4"
90005	1"
90006	1-1/4"
90007	1-1/2"
90008	2"
93001*	2"
90213	2" w/ 1/4" TAP
90212	2" w/ 1/2" TAP
93212*	2"XXH w/1/2" TAP
90009	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
93113	1-1/4" x 1"
93121	2" x 1"
93122	2" x 1-1/4"
93123	2" x 1-1/2"
93124	2-1/2" x 2"
93125	3" x 1"
93127	3" x 1-1/2"
93128	3" x 2"
93129	3" x 2-1/2"
93130	4" x 2"
93131	4" x 3"
93139	6" x 3"

**Pressure Ratings:** Due to the wide variation in service conditions, temperature, vibrations, etc...Midland Industries can make no recommendations as to allowable working pressure of swage nipples and bull plugs. There are a number of working pressure formulas from which the end user may choose to determine the required wall thickness of the piping system. It is our responsibility only to furnish a fitting with end dimensions equal to those of the pipe size and schedule ordered.


**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](http://www.P65Warnings.ca.gov)

# SWAGES

## NIPPLES AND FITTINGS

### SCH 80 XH SWAGES

#### MIP X MIP



\* Hex Style



### XXH SWAGE



PART #	DESCRIPTION
90100*	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"
90108*	1" x 1/4"
90109*	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"
90118	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"
90125	3" x 1"
90126	3" x 1-1/4"
90127	3" x 1-1/2"
90128	3" x 2"
90129	3" x 2-1/2"
90133	4" x 1"
90130	4" x 2"
90131	4" x 3"
90132	6" x 4"
90150	6" x 2"
90152	6" x 3"

PART #	DESCRIPTION
92102*	1/2" x 1/4"
92107*	3/4" x 1/2"
92108*	1" x 1/4"
92109*	1" x 3/8"
92110*	1" x 1/2"
92111*	1" x 3/4"
92114	1-1/2" x 1/2"
92115	1-1/2" x 3/4"
92116	1-1/2" x 1"
92119	2" x 1/2"
92120	2" x 3/4"
92121	2" x 1"
92122	2" x 1-1/4"
92123	2" x 1-1/2"
92128	3" x 2"

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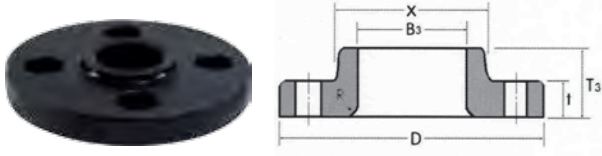
# FORGED STEEL FLANGES

NIPPLES AND FITTINGS

ASTMA105  
ASME SA105  
ANSI B16.5

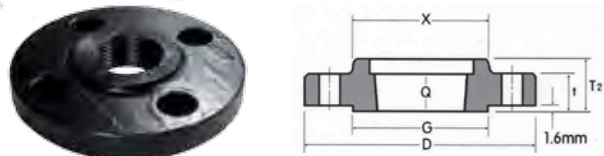
## CARBON STEEL FLANGES

• 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
107020	1/2"
107021	3/4"
107022	1"
107023	1-1/4"
107024	1-1/2"
107025	2"
107026	2-1/2"
107027	3"
107029	4"
107031	6"
107032	8"
107033	10"
107034	12"



**THREADED 1/16" RAISED FACE CARBON STEEL FLANGE**

PART #	SIZE
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"
107074	12"

Nominal Pipe Size	Depth of Socket in. Y	Bolt Circle Diameter	Number of Holes	Diameter of Holes	Diameter of Bolts (inch)	Machine Bolt Length			Welding Neck LBS	Slip-on and Threaded LBS	Blind LBS
						Raised Face	Raised Face	Ring Joint			
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 Cobalt, which are known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# FORGED STEEL FLANGES

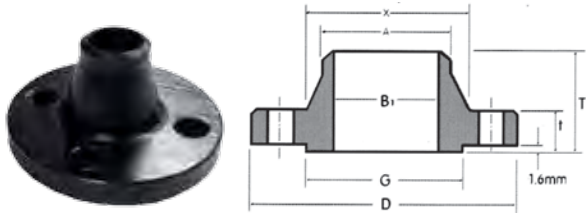
## NIPPLES AND FITTINGS

ASTMA105  
ASME SA105  
ANSI B16.5

• A105 Forged Steel

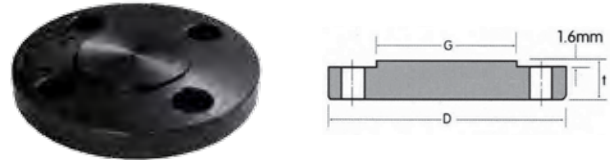
• CLASS 150

( 1-1/2 thru 6" available in #316 Stainless Steel add SS to part# )



**WELD NECK CARBON STEEL FLANGE**

Part #	Size	
107000	1/2"	
107001	3/4"	
107002	1"	
107003	1-1/4"	
107004	1-1/2"	
107005	2"	
107006	2-1/2"	
107007	3"	
107009	4"	
107011	6"	
107012	8"	
107013	10"	
107014	12"	



**BLIND 1/16" RAISED FACE CARBON STEEL FLANGE**

PART #	SIZE	
107040	1/2"	
107041	3/4"	
107042	1"	
107043	1-1/4"	
107044	1-1/2"	
107045	2"	
107046	2-1/2"	
107047	3"	
107049	4"	
107051	6"	
107052	8"	
107053	10"	
107054	12"	

Nominal Pipe Size	Outside Diameter	O.D of Raised Face	Diameter at Base of Hub	Thickness	Welding Neck Socket Welding	Welding Neck	Slip-on Threaded Socket Welding
	D	G	X		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

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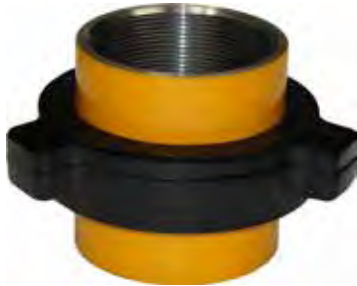
# HAMMER UNIONS

NIPPLES AND FITTINGS

## 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"



# COPPER FITTINGS



**SYMBOL OF JOINT ENDS**

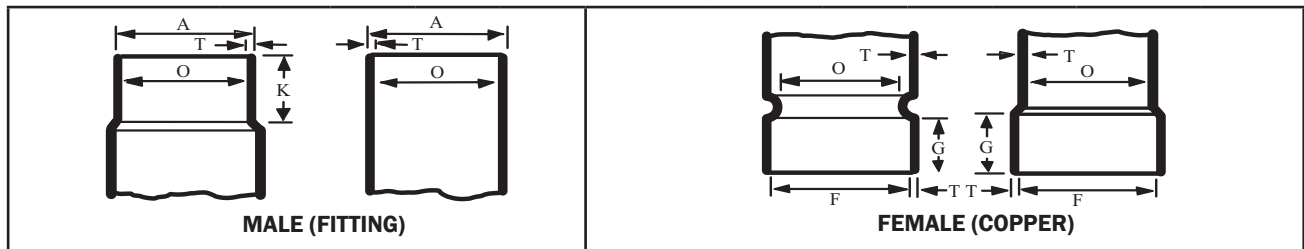
- C** Solder joint fitting end made to receive copper tube diameter
- Ftg.** Solder joint fitting end made to copper tube diameter
- F** Internal ANSI Standard Taper Pipe Thread-Female
- M** External ANSI Standard Taper Pipe Thread-Male  
Threaded ends ANSI/ ASME B1. Solder ends ASTM B88

- Temp range 32° to 200°F
- Pressure @100° - 1/8-1 : 500 PSI  
- 1-1/4-2 : 400 PSI  
- 2-1/2 - 3: 300 PSI

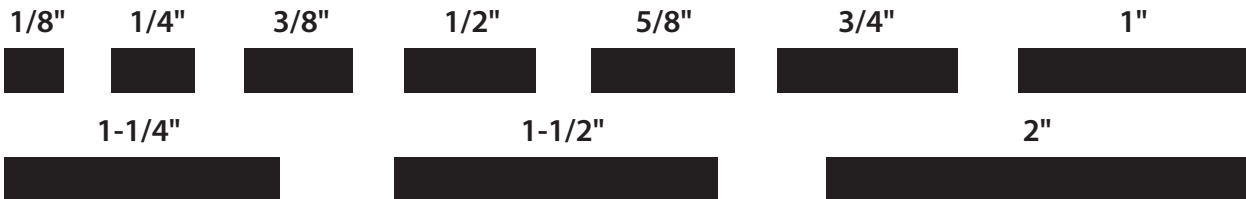
**NSF - 61 CERTIFIED  
ALLOY C12200**

**PRICING FILE AVAILABLE ONLINE**

**THE ABOVE CONFORMS TO ASTM B 88 & ASTM B 306, A 306**



Nom-inal Size	Joint Ends										Metal Thick-ness T (in)	Inside Diam-eter O (in)
	Male End					Female End						
	Outside Diam-eter (A) in	Average Toler-ance (mm)	Ac-tual MIN in	O.D. MAX in		Inside Diam-eter F (in)	Average Toler-ance (mm)	Ac-tual MIN in	O.D. MAX in			
1/8	2/8	0.03	2/8	2/8	3/8	2/8	0.03	2/8	2/8	3/8	0	2/8
1/4	3/8		3/8	3/8	3/8	3/8		3/8	3/8	3/8	0	2/8
3/8	4/8		4/8	4/8	3/8	4/8		4/8	4/8	3/8	0	3/8
1/2	5/8		5/8	5/8	4/8	5/8		5/8	5/8	3/8	0	4/8
5/8	6/8		6/8	6/8	5/8	6/8		6/8	6/8	5/8	0	4/8
3/4	7/8		7/8	7/8	6/8	7/8		7/8	7/8	5/8	0	5/8



# WROT SOLDER JOINT

## NIPPLES AND FITTINGS

### 90° ELL C X C



PART#	NOMINAL (ID)	OD	APPROX NET WT.	IND #
77100	1/8"	1/4"	0.01	W 02003
77101	1/4"	3/8"	0.01	W 02009
77102	3/8"	1/2"	0.03	W 02017
77104	1/2"	5/8"	0.04	W 02022
77107	5/8"	3/4"	0.07	W 02028
77108	3/4"	7/8"	0.09	W 02034
77110	1"	1-1/8"	0.17	W 02047
77113	1-1/4"	1-3/8"	0.27	W 02077
77114	1-1/2"	1-5/8"	0.41	W 02085
77116	2"	2-1/8"	0.73	W 02086

WE-500-R 607-R 107-C

### 90° STREET ELL FTG. X C



77124	1/4"	3/8"	0.01	W 02312
77125	3/8"	1/2"	0.03	W 02321
77126	1/2"	5/8"	0.05	W 01652
77127	5/8"	3/4"	0.07	W 02330
77128	3/4"	7/8"	0.12	W 01654
77129	1"	1-1/8"	0.22	W 02344
77130	1-1/4"	1-3/8"	0.33	W 02384
77131	1-1/2"	1-5/8"	0.45	W 02385
77132	2"	2-1/8"	0.87	W 02386

### 90° LONG TURN ELL C X C



77139	1/8"	1/4"	0.01	W 02715
77140	1/4"	3/8"	0.02	W 02716
77141	5/16"		0.03	
77142	3/8"	1/2"	0.04	W 02717
77143	1/2"	5/8"	0.06	W 02722
77144	5/8"	3/4"	0.10	W 02728
77145	3/4"	7/8"	0.15	W 02734

WE-500-L 607-LT 107-L

### 90° LONG TURN ST. ELL FTG. X C



77154	3/8"	1/2"	0.04	W 02817
77155	1/2"	5/8"	0.06	W 02822
77156	5/8"	3/4"	0.11	
77157	3/4"	7/8"	0.15	
77158	1"	1-1/8"	0.33	
77159	1-1/4"	1-3/8"	0.46	W 02828
77160	1-1/2"	1-5/8"	0.64	W 02834

WE-503-L 607-2LT

\* See [midlandindustries.com](http://midlandindustries.com) for larger sizes

# WROT SOLDER JOINT

## NIPPLES AND FITTINGS

### 45° ELL C X C



PART#	NOMINAL	APPROX NET WT.	IND #
77161	1/8"	0.01	W 03005
77162	1/4"	0.01	W 03012
77163	3/8"	0.02	W 03021
77164	1/2"	0.04	W 03026
77165	5/8"	0.06	W 03030
77166	3/4"	0.10	W 03034
77167	1"	0.19	W 03044
77168	1-1/4"	0.27	W 03050
77169	1-1/2"	0.39	W 03055
77170	2"	0.75	W 03059

WE-504 606 106

### STREET 45° FTG. X C



77177	1/4"	0.01	W 03312
77178	3/8"	0.02	W 03321
77179	1/2"	0.06	W 03326
77180	5/8"	0.06	W 03330
77181	3/4"	0.10	W 03334
77182	1"	0.18	W 03344
77183	1-1/4"	0.27	W 03350
77184	1-1/2"	0.38	W 03355
77185	2"	0.75	W 03359

WE-505 606-2

### COUPLING (SOCKET) W/ ROLLED UP TUBE STOP C X C



77201	1/8"	0.01	W 01003
77202	1/4"	0.01	W 01009
77203	3/8"	0.02	W 01017
77204	1/2"	0.03	W 01022
77205	5/8"	0.04	W 01028
77206	3/4"	0.06	W 01034
77207	1"	0.10	W 01047
77208	1-1/4"	0.15	W 01055
77209	1-1/2"	0.22	W 01063
77210	2"	0.39	W 01072

WC-400 100

### COUPLING (SOCKET) LESS TUBE STOP C X C



77219	1/8"	0.01	W 01900
77220	1/4"	0.01	W 01901
77222	1/2"	0.03	W 01903
77223	3/4"	0.06	W 01905
77224	1"	0.10	W 01906
77225	1-1/4"	0.15	W 01907
77226	1-1/2"	0.22	W 01908

WC-400NS 601

\* See [midlandindustries.com](http://midlandindustries.com) for larger sizes

## WROT SOLDER JOINT

### NIPPLES AND FITTINGS

#### COUPLING (SOCKET) W/ DIMPLED TUBE STOP C X C



Part#	Nominal	Approx Net Wt.	Ind #
77238	1/2"	0.03	
77240	3/4"	0.06	
77241	1"	0.10	
77242	1-1/4"	0.15	
77244	2"	0.39	

WC-400S

#### REDUCER COUPLING W/ STOP C X C



77252	1/4" x 1/8"	0.01	W 01011
77254	3/8" x 1/8"		
77253	3/8" x 1/4"	0.02	W 01019
77256	1/2" x 1/4"	0.03	W 01023
77255	1/2" x 3/8"	0.03	W 01021
77258	5/8" x 1/2"	0.04	W 01025
77263	3/4" x 3/8"	0.06	W 01036
77262	3/4" x 1/2"	0.06	W 01029
77267	1"x1/2"	0.10	W 01049
77265	1"x3/4"	0.12	W 01038
77270	1 -1/4" x 1/2"	0.14	W 01058
77269	1 -1/4" x 3/4"	0.17	W 01056
77268	1-1/4" x 1"	0.17	W 01051
77273	1 -1/2" x 3/4"	0.25	W 01065
77272	1-1/2" x 1"	0.24	W 01064
77271	1-1/2" x 1-1/4"	0.24	W 01060
77277	2" x 1"	0.48	W 01074
77276	2 x 1-1/4"	0.46	W 01073
77275	2" x 1-1/2"	0.42	W 01069
77280	2-1/2"x2"	0.79	W 01075

#### FITTING REDUCER FTG. C X C

• 21 more sizes available - see website

WC-400R 600-R



77292	3/8" x 1/8"	0.01	W 01314
77291	3/8" x 1/4"	0.02	W 01312
77294	1/2" x 1/4"	0.03	W 01317
77293	1/2" x 3/8"	0.03	W01315
77295	5/8" X 1/2"	0.03	W 01320
77298	3/4" x 3/8"	0.05	W 01327
77297	3/4" x 1/2"	0.06	W 01326
77296	3/4" x 5/8"	0.08	W 01325
77352	1" x 1/2"	0.10	W 01265
77300	1"x3/4"	0.11	W 01337
77355	1 -1/4" x 3/4"	0.15	W 01345
77354	1-1/4" x1"	0.17	W 01343
77360	1 -1/2" x 1/2"	0.21	W 01355
77359	1 -1/2" x 3/4"	0.21	W 01353
77358	1-1/2"x1"	0.22	W 01351
77357	1 -1/2" X 1-1/4"	0.21	W 01350
77365	2" x 1/2"	0.44	W 01364
77363	2" x 1"	0.40	W 01360
77361	2" x 1-1/2"	0.39	W 01358

\* See [midlandindustries.com](http://midlandindustries.com) for more sizes

WC-403 600-2

# WROT SOLDER JOINT

NIPPLES AND FITTINGS

## MALE ADAPTER C X M



PART#	NOMINAL	APPROX NET WT.	IND #
77393	1/8"	0.02	
77394	1/4"	0.04	
77398	3/8"	0.06	W 01125
77401	1/2"	0.08	WB01131
77306	3/4"	0.14	WB01146
77309	1"	0.24	WB01163
77314	1-1/4"	0.41	W 01171
77318	1-1/2"	0.50	W 01179
77322	2"	0.87	W 01187
77395	1/4" x 1/2"	0.09	W 01113
77308	3/8" x 1/2"		
77311	1/2" x 3/8"	0.18	
77303	1/2" x 3/4"	0.16	W 01130
77315	3/4" x 1/2"	0.31	
77307	3/4" x 1"	0.29	W 01145
77312	1" x 3/4"	0.18	W 01164

• 14 more reducing sizes available

WC-401 604

## FTG. MALE ADAPTER FTG. X M



77331	1/2"	0.09	W 01431
77333	3/4"	0.15	W 01446
77334	1"	0.15	W 01463
77335	1-1/4"	0.41	W 01471
77336	1-1/2"	0.41	W 0147X9
77337	2"	0.86	W 01487

WC-404 604-2

## COPPER TUBING

SEE COPPER TUBING FOR REFRIGERATION AND DRINKING WATER ON PAGE 442



Two roads diverged in a wood and I - I took the one less traveled by, and that has made all the difference.

- Robert Frost



# WROT SOLDER JOINT

NIPPLES AND FITTINGS

## FEMALE ADAPTERS C X F



PART#	NOMINAL	APPROX NET WT.	IND #
77343	1/2"	0.10	WB01231
77349	3/4"	0.14	WB01246
77402	1"	0.24	WB01263
77406	1-1/4"	0.43	W 01271
77410	1-1/2"	0.58	W 01279
77413	2"	0.74	W 01287
77341	3/8" x 1/2"	0.10	W 01224
77347	1/2" x 1/4"	0.05	W 01233
77346	1/2"x3/8"	0,70	W 01232
77345	1/2" x 3/4"	0.15	WB01230

## FEMALE FTG. ADAPT. FTG. X F



77419	3/8"	0.05	W 01525
77420	1/2"	0.11	W 01531
77423	3/4"	0.19	W 01546
77424	1		

• More sizes available

WC402 603 WC402R 603R

## CAP



77429	1/4"	0.01	W 07004
77430	3/8"	0.01	W 07006
77431	1/2"	0.02	WB07007
77432	5/8"	0.03	W 07008
77433	3/4"	0.04	WB07009
77434	1"	0.08	WB07011
77435	1-1/4"	0.11	W 07012
77436	1-1/2"	0.18	W 07013
77437	2"	0.30	W 07014

WC405 603-2 WC405R 603R

## UNIONS C X C



• LF = Lead Free

77453	1/4"	0.11	W 08001
77454	3/8"	0.11	W 08002
77455LF	1/2"	0.17	W 08003
77456LF	3/4"	0.37	W 08004
77457LF	1"	0.51	W 08005
77606LF	1-1/4"	0.98	W08006
77607LF	1-1/2"	1.21	W08007
77608LF	2"		W08008

WC-415 617

## U-TYPE STRAP



77461	1/2"	0.03	A 02529
77462	3/4"	0.03	A 02574
77463	1"	0.04	A 02614
77464	1-1/4"	0.04	A 02650

WC-407

WS-1100

# WROT SOLDER JOINT

## NIPPLES AND FITTINGS

**TEE  
C X C X C**



PART#	NOMINAL 1 X 2 X 3	APPROX NET WT.	IND #
77467	1/8"	0.02	W 40306
77468	1/4"	0.03	W 04000
77470	3/8"	0.05	W 04001
77473	1/2"	0.08	WB04006
77481	5/8"	0.12	W 04017
77483	3/4"	0.18	WB04031
77490	1"	0.35	WB04048
77504	1-1/4"	0.58	W 04068
77519	1-1/2"	0.72	W 04084
77543	2"	1.35	W 40102
77489	3/4"x1/2"x1/2"	0.15	WB04043
77488	3/4" x 1/2" x 3/4"	0.19	WB04041
77486	3/4" x 3/4" x 1/2"	0.15	WB04033
77485	3/4"x3/4"x1"	0.25	W 04065
77501	1"x1/2"x1"	0.34	W 04061
77499	1"x3/4"x3/4"	0.31	W 04056
77498	1"x3/4"x1"	0.38	W 04055
77496	1"x1"x1/2"	0.24	WB04051
77493	1"x1"x3/4"	0.29	WB04049
77518	1 -1/4"x 1/2" x 1-1/4"	0.58	W 04083
77514	1 -1/4" x 3/4" x 1-1/4"	0.63	W 04078
77508	1-1/4" x 1-1/4" x 3/4"	0.39	W 04070
77507	1-1/4"x1-1/4"x1"	0.47	W 04069
77506	1 -1/4" x1 -1/4" x 1-1/2"	0.79	W 40100
77523	1 -1/2" x 1-1/2" x 3/4"	0.51	W 04087
77522	1-1/2" x 1-1/2" x1"	0.60	W 04086
77549	2"x2"x1/2"	0.77	W 40107
77548	2" x 2" x 3/4"	0.90	W 40106
77547	2"x2"x1"	0.99	W 40105

WT-600 611

### DROP EAR ELBOWS



• Lead Free Bronze • Lead Free Brass

• Lead Free Brass

• Lead Free Bronze

PART #	SWT X FIP
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
44844LF	1/2 x 1/2

PART #	PEX X FIP
44845LF	1/2 x 1/2



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

\* See website for larger sizes

# PLASTIC FITTINGS



### SCH 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

### PIPE FITTINGS



- Nylon
- Polyethylene
- Polypropylene

### HOSE BARB FITTINGS



- Nylon
- Polyethylene
- Polypropylene

### NYLON & POLYPROPYLENE COMPRESSION FITTINGS



### POLYPROPYLENE PUSH-IN TUBE FITTINGS AND VALVES



### GARDEN HOSE FITTINGS



- Nylon

Machined Schedule 80 PVC nipples comply fully with ASTM D2464,

- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

### SCH 40 PVC FITTINGS



- NSF 61 certified for use with drinking (potable) water
- Max Temperature: 140°F
- Max Pressure: Not Rated

Resistant to corrosion, strong and rigid - commonly used in low pressure plumbing applications. ASTM D1784 and D2466.

### SCH 80 PVC FITTINGS



PVC Material is Type 1 according to the American Society for Testing Materials (ASTM) D-1784. Fittings conform to ASTM D-2464 & ASTM D-2467. Temperature rating is 140°F. PSI is based on water at 73°F. Derate 50% at 110°F and 78% at 140°F. Not recommended for use in compressed air or gas systems.

SEE MIDLAND BLANKET ORDER PROGRAM FOR PVC FITTINGS

PRICING FILE AVAILABLE ONLINE

SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM)

SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM)

# PLASTIC PIPE

## PLASTIC FITTINGS

# 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
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	12"
55076	12"
55240	18"
55241	24"
55243	36"
55244	48"
55245	60"

### 3/4" DIAMETER 340 PSI

PART #	LENGTH
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"
55099	36"
55246	48"
55247	60"

### 1" DIAMETER 315 PSI

PART #	LENGTH
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"
55118	48"

### 1-1/4" DIAMETER 210 PSI

PART #	LENGTH
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"
55131	8"
55132	12"
55133	18"
55134	36"
55135	48"

# PLASTIC PIPE

## PLASTIC FITTINGS

### 1-1/2" DIAMETER 234 PSI

Part #	Length	
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"	
55152	18"	
55153	24"	
55154	36"	
55155	48"	

### 2" DIAMETER 200 PSI

Part #	Length	
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"	
55175	18"	
55176	24"	
55177	36"	
55178	48"	
55179	60"	

### 2-1/2" DIAMETER

Part #	Length	Box/Case	
55180	x Close (2")	25	
55181	3"	30	
55182	4"	25	
55183	5"	25	
55184	6"	25	
55185	8"	16	
55186	10"	16	
55187	12"	16	
55190	18"	20	
55191	24"	10	
55192	36"	3	
55193	48"	3	
55194	60"		

### 3" DIAMETER

Part #	Length	Box Qty	
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	
55214	18"		
55215	24"		
55216	36"		
55217	48"		
55218	60"		

### 4" DIAMETER

Part #	Length	Box Qty	
55230	x Close	25	
55231	4"	18	
55232	5"	20	
55233	6"	20	
55234	8"	10	
55235	12"	10	
55236	18"		
55237	24"		
55238	36"		
55239	48"		
55242	60"		

If there were no night, we would not appreciate the day, nor could we see the stars and the vastness of the heavens. We must partake of the bitter with the sweet. There is a divine purpose in the adversities we encounter every day. They prepare, they purge, they purify, and thus they bless.

- James E. Faust



# 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 maximum.

## (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
28702P	3/8"
28704P	3/4"



**W**

#### NYLON ELBOWS

Part #	Size
28701W	1/4"
28703W	1/2"
28704W	3/4"
28705W	1"
28706W	1-1/4"
28707W	1-1/2"

### TEE



**P**

#### POLYPROPYLENE TEES

Part #	Size
28741P	1/4"
28742P	3/8"
28743P	1/2"
28744P	3/4"



**W**

#### NYLON TEES

Part #	Size
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
28819P	1/8"
28723P	1/2"
28820P	2"
28821P	3"



**W**

#### NYLON STREET ELBOW

Part #	Size
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"
28820W	2"

### HEX HEAD PLUGS

• Cored



**B**

#### POLYETHYLENE PLUGS

Part #	Size
28601B	1/8"
28602B	1/4"
28603B	3/8"
28604B	1/2"
28605B	3/4"



**W**

#### NYLON PLUGS

Part #	Size
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



#### POLYPROPYLENE BUSHINGS

Part #	Size
28659P	1/4 x 1/8"
28660P	3/8 x 1/8"
28661P	3/8 x 1/4"
28811P	1/2 x 1/8"
28663P	1/2 x 1/4"
28664P	1/2 x 3/8"
28666P	3/4 x 1/4"
28668P	3/4 x 1/2"
28812P	1 x 3/8"
28671P	1 x 1/2"
28672P	1 x 3/4"
28675P	1-1/4" x 1"
28814P	1-1/2" x 1/2"
28678P	1-1/2 x 3/4"
28680P	1-1/2 x 1-1/4"
28816P	2 x 1-1/4"



#### NYLON BUSHINGS

Part #	Size
28659W	1/4 x 1/8"
28660W	3/8 x 1/8"
28661W	3/8 x 1/4"
28811W	1/2 x 1/8"
28663W	1/2 x 1/4"
28664W	1/2 x 3/8"
28665W	3/4 x 1/8"
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"
28815W	2" x 1/2"
28682W	2 x 3/4"
28683W	2 x 1"
28685W	2 x 1-1/2"

### HEX NIPPLES



#### POLYETHYLENE HEX NIPPLES

Part #	Size
28611B	1/8"
28612B	1/4"
28613B	3/8"
28614B	1/2"



#### POLYPROPYLENE HEX NIPPLES

Part #	Size
28612P	1/4"
28613P	3/8"
28614P	1/2"
28615P	3/4"
28619P	2"



#### NYLON HEX NIPPLES

Part #	Size
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"

### REDUCER NIPPLES



#### POLYETHYLENE HEX NIPPLES

Part #	Size
28623B	1/2 x 1/4"
28624B	1/2 x 3/8"
28628B	3/4 x 3/8"
28625B	3/4 x 1/2"



#### NYLON REDUCING HEX NIPPLES

Part #	Size
28620W	1/4 x 1/8"
28621W	3/8 x 1/8"
28622W	3/8 x 1/4"
28623W	1/2 x 1/4"
28624W	1/2 x 3/8"
28628W	3/4 x 3/8"
28625W	3/4 x 1/2"
28-663W	1-1/4 x 1"

**P** = Polypropylene  
**W** = White Nylon  
**B** = Black Polyethylene

# PLASTIC PIPE/ HOSE BARB

## PLASTIC FITTINGS

### COUPLING

**P**



#### POLYPROPYLENE COUPLINGS

Part #	Size
28761P	1/4"
28762P	3/8"
28763P	1/2"
28764P	3/4"

**W**



#### NYLON COUPLINGS

Part #	Size
28761W	1/4"
28762W	3/8"
28763W	1/2"
28764W	3/4"
28765W	1"
28803W	1-1/4"
28767W	1-1/2"
28768W	2"

### PIPE CAP

**W**



#### NYLON CAPS

Part #	Size
28640W	1/4"
28641W	3/8"
28642W	1/2"
28643W	3/4"

### PLASTIC BULKHEAD FITTINGS

**P**



20% Glass Filled Polypropylene  
w/ Santoprene Gasket

Part #	Fpt	Hole
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

### MALE ADAPTERS

**B**



#### POLYETHYLENE BARB X MALE PIPE

Part #	Size
33002B	3/16 x 1/8"
33003B	3/16 x 1/4"
33004B	1/4 x 1/8"
33005B	1/4 x 1/4"
33006B	1/4 x 3/8"
33007B	1/4 x 1/2"
33008B	5/16 x 1/8"
33009B	5/16 x 1/4"
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"
33019B	5/8 x 3/8"
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"

**P**



#### POLYPROPYLENE HOSE BARB Hose ID x MIP

Part #	Size
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"
33303P	1/2" x 1"
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"
33323P	3" x 3"

Accept the things to  
which fate binds you,  
and love the people  
with whom fate brings  
you together, but do so  
with all your heart.

- Marcus Aurelius

# PLASTIC BARBS

## PLASTIC FITTINGS

**W**



**NYLON BARB MALE ADAPTERS**  
Hose ID x MIP

Part #	Size
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"
33303W	1/2" x 1"
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"
33318W	3/4" x 1-1/4"
33319W	3/4" x 1-1/2"
33307W	1" x 1/2"
33024W	1 x 3/4"
33025W	1 x 1"
33029W	1 x 1-1/4"
33320W	1" x 1-1/2"
33027W	1-1/8" x 1"
33349W	1-1/4" x 3/4"
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"

### ELBOWS

**B**



**POLYETHYLENE ELBOWS**  
Hose ID x MALE PIPE

Part #	Size
33308B	3/16 x 1/8
33038B	1/4 x 1/8
33039B	1/4 x 1/4
33309B	1/4 x 3/8
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
33044B	5/8 x 3/8
33045B	5/8 x 1/2
33312B	5/8 x 3/4
33313B	3/4 x 1/2
33314B	3/4 x 3/4

**P**



**POLYPROPYLENE BARB ELBOW**

Part #	Size
33048P	1/2 x 1/4
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
33334P	1-1/4 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
33381W	3/16 x 1/4
33038W	1/4 x 1/8
33039W	1/4 x 1/4
33309W	1/4 x 3/8
33351W	1/4 x 1/2
33040W	5/16 x 1/4
33310W	5/16 x 3/8
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
33329W	5/8" x 1"
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
33050W	1-1/8" x 1"
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
33053B	1/4 x 1/4"



**W**

#### NYLON ADAPTER Barb x FIP

Part #	Size
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"
33066W	1/2 x 1/4"
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"

### HOSE BARB X FE ELBOW



**P**

**W**

#### NYLON ELBOW Hose ID x Female Pipe

Part #	Size
33342W	3/8 x 1/2"
33402W	1/2 x 3/8"
33403W	1/2 x 3/4"
33343P	1/2 x 1/2"
33343W	1/2 x 1/2"
33344P	5/8 x 3/4"
33344W	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
33390B	1/4
33391B	3/8
33394B	1/2
33395B	5/8
33396B	3/4



**W**

#### NYLON ELBOW

Part #	Size
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

### SPLICERS



**B**

#### POLYETHYLENE SPLICER

Part #	Size
33091B	1/8
33092B	3/16
33093B	1/4
33095B	3/8
33096B	1/2
33097B	5/8



#### POLYPROPYLENE SPLICER

Part #	Size
33095P	3/8
33096P	1/2
33098P	3/4
33099P	1

### SPLICERS



**W**

#### NYLON SPLICES

Part #	Size
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

### REDUCING SPLICERS



**B**

#### POLYETHYLENE SPLICES

Part #	Size
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
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
33415B	1/8
33418B*	3/16
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
33429P	3/8
33440P	1-1/2

### ALL HOSE BARB "Y"

**P**



**POLYPROPYLENE WYE**

Part #	Size
33300P*	1/4"
33301P*	3/8"
33302P*	1/2"

\*Natural Polypro

**W**



**NYLON WYE**

Part #	Size
33301W	3/8"

**W**



**NYLON TEE**

Part #	Size
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

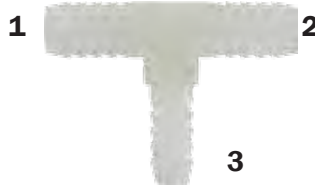
**B**



**POLYETHYLENE TEE**

Part #	Size
33423B	3/8 x 3/8 x 1/4
33430B	1/2 x 1/2 x 3/8
33432B	3/8 x 3/8 x 1/2
33434B	1/2 x 1/2 x 5/8
33435B	3/4 x 3/4 x 1/2

**W**



**NYLON TEE**

Part #	Size
33430W	1/2 x 1/2 x 3/8
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

### MALE BRANCH TEE

**W**



**NYLON BRANCH TEE**

Part #	Size
33448W	1/4 x 1/4
33450W	3/8 x 1/4
33451W	3/8 x 3/8
33453W	1/2 x 1/4
33454W	1/2 x 3/8
33455W	1/2 x 1/2
33458W	5/8" x 3/4"
33456W	3/4 x 3/4

Tomorrow is the most important thing in life. Comes into us at midnight very clean. It's perfect when it arrives and it puts itself in our hands. It hopes we've learned something from yesterday.

- John Wayne

# 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	
30103P	3/4"	

### GARDEN HOSE THREAD ADAPTERS

BARB X MALE GARDEN HOSE



- White Nylon

Part #	Size	
31038	1/4"	
31039	3/8"	
31040	1/2"	
31041	5/8"	
31042	3/4"	

### GARDEN HOSE ADAPTER INSERTS

- for assembly with 31-022



- White Nylon

Part #	Size	
31030	1/4"	
31031	3/8"	
31032	1/2"	
31033	5/8"	
31034	3/4"	
31035	1/2" MPT	

### GARDEN HOSE NUT



- White Nylon

Part #	Size	
31022	3/4"	
31023	3/4" FIP	

### MALE GARDEN HOSE X FEMALE PIPE



- White Nylon

Part #	Size	
31067	MGH X 1/4	
31068	MGH X 1/2 FIP	
31069	MGH X 3/4	

### FEMALE GARDEN HOSE X MALE PIPE



- White Nylon

Part #	Size	
31093	FGH X 3/4 MPT	
31095	FGH X 3/4 MGH	

### FEMALE GARDEN HOSE X FEMALE PIPE



- White Nylon

Part #	Size	
31096	FGH X 1/2 FIP	
31097	FGH X 3/4 FIP	

### MALE GARDEN HOSE X MALE PIPE



- White Nylon

Part #	Size	
31055	GHT X 3/8 MPT	
31058	GHT X 1/2 MPT	
31063	GHT X 3/4 MPT	
31064	GHT X 1 MPT	



VIEW PRICING AND AVAILABLE STOCK ONLINE

# PLASTIC COMPRESSION

## PLASTIC FITTINGS

### PLASTIC COMPRESSION FITTINGS

Corrosion resistant thermoresins designed to resist vibration, provide good electrical insulation, low flow resistance, and resistance to scale buildup.


The letter on the end of part no. denotes the type.

N = Nylon  
P = Polypropylene


Standard nut and sleeves will be provided (sleeve is integral part of nut). Other sizes available upon request.

FDA and NSF Listed

### UNION & REDUCING UNION CONNECTORS

**P** 

Part #	Size
17064P	1/4"
17066P	3/8"
17079P	3/8" x 1/4"
17068P	1/2"

• Nylon 

Part #	Size
17064N	1/4"
17065N	5/16"
17078N	5/16" x 1/4"
17066N	3/8"
17079N	3/8" x 1/4"
17068N	1/2"


### BULKHEAD UNIONS

• Nylon 

Part #	Size
17088N	1/4"
17090N	3/8"
17091N	1/2"


• SEE [MIDLANDINDUSTRIES.COM](http://MIDLANDINDUSTRIES.COM) FOR MORE SIZES

### UNION TEES

• Nylon 

Part #	Size
17103N	1/4"
17105N	3/8"
17106N	1/2"

### UNION ELBOWS


**P** 

Part #	Size
17124P	1/4"
17126P	3/8"
17127P	1/2"


• Nylon 

Part #	Size
17124N	1/4"
17126N	3/8"

### FEMALE CONNECTORS


**P** 

Part #	Size
17145P	1/4 x 1/8
17153P	3/8 x 1/4
17154P	3/8 x 3/8
17158P	1/2 x 3/8


• Nylon 

Part #	Size
17146N	1/4 x 1/4
17153N	3/8 x 1/4

### MALE CONNECTORS


**P** 

Part #	Size
17179P	1/4 x 1/8
17180P	1/4 x 1/4
17188P	3/8 x 1/4
17189P	3/8 x 3/8
17190P	3/8 x 1/2
17193P	1/2 x 1/4
17194P	1/2 x 3/8


• Nylon 

Part #	Size
17176N	1/8 x 1/8"
17179N	1/4 x 1/8
17180N	1/4 x 1/4
17188N	3/8 x 1/4
17189N	3/8 x 3/8
17190N	3/8 x 1/2
17193N	1/2 x 1/4
17194N	1/2 x 3/8

### MALE ELBOWS

**P** 

Part #	Size
17225P	1/4 x 1/4
17233P	3/8 x 1/4
17234P	3/8 x 3/8
17237P	1/2 x 3/8
17238P	1/2 x 1/2

• Nylon 

Part #	Size
17224N	1/4 x 1/8
17225N	1/4 x 1/4
17233N	3/8 x 1/4
17234N	3/8 x 3/8
17237N	1/2 x 3/8
17238N	1/2 x 1/2

# 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	SIZE	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		19mm
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
20018P	5/32"
20702P	3/16"
20019P	1/4"
20020P	3/8"
20021P	1/2"

### UNION TEE



Part #	Tube OD
20028P	1/4"
20029P	3/8"
20030P	1/2"

### UNION ELBOW



Part #	Tube OD
20152P	1/4"
20153P	3/8"
20154P	1/2"

### REDUCING UNION



Part #	Tube OD	Tube OD
20750P	1/4"	3/16"
20754P	3/8"	3/16"
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
20725P	3/8"	1/4"
20724P	1/2"	3/8"

### REDUCING ELBOW



Part #	Tube OD	Tube OD
20733P	3/8"	3/16"
20734P	3/8"	1/4"
20736P	1/2"	3/8"

### BULKHEAD UNION



Part #	Tube OD
20127P	1/4"
20128P	3/8"

# PLASTIC PUSH-IN

## PLASTIC FITTINGS

### FEMALE CONNECTOR



Female Pipe

PART #	TUBE OD	THREAD NPTF
20993P	1/4"	1/8"
20035P	1/4"	1/4"
20944P	3/8"	1/8"
20036P	3/8"	1/4"



Female Flare

PART #	TUBE OD	FE FLARE
20936P	1/4"	1/4"
20937P	3/8"	1/4"
20938P	3/8"	3/8"



Female UNS Cone Type

PART #	TUBE OD	UNS
20939P	1/4"	7/16"
20940P	3/8"	7/16"



Female Comp

PART #	TUBE OD	FE COMP
20941P	3/8"	9/16-24"



20-152P + 20-525P = 20-964P

### MALE CONNECTOR



Male Pipe

PART #	TUBE OD	THREAD NPTF
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"



Male BSP

AMCB

PART #	TUBE OD	BSP
20958P	3/8"	3/8"



AMCF

PART #	TUBE OD	MALE FLARE
20960P	3/8"	1/4"
20961P	3/8"	1/2"

### STEM ADAPTER



Part #	stem OD	Thread NPTF
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
20512P	3/8"	1/4"
20763P	3/8"	5/16"
20514P	1/2"	3/8"

### TUBE BARB CONNECTOR



ATBC

PART #	STEM OD	HOSE BARB ID
20964P	1/4"	1/4"
20965P	3/8"	1/4"
20966P	3/8"	3/8"
20967P	3/8"	1/2"
20968P	1/2"	3/8"
20969P	1/2"	1/2"

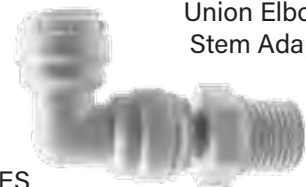
### FIXED ELBOW



Part #	Tube OD	Thread NPTF
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"

### SWIVEL ELBOW

Union Elbow + Stem Adapter



AMES

PART #	STEM OD	TUBE ID
20973P	1/4"	1/4"
20974P	3/8"	3/8"



# PLASTIC PUSH-IN

## PLASTIC FITTINGS

### PLUG-IN ELBOW



PART #	TUBE OD	STEM
20740P	5/32"	5/32"
20742P	1/4"	1/4"
20745P	3/8"	1/4"
20747P	3/8"	3/8"
20748P	1/2"	1/2"

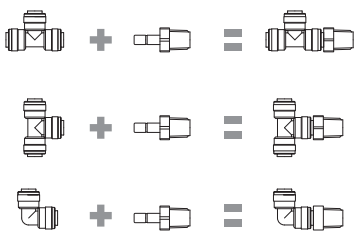
### TUBE ELBOW BARB CONNECTOR



PART #	STEM OD	HB ID
20970P	1/4"	1/4"
20971P	3/8"	1/4"
20972P	3/8"	3/8"

#### ADAPTABILITY

- For maximum flexibility, fittings may be combined to provide wider functions.
- Unlike some competitors products, separation and reuse is easy.



### 2-WAY DIVIDER



PART #	TUBE OD	LIST PRICE
20775P	1/4"	
20776P	5/16"	
20777P	3/8"	

### PLUG



PART #	TUBE OD
20876P	5/32"
20878P	1/4"
20880P	3/8"
20881P	1/2"

### TUBE END STOP



PART #	TUBE OD
20925P	1/4"
20927P	3/8"



AFAN

Female Garden Hose

Tube

PART #	TUBE OD	FGH
20950P	1/4"	3/4"
20951P	3/8"	3/4"



AFAB

Female BSP

Tube

PART #	TUBE OD	BSP
20953P	1/4"	1/2"
20954P	1/4"	3/4"
20955P	3/8"	3/4"
20956P	5/8"	3/4"

### PL X PL



PART #	TUBE OD
20900P	1/4"
20901P	3/8"

### PL X MALE NPTF



PART #	TUBE OD	MALE THREAD NPTF
20904P	1/4"	1/4"
20905P	3/8"	3/8"

# PLASTIC PUSH-IN

## PLASTIC FITTINGS

### CHECK VALVE



PART #	TUBE OD
20778P	1/4"
20779P	3/8"

### STOP VALVES

**CONNECTOR:** Flows in both directions by connection.

**DISCONNECTOR:** Stop flows in both directions by with separation where pulling to the open position.



ASTVBU

PART #	TUBE OD
20910P	1/4"

### LOCKING CLIP



ALC

PART #	TUBE OD
20975P	1/4"
20976P	3/8"
20977P	1/2"

### FLOW BEND CLIP



AFBC

PART #	TUBE OD
20980P	1/4"
20981P	3/8"

### SPANNER



PART #	SIZES
20983P	3/16, 1/4, 5/16 3/8, 1/2

### STOP & FAUCET ADAPTER VALVES

AV range of Stop & Faucet Valve Adaptor valves and Slip Tee Valves are manufactured in white Polypropylene, reinforced plastic with EPDM O-rings which provides value-added advantages in the installation of water supply line mainly.

AV range of Stop & Faucet Valve Adaptors and Slip Tee Valves are designed for use in drinking water systems, Refrigerators, Ice-Makers, Humidifiers and Water filtration applications, etc.,. Our valves offer greater efficiency than any traditional valves.

AV valves have been approved in NSF/ANSI 61 & 372.

AV range is 1/4" Turn valves.

### STOP VALVE ADAPTER



3/8 MALE COMP X  
3/8 FEMALE COMP

PART #	TUBE OD
20985P	1/4"
20986P	3/8"

### SLIPTEE VALVE



PART #	RUN X RUN	BRANCH
20988P	5/8"	1/4"
20989P	5/8"	3/8"
20990P	7/8"	1/4"

A man has to learn that he cannot command things, but that he can command himself; that he cannot coerce the wills of others, but that he can mold and master his own will: and things serve him who serves Truth; people seek guidance of him who is master of himself.

- James Allen

# HOSE ACCESSORIES



## CAM AND GROOVE



**ALUMINIUM**



**POLYPROPYLENE**



**STAINLESS STEEL**



**BRASS**

## COMBINATION HOSE NIPPLES



## FIRE HOSE FITTINGS



## UNIVERSAL/ GROUND JOINT COUPLINGS



**ALUMINUM CAM AND GROOVE**

HOSE ACCESSORIES

**CAM AND GROOVE****MALE ADAPTER X FEMALE NPT  
TYPE A**CGA  
6191X

PART#	SIZE	
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"	
CGA-1000-A	10"	

**FEMALE COUPLER X HOSE SHANK  
TYPE C**CGC  
6193X

PART#	SIZE	
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"	
CGC-1000-A	10"	

**FEMALE COUPLER X MALE NPT  
TYPE B**CGB  
6192X

PART#	SIZE	
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"	
CGB-1000-A	10"	

**FEMALE COUPLER X FEMALE NPT  
TYPE D**CGD  
6194X

PART#	SIZE	
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"	
CGD-1000-A	10"	

\*Ductile Iron in Houston

ALL IN STOCK IN HOUSTON AND KANSAS CITY

# ALUMINUM CAM AND GROOVE

## HOSE ACCESSORIES

### MALE ADAPTER X HOSE SHANK

#### TYPE E



CGE  
61-95X

PART#	SIZE
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"
CGE-1000-A	10"

### DUST CAP

#### TYPE DC



CDC  
61-97X

PART#	SIZE
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"
CDC-1000-A	10"

### MALE ADAPTER X MALE NPT

#### TYPE F



CGF  
61-96X

PART#	SIZE
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"
CGF-1000-A	10"

### DUST PLUG

#### TYPE DP



CDP  
61-98X

PART#	SIZE
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"
CDP-1000-A	10"

\*Ductile Iron in Houston

ALL IN STOCK IN HOUSTON AND KANSAS CITY



**ALUMINUM CAM AND GROOVE**

HOSE ACCESSORIES

**ALUMINUM (AL) SPOOL & PART A**

SEE PAGES 332 FOR JUMP SIZES IN ALUMINUM

**MALE ADAPTER X MALE ADAPTER  
ALUMINUM  
SPOOL ADAPTER**SA-XXX-A  
61910

PART#	SIZE	PART#
SA-100-A	1"	61872
SA-150-A	1-1/2"	*61873
SA-200-A	2"	*61874
SA-2030-A	2" x 3"	*61875
SA-250-A	2-1/2"	61876
SA-300-A	3"	*61877
SA-3040-A	3" x 4"	*61878
SA-400-A	4"	*61879

**REDUCER ADAPTER FEMALE  
NPT ALUMINUM**

CGA-XXX-A

**MALE ADAPTER X FEMALE PIPE**

PART#	SIZE	PART#
CGA-1520-A	1-1/2" x 2"	
CGA-2015-A	2" x 1-1/2"	
CGA-2030-A	2" x 3"	*61-851
CGA-3040-A	3" x 4"	*61-853
CGA-4030-A	4" x 3"	*61-854
*CGA-6040-A	6" x 4"	

**ALUMINUM SWIVEL**

PART#	SIZE
CGASV-300-A	3"
CGASV-400-A	4"

\*IN STOCK IN HOUSTON

**REDUCER COUPLER M NPT  
PART B**

CGB-XXX-A

**FEMALE COUPLER X MALE PIPE**

PART#	SIZE	PART#
CGA-3020-A	3" x 2"	61859
CGA-3040-A	3" x 4"	*61860
CGA-4030-A	4" x 3"	*61861

**ALUMINUM 90°  
PART C**

PART#	SIZE
CGC-1590-A	1-1/2"
CGC-2090-A	2"

**REDUCER COUPLER SHANK  
PART C**

CGC

PART#	SIZE
CGC-2015-A	2" x 1-1/2"
CGC-3020-A	3" x 2"
CGC-3025-A	3" x 2-1/2"
CGC-4030-A	4" x 3"

# ALUMINUM CAM AND GROOVE

## HOSE ACCESSORIES

### REDUCER COUPLER ADAPTER PART D



DA-XXX-A

#### FEMALE COUPLER X MALE ADAPTER

PART#	SIZE	PART#	
DA-1510-A	1-1/2" x 1"	619001	
DA-1520-A	1-1/2" x 2"	*619002	
DA-2015-A	2" x 1-1/2"	*619003	
DA-2030-A	2" x 3"	*619004	
DA-2040-A	2" x 4"	619005	
DA-3015-A	3" x 1-1/2"	619006	
DA-3020-A	3" x 2"	*619007	
DA-3040-A	3" x 4"	*619008	
DA-4020-A	4" x 2"	*619009	
DA-4030-A	4" x 3"	*619010	
DA-4060-A	4" x 6"	*619011	
DA-6040-A	6" x 4"	*619012	

### REDUCER COUPLER FEMALE NPT PART D



CGD

#### FEMALE COUPLER X FEMALE PIPE

PART#	SIZE	PART#	
CGD-1510-A	1-1/2" x 1"	61865	
CGD-2015-A	2" x 1-1/2"	61866	
CGD-3020-A	3" x 2"	61867	
CGD-4030-A	4" x 3"	61868	

### SPOOL COUPLER PART D



DD

#### FEMALE COUPLER X FEMALE COUPLER

PART#	SIZE	PART#	
*DD-1515-A	1-1/2" x 1-1/2"	*619440	
*DD-2020-A	2" x 2"	*619450	
*DD-2030-A	2" x 3"		
*DD-3030-A	3" x 3"	*619470	
*DD-3040-A	3" x 4"		
*DD-4040-A	4" x 4"	*619480	

\*IN STOCK IN HOUSTON

### SWIVEL PART D



#### FEMALE COUPLER X FEMALE PIPE

CGDSV

PART#	SIZE	
*CGDSV-300-A	3"	
*CGDSV-400-A	4"	

### REDUCER ADAPTER MALE NPT PART F



CGF

#### MALE ADAPTER X MIP

Part#	Size		
CGF-1520-A	1-1/2" x 2"		
*CGF-2030-A	2" x 3"		
CGF-3015-A	3" x 1-1/2"		
*CGF-3020-A	3" x 2"	61870	
*CGF-3040-A	3" x 4"	61871	
CGF-4030-A	4" x 3"		
CGF-4060-A	4" x 6"		

\*IN STOCK IN HOUSTON

# POLY CAM AND GROOVE

## HOSE ACCESSORIES

### POLYPROPYLENE (PP)

#### MALE ADAPTER X FEMALE NPT TYPE A



35-91X

PART#	SIZE
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
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
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
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"
CGD-400-PP	4"

\*IN STOCK IN HOUSTON

ALL IN STOCK IN HOUSTON AND KANSAS CITY

# POLYPROPYLENE CAM AND GROOVE

## HOSE ACCESSORIES

### MALE ADAPTER X HOSE SHANK TYPE E



35-95X

PART#	SIZE
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
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
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
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"

\*IN STOCK IN HOUSTON



USE OUR TEXT LINE **855-609-3729** TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

**STAINLESS STEEL CAM AND GROOVE #316**

HOSE ACCESSORIES

**MALE ADAPTER X FEMALE NPT  
TYPE A**CGA  
6391X

PART#	SIZE	
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-500-SS1	5"	
CGA-600-SS1	6"	
CGA-800-SS1	8"	

**FEMALE COUPLER X HOSE SHANK  
TYPE C**CGC  
6393X

PART#	SIZE	
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-500-SS1	5"	
*CGC-600-SS1	6"	
CGC-800-SS1	8"	

**FEMALE COUPLER X MALE NPT  
TYPE B**CGB  
6392X

PART#	SIZE	
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"	
CGB-500-SS1	5"	
CGB-600-SS1	6"	
CGB-800-SS1	8"	

**FEMALE COUPLER X FEMALE NPT  
TYPE D**CGD  
6394X

PART#	SIZE	
*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"	

8" AVAILABLE ONLINE

\*IN STOCK IN HOUSTON

**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](http://www.P65Warnings.ca.gov)





# STAINLESS STEEL CAM AND GROOVE #316

HOSE ACCESSORIES

## MALE ADAPTER X HOSE SHANK TYPE E



SA  
6395X

PART#	SIZE	
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-250-SS1	2-1/2"	
*CGE-300-SS1	3"	
*CGE-400-SS1	4"	
*CGE-500-SS1	5"	
*CGE-600-SS1	6"	
CGE-800-SS1	8"	

## DUST CAP TYPE DC



6397X

PART#	SIZE	
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-500-SS1	5"	
CDC-600-SS1	6"	
CDC-800-SS1	8"	

## MALE ADAPTER X MALE NPT TYPE F



CGF  
6396X

PART#	SIZE	
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-250-SS1	2-1/2"	
*CGF-300-SS1	3"	
*CGF-400-SS1	4"	
CGF-500-SS1	5"	
*CGF-600-SS1	6"	
CGF-800-SS1	8"	

## DUST PLUG TYPE DP



6398X

PART#	SIZE	
*CDP-050-SS1	1/2"	
*CDP-075-SS1	3/4"	
*CDP-100-SS1	1"	
CDP-125-SS1	1-1/4"	
*CDP-150-SS1	1-1/2"	
*CDP-200-SS1	2"	
CDP-250-SS1	2-1/2"	
*CDP-300-SS1	3"	
*CDP-400-SS1	4"	
CDP-600-SS1	6"	
CDP-800-SS1	8"	

\*IN STOCK IN HOUSTON

**STAINLESS STEEL CAM AND GROOVE #316**

HOSE ACCESSORIES

**PART A SPOOL ADAPTER  
STAINLESS**

PART#	SIZE	PART#
SA-100-SS	1"	63850
SA-150-SS	1-1/2"	63851
SA-1520-SS	1-1/2" x 2"	63852
SA-200-SS	2"	63853
SA-2030-SS	2" x 3"	63854
SA-300-SS	3"	63855
SA-3040-SS	3" x 4"	63856
SA-400-SS	4"	63857

**PART D SPOOL COUPLER  
STAINLESS 316**

PART#	SIZE	PART#
*DD-1515-SS	1-1/2" x 1-1/2"	639440
*DD-2020-SS	2" x 2"	639450
*DD-2030-SS	2" x 3"	
*DD-3030-SS	3" x 3"	639470
*DD-3040-SS	3" x 4"	
*DD-4040-SS	4" x 4"	639480

**PART D REDUCER COUPLER  
ADAPTER STAINLESS 316**

PART#	SIZE	PART#
*DA-2030-SS	2" x 3"	
*DA-3020-SS	3" x 2"	639002
*DA-3040-SS	3" x 4"	
*DA-4030-SS	4" x 3"	639003
*DA-6040-SS	6" x 4"	639004

**PART D STAINLESS  
90° ELBOW**

PART#	SIZE
*CGD-2090-SS	2"

\*IN STOCK IN HOUSTON

**THE ELEPHANT ROPE**

A gentleman was walking through an elephant camp, and he spotted that the elephants weren't being kept in cages or held by the use of chains.

All that was holding them back from escaping the camp, was a small piece of rope tied to one of their legs.

As the man gazed upon the elephants, he was completely confused as to why the elephants didn't just use their strength to break the rope and escape the camp. They could easily have done so, but instead, they didn't try to at all.

Curious and wanting to know the answer, he asked a trainer nearby why the elephants were just standing there and never tried to escape.

The trainer replied;  
"when they are very young and much smaller we use the same size rope to tie them and, at that age, it's enough to hold them. As they grow up, they are conditioned to believe they cannot break away. They believe the rope can still hold them, so they never try to break free."

The only reason that the elephants weren't breaking free and escaping from the camp was that over time they adopted the belief that it just wasn't possible.

Moral of the story:  
No matter how much the world tries to hold you back, always continue with the belief that what you want to achieve is possible. Believing you can become successful is the most important step in actually achieving it.

- UNKNOWN

# BRASS CAM AND GROOVE

HOSE ACCESSORIES

## BRASS

MALE ADAPTER X FEMALE NPT  
TYPE A



4491X

PART#	SIZE	
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-250-B1	2-1/2"	
*CGA-300-B1	3"	
*CGA-400-B1	4"	
CGA-500-B1	5"	
*CGA-600-B1	6"	

FEMALE COUPLER X HOSE SHANK  
TYPE C



4493X

PART#	SIZE	
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"	
CGC-500-B1	5"	
*CGC-600-B1	6"	

FEMALE COUPLER X MALE NPT  
TYPE B



4492X

PART#	SIZE	
CGB-050-B1	1/2"	
*CGB-075-B1	3/4"	
*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"	
CGB-500-B1	5"	
CGB-600-B1	6"	

\*IN STOCK IN HOUSTON

FEMALE COUPLER X FEMALE NPT  
TYPE D



4494X

PART#	SIZE	
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-250-B1	2-1/2"	
*CGD-300-B1	3"	
*CGD-400-B1	4"	
CGD-500-B1	5"	
*CGD-600-B1	6"	

**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](http://www.P65Warnings.ca.gov)

HOSE ACCESSORIES

**BRASS CAM AND GROOVE**

## HOSE ACCESSORIES

**MALE ADAPTER X HOSE SHANK  
TYPE E**

4495X

PART#	SIZE	
CGE-050-B1	1/2"	
*CGE-075-B1	3/4"	
*CGE-100-B1	1"	
*CGE-125-B1	1-1/4"	
*CGE-150-B1	1-1/2"	
*CGE-200-B1	2"	
CGE-250-B1	2-1/2"	
*CGE-300-B1	3"	
*CGE-400-B1	4"	
CGE-500-B1	5"	
*CGE-600-B1	6"	

**MALE ADAPTER X MALE NPT  
TYPE F**

4496X

PART#	SIZE	
CGF-050-B1	1/2"	
*CGF-075-B1	3/4"	
*CGF-100-B1	1"	
*CGF-125-B1	1-1/4"	
*CGF-150-B1	1-1/2"	
*CGF-200-B1	2"	
CGF-250-B1	2-1/2"	
*CGF-300-B1	3"	
*CGF-400-B1	4"	
CGF-500-B1	5"	
CGF-600-B1	6"	

\*IN STOCK IN HOUSTON

**DUST CAP  
TYPE DC**

4497X

PART#	SIZE	
CDC-050-B1	1/2"	
*CDC-075-B1	3/4"	
*CDC-100-B1	1"	
CDC-125-B1	1-1/4"	
CDC-150-B1	1-1/2"	
*CDC-200-B1	2"	
CDC-250-B1	2-1/2"	
*CDC-300-B1	3"	
*CDC-400-B1	4"	
CDC-500-B1	5"	
CDC-600-B1	6"	

**DUST PLUG  
TYPE DP**

4498X

PART#	SIZE	
CDP-050-B1	1/2"	
*CDP-075-B1	3/4"	
*CDP-100-B1	1"	
CDP-125-B1	1-1/4"	
CDP-150-B1	1-1/2"	
*CDP-200-B1	2"	
CDP-250-B1	2-1/2"	
*CDP-300-B1	3"	
*CDP-400-B1	4"	
CDP-500-B1	5"	
CDP-600-B1	6"	

Brass Stool Adapter and Brass Type DA available  
online at [www.midlandindustries.com](http://www.midlandindustries.com)

# HANDLES, RINGS AND PINS

## HOSE ACCESSORIES

### QUICKKLOK HANDLE FOR ALUMINUM, BRASS & SS



PART#	SIZE	
HSK2-200-SS	1-1/2"	
HSK2-300-SS	3"	
HSK5-200-SS	1-1/2-1	
HSK5-300-SS	3-4	

### QUICKKLOK 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	
61447	3/4"	
61448	1"	
61449	1-1/4" - 2-1/2"	
61452	3" & 4"	
61454	6"	

### FORGED BRASS HANDLE - RING & PIN STEEL



PART#	SIZE	
61455	3/4"	
61450	1"	
61451	1-1/4" - 2-1/2"	
61453	3" & 4"	
61457	6"	

### SAFETY CLIP



PART #	SIZE	
66-015	1-1/4" - 2-1/2"	----

HANDLE + PIN + RING BRASS

"Nothing is particularly hard if you divide it into small jobs"

**"You can't build a reputation on what you are going to do."**

"Anyone who stops learning is old, whether at twenty or eighty. Anyone who keeps learning stays young."

**"Don't find fault, find a remedy; anybody can complain."**

"The only real mistake is the one from which we learn nothing."

**"It has been my observation that most people get ahead during the time that others waste."**

- Henry Ford



**GASKETS**

## HOSE ACCESSORIES

**CAMLOCK GASKET EPDM**

PART#	SIZE
CG-50-EPDM	1/2"
CG-200-EPDM	2"
CG-300-EPDM	3"

**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-500-NBR	5
CG-600-NBR	6
CG-800-NBR	8

**CAMLOCK GASKET VITON**

PART#	SIZE
CG-050-VI	1/2
CG-075-VI	3/4
CG-100-VI	1
CG-125-VI	1-1/4
CG-150-VI	1-1/2
CG-200-VI	2
CG-250-VI	2-1/2
CG-300-VI	3
CG-400-VI	4

**BUNA-N GASKET**

PART#	SIZE
BG50	1/2"
BG75	3/4"
BG100	1"
BG125	1-1/4"
BG150	1-1/2"
BG200	2"
BG250	2-1/2"
BG300	3"
BG400	4"
BG500	5"
BG600	6"
BG800	8"

**SILICONE GASKET**

PART#	SIZE
SG300	3"
SG400	4"

**VITON GASKET**

PART#	SIZE
VG100	1"
VG150	1-1/2"
VG200	2"
VG250	2-1/2"
VG300	3"



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!

# 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	
*973850	1/2"	
*973851	3/4"	
*973852	1"	
*973853	1-1/4"	
*973854	1-1/2"	
*973855	2"	
*973856	2-1/2"	
*973857	3"	
*973858	4"	
*CNT-600-S	6"	
*973861	8"	
*CNT-1200-S	12"	

### ZINC PLATED STEEL



CNT-XXX-SP

PART #	SIZE	
*973870	1/2"	
*973871	3/4"	
*973872	1"	
*973873	1-1/4"	
*973874	1-1/2"	
*973875	2"	
*973876	2-1/2"	
*973877	3"	
*973878	4"	
*973879	5"	
*973880	6"	
*973881	8"	
CNT-1200-SP	12"	

### COMBINATION NIPPLE 316 STAINLESS



CNT-XXX-S316

PART #	SIZE	
*973700	1/2"	
*973701	3/4"	
*973702	1"	
973703	1-1/4"	
*973704	1-1/2"	
*973705	2"	
973706	2-1/2"	
973707	3"	
973708	4"	

\*IN STOCK IN HOUSTON

### ZINC PLATED STEEL EXPANDER & REDUCER



EXP  
RED

HOSE X MIP

PART #	SIZE	
*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	
*973865	2-1/2 x 3	
*973867	3 x 2-1/2	
*973866	3 x 4	
*973868	4 x 3	

\*IN STOCK IN HOUSTON



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

**KING NIPPLES**

HOSE ACCESSORIES

**COMBINATION NIPPLES  
HOSE BARB X MALE PIPE**

BRASS



CNT-XXX-B

• LEAD FREE

PART #	SIZE	
973600	1/2"	
973601	3/4"	
973602	1"	
973603	1-1/4"	
973604	1-1/2"	
973605	2"	
973606	2-1/2"	
973607	3"	
CNT-400-B	4"	

ALUMINUM



CNT-XXX-A

PART #	SIZE	
973620	1/2"	
973621	3/4"	
973622	1"	
973623	1-1/4"	
973624	1-1/2"	
*973625	2"	
*973626	2-1/2"	
*973627	3"	
*973628	4"	

\*IN STOCK IN HOUSTON

**VICTAULIC GROOVED  
COMBINATION NIPPLES**COMBINATION NIPPLE PLAIN STEEL  
VICTAULIC GROOVED

CNG-S

PART #	HOSE SIZE	
*CNG-200-S	2"	
*CNG-300-S	3"	
*CNG-400-S	4"	
*CNG-600-S	6"	

COMBINATION NIPPLE  
PLATED VICTAULIC GROOVED

PART#	SIZE	
CNG-150-SP	1-1/2"	
*CNG-200-SP	2"	
CNG-250-SP	2-1/2"	
CNG-300-SP	3"	
*CNG-400-SP	4"	
CNG-500-SP	5"	
*CNG-600-SP	6"	



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

# HOSE MENDERS

## MENDER PLAIN STEEL

HM-S



PART #	HOSE SIZE	
973890	1/2"	
HM-063-S	5/8"	
973891	3/4"	
973892	1"	
973893	1-1/4"	
973894	1-1/2"	
973895	2"	
HM-300-S	3"	
HM-400-S	4"	
HM-600-S	6"	
HM-800-S	5"	

## MENDER PLATED STEEL



PART #	SIZE	
973650	3/8"	
973651	1/2"	
HM-063-SP	5/8"	
973652	3/4"	
973653	1"	
973654	1-1/4"	
973655	1-1/2"	
973656	2"	
973657	2-1/2"	
973658	3"	
973659	4"	
HM-600-SP	6"	
HM-800-SP	8"	

## 316 STAINLESS STEEL HOSE MENDER



PART #	SIZE	
73670	3/4"	
73671	1"	
73672	1-1/4"	
73673	1-1/2"	
73674	2"	

## BRASS HOSE MENDER



• LEAD FREE

PART #	SIZE	
73983	3/4"	
73984	1"	
73985	1-1/4"	
73986	1-1/2"	
73987	2"	



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

**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
ME-025-SP	1/4"
66005	3/8"
66006	1/2"
66007	3/4"
66008	1"

**WASHER**



PART #
66000

**FEMALE NPT ENDS**



\* Safety clip included

PART #	SIZE
FE-025-SP	1/4"
66009	3/8"
66010	1/2"
66011	3/4"
66012	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
66001	3/8"
66002	1/2"
66003	3/4"
66004	1"
HE-125-SP	1-1/4"
HE-150-SP	1-1/2"
HE-200-SP	2"

**SAFETY CLIP**



PART #	SIZE
66-015	1-1/4" - 2-1/2"

**TRIPLE CONNECTIONS**



UW-300-SP

PART #
66013

**UNIVERSAL BLANK END**



ISO PSI

PART #	SIZE
BE-300-SP	



# GROUND JOINT COUPLINGS

HOSE ACCESSORIES

## GROUND JOINT COUPLING

### HIGH PRESSURE FEMALE+ WING NUT+FEMALE SPUD



PART #	SIZE	
73003	1/2	
73004	3/4	
73005	1	
73006	1-1/4	
73007	1-1/2	
73008	2	
73009	2-1/2	
73010	3	
73011	4	

### HIGH PRESSURE WING NUT



PART #	SIZE	PART #
73033	1/2	*GJN-050-DP
73035	3/4	*GJN-075-DP
73036	1-1/4	*GJN-125-DP
73037	1-1/2	*GJN-150-DP
73038	2	*GJN-200-DP
73039	2-1/2	
73040	3	*GJN-300-DP
73041	4	

### HIGH PRESSURE FEMALE STEM



PART #	SIZE	PART #
73023	1/2	*GJS-050-SP
73024	3/4	*GJS-075-DP
73025	1	*GJS-100-DP
73026	1-1/4	*GJS-125-DP
73027	1-1/2	*GJS-150-DP
73028	2	*GJS-200-DP

### HIGH PRESSURE FEMALE SPUD



PART #	SIZE	PART #
73063	1/2	*GJF-050-SP
73064	3/4	*GJF-075-DP
73065	1-1/4	*GJF-100-DP
73066	1-1/2	*GJF-125-DP
73067	2	*GJF-150-DP
73068	2-1/2	*GJF-200-DP
73070	3	*GJF-300-DP

### HIGH PRESSURE DOUBLE SPUD



PART #	SIZE	
GDS-050-B	1/2	
*GDS-075-B	3/4	

\*IN STOCK IN HOUSTON

**GROUND JOINT COUPLINGS/ ALUMINUM SHORT SHANKS**

HOSE ACCESSORIES

**2 BOLT HIGH PRESSURE CLAMP**

PART #	HOSE ID	CLAMP RANGE	MAX BOLT TORQUE
*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
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 #
73043		1/2	*GJM-050-SP
73044		3/4	*GJM-075-SP
73045		1	*GJM-100-SP
73046		1-1/4	*GJM-125-DP
73047		1-1/2	*GJM-150-DP
73048		2	*GJM-200-DP
73049		2-1/2	
73050		3	
73051		4	

**NPT STEEL HEX NIPPLE**

PART #	SIZE
HNC-04-02-SP	1/4 x 1/8
HNC-04-04-SP	1/4 x 1/4
HNC-06-04-SP	3/8 x 1/4
HNC-06-06-SP	3/8 x 3/8
HNC-08-06-SP	1/2 x 3/8
HNC-08-08-SP	1/2 x 1/2
HNC-12-08-SP	3/4 x 1/2
HNC-16-12-SP	1 x 3/4

**SHORT SHANK ALUMINUM SET NPS**

PART #	SIZE
PL-150-AD	1-1/2
*PL-200-AD	2
*PL-300-AD	3
*PL-400-AD	4

**FEMALE END**

PART #	SIZE
PF-150-AD	1-1/2
PF-200-AD	2
PF-300-AD	3
PF-400-AD	4
PF-600-AD	6

**MALE END**

PART #	SIZE
PM-150-A	1-1/2
PM-200-A	2
PM-300-A	3

# STRAINERS/ NOZZLES

## HOSE ACCESSORIES

### LARGE SAFETYCHECK FOR HOSE/ HOSE AND HOSE/TOOL



HOSE TO HOSE

PART #	SIZE
WHIP-L	1-1/2" HOSE, 37" LONG
WHIP-S	1/2-1-1/4" HOSE 22" LONG

### FOOT VALVE



PART #	SIZE
*FV-200-DP	2
*FV-300-DP	3
*FV-400-DP	4
*FV-600-DP	6

### STRAINER ROUND HOLE



PART #	SIZE
*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
*SL-200-SP	2
*SL-300-SP	3

\*IN STOCK IN HOUSTON

### STRAINER BOTTOM HOLE



PART #	SIZE	STRAINER HOSE SIZE
SB-200-SP	2	
SB-300-SP	3	

### STRAINER STRAINER BOTTOM HOLE



PART #	SIZE
SCR-300-SS304	3
SCR-400-SS304	4

### PLASTIC FOG NOZZLE GHT



PART #	SIZE
FN-075	3/4
FN-075R	3/4

### PLASTIC FOG NOZZLE NPS



PART #	SIZE
FN-100	1
*FN-150	1-1/2
FN-200	2

### GREEN ABS FOG NOZZLE GHT



PART #	SIZE
FN-075G	3/4

**FIRE HOSE FITTINGS**

HOSE ACCESSORIES

**FIRE HOSE FITTINGS****HYDRANT ADAPTERS - BRASS**

PART #	DESCRIPTION	
444011	1-1/2" NST x 3/4" GHT	
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 #	DESCRIPTION	
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	

**CAP - BRASS**

PART #	DESCRIPTION	
444062	2-1/2" NST	
444313	4-1/2" NST	
444320	2-1/2" NST PLUG	
444060	1-1/2" NST	

**DOUBLE MALE HEX NIPPLE - BRASS**

PART #	DESCRIPTION	
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	
444095	2-1/2" NST x 1-1/2" 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	
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 #	SIZE	
HN-075-B	3/4"	
*HN-100-B	1"	
HN-125-B	1-1/4"	
HN-150-B	1-1/2"	
HN-200-B	2"	
HN-250-B	2-1/2"	

\*IN STOCK IN HOUSTON

**BUCHANAN HOSE**  
STOCKED IN HOUSTON  
(WILL STOCK IN OTHER LOCATIONS BY REQUEST)



WITH SIX LOCATIONS TO SERVE YOU:

**TORONTO**  
**EDMONTON**













**MONTREAL**  
**HOUSTON**

**KANSAS CITY**  
COMING SOON  
**LOS ANGELES**




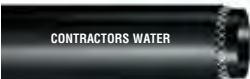
# HOSE INFORMATION

## HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
<b>Air Hoses - Also Available: Montana, Hi-Temp Steelflex Air, Oroflex Air, Oroflex 20, Duraflex 20 &amp; Hot Air Blower</b>					
	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
<b>Super Service Air</b>					
	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
<b>Contractors Air</b>					
	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
<b>Steelflex Air</b>					
	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
<b>Jackhammer</b>					
<b>General Purpose - Also Available: General Purpose, Urethane General Purpose &amp; Self Storing Air</b>					
	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
<b>Premium General Purpose - Non Conductive</b>					
	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
<b>EPDM General Purpose</b>					
	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
<b>Clear Reinforced PVC</b>					
	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
<b>Push On</b>					
	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
<b>Arctic General Purpose</b>					
<b>Water Discharge - Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown, White Sanitary &amp; Single Jacket Industrial Mill</b>					
	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
<b>Oroflex 10 Layflat</b>					
	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
<b>Duraflex - Rubber Layflat</b>					
	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
<b>Pressure Washer</b>					

# HOSE INFORMATION

## HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
<b>Water Discharge - Also Available: H.D Water Discharge, Garden Hose, High Pressure Water Discharge, Papermill, Packers Washdown &amp; White Sanitary</b>					
	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
<b>PVC Layflat</b>					
	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
<b>Contractors and Contractors Plus Water Discharge</b>					
	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
<b>Contractors Water Discharge - Industrial Garden Hose</b>					
<b>Water Suction - Also Available: EPDM Aggie Water S &amp; D</b>					
	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
<b>Superflex</b>					
	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
<b>Rubber Water S &amp; D</b>					
	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
<b>Saturn Water S &amp; D</b>					
	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
<b>Saturn Green PVC Water S &amp; D</b>					
	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
<b>Saturn Low Temperature PVC Water S &amp; D</b>					
	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
<b>Saturn Grey PVC Water S &amp; D</b>					
	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
<b>Textile Reinforced S &amp; D</b>					
	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
<b>Saturn White PVC Water Suction and Discharge Hose</b>					











# HOSE INFORMATION

## HOSE ACCESSORIES

PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
<b>Water Suction - Also Available: EPDM Aggie Water S &amp; D</b>					
	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
<b>EPDM Water Suction</b>					
<b>Steam - Also Available: Textile Steam</b>					
	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
<b>Steam 250</b>					
	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
<b>CB Steam 250</b>					
<b>Petroleum - Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery &amp; Hot Tar &amp; Asphalt</b>					
	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
<b>Tank Truck</b>					
	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
<b>Super Black 250</b>					
	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
<b>LW Arctic Superflex 150 Petroleum</b>					
	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
<b>H.O.T Oil Tank Truck</b>					
	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
<b>LW Petroleum Tank 150</b>					
	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
<b>Petroleum Discharge</b>					
	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
<b>Petroleum Discharge 250</b>					
	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
<b>Petroleum Drop Hose</b>					

# HOSE INFORMATION

## HOSE ACCESSORIES









PRODUCT	DESCRIPTION	APPLICATION	PRESSURE	SIZES	TEMPERATURE
<b>Petroleum - Also Available: Agricultural Farm Tank, Tank Truck Drop, SAE100R4, W187 Vapour Recovery &amp; Hot Tar &amp; Asphalt</b>					
 <b>Urethane Bio-Drop Fuel Hose</b>	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
 <b>Vapour Thane Dust &amp; Vapour Recovery Hose</b>	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
<b>Material Handling - Also Available: Tan Bulkmaster, Furnace Door Cooling, Concrete Boom, Concrete Placement &amp; Bulkmaster Hardwall</b>					
 <b>Aztec</b>	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
 <b>Bulkmaster Softwall</b>	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
 <b>Sandblast</b>	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
 <b>Industrial Vacuum</b>	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
<b>Chemical - Also Available: Hypalon Acid S &amp; D, Viton Lined S &amp; D, EPDM Acid S &amp; D</b>					
 <b>Chemical</b>	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
 <b>Flexchem</b>	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 a more flexible hose.	200 PSI 29' HG	3/4" - 4"	-40°C to +65°C -40°F to +150°F
<b>Material Handling Polyurethane and PVC - Also Available: Grey PVC Vacuum</b>					
 <b>B Flex/B Flex Static</b>	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>Neptune Suction/Neptune Static Suction</b>	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. Netptune Static has built-in static wire.	20 - 55 PSI 29" HG	1" - 8"	-23°C to +65°C -10°F to +150°F

**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
<b>Material Handling Polyurethane and PVC - Also Available: Grey PVC Vacuum</b>					
	Corrugated clear abrasion and weather resistant Polyurethane with grey PVC helix. FDA, 3A and USDA compliant.	Ideal for applications where conventional rubber or PVC hoses 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
<b>PU Vac/PU Vac Lite/PU Vac Static</b>					
	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
<b>ARI HD</b>					
	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
<b>ARI</b>					
<b>Food - Also Available: Pure Gum Tubing, Polyethylene Tubing &amp; Clear Vinyl Tubing</b>					
	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
<b>Bacco</b>					
	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
<b>Brewers and Beverage Discharge</b>					
	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
<b>Wirevac</b>					
	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
<b>Foodflex PVC S &amp; D</b>					
	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
<b>Foodflex Textile Reinforced S &amp; D (Food Grade)</b>					



**Buchanan Rubber Hose** found on the following pages are shipped from our Houston, TX Warehouse. Orders for hose will have a \$2,500 prepaid freight.



**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#
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	200	0.17
CRPVC-063-100	5/8	0.87	200	100	0.17
CRPVC-075	3/4	1.02	180	200	0.23
CRPVC-075-100	3/4	1.02	180	100	0.23
*CRPVC-100	1	1.30	150	200	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.

\*IN STOCK IN HOUSTON



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# 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)

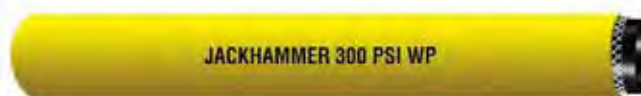
PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS	STD PACK	WEIGHT#	
*BLOW150-300	3	3.62	150	12.00	100	1.75	
*BLOW150-400	4	4.65	150	15.00	100	2.40	

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.

\*IN STOCK IN HOUSTON

### 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	
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	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#
*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 then the hose. Never exceed the working pressure of the lowest rated component in the assembly.

\*IN STOCK IN HOUSTON

**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:**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#
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.

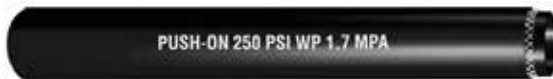
High Pressure, Short shank, universal, or Combination nipples all other sizes. Crimplok universals. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating then the hose. Never exceed the 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.

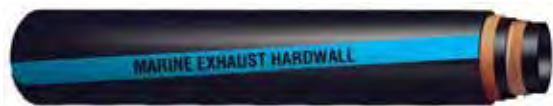
TEMPERATURE:-32C to +80C(-25F to +180F)

PART #	NOM. ID"	NOM. OD"	PSI	STD PACK	WEIGHT#
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	500'	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#
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: Supplied on reels

Recommended Couplings: Push-on



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**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#
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#
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



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## 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#
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#
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



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**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#
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#
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#
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.

### FLEXCHEMS



**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#
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#
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#
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'

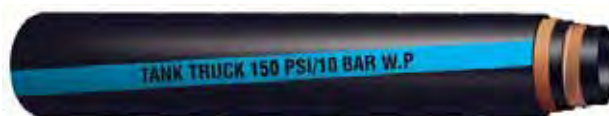
Recommended Couplings: Cam and groove, combination nipple. Crimplok cam and groove, Crimplok combination nipple. All coupling recommendations are to be used as guidelines and are derived from past user preference. In some cases the preferred coupling is of a lesser pressure rating than the hose. Never 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#
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

• Corrugated oil vacuum hose available in Houston



**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#
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.

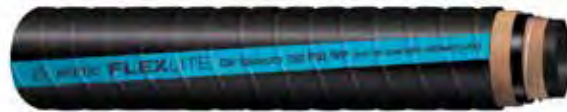
**TUBE:**Black nitrile rubber for maximum oil resistance.

**TEMPERATURE:**-35C to +93C(-30F to +200F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#
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#
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#
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#
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.



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**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#
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#
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

### PETROLEUM TRANSFER



**APPLICATION:**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. Static wire embedded in helix for ease of grounding.

**COVER:**Orange PVC Helix with built in static wire

**REINFORCEMENT:**High tensile synthetic textile yarn

**TUBE:**Specially formulated compound for fuel transfer

**TEMPERATURE:**-40C to +93C(-40F to +200F)

PART #	NOM. ID"	NOM. OD"	PSI	BEND RADIUS"	STD PACK	WEIGHT#
FLDROP-200	2	2.87	150	5.00	100'	1.29
FLDROP-400	4	5.00	75	12.00	100'	2.51

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.

### 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#
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



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**PETROLEUM STEAM AND CHEMICAL HOSE**

## HOSE ACCESSORIES

## 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#
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

Work hard for what you want because it won't come to you without a fight. You have to be strong and courageous and know that you can do anything you put your mind to. If somebody puts you down or criticizes you, just keep on believing in yourself and turn it into something positive.

- Leah LaBelle



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# 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#
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#
BLAY-150-CASS	1-1/2" X 50' BLUE LAYFLAT +C/E CAMLOCK	7.00
BLAY-200-CASS	2"X50'BLUE LAYFLAT+C/E CAMLOCK	12.20
*BLAY-300-CASS	3"X50'BLUE LAYFLAT+C/E CAMLOCK	20.63
*BLAY-400-CASS	4"X50'BLUE LAYFLAT+C/E CAMLOCK	29.49
BLAY-600-CASS	6"X50'BLUE LAYFLAT+C/E CAMLOCK	51.08

\*IN STOCK IN HOUSTON

**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#	
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	

Successful people maintain a positive focus in life no matter what is going on around them. They stay focused on their past successes rather than their past failures, and on the next action steps they need to take to get them closer to the fulfillment of their goals rather than all the other distractions that life presents to them.

- Jack Canfield



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# 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#
DURFL-200	2	2.18	200	200	0.31
*DURFL-300	3	3.22	175	200	0.59
*DURFL-400	4	4.24	150	200	0.65
*DURFL-600	6	6.26	150	200	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.

\*IN STOCK IN HOUSTON

### DURAFLEX - RUBBER LAYFLAT ASSEMBLY



PART #	ASSEMBLY DESCRIPTION	WEIGHT#
DURFL-200-CASSP	2"x50' DURAFLEX + C/E CAMLOCK	14.20
DURFL-300-CASSP	3"x50' DURAFLEX + C/E CAMLOCK	21.63
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#
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#
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#
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.

\*IN STOCK IN HOUSTON

### 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#
*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#
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 then 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#
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 then 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: Soft white PVC

REINFORCEMENT: White PVC helix

TUBE: Smooth white PVC

TEMPERATURE: -20C to +65C (-5F to +150F)

PART #	NOM. ID"	NOM. OD"	VACUUM	PSI	BEND RADIUS"	STD PACK	WEIGHT#
SUPER-200	2	2.39	29	70	7.00	100'	0.75

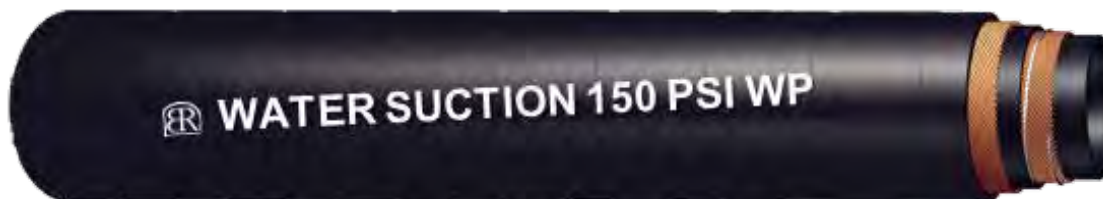
Standard Length: 100'

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#
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.

\*IN STOCK IN HOUSTON

**WATER SUCTION & DISCHARGE HOSE**

## HOSE ACCESSORIES

## TEXTILE REINFORCED S&amp;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#	
*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.



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

# CRIMPLOK

## SELF LOCKING CAM & GROOVE



STAINLESS STEEL &  
ALUMINUM

## UNIVERSAL FITTINGS

## CRIMPLOK KING NIPPLES



## CRIMPLOK FERRULES - PLATED STEEL - STAINLESS STEEL ALUMINUM

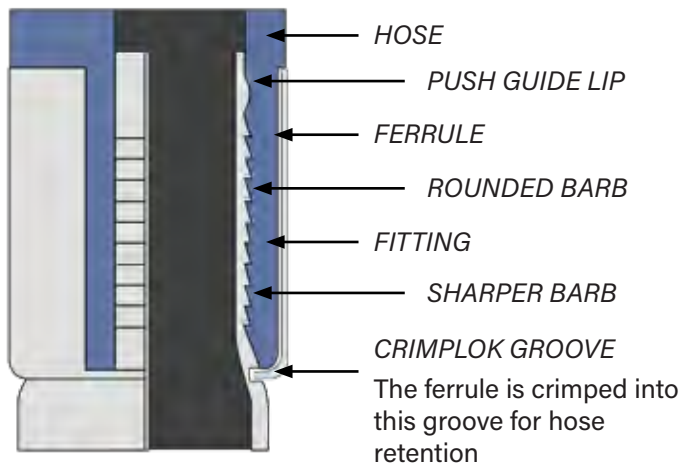


**SOLID**

**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



# CRIMPLOK

HOSE ACCESSORIES

## 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	
CGBSL-200-A1	2"	
CGBSL-300-A1	3"	
CGBSL-400-A1	4"	
CGBSL-600-A1	6"	

### FEMALE COUPLER X FEMALE NPT TYPE D



CGDSL

PART#	SIZE	
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	
CGCSL-200CR-A1	2"	
CGCSL-300CR-A1	3"	
CGCSL-400CR-A1	4"	
CGCSL-600CR-A1	6"	
CGCSL-600CR-A4	6" w/4 arms	

### DUST CAP TYPE DC



CDCSL

PART#	SIZE	
CDCSL-200-A1	2"	
CDCSL-300-A1	3"	
CDCSL-400-A1	4"	
CDCSL-600-A1	6"	

**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
CGBSL-200-SS1	2"
CGBSL-300-SS1	3"
CGBSL-400-SS1	4"
CGBSL-600-SS1	6"

FEMALE COUPLER X FEMALE NPT  
TYPE D



CGDSL

PART#	SIZE
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
CGCSL-200CR-SS1	2"
CGCSL-300CR-SS1	3"
CGCSL-400CR-SS1	4"
CGCSL-600CR-SS1	6"

DUST CAP  
TYPE DC



CDCSL

PART#	SIZE
CDCSL-200-SS1	2"
CDCSL-300-SS1	3"
CDCSL-400-SS1	4"
CDCSL-600-SS1	5"

**CRIMPLOK**

## HOSE ACCESSORIES

**CRIMPLOK ALUMINUM CAM & GROOVE COUPLINGS**

TYPE C



PART#	SIZE	
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"	
CGC-800CS-A1	8"	

TYPE E



PART#	SIZE	
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"	
CGE-800CS-A1	8"	

**Project Information:** For use with  
CRIMPLOK Ferrules CF-XXXXX-SP

**CRIMPLOK STAINLESS CAM & GROOVE COUPLINGS**

TYPE C



TYPE E



TYPE C

PART#	SIZE	
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	
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

**CRIMPLOK CRIMP UNIVERSAL FITTINGS**

PART#	SIZE	MAX OPERATING PSI 70F	
FHE-075-MP	3/4	150	
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	
GJS-050CR-SP	1/2	
GJS-075CR-SP	3/4	
GJS-100CR-SP	1	
GJS-125CR-SP	1-1/4	
GJS-150CR-SP	1-1/2	
GJS-200CR-SP	2	
GJS-250CR-SP	2-1/2	
GJS-300CR-SP	3	
GJS-400CR-SP	4	

**HIGH PRESSURE FEMALE STEM**

PART#	SIZE	
GJM-050CR-SP	1/2	
GJM-075CR-SP	3/4	
GJM-100CR-SP	1	
GJM-125CR-SP	1-1/4	
GJM-150CR-SP	1-1/2	
GJM-200CR-SP	2	
GJM-250CR-SP	2-1/2	
GJM-300CR-SP	3	
GJM-400CR-SP	4	

# CRIMPLOK KING NIPPLES

HOSE ACCESSORIES

## CRIMPLOK CRIMP COMBINATION NIPPLES PLATED STEEL



PART#	SIZE
*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
*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
*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
*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
*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
*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
*CNG-400CS-S	4"
*CNG-600CS-S	6"
*CNG-800CS-S	8"

**Project Information:** For use with CRIMPLOK Sleeves CSL-XXXXX-SP

**CRIMPLOK KING NIPPLES**

HOSE ACCESSORIES

**CRIMPLOK CRIMP VICTAULIC  
COMBINATION NIPPLES PLATED STEEL**

PART#	SIZE	
*CNG-200CR-SP	2"	
*CNG-300CR-SP	3"	
*CNG-400CR-SP	4"	
*CNG-600CR-SP	6"	

**Project Information:** For use with  
CRIMPLOK Ferrules CF-XXXX-SP

**CRIMPLOK CRIMP VICTAULIC  
COMBINATION NIPPLES STAINLESS**

PART#	SIZE	
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-XXXX-SS304

**CRIMPLOK FIXED FLANGE NIPPLE  
STEEL 125 - 150#**

PART#	SIZE	
*CNFL-200CR-S	2"	
*CNFL-300CR-S	3"	
*CNFL-400CR-S	4"	
*CNFL-600CR-S	6"	

**Project Information:** For use with  
CRIMPLOK Ferrules CF-XXXX-SP  
Stainless Steel available - add S316 to part #

**CRIMPLOK CRIMP TURNBACK  
COMBINATION NIPPLES STEEL**

PART#	SIZE	
*CNTB-200CR-S	2"	
*CNTB-300CR-S	3"	
*CNTB-400CR-S	4"	
*CNTB-600CR-S	6"	

**Project Information:** For use with  
CRIMPLOK Ferrules CF-XXXX-SP

**CRIMPLOK CRIMP TURN BACK  
NIPPLES STAINLESS**

PART#	SIZE	
*CNTB-200CR-SS316	2"	
*CNTB-300CR-SS316	3"	
*CNTB-400CR-SS316	4"	
*CNTB-600CR-SS316	6"	

**Project Information:** For use with  
CRIMPLOK Ferrules CF-XXXX-SS304

**CRIMPLOK CRIMP SQUARE CUT  
COMBINATION NIPPLES UNPLATED**

PART#	SIZE	
*CNSC-300CR-SP	3"	
*CNSC-400CR-SP	4"	

**Project Information:** For use with  
CRIMPLOK Ferrules CF-XXXX-SP

**CRIMPLOK FIXED FLANGE NIPPLE  
STAINLESS STEEL 125 - 150#**

PART#	SIZE	
*CNFL-200CR-SS316	2"	
*CNFL-300CR-SS316	3"	
*CNFL-400CR-SS316	4"	
*CNFL-600CR-SS316	6"	

**Project Information:** For use with  
CRIMPLOK Ferrules CF-XXXX-SP



# 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
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
CF-05101S-SP	1/2	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
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
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
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
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
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
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
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
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"



USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

# CRIMPLOK FERRULES PLATED

## HOSE ACCESSORIES

### CRIMPLOK FERRULES STEEL PLATED FOR 2-1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS
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
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
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
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"



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!

**CRIMPLOK FERRULES PLATED**

HOSE ACCESSORIES

**CRIMPLOK FERRULES STEEL PLATED FOR 4" HOSE**

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS
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
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
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"



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# CRIMPLOK FERRULES STAINLESS

HOSE ACCESSORIES



## CRIMPLOK FERRULES STAINLESS 304 FOR 1/2" HOSE

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS
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
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
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
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
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"



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**CRIMPLOK FERRULES STAINLESS**

## HOSE ACCESSORIES

**CRIMPLOK FERRULES STAINLESS 304 FOR 1-1/4" HOSE**

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS
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
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 1-1/2" HOSE**

PART#	SIZE	CAMPBELL PART	FERRULE ID"	FERRULE LENGTH"	WALL THICKNESS
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
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
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
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
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
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
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 ALUMINUM FOR 2" HOSE**

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS
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
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
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
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
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
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
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
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
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"



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**CRIMPLOK SLEEVES PLATED**

HOSE ACCESSORIES

**CRIMPLOK SLEEVES ALUMINUM FOR 2-1/2" HOSE**

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS
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
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
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"



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# CRIMPLOK SLEEVES PLATED

## HOSE ACCESSORIES

### CRIMPLOK SLEEVES STEEL PLATED FOR 4" HOSE

PART#	SIZE	CAMPBELL PART	SLEEVE ID"	SLEEVE LENGTH"	WALL THICKNESS
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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"



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

**HOSE CLAMPS**  
HOSE CLAMPS

**HOSE CLAMPS**

PRICING FILE AVAILABLE ONLINE



 <p><b>WORM GEAR</b></p>	 <p><b>QUICK RELEASE</b></p>
 <p><b>MEGA &amp; MAXI T-BOLT CLAMPS</b></p>	 <p><b>SPRING LOADED T-BOLT</b></p>
 <p><b>CONSTANT TORQUE &amp; V-BAND</b></p>	 <p><b>DOUBLE BOLT CLAMP</b></p>
 <p><b>SPIRAL CLAMP MAXI CLAMP</b></p>	 <p><b>MUFFLER &amp; EXHAUST</b></p>
 <p><b>1 EAR, 2 EAR, GAPLESS</b></p>	 <p><b>HAMMERLOCK &amp; PUNCH-LOK</b></p>
 <p><b>TOOLS</b></p>	 <p><b>NON-PERFORATED OR LINED BAND MARINE CLAMPS</b></p>
 <p><b>RUBBER LINED</b></p>	 <p><b>HOSE FERRULES</b></p>

**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](http://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

#### 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.

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE
	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

### 1/2" BAND CLAMPS



Stainless Steel band with Carbon Steel Housing and Screw

1/2" band, 5/16" screw

#### 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
		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

only I can change my life. No one can do it for me.- Carol Burnett



**325 & 611 WORM GEAR CLAMPS**

## HOSE CLAMPS

**MINIATURE CLAMPS - 5/16" BAND**

Stainless Steel band and housing with Carbon Steel Screw

5/16" band, 1/4" screw

PART #	DIA. RANGE		BOX/CASE
	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

**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.

Mechanically interlocked, 3 piece construction for service sealing pressure without spot welding.

Stainless Steel band and housing with Carbon Steel Screw

**1/2" BAND CLAMPS**

1/2" band, 5/16" screw

PART #	#	DIA. RANGE		BAG/CASE
		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

**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

**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](http://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
	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
- 60mm 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
		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

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**#316 MARINE WORM GEAR CLAMPS**

## HOSE CLAMPS

## MINIATURE CLAMPS - 5/16" BAND

All #316 SS for Marine Environments

5/16" band, 1/4" screw



PART #	DIA. RANGE		BOX/CASE
	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

**350SS Series**

- 1/4" Hex Slotted 316 Stainless Steel Screw
- 316 Stainless Steel Band
- 8mm wide
- 60 mm thick
- 316 stainless 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.

## 1/2" WIDE BAND CLAMPS (12.70MM)

All #316 SS for Marine Environments

1/2" band, 5/16" screw



ALL 316SS PART #	#	DIA. RANGE		BOX/CASE
		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

**620SS Series**

- 5/16" Hex Slotted 316 Stainless Steel Screw
- 1/2" Wide 316 Stainless Steel Band
- 316 Stainless Steel Housing
- 60mm Thickness
- Use for marine, underground and other high corrosive applications.



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# 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.



Open/Close design allows easy installation.



### 500 Series

- 5/16" Hex Slotted Carbon Steel Screw
- 1/2" 301 Stainless Steel band
- 301 Stainless Steel Housing
- 410 Stainless Steel Bridge

### 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 #	#	DIA. RANGE		PART #
		MIN.	MAX.	
500012	12	1/2"	1-1/4"	550012
500020	20	3/4"	1-3/4"	550020
500028	28	1"	2-1/4"	550028
500036	36	1"	2-3/4"	550036
500048	48	1-1/2"	3-1/2"	550048
500056	56	1"	4"	550056
500072	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



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# 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 then 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 then 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

NOMINAL SIZE	O.D. RANGE		PART#
	FROM:	TO:	
1-1/4	1-5/32"	1-15/32"	840131
1-1/2	1-3/8"	1-9/16"	840150
1-3/4	1-5/8"	1-13/16"	840175
1-7/8	1-3/4"	1-15/16"	840188
2	1-7/8"	2-1/16"	840200
2-1/4	2-1/8"	2-5/16"	840225
2-3/8	2-1/4"	2-7/16"	840238
2-1/2	2-3/8"	2-9/16"	840250
2-9/16	2-11/32"	2-5/8"	840256
2-5/8	2-13/32"	2-11/16"	840263
2-3/4	2-17/32"	2-13/16"	840275
2-7/8	2-21/32"	2-15/16"	840288
3	2-25/32"	3-1/16"	840300
3-1/8	2-29/32"	3-3/16"	840312
3-1/4	3-1/32"	3-5/16"	840325
3-1/2	3-9/32"	3-9/16"	840350
3-3/4	3-17/32"	3-13/16"	840375
3-53/64	3-19/32"	3-7/8"	840382
4	3-25/32"	4-1/16"	840400
4-1/4	4-1/32"	4-5/16"	840425
4-1/2	4-9/32"	4-9/16"	840450
4-3/4	4-17/32"	4-13/16"	840475
5	4-25/32"	5-1/16"	840500
5-1/4	5-1/32"	5-5/16"	840525
5-1/2	5-9/32"	5-9/16"	840550
5-3/4	5-17/32"	5-13/16"	840575
6	5-25/32"	6-1/16"	840600
6-1/4	6-1/32"	6-5/16"	840625
6-1/2	6-9/32"	6-9/16"	840650
6-3/4	6-17/32"	6-13/16"	840675
7	6-25/32"	7-1/16"	840700
7-1/2	7-9/32"	7-9/16"	840750
8	7-25/32"	8-1/16"	840800
8-1/4	8-9/32"	8-9/16"	840850
8-7/8	8-21/32"	8-15/16"	840888
10-7/8	10-21/32"	10-15/16"	8401088

**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](http://www.P65Warnings.ca.gov)



# HOSE CLAMPS

HOSE CLAMPS

## MEGA CLAMPS

Rugged heavy duty wide band clamps for use in medium duty air and water, general industrial, automotive, food and agricultural applications.

### MEGAKLAMP



IMPORT

Megaklump Series

Clamp sizes for hose O.D. from 17 mm to 252 mm

Yellow zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt

Band gauge from 0.6 mm to 1.7 mm depending upon clamp size

Band width from 18 mm to 26 mm depending upon clamp size

Bolt size from 5 mm to 10 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH
MKL-019-SP	17-19	0.67	0.75	1.02
MKL-022-SP	20-22	0.79	0.87	1.02
MKL-025-SP	23-25	0.87	0.98	1.02
MKL-028-SP	26-28	1.02	1.10	1.02
MKL-031-SP	29-31	1.14	1.22	1.02
MKL-035-SP	32-35	1.26	1.38	1.02
MKL-039-SP	36-39	1.42	1.54	1.02
MKL-043-SP	40-43	1.57	1.69	0.87
MKL-047-SP	44-47	1.73	1.85	0.87
MKL-051-SP	48-51	1.89	2.01	0.87
MKL-055-SP	52-55	2.05	2.17	0.87
MKL-059-SP	56-59	2.20	2.32	0.87
MKL-063-SP	60-63	2.36	2.48	0.87
MKL-067-SP	64-67	2.52	2.64	0.94
MKL-073-SP	68-73	2.68	2.87	0.94
MKL-079-SP	74-79	2.91	3.11	0.94
MKL-085-SP	80-85	3.15	3.35	0.94
MKL-091-SP	86-91	3.39	3.58	0.94
MKL-097-SP	92-97	3.62	3.82	0.94
MKL-103-SP	98-103	3.86	4.06	0.94
MKL-112-SP	104-112	4.09	4.41	0.94
MKL-121-SP	113-121	4.45	4.76	0.94
MKL-130-SP	122-130	4.80	5.12	0.94
MKL-139-SP	131-139	5.16	5.47	1.02
MKL-148-SP	140-148	5.51	5.83	1.02
MKL-161-SP	149-161	5.87	6.34	1.02
MKL-174-SP	162-174	6.38	6.85	1.02
MKL-187-SP	175-187	6.89	7.36	1.02
MKL-200-SP	188-200	7.40	7.87	1.02
MKL-213-SP	201-213	7.91	8.39	1.02
MKL-226-SP	214-226	8.43	8.90	1.02
MKL-239-SP	227-239	8.94	9.41	1.02

### M6 MAXI CLAMP LIGHT



IMPORT

M6 Maxiclamp Series

Clamp sizes for hose O.D. from 23 mm to 43 mm

Silver (clear) zinc plated steel Band/Bridge/Trunnion/Sleeve/Bolt

Band gauge from 0.6 mm to 0.8 mm depending upon clamp size

Band width from 18 mm to 20 mm depending upon clamp size

Bolt size from 5 mm to 6 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH
M6-23	23-25	0.87	1.01	0.71
M6-26	26-28	1.02	1.13	0.71
M6-29	29-31	1.14	1.25	0.79
M6-32	32-35	1.26	1.41	0.79
M6-36	36-39	1.42	1.56	0.79
M6-40	40-43	1.57	1.72	0.79

### M6 STAINLESS MAXI CLAMP LIGHT

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH
M6S-23	23-25	0.87	1.01	0.71
M6S-26	26-28	1.02	1.13	0.71
M6S-29	29-31	1.14	1.25	0.79
M6S-32	32-35	1.26	1.41	0.79
M6S-36	36-39	1.42	1.56	0.79
M6S-40	40-43	1.57	1.72	0.79

**HOSE CLAMPS**

## HOSE CLAMPS

**M8 MAXI CLAMP STANDARD**

IMPORT



M8 Maxiclamp Series

Clamp sizes for hose O.D. from 44 mm to 130 mm

Silver (clear) zinc plated steel Band/Bridge/Trunion/Sleeve

8 mm silver zinc plated bolt

Band gauge from 1.2 mm to 1.5 mm depending upon clamp size

Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH
M8-44	44-47	1.73	1.88	0.87
M8-48	48-51	1.89	2.04	0.87
M8-52	52-55	2.05	2.17	0.87
M8-56	56-59	2.20	2.35	0.87
M8-60	60-63	2.36	2.51	0.87
M8-64	64-67	2.52	2.67	0.87
M8-68	68-73	2.68	2.90	0.94
M8-74	74-79	2.91	3.14	0.94
M8-80	80-85	3.15	3.38	0.94
M8-86	86-91	3.39	3.61	0.94
M8-92	92-97	3.62	3.85	0.94
M8-98	98-103	3.86	4.08	0.94
M8-104	104-112	4.09	4.44	0.94
M8-113	113-121	4.45	4.79	0.94
M8-122	122-130	4.80	5.15	0.94

**M8 MAXI CLAMP STANDARD**

IMPORT



M8S Maxiclamp Series

Clamp sizes for hose O.D. from 44 mm to 130 mm

301 Stainless steel Band/Bridge/Trunion/Sleeve

8 mm A2-70 Stainless steel bolt

0.8 mm thick band

Band width from 22 mm to 24 mm depending upon clamp size

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH
M8S-44	44-47	1.73	1.88	0.87
M8S-48	48-51	1.89	2.04	0.87
M8S-52	52-55	2.05	2.17	0.87
M8S-56	56-59	2.20	2.35	0.87
M8S-60	60-63	2.36	2.51	0.87
M8S-64	64-67	2.52	2.67	0.87
M8S-68	68-73	2.68	2.90	0.94
M8S-74	74-79	2.91	3.14	0.94
M8S-80	80-85	3.15	3.38	0.94
M8S-86	86-91	3.39	3.61	0.94
M8S-92	92-97	3.62	3.85	0.94
M8S-98	98-103	3.86	4.08	0.94
M8S-104	104-112	4.09	4.44	0.94
M8S-113	113-121	4.45	4.79	0.94
M8S-122	122-130	4.80	5.15	0.94
M8S-131	131-139	5.16	5.50	1.02
M8S-140	140-148	5.51	5.86	1.02
M8S-149	149-161	5.87	6.37	1.02
M8S-162	162-174	6.38	6.88	1.02

**M10 MAXI CLAMP HEAVY**

IMPORT



M10S Maxiclamp Series

Select sizes available

301 Stainless steel Band/Bridge/Trunion/Sleeve

10 mm A2-70 Stainless steel bolt

1.7 mm thick x 26 mm wide band

PART #	SIZE MM	DECIMAL MIN"	DECIMAL MAX"	WIDTH
M10-131	131-139	5.16	5.50	1.02
M10-140	140-148	5.51	5.86	1.02
M10-149	149-161	5.87	6.37	1.02
M10-162	162-174	6.38	6.88	1.02
M10-175	175-187	6.89	7.39	1.02
M10-188	188-200	7.40	7.86	1.02
M10-201	201-213	7.91	8.42	1.02
M10-214	214-226	8.43	8.90	1.02
M10-227	227-239	8.94	9.44	1.02
M10-240	240-252	9.45	9.92	1.02

# 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
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.

*Always turn a negative situation into a positive situation.*

*— Michael Jordan*



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**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



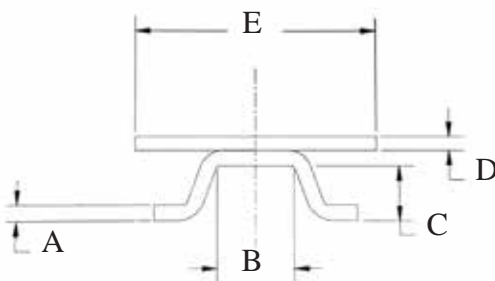
**Purpose:** To eliminate leaks by automatically increasing or decreasing the clamps diameter, decreasing the need for retightening. Constant torque clamps have an extended tail on the band to protect soft hose or tube from being cut.

**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
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

**V-BAND HOSE CLAMPS**

- Band thickness: see chart
- Band width: see chart
- Band material: 300 stainless
- Trunnion: 300 stainless
- 1/4" T-bolt: 300 stainless



**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
		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

### DOUBLE BOLT CLAMPS



IMPORT

DBC Series

Rugged, heavy duty two bolt clamps with saddles

Zinc plated ductile iron clamps and saddles

Zinc plated carbon steel bolt and nuts



PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS
DBC-40-DP	1-5/16	1-5/16" - 1-19/32"	20
DBC-60-DP	1-7/8	1-7/8" - 2-3/8"	25
DBC-76-DP*	2-3/8	2-3/8" - 3-1/16"	25
DBC-94-DP*	3-1/2	3-1/2" - 3-11/16"	40
DBC-400-DP*	3-1/2	3-1/2" - 4"	40
DBC-431-DP	3-13/16	3-13/16" - 4-1/16"	40
DBC-463-DP	4-1/16	4-1/16" - 4-7/16"	40
DBC-525-DP*	4-3/16	4-3/16" - 5"	60
DBC-550-DP*	5	5" - 5-1/2"	60
DBC-600-DP*	5-1/2	5-1/2" - 5-15/16"	60
DBC-639-DP	5-11/16	5-11/16" - 5-15/16"	60
DBC-675-DP*	6-1/8	6-1/8" - 6-7/8"	60
DBC-769-DP*	6-15/16	6-15/16" - 7-5/8"	60
DBC-818-DP	7-11/16	7-11/16" - 8-3/16"	125
DBC-875-DP*	8-1/4	8-1/4" - 8-7/8"	125
DBC-988-DP*	8-15/16	8-15/16" - 9-7/8"	125
DBC-1125-DP*	9-15/16	9-15/16" - 11-3/8"	125
DBC-1275-DP*	11-3/16	11-3/16" - 13"	125
DBC-1360-DP	12-3/16	12-3/16" - 14"	200

\*IN STOCK IN HOUSTON



R88 Series

IMPORT

Rugged, heavy duty two bolt clamps without saddles

Zinc plated ductile iron clamp

Zinc plated carbon steel bolt and nuts



PART #	SIZE	SIZE RANGE	MAX TORQUE FT LBS
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

\*IN STOCK IN HOUSTON



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**HOSE CLAMPS**

## HOSE CLAMPS

**SC SPIRAL CLAMP SERIES**

IMPORT

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 #
SC-200R-SP*		2"	51 - 56	SC-200L-SP
SC-250R-SP		2-1/2"	61 - 76	SC-250L-SP
SC-300R-SP*		3"	76 - 90	SC-300L-SP
SC-400R-SP*		4"	106 - 118	SC-400L-SP
SC-500R-SP		5"	129 - 140	SC-500L-SP
SC-600R-SP*		6"	151 - 170	SC-600L-SP
SC-800R-SP		8"	198 - 217	SC-800L-SP
SC-1000R-SP		10"	274 - 290	SC-1000L-SP
SC-1200R-SP		12"	304 - 329	SC-1200L-SP

\*IN STOCK IN HOUSTON



IMPORT

**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
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"



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

# MUFFLER CLAMPS

Muffler Clamps are designed with elongated and tapered holes that pulls the legs around the pipe as the nuts tighten, making a tight seal. Other clamp legs do not wrap around the pipe, they stay straight and the clamp only connects at two points.

- Carbon steel band, housing and bridge
- All muffler clamps are zinc plated for superior corrosion resistance
- Heavy duty U-Bolt and band construction
- 3/8 U-bolt
- Base 2.4mm

## SADDLE



PART #	SIZE	WGT	BOX QTY
841175	1-3/4"	0.335	50
841200	2"	0.410	50
841250	2-1/2"	0.448	50
841300	3"	0.582	50
841350	3-1/2"	0.741	50
841400	4"	0.847	25
841450	4-1/2"	1.023	25
841500	5"	1.067	25

## FLAT BAND



PART #	SIZE	WGT	BOX QTY
841004	4"	0.847	25
841005	5"	1.093	25

## GUILLOTINE - PROVIDES A COMPLETE 360° HEAVY DUTY SEAL



PART #	SIZE	WGT	BOX QTY
841040	4"	0.820	25
841045	4-1/2"	0.847	25
841050	5"	0.988	25



VIEW PRICING AND AVAILABLE STOCK ONLINE

## EXHAUST HOSE CLAMPS

# EXHAUST CLAMPS

Complete with:

- One metal band - 76mm width
- One spacer
- Two bolts
- Two reaction blocks
- Individually boxed

- Pre-attached hardware for easy and accurate installation.

- Conforms to pipe and flex tubing to create the best seal available without distorting any pipes.

### ALUMINIZED STEEL BUTT CLAMPS

- .7mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
845200	2"	0.970	50	
845300	3"	1.058	50	
845350	3.50"	1.102	50	
845400	4"	1.146	50	
845500	5"	1.235	50	
845600	6"	1.323	50	
845-500SS*	5"	1.190	50	----

\*Light pattern .5mm band thickness

### ALUMINIZED STEEL LAP CLAMPS

- .7mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
846200	2"	0.970	50	
846250	2.50"	1.014	50	
846275	2.75"	1.036	50	
846300	3"	1.058	50	
846350	3.50"	1.102	50	
846400	4"	1.146	50	
846500	5"	1.235	50	

### STAINLESS STEEL LAP CLAMPS

- .5mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
847200	2"	0.926	50	
847250	2.50"	0.970	50	
847275	2.75"	0.992	50	
847300	3"	1.014	50	
847350	3.50"	1.058	50	
847400	4"	1.102	50	
847500	5"	1.190	50	
847600	6"	1.279	50	

### STAINLESS STEEL EASY-FORM CLAMPS

- .5mm band thickness
- 76mm band width



PART #	SIZE	WGT	BOX QTY	
848200	2"	0.926	50	
848225	2.25"	0.948	50	
848250	2.50"	0.970	50	
848275	2.75"	0.992	50	
848300	3"	1.014	50	
848350	3.50"	1.058	50	
848400	4"	1.102	50	
848500	5"	1.190	50	
848600	6"	1.279	50	
848700	7"	1.367	50	

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](http://www.P65Warnings.ca.gov)

# 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	
			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

The art of communication is the language of leadership. - James Humes

**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
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-3437	1-7/16	1.339	1.457
CC-3740	1-1/2	1.457	1.575

**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	
			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

**HAMMERLOCK CPHL SERIES**

Double wrapped galvanized steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.



IMPORT



PART #	SIZE	WIDTH
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"
CPHL-24*	6"	5/8"
CPHL-26	6-1/2"	5/8"
CPHL-28*	7"	5/8"
CPHL-32	8"	5/8"

\*IN STOCK IN HOUSTON

**HAMMERLOCK CPHL SERIES**

Double wrapped galvanized steel band preformed to a given diameter and ready for application. Stainless steel lok for strength.

IMPORT



PART #	SIZE	WIDTH
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"

\*IN STOCK IN HOUSTON

**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](http://www.P65Warnings.ca.gov)





# CLAMPING TOOLS

## HOSE CLAMPS

### MODEL 1098 I STANDARD JAW PINCERS

Domestic

<b>PART #</b>	
OETP-1098	

Import

<b>PART #</b>	
CCP-1098	



<b>PART #</b>	
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



<b>PART #</b>		
1410083	Model 10991	

### TPT TOOLS AND PARTS



<b>PART #</b>	
TPT-1	

### HOSE CRIMPER



HOSE CRIMPER COMES WITH 5 DIES  
Die Sizes = 5/8", 37/64", 12/32", 31/64", 11/16"

<b>PART #</b>		
308070	Hose Crimper	----

### LOKING TOOL



<b>PART #</b>	
F38	

Portable hand tool used to apply punch Type 3/8 & 5/8 Clamps

### BUCHANAN TYPE



### LOKING TOOL



<b>PART #</b>	
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

<b>PART #</b>	
F100	

### LOKING TOOL HD



<b>PART #</b>		
P1	HEAVY DUTY	
P-300	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](http://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	SAE Size	Clamping Range		Bag	Part# 304 SS
		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
88112	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
	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



### MARINE - EMBOSSED NON-PERFORATED WORM GEAR CLAMPS

- Meets the DIN 3017 Standard
- Replaces the Ultra Clamps 316 stainless steel
- 12mm band widths
- Installation torque 60lbs
- General purpose non perforated band especially suited for most hoses and soft silicone hoses.
- Band edges rolled to protect soft hoses from shearing and fraying
- Common applications include: vehicular, industrial, mechanical engineering, plumbing and marine.
- ROLLED EDGES
- BAND WILL NOT DAMAGE SOFT HOSES

#### ALL #316 SS MATERIAL

#### 12MM WIDE EMBOSSED ALL 316 BAND CLAMPS

PART #	RANGE OF ADJUST (IN MM)	RANGE OF ADJUST (INCHES)
96022	12-22	.469-.859
96027	16-27	.625-1.06
96032	20-32	.787-1.26
96040	25-40	.984-1.575
96050	35-50	1.26-1.969
96060	40-60	1.575-2.362
96070	50-70	1.969-2.756
96080	60-80	2.362-3.15
96090	70-90	2.756-3.543
96100	80-100	3.15-3.937
96110	90-110	3.543-4.33
96120	100-120	3.937-4.724
96130	110-130	4.33-5.118
96140	120-140	4.72-5.512
96150	130-150	5.118-5.906
96160	140-160	5.512-6.299

### MINI CLAMPS

#### 304 SS MINI CLAMPS



PART # 304 SS	CLAMPING RANGE		QTY PER BAG
	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
93014	.53-.59	13.5-15	700
93016	.59-.67	15-17	1000
93017	.63-.71	16-18	500

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# 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 #	QTY PER BAG	CLAMPING RANGE		PART# 304 SS	QTY PER BAG
		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
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"



### GALVANIZED STEEL VINYL COATED CLAMP

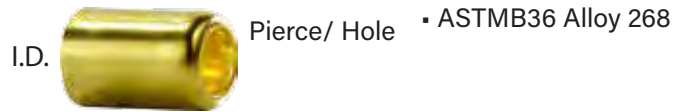
PART #	MOUNTING DIA	CLAMP DIA
95504	1/4"	3/8"
95506	1/4"	1/2"
95508	1/4"	5/8"
95510	1/4"	3/4"
95512	1/4"	7/8"
95514	1/4"	1"
95516	1/4"	1 1/8"
95518	1/4"	1 1/4"
95522	1/4"	1 1/2"
95523	1/4"	1 3/4"
95524	1/4"	2"

**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.



PART #	FER-RULE #	I.D.	LENGTH	PIERCE	GAUGE
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
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
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
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

MORE SIZES AVAILABLE

AVAILABLE IN ALUMINUM  
AND STEEL ALSO

**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](http://www.P65Warnings.ca.gov)



**TUBING**

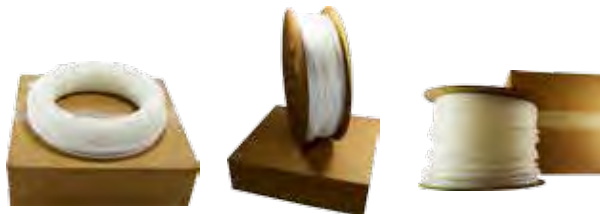


**POLYURETHANE**



**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**



PRICING FILE AVAILABLE ONLINE



**POLYURETHANE**

TUBING

**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)
973341	4mm, 5/32	.093	.031	.250	200	85	600	.70
973343	.250	.156	.047	.476	180	70	540	1.50

**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)
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

**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)
73341U	4mm, 5/32	.093	.031	.250	200	85	600	.70
73343U	.250	.156	.047	.476	180	70	540	1.50
73345U	.375	.250	.063	1.000	150	70	450	3.40

**RED**

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)
73341R	4mm, 5/32	.093	.031	.250	200	85	600	.70
73343R	.250	.156	.047	.476	180	70	540	1.50
73345R	.375	.250	.063	1.000	150	70	450	3.40
73346R	.562	.375	.093	1.142	140	60	420	5.60

**OD Sizes Available**

.125, .187, 1/4(1/8), 8mm(5/16)  
 .562, .625 and .750

Other sizes, Lengths and  
 Colors available

- Available in longer lengths upon request
- Other colors available

# 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      Process Control  
Pneumatic Tools      Laboratories  
Pneumatic Piping  
Electrical Jacketing  
Drain Lines  
Instrumentation  
Chemical Transfer



100' LENGTH



500' LENGTH



1000' LENGTH

### 100' LENGTH - Natural

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE
973200	1/8"	0.08	0.022	250
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

### 500' LENGTH

PART #	TUBE O.D.	TUBE ID	TUBE WALL	WORKING PRESSURE
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
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.
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"
73208B	Black	100'	5/8"
73203B5	Black	500'	1/4"
73205B5	Black	500'	5/16"
73206B5	Black	500'	3/8"
73207B5	Black	500'	1/2"
73203B1	Black	1000'	1/4"
73206B1	Black	1000'	3/8"



#### BLUE

- 100'
- 500'
- 1000'

PART #	COL-OR	LENGTH	NOMI-NAL O.D.
73-203U	Blue	100'	1/4"
73-206U	Blue	100'	3/8"
73-207U	Blue	100'	1/2"
73-203U5	Blue	500'	1/4"
73-206U5	Blue	500'	3/8"
73-203U1	Blue	1000'	1/4"

#### GREEN



- 100'
- 500'
- 1000'

PART #	COLOR	LENGTH	NOMI-NAL O.D.
73203G	Green	100'	1/4"

#### RED



- 100'
- 500'
- 1000'

PART #	COL-OR	LENGTH	NOMI-NAL O.D.
73203R	Red	100'	1/4"
73206R	Red	100'	3/8"
73203R5	Red	500'	1/4"
73206R5	Red	500'	3/8"
73203R1	Red	1000'	1/4"

I truly believe that everything that we do and everyone that we meet is put in our path for a purpose. There are no accidents; we're all teachers - if we're willing to pay attention to the lessons we learn, trust our positive instincts and not be afraid to take risks or wait for some miracle to come knocking at our door.

- Marla Gibbs



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

# 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
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
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
73238U**	1/4	0.15	0.075	800

• 500' Natural      \*\*Blue

\*METRIC LENGTH - 100 ft. coils      • available in natural color only

PART #	MM O.D.	MM I.D.	MM WALL	WORKING PRESSURE
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
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
990571	3mm-22mm (1/8"-7/8")

#### TUBING CUTTER



PART #	SIZE
990570	1/8"-1-1/8"

#### PLASTIC TUBE CUTTER

Range: 1/8" - 3/8" I.D. (3mm-10mm)



PART #	DESCRIPTION
91707	Cutter w/Blade

#### MOUNTING RACKS



- Route and secure multiple tubing lines
- Mounting versatility
  - Racks can be easily hand separated down to single holders.
  - Thru holes provided (all sizes)
- Standard color is BLACK.  
Other colors available on special request.

NOTE: MOUNTING SCREWS NOT PROVIDED

PART #	TUBING OD	DESCRIP.	CHANNELS
28988	1/4	non-adhesive	10
28989	1/4	adhesive	10
28990	3/8	non-adhesive	7
28991	1/2	non-adhesive	5



# 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  $\pm 0.004$ "

## 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	

**HIGH PRESSURE SPRAYER**  
HIGH PRESSURE SPRAYER

**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](http://www.P65Warnings.ca.gov)

# NOZZLES



OFFERED EXCLUSIVELY THROUGH MIDLAND INDUSTRIES

## 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 1/4" quick disconnect plug.



PART #	DEGREE OF SPRAY	GPM @ 4000PSI
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 1/4" male pipe thread.



PART #	DEGREE OF SPRAY	GPM @ 4000PSI
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
DX140070MG	0	7.0
DX141570MG	15	7.0
DX142570MG	25	7.0
DX144070MG	40	7.0

## QUICK DISCONNECT NOZZLE 5-PIECE KIT

PART #	GPM @ 4000PSI
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****OFFERED EXCLUSIVELY THROUGH****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
DX722530	2500	3.0
DX722540	2500	4.0
DX722550	2500	5.0
DX722560	2500	6.0
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

**STAINLESS STEEL LIVE SWIVEL**

MxF straight through live swivel, NBR or Viton seal, 416 SS, 10.6 gpm, 180F max, 3500 PSI



PART #	SEAL	SIZE
DX60021	NBR	1/4"
DX60022	NBR	3/8"
DX60023	NBR	1/2"
DX60021V	Viton	1/4"
DX60022V	Viton	3/8"
DX60023V	Viton	1/2"

**THERMAL RELIEF VALVE**

140F Thermal Relief Valve, Brass, 300 PSI



PART #	SIZE
DX35TR25	1/4"
DX35TR38	3/8"

**90° BOOM SWIVEL**

Male x Female 90° Boom swivel, Stainless Steel, 5000 PSI, 7GPM, 300°F



PART #	SIZE
DX60092	3/8"

**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](http://www.P65Warnings.ca.gov)



# SPRAY GUNS

HIGH PRESSURE SPRAYER



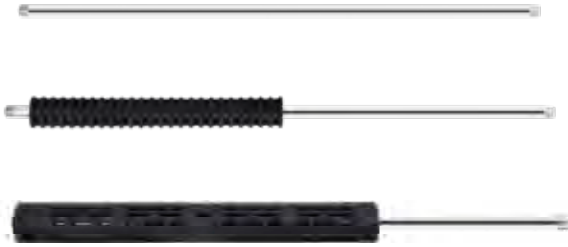
# SPRAYERS

OFFERED EXCLUSIVELY THROUGH



## CHROMED STEEL WAND

1/4" MNPT x 1/4" Extension Wands, 10.5 GPM, 300F



PART #	SIZE	GRIP
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
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 #  
DX5006

## SPRAY GUN WITH EXTENSION\*

Rear entry spray gun with 12" extension, 4000psi, 7gpm, 300F max, inlet 3/8", outlet M22



PART #  
DX5190

## SPRAY GUN WITH EXTENSION\*

Rear entry spray gun with 12" extension, 5075psi, 10.5gpm, 300F max, inlet 3/8", outlet M22



PART #  
DX5197

\*Requires a 86-005 for MEG Nozzle and a 86-005 & 86-030 for QD Nozzle

**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](http://www.P65Warnings.ca.gov)

HIGH PRESSURE SPRAYER



**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
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
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
86030SS	1/4	1/4	6000
86031SS	3/8	3/8	6000

**FEMALE STAINLESS STEEL COUPLERS**

PART #	BODY SIZE	THREAD SIZE	PSI
86035SS	1/4	1/4	6000
86036SS	3/8	3/8	6000

**MALE STEEL PLUGS**

PART #	BODY SIZE	THREAD SIZE	PSI
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
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
86040SS	1/4	1/4	6000
86041SS	3/8	3/8	6000

**FEMALE STAINLESS STEEL PLUGS**

PART #	BODY SIZE	THREAD SIZE	PSI
86045SS	1/4	1/4	6000
86046SS	3/8	3/8	6000

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# COUPLERS/ KNOBS

HIGH PRESSURE SPRAYER

## MOLDED GRIP MALE BRASS COUPLER



PART #	THREAD SIZE	THREAD SIZE	PSI
86030RG	1/4	1/4	4000
86031RG	3/8	3/8	4000

## MOLDED GRIP FEMALE BRASS COUPLER



PART #	THREAD SIZE	PLUG	PSI
86035RG	1/4	1/4	4000
86036RG	3/8	3/8	4000

## M22 SCREW TYPE X MNPT



PART #	THREAD SIZE	MALE	PSI
86001	M22	1/4	4000
86002	M22	3/8	4000

## M22 SCREW TYPE X FNPT



PART #	THREAD SIZE	FEMALE SIZE	PSI
86005	M22	1/4	4000
86006	M22	3/8	4000

## INSULATED KNOB

### M22 INSULATED KNOB X MNPT



PART #	THREAD SIZE	MALE SIZE	PSI
86012	M22	1/4	4000
86013	M22	3/8	4000

### M22 INSULATED KNOB X FNPT



PART #	THREAD SIZE	FEMALE SIZE	PSI
86017	M22	1/4	4000
86018	M22	3/8	4000

### M22 X M22 FNPT



PART #	THREAD SIZE	THREAD SIZE	PSI
86022	M22	M22	4000

### M22 INSULATED KNOB X QC PLUG



PART #	THREAD SIZE	PLUG	PSI
86020	M22	3/8	4000

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HIGH PRESSURE SPRAYER

# PNEUMATICS

PNEUMATICS

## 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

PRICING FILE AVAILABLE ONLINE

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# 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
28540	1/4"	1/4"
28541	1/4"	3/8"

## BRASS MALE COUPLER



PART#	BODY SIZE	THREAD SIZE
28552	1/4"	1/4"
28553	1/4"	3/8"

## STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE
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"

## STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE
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
28562	1/4"	1/4"
28564	1/4"	3/8"

## STEEL HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE
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
28565	1/4"	1/4"
28566	1/4"	3/8"

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**INDUSTRIAL**  
PNEUMATICS

**STEEL PUSH-ON HOSE COUPLER**



PART#	BODY SIZE	BARB SIZE
28565S	1/4"	1/4"
28566S	1/4"	3/8"
98842	3/8"	3/8"

**STEEL MALE PLUG**



PART#	BODY SIZE	THREAD SIZE
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
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
28546B	1/4"	1/4"

**BRASS FEMALE PLUG**



PART#	BODY SIZE	THREAD SIZE
28534B	1/4"	1/4"

**STEEL HOSE ID PLUG**



PART#	BODY SIZE	BARB SIZE
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
28558	1/4"	1/4"
28561	1/4"	3/8"
98830	3/8"	3/8"

**STEEL SWIVEL MALE PLUG**



PART#	BODY SIZE	THREAD SIZE
320065	1/4"	1/4"

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# 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
28579	1/4"	1/4"
28589	1/4"	3/8"

## BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE
28560	1/4"	1/4"

## BRASS HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE
28690	1/4"	1/4"
28691	1/4"	3/8"

## STAINLESS STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE
28579SS	1/4"	1/4"

## STAINLESS STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE
28560SS	1/4"	1/4"

## STAINLESS STEEL INDUSTRIAL MALE PLUG



PART#	BODY SIZE	THREAD SIZE
28546SS	1/4"	1/4"

## STAINLESS STEEL INDUSTRIAL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE
28534SS	1/4"	1/4"

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# ARO 210 INTERCHANGE

PNEUMATICS

## 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
28592	1/4"	1/8"
28593	1/4"	1/4"
28594	1/4"	3/8"

### MALE PLUG



PART#	BODY SIZE	THREAD SIZE
28586	1/4"	1/8"
28587	1/4"	1/4"

### FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE
28583	1/4"	1/8"
28584	1/4"	1/4"
28585	1/4"	3/8"

### FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE
28578	1/4"	1/4"

### HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE
28601	1/4"	1/4"
28603	1/4"	3/8"

### HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE
28595	1/4"	1/4"
28597	1/4"	3/8"



USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

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# 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	
28515	1/4"	1/8"	
28516	1/4"	1/4"	
28517	1/4"	3/8"	

#### BRASS FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28507	1/4"	1/4"	
28508	1/4"	3/8"	

#### STEEL MALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28516S	1/4"	1/4"	
28514S	3/8"	1/4"	
28519S	3/8"	3/8"	

#### STEEL FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE	
28507S	1/4"	1/4"	
28525S	3/8"	1/4"	
28526S	3/8"	3/8"	

#### BRASS MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28510B	1/4"	1/4"	

#### BRASS FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE	
28501B	1/4"	1/4"	

#### STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE	
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	
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"	

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# AUTOMOTIVE/ PARKER INTERCHANGE

## PNEUMATICS

### HOSE ID COUPLER



PART#	BODY SIZE	BARB SIZE
28528	1/4"	1/4"
28530	1/4"	3/8"
28536	3/8"	1/4"

### HOSE ID PLUG



PART#	BODY SIZE	BARB SIZE
28518	1/4"	1/4"
28520	1/4"	3/8"
28523	3/8"	1/4"
28524	3/8"	3/8"

### PUSH-ON HOSE COUPLER



PART#	BODY SIZE	BARB SIZE
28531	1/4"	1/4"
28532	1/4"	3/8"

### PUSH-ON HOSE PLUG



PART#	BODY SIZE	BARB SIZE
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
28683	1/4"	1/4"

### STEEL MALE PLUG



PART#	BODY SIZE	THREAD SIZE
28685	1/4"	1/8"
28686	1/4"	1/4"

### FEMALE COUPLER



PART#	BODY SIZE	THREAD SIZE
28684	1/4"	1/4"

### STEEL FEMALE PLUG



PART#	BODY SIZE	THREAD SIZE
28687	1/4"	1/4"

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# COUPLERS

PNEUMATICS

## ST SERIES...HIGH FLOW

### SPECIFICATIONS

Brass - Coupler & Steel Plug	
Temperature Range	-40° to 250°

- Non-valved couplings for applications where maximum flow is required. Ideal for applications such as high pressure water and steam washers, carpet cleaners and mold coolant lines. They are often used in food processing, on fluid and dye transfer lines.
- Standard seals are Buna-N (Nitrile).

#### MALE PIPE COUPLER

BRASS



PART #	BODY & THREAD SIZE
28667	1/8"
28665	1/4"
28666	3/8"
28668	1/2"
28669	3/4"
28670	1"

#### FEMALE PIPE COUPLER

BRASS



PART #	BODY & THREAD SIZE
28671	1/8"
28651	1/4"
28652	3/8"
28672	1/2"
28673	3/4"

#### MALE PLUG

STEEL



PART #	SIZE
28675	1/8"
28639	1/4"
28640	3/8"
28676	1/2"
28677	3/4"

#### FEMALE PLUG

STEEL



PART #	SIZE
28688	1/8"
28619	1/4"
28620	3/8"
28679	1/2"
28680	3/4"
28681	1"

### MOLD COOLANT-LINE QUICK COUPLERS

#### OPERATING PRESSURE:

200 PSIG (14.06 Kg/sq. cm)

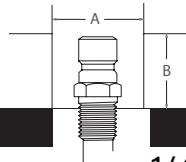
#### Standard Seal:

**SILICONE:** -90°F to 400°F (-68°C to +205°C)

- MIDLAND coolant couplers are engineered for optimum speed and performance in connecting coolant lines to molds used for thermoplastic, thermo-setting, blow molding, diecasting and on other types of tooling and equipment utilizing a constant fluid flow pumped through cooling channels.



MALE PLUG (BRASS)



FEMALE PLUG (STEEL)

#### 1/4" BASIC SIZE

PART #	SIZE	A	B
29900	1/8"	0.69	0.69
29901	1/4"	0.84	0.94
29902	3/8"	1.00	0.97

#### 3/8" BASIC SIZE

PART #	SIZE	A	B
29-906	1/4"	1.00	0.94
29-907	3/8"	1.00	1.13
29-908	1/2"	1.81	1.25

#### 1/2" BASIC SIZE

PART #	SIZE	A	B
29911	1/2"	1.25	1.50
29912	3/4"	1.50	1.56

#### 1/4" BASIC SIZE

PART #	SIZE
29903	1/8"
29904	1/4"
29905	3/8"

#### 3/8" BASIC SIZE

PART #	SIZE
29909	1/4"
29910	3/8"

#### 1/2" BASIC SIZE

PART #	SIZE
29913	1/2"
29914	3/4"

### MINI TYPE QUICK DISCONNECTS

#### MALE COUPLER



PART #	SIZE
28605	1/8"

#### FEMALE PLUG



PART #	SIZE
28608	1/8"

Fax 1-800-877-5391



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# 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
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
300031	10/32"
300032	1/8"
300033	1/4"
300034	3/8"
300035	1/2"
300036	3/4"
300037	1"

### BRASS BREATHER VENT



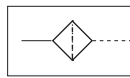
Materials:  
 Body: Brass  
 Element: Sintered Bronze  
 Max Operating Pressure: 150PSI  
 Temperature: 35° to 300°F

- 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
300000	10-32"
300001	1/8"
300002	1/4"
300003	3/8"
300004	1/2"
300006	3/4"
300008	1"

40 Micron element

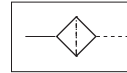
### STAINLESS BREATHER VENT



Materials:  
 Body: 303 Grade Stainless Steel  
 Element: 316 Grade Stainless Steel  
 Max Operating Pressure: 150PSI  
 Temperature: 35° to 390°F

PART #	SIZE
300014	1/8"
300015	1/4"
300017	3/8"
300018	1/2"
300019	3/4"
300007	1"

### PRESSURE SNUBBER



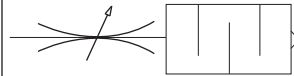
Materials:  
 Body: Brass  
 Element: Sintered Bronze  
 Max Operating Pressure: 9000PSI  
 Temperature: 35° to 300°F

- 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
28354	1/4"	40 um
28353	1/4"	30 um
28352	1/4"	25 um
28351	1/4"	20 um
28350	1/4"	10 um

Recommended Element Porosity Rating		
Rating	Color	Recommended Application
40 um	None	Viscous Fluids (over 500 ssu)

### 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

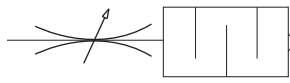
PART #	SIZE
940800	1/8"
940801	1/4"
940803	3/8"
940804	1/2"
940805	3/4"
940806	1"

**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](http://www.P65Warnings.ca.gov)

# VALVES/ MUFFLERS/ FILTERS

## PNEUMATICS

### STAINLESS SPEED CONTROL VALVE



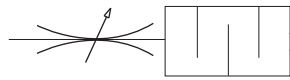
70 Micron filter element

Materials:

Body: 303 Grade Stainless Steel  
Element: 316 Grade Stainless Steel  
Max Operating Pressure: 300PSI  
Temperature: 35° to 392°F

PART #	SIZE
940810	1/8"
940811	1/4"
940812	3/8"
940813	1/2"
940814	3/4"
940815	1"

### MUFFLER W/ FLOW ADJUSTMENT



Materials:

Body: Brass  
Element: Sintered Bronze  
Max Operating Pressure: 300PSI  
Temperature: 35° to 300°F

PART #	SIZE
28379	1/8"
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
940822	1/8"
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
28373	1/8"
28374	1/4"
28375	3/8"
28376	1/2"
28377	3/4"
28378	1"

### ALUMINUM HIGH FLOW MUFFLER



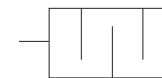
Materials:

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
28367	1/8"
28368	1/4"
28369	3/8"
28370	1/2"
28371	3/4"
28372	1"

### PLASTIC HIGH FLOW MUFFLER

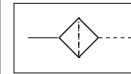


Materials:

Body: Black Nylon  
Element: 50 Mesh Stainless Steel  
Max Operating Pressure: 150PSI  
Temperature: 35° to 120°F

PART #	SIZE
28363	1/8"
28364	1/4"
28365	3/8"
28366	1/2"

### NIPPLE INLINE FILTER

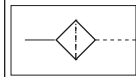


Materials:

Body: Brass  
Element: 40 Micron Sintered Bronze  
Max Operating Pressure: 300PSI  
Temperature: 35° to 300°F

PART #	SIZE
940845	1/8"
940846	1/4"
940847	3/8"
940848	1/2"

### REPAIRABLE AIR/ OIL INLINE FILTER



Materials:

Body: Anodized Aluminum  
Element: 40 Micron Sintered Bronze  
Max Operating Pressure: 300PSI  
Temperature: 35° to 200°F

- Application: Protect small air tools i.e. impact wrench grinders, screwdrivers and low pressure hydraulic applications
- Construction: All anodized, lightweight aluminum housing
- Can be installed directly before the air tool
- Features cleanable or replaceable 40 micron filter element

PART #	SIZE
940840	1/8"
940841	1/4"
940842	3/8"
940843	1/2"
940844	3/4"

What you feel inside  
reflects on your face. So  
be happy and positive all  
the time.

- Sridevi

# MANIFOLDS AND AIR REGULATORS

PNEUMATICS

## MANIFOLDS

### CHROME PLATED BRASS MANIFOLDS

- 1/4" inlet and outlets

PART #	DESCRIPTION
28444	2 Port
28445	3 Port
28446	4 Port

- 1/4" Inlet on each end



### MANIFOLDS - ALUMINUM WITH BLACK ANODIZING

Materials:

Aluminum with black anodizing for corrosion resistance.

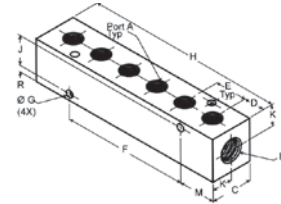
Specifications:

Max Operating Pressure: 1000PSI

Temperature: -10° to 200°F

Media: Air and liquids compatible with materials of construction.

- Ports column = # of ports in top of manifold



### THREADED PORTS

Part #	Ports	A - out NPT	B - in NPT	C	D	E	F	G	H	J	K	M	R
28450	4						1.5		3.25				
28452	6	1/8"	1/4"	1.00	0.50	0.75	3.00	0.17	4.75	0.70	0.50	0.88	0.15
28456	10						6.00		7.75				
28457	2												
28458	3						0.88		3.00				
28460	5						2.63		4.75				
28464	9	1/4"	3/8"	1.25	0.63	0.88	6.13	0.20	8.25	0.89	0.63	1.06	0.18
28465	10						7.00		9.13				
28467	3						1.13		4.25				
28468	4						2.25		5.38				
28469	5	3/8"	3/8"	1.25	1.00	1.13	3.38	0.20	6.50	0.89	0.63	1.56	0.18
28470	6						4.50		7.63				

### 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
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
AR2	1/4"	1/8	0.05~0.85Mpa(0.5~8.5kgf/cm2)(7.25psi~123psi)

**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](http://www.P65Warnings.ca.gov)

## 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
87001	1/4"	70 PSI	70 CFM
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%

### NON-CODED SAFETY RELIEF VALVES

- Non-coded safety valves are constructed of the same materials as the AMSE safety valves but are not national board certified and cannot be used on applications requiring ASME components.
- Valves are equipped with a lift ring for instant relief and are staked at the factory at the pre set pop-off pressure.
- Marked ASME, UV, NB



PART #	MALE NPT	POP-OFF PRESSURE
87008	1/4"	125 PSI
87009	1/4"	150 PSI

Warning: These valves are not to be used on compressors with a capacity over 15 CFM or 3 HP or 12 gallon storage tank.

### 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
87020	1/2" NPT Male	3/8" Tube Compression male	20
87021	1/2" NPT Male	1/2" Tube Compression male	20



87023	1/2" NPT Male	1/2" NPT Female	20
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GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!



**PNEUMATICS**

PNEUMATICS

**TANK VALVES**

**MULTI-PURPOSE AIR VENT**



PART #	SIZE	
46048	1/8"	
46048S*	1/8" SS	
#303 SS		705

**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	
32782	3/16"	

**INFLATOR**



INT x 3/16

PART #	SIZE	
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
20780	1/8"	2.15	9/16"

INT = Inflation needle thread .305 in. OD x 32 threads per inch (see page 371)

**TANK & VENT VALVE**

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	
46620	1/8	

**1/8" NPT 1.207" LONG  
SPRING CORE**

7/16" Hex

1/8 x INT



PART #	SIZE	
46621	1/8	

**1/4" NPT 1.46" LONG  
SPRING CORE**

9/16" Hex

w/ Black cap

1/4 x INT



PART #	SIZE	
46622	1/4	

**TANK VALVE ACCESSORIES**

**BLACK PLASTIC CAP**

No gasket



Inflation  
needle threads

PART #	
46630	

**SHORT NICKEL PLATED DOME CAP**

Dome skirted type



Inflation  
needle thread

PART #	
46631	

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# 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
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
320054	1/4"

### SAFETY BLOW GUN

- N/P steel handle with plastic sleeve
- Brass Valve
- Zinc body
- Aluminum nozzle



90 PSI

1/8" Outlet

PART #	SIZE
320050	1/4" Inlet

5114 51-124 401 20430AD S148 D204-30 6475

### COMPACT BLOW GUN

- With standard tip and 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



PART #	SIZE
320055	1/4"

### 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
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
320035	1/4"

### RUBBER TIPPED NOZZLE



MAKES POSITIVE SEAL BETWEEN GUN AND FUEL LINE OR OTHER OPENINGS. USE ONLY ON AIR

PART #	THREAD SIZE
320070	1/8 - 27

51-521 2058 D201RT 411R

### HIGH FLOW SAFETY NOZZLE



MEETS OSHA REGULATIONS OF 30 PSI MAXIMUM OUTLET PRESSURE WHEN LINE PRESSURE IS 150 PSI OR LESS. HAS AN AIR PRESSURE BYPASS WHICH PREVENTS BUILD UP OF TIP PRESSURE EVEN IF NOZZLE IS BLOCKED. ADAPTS TO ANY BLOW GUN WITH A 1/8" NPT NOZZLE PORT

PART #	SIZE
320075	1/8 MIP x Female Needle Thread

51-338 SST10 411BT 2056

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PNEUMATICS

# 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)
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 #
320095

## 1 PIECE BLOW GUN TAPERED NOZZLE



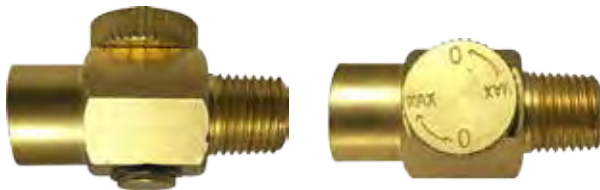
PART #	SIZE
320076	NT

## 1 PIECE BLOW GUN STANDARD NOZZLE



PART #	SIZE
320077	

## VOLUME REGULATOR



PART #	FIP X MIP
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 DIAL TIRE GAUGE



PART #
320410

## 1 PIECE EXTENSION



PART #	SIZE
320080	NT

## 1 PIECE BLOW GUN ADAPTER



PART #	SIZE
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
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](http://www.P65Warnings.ca.gov)

# FOOT CHUCKS

## HEX BALL FOOT CHUCK



PART #		
46600	1/4 FPT Live Air	

## MALE BALL FOOT CHUCK



PART #		
46605	1/4 MIP Live Air	

## BALL FOOT CHUCK W/ 1/4 ID HOSE BARB



PART #		
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 #		
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

PART #		
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



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



320-011

PART #	PRESSURE RANGE	INCREMENT	INLET	HOSE LENGTH
320010	10-120 psi	2 psi	1/4 FPT	12"
320011	10-120 psi	2 psi	1/4 FPT	12"

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# 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

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# 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 industrail 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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PNEUMATICS



# 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

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# GAUGES

## STANDARD DRY GAUGES

### STEEL CASE

All the gauges supplied by Midland Industries. 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
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
80001	0-15
80002	0-30
80003	0-60
80004	0-100
80005	0-160
80006	0-200
80007	0-300
80020	30-0 Vacuum



**2-1/2" FACE**  
**1/4" LOWER MOUNT**

PART #	PSI
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
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
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
80331	0-15
80332	0-30
80333	0-60
80334	0-100
80335	0-160
80336	0-200

**GAUGES**  
PNEUMATICS

**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. ALL



**1-1/2" FACE**  
**1/8" LOWER MOUNT**

PART #	PSI
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
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
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
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
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

It's not the situation, but whether we react negative or respond positive to the situation that is important.

- Zig Ziglar

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# GAUGES/ SYPHON

PNEUMATICS

## Water Test Gauge

0-300 PSI DIAL  
3/4" FEMALE HOSE  
CONNECTION



PART #	FACE SIZE
991249	2"
991250	2-1/2"

## Water Test Gauge w/Lazy Hand (Maximum pointer)

2-1/2" GAUGE  
0-300 PSI DIAL  
3/4" FEMALE HOSE  
CONNECTION



Regular pressure hand pushes LAZY hand to peak operating or surge pressure point where it remains until you manually reset it. Excellent to determine if P/T valve is leaking from failure or if leaking is caused by surge of excessive pressures. (Attach gauge to Boiler Drain Valve overnight.) LAZY hand operates over entire gauge range of 0-300psi

PART #
991251

## GAS TEST GAUGE

Pressure test residential and commercial pipe systems



PART #	FACE SIZE
GT15	0-15
GT30	0-30
GT60	0-60

## BODY ONLY



PART #	FACE SIZE
991259	3/4" FIP x 1/4" TAP

## SYPHON

### BRASS

Syphons protect instruments from effects of hot pressure media commonly used in steam applications



PART #	SIZE
995210	1/4" 90°
995211	1/4" 180°
995212	1/4" 270°
995213	1/4" 360°

### STEEL

Syphons protect instruments from effects of hot pressure media commonly used in steam applications



PART #	SIZE
995214	1/4" 90°
995215	1/4" 180°
995216	1/4" 270°
995217	1/4" 360°

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PNEUMATICS

# TAPES/ SEALANT

## PNEUMATICS

### PTFE THREAD SEAL TAPE

- Density 0.4
- Thickness 3.5 MIL
- Meets MIL specs



PART #	SIZE	CASE QTY
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



PART #	SIZE	CASE QTY
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



PART #	SIZE	CASE QTY
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



PART #	SIZE	CASE QTY
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



PART #	SIZE	CASE QTY
982125	1/2" x 260"	250
982126	1/2" 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
982140	3/4" X 60' Black

## THREAD SEALANT

### GASOILA SOFT-SET THREAD WITH PTFE



PART#	SIZE	UNITS PER CASE
983100	1/4 pt. Brush	24
983101	1/2 pt. Brush	24

### PLS 2 PREMIUM THREAD AND GASKET SEALER



PART#	SIZE	UNITS PER CASE
983110	1/4 pt. Brush	12
983111	1 pt. Brush	6

### GASOILA NT NON-PTFE THREAD SEALANT



PART#	SIZE	UNITS PER CASE
983120	1/2 pt. Brush	12
983121	1 pt. Brush	6

### JC-30 GASOILA HIGH-FILL



PART#	SIZE	UNITS PER CASE
983115	1/4 pt. Brush	12
983116	1 pt. Brush	6

### FREE ALL DEEP PENETRATING OIL



PART#	SIZE	UNITS PER CASE
983125	6 oz. Aerosol	12
983126	11 oz. Aerosol	12

### LUBE-IT ALL DEEP LUBRI-



PART#	SIZE	UNITS PER CASE
983130	6 oz. Aerosol	12

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# TRUCK AND TRAILER



## INDUSTRY GRADE NYLON AIR COIL ASSEMBLY - SET

- Each kit contains one Emergency (Red) and one service (Blue) 1/2" O.D. nylon tubing assembly.
- 1/2" -14 NPTF end fitting with heavy gauge spring.
- Assemblies meet SAE J844 and DOT FMVSS 106 requirements.
- Temp rating -40° - +208°

PART #	LENGTH	PIGTAIL LENGTH TRACTOR END	PIGTAIL LENGTH TRAILER END
39404	12'	6"	6"
39400	15'	12"	12"
39402	15'	40"	12"
39406	20'	12"	12"



## FIFTH WHEEL SLIDER COIL

- Temperatures range -40 to 208°F
- 150 psi max pressure rating
- Meets SAE J844 and DOT FMVSS 106 requirements.
- (2) 1/4" OD fittings assembled

PART #	DESCRIPTION	LENGTH	FITTINGS
39839	5th Wheel slider coil	up to 54"	(2) 1/4" MPT
39838	5th Wheel slider coil	up to 72"	(2) 1/4" MPT



## 3-IN-1 AND 4-IN-1 COMBINATION AIRLINE CABLE

- (2) 3/8" ID SAE J1402 rubber service and emergency with blue (service) and red (emergency) gladhand grip handle
- Color-coded grip helps to minimize incorrect tractor/trailer connections have glad handle with Vibraseal
- ABS power line (green) – meets SAE J2222 requirements
- Auxiliary power line (yellow) – fitted with SAESS60 plugs that have an inverted (male) ground pin 4-in-1 only
- SAE J560 Plugs with sleeves for superior corrosion protection and strain relief
- Corrosion resistant all brass fittings 1/2" male NPT w/ Vibraseal
- Tapered grip flexes with airline during tight turns for kink protection
- Temp rating -40 - 208°F

PART #	DESCRIPTION
39825	Combo 3 in 1 assembly 15 ft.
39962	Combo 4 in 1 assembly 15 ft.

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**HOSE SUPPORT**

TRUCK AND TRAILER

**HOSE SUPPORT****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
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



39425

39426

**POGO STICKS CANNISTER STYLE**

- Large diameter housing eliminates spring binding
- Increased resistance to sagging and bending
- Thick gauge heavy duty spring
- Used for all nylon and rubber air brake hose
- Forged steel mounting stud 7/16-20 thread
- All Pogo Sticks include Eyebolt and Nut

PART #	SIZE	DESCRIPTION
39425	40"	Chrome finish
39426	40"	Zinc Plated Steel

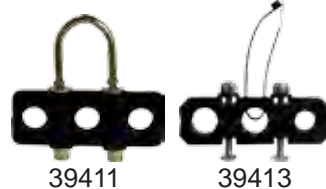


39409

39410

**HOSE HOLDERS**

- ABS Plastic
- 2, 3 and 4 Hold



39411

39413



39416

39412

PART #	SIZE	DESCRIPTION
39409	1/2"	2-Hose Holder Hex Head
39410	1/2"	2-Hose Holder
39411	1/2"	3-Hose Holder
39413	1/2"	3-Hose Hex Head w Cable tie
39416	1/2"	4-Hose V Bolt w Cable Tie
39412	1/2"	4-Hose Holder

**HOSE SEPARATORS**

- ABS Plastic



39415

39418

PART #	SIZE	DESCRIPTION
39414	3/8"	2-Hose Separator
39415	3/8"	4-Hose Separator
39418	1/2"	2-Hose Separator
39419	1/2"	4-Hose Separator

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# HOSE SUPPORT

TRUCK AND TRAILER



## TENDER KIT COMPONENTS

PART #	DESCRIPTION
39411	3 hole holder
39469	Clip Carabiner
39472	1-1/2" ID Hanger Bracket
39473	Yoke

• Sold individually



## SPRING WITH TANDEM FRAME CLIP

- Steel spring and clip - yellow dichromate finish
- 3/4" OD
- Beam clip

PART #	DESCRIPTION
39477	Frame Clip with Cable Tie

PART #	LENGTH	DESCRIPTION
39463	6" Spring	Tandem frame clip
39464	3" Spring	Tandem frame clip
39471		Frame clip only



## CLIPS

PART #	DESCRIPTION
95631	ABS Clip for 1/2" Air Hose
95640	5" Axle Clip
95641	5-3/4" Axle Clip



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

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# HOSE SUPPORT

TRUCK AND TRAILER



## TENDER KIT

**Complete Tender Kit includes:**

- Large snap Clip
- Heavy duty spring
- Protective tube

PART #	SPRING & TUBE LENGTH/ #PCS	ONE CLIP	3 HOLE CLAMP	YOKE
39442	16" / 1pc	1pc	1pc	
39444	16" / 2 pcs	1pc	1pc	2pcs
39446	20" / 1pc	1pc	1pc	
39448	20" / 2pcs	1pc	1pc	2pcs
39452	25" / 1pc	1pc	1pc	
39453	25" / 2pcs	1pc	1pc	2pcs

## HYDRAULIC TENDER KIT

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	HANGER BRACKET	YOKE
39457	25" / 2pcs	1pcs	1pc	2pcs



## SLIDER BAR KITS

PART #	SPRING & TUBE LENGTH/ #PCS	LARGE CLIP	3 HOLE CLAMP	SLIDER BAR LENGTH	YOKE
39437	16" / 1pc	1pc	1pc	43"	
39438	16" / 2pcs	1pc	1pc	43"	2pcs
39459	20" / 2pcs	1pc	1pc	43"	2pcs
39460	25" / 1pc	1pc	1pc	43"	
39461	25" / 2pcs	1pc	1pc	43"	2pcs
39470	16" / 1pc	1pc	1pc	38"	
39462	16" / 2pcs	1pc	1pc	38"	2pcs
39451	25" / 1pc	1pc	1pc	38"	
39454	25" / 2pcs	1pc	1pc	38"	2pcs

## BARS, SPRINGS, TUBES

PART #	SPRING & TUBE LENGTH/ #PCS
39443	16" Tube only
39447	20" Tube only
39436	25" Tube only
39466	16" Spring only
39467	20" Spring only
39468	25" Spring only
39474	38" Slider Bar
39475	43" Slider Bar



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# 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
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
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
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
39511	Emergency	Aluminum	Blk Rubber	No	Unplugged	Plugged
39512	Service	Aluminum	Blk Rubber	No	Unplugged	Plugged

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**AIR**

TRUCK AND TRAILER

**TRUCK AND TRAILER**

PORT A

**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

PART #	DESCRIPTION	FILTER	PORT A
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
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
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



PORT A

PORT B

**LEVER STYLE SHUTOFF GLADHAND**

- Flange mount
- Metal handle shutoff
- Full face rubber seal
- Tough metal Ball valve
- Color coded
- Meets SAE J318

PART #	DESCRIPTION	MATERIAL	SEAL	FILTER	PORT A NPT	PORT B NPT
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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**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
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
39537	Sure grip



**GLADHAND PACIFIER SEAL**

- Seals Gladhand from moisture, dirt and debris

PART #	DESCRIPTION
39566	Gladhand pacifier



**GLADHAND SEALS**

Seal Options:

- Rubber
- Polyurethane
- With screen filter
- Double lip
- Filter screen only

PART #	DESCRIPTION
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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**AIR**

## TRUCK AND TRAILER



39565

**DUMMY GLADHAND COUPLING KIT**

- 6 ½" coupling length

PART #	CONNECTION	VENT	MATERIAL
39563	Chain	Yes	Steel Yellow Zinc plated
39564	Chain	No	Steel Yellow Zinc plated
39565	Cable	N/A	Aluminum



39574

39575

**NYLON GLADHAND AND PLUG HOLDER**

- Stores Gladhand and electrical hook ups at a 45° angle.
- Can accept heavy ABS plug
- Standard mounting holes to install on back of cab.
- Glass-filled nylon, non-corrosive construction.

PART #	DESCRIPTION
39574	1 plug slot
39575	2 plug slot

**GLADHAND HOLDER KIT**

- Steel - Zinc Yellow Dichromate
- Holds gladhands when disconnected



PART #	DESCRIPTION
39573	Holder Kit
39572	Bracket only

**GLADHAND LOCK**

- Red molded plastic
- Prevents unwanted connections with trailers
- Protects idle units
- Universal for Aluminum and Iron Gladhands
- Supplied with 2-keys



PART #	DESCRIPTION
39570	Gladhand Lock w/ 2 keys

\* **Not an Anti theft device**

**KING PIN LOCK-ANTI HOOK UP**

- Cast, Zinc plated
- Anti-tractor, trailer hook-up
- Supplied with 2 keys



PART #	DESCRIPTION
39860	King Pin Lock w/ 2 keys

**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](http://www.P65Warnings.ca.gov)

# AIR CYLINDER



- 300 series stainless steel cylinder shafts provide excellent corrosion resistance and extended cycle life -cylinders tested to over 500,000 cycles.
- Lightweight, corrosion resistant aluminum tube with die cast aluminum end caps.
- Rear clevis cast as integral part of the rear cover for improved durability and mounting integrity.
- Double acting, Emralon-coated piston cup assures smooth long lasting operation even in cold weather conditions to ( - 40°F).
- Front end cap assembly includes pressure seal, dirt seal and oil impregnated bronze bushing.
- Cylinder tube imprinted with part number and date code for quick identification.
- All cylinders are factory pressure and leak tested prior to shipping.
- Front Cover Kit-Includes front cover with bushing and seals installed and two cylinder gaskets.
- Rear Cover Kit-Includes rear cover with two cylinder gaskets.
- Piston Cup Kit-Includes piston cup, lock nut and two cylinder gaskets.
- Shaft Kit-Includes shaft, lock nut and two cylinder gaskets.

PART #	SIZE	STROKE	RETRACTED	EXTENDED	TYPE
39672	2 1/2"	4.0"	9.89"	13.89"	push/pull
39673	2 1/2"	6.0"	11.89"	17.89"	push/pull
39674	2 1/2"	8.0"	13.89"	21.89"	push/pull
39675	2 1/2"	6.0"	13.75"	19.75"	Spring return
39676	3 1/2"	8.0"	15.60"	24.28"	push/pull
39677	3 1/2"	10.0"	16.92"	26.95"	push/pull



## HIGH LIFT AIR CYLINDERS

- Aluminum tube with 16 RMS finish
- Temp rating -40 to 185°F
- Recommended working pressure 150 psi
- Minimum bursting pressure 150 psi
- 1275 lb. thrust at 100 psi
- 1158 lb. draw at 100 psi

PART #	DIA.	STROKE	RETRACTED	EXTENDED	TYPE
39654	4"	24"	34.5"	58.5"	push/pull



SEE WEBSITE TO DOWNLOAD YOUR MOST UPDATED PRICING

**AIR**

## TRUCK AND TRAILER

**TAILGATE AIR CYLINDERS**

- Die cast aluminum with mount hole for ½" pin and ¼" NPT port
- Molded piston cup
- Stainless steel piston rod with 5/8" – 18 thread
- 10 PSI – 120 PSI
- 10 psi min-120 psi max



39657



39660

PART #	DIA.	STROKE	LENGTH	TYPE
39655	2-1/2"	4.0"	13.37	Push/Pull
39656	2-1/2"	6.0"	17.37	Push/Pull
39657	2-1/2"	8.0"	21.37	Push/Pull
39658	2-1/2"	4.0"	14.71	Spring Ret
39659	2-1/2"	6.0"	19.75	Spring Ret
39660	3-1/2"	6.0"	20.23	Push/Pull
39661	3-1/2"	8.0"	24.23	Push/Pull
39662	3-1/2"	8.0"	26.98	Push/Pull
39663	3-1/2"	10.0"	28.98	Push/Pull



39665



39667

**TAILGATE AIR CYLINDERS**

- Machined aluminum, 5/8" diameter ,stainless steel shaft with 5/8" - 18 threads, "O" rings and a UHMW polyethylene wear band
- Direct replacements to Haldex and MGM
- Standard operating pressure 100 psi
- 90psi min to 150 psi max

PART #	DIA.	STROKE	BRACKET	TYPE
39665	6"	3"	Yes	Spring Ret
39667	6"	4.38"	No	Spring Ret

**FIFTH WHEEL AIR CYLINDER**

- 1/4" FPT port cast aluminum front and rear
- 2-1/2" Bore
- 6-3/4" stroke
- Front and rear mounting hole for 17/32" clevis,
- 100 psi
- Gold anodized tube for corrosion resistance



PART #	DESCRIPTION
39669	Fifth Wheel Air Cylinder

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**AIR TANK DRAIN PULL VALVE**



PART #	SIZE	DESCRIPTION
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

**AIR TANK CHECK VALVE**

- Single check valves allow air to pass from a single source to its destination, and prevent air travel in the opposite direction.



PART #	MALE X FEMALE
39604	1/4"
39605	3/8"
39606	1/2"

**D-2 STYLE AIR BRAKE GOVERNOR**

- Opening and closing pressures of 100 to 120 psi
- High temperature O-ring construction
- Gasket and plugs included
- Replaces Bendix 275491 & Midland KN18530



PART #	THREAD	DESCRIPTION
39592	6-1/8" NPT	Air Brake Governors D-2 style

**IN-LINE QUICK RELEASE VALVE**

- Quick release for the air brake system
- 3/8" female exhaust port
- 2-3/8" female delivery port
- Cracking pressure: 1 PSI
- Helps meet the FMVSS -121 requirement for timing



PART #	DESCRIPTION
39610*	3/8" NPT In-Line quick release valve
39611**	1/2" NPT In-Line quick release valve

\* Replaces Bendix 229859, 288351 & Midland KN32005

\*\* Replaces Bendix 229860 & Midland KN32011

**R-12 RELAY VALVE**

- 1/4" Relay Valve with multiple delivery ports
- Replaces Bendix 102166, 102626, 103009



PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION
39613	1/2" NPT	4, 1/2"NPT	4 psi no Bracket
39614	1/2" NPT	4, 1/2"NPT	4 psi Relay Valve
39615	3/4" NPT	2, 1/2" NPT	4 psi Relay Valve

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**AIR**

## TRUCK AND TRAILER

**R-14 RELAY VALVE**

- 1/4" Relay Valve with two delivery and supply ports
- Replaces Bendix 103010

PART #	SUPPLY PORT	DELIVERY PORT	DESCRIPTION
39616	2-3/4"NPT	2-1/2"NPT	4 psi Relay Valve

**THREE WAY SOLENOID**

- Operates a minimum GF 50,000 cycles
- Inlet port normally closed
- Must be mounted vertically with the air inlet port facing up
- 1/4" female NPT ports
- 12 Volts
- 100-120 psi operating pressure
- Attached mounting bracket with two 9/32" diameter mounting holes on 2-1/2" centers

PART #	SUPPLY PORT	DESCRIPTION
39684	2, 1/4" FPT	Three way Solenoid

**UNIVERSAL SOLENOID**

- Operates a minimum of 50,000 cycles.
- 125 amps at 12 volts.
- Continuous voltage.
- One on/off circuit
- 5/16 inch side studs, No. 10 top stud(s).
- 2 1/8 on Center
- 5/16 x 19/32
- Hardware included.
- Normally open

PART #	DESCRIPTION
39687	4 stud Solenoid
39688	3 stud Solenoid

**AIR SOLENOID VALVE**

- Operates a minimum of 50,000 cycles.
- 100 psi max pressure.
- 1/4" Thread
- 10 Watts, 12 VDC
- Replaces Neway 90054075

PART #	DESCRIPTION
39689	12V Closed
39690	12V Open

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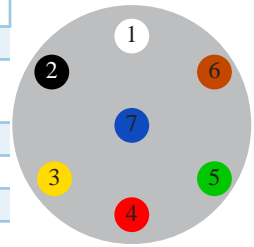
# COILED CABLE

## SEVEN-WAY COILED CABLE ASSEMBLIES



- ABS assemblies are heavy duty to power trailers
- HD Green gives clear ABS identification
- Resists abrasion, great coil retention
- Heavy duty plugs with spring guards
- ABS Cable meets SAE J2394
- Operating temperature range of -55° to +185°F

PIN LOCATION	COLOR CODE	GAUGE	CIRCUIT
1	White	8	Ground
2	Black	12	Clearance, side and ID lamps
3	Yellow	12	Left turn and Hazard
4	Red	10	Stop lamp and Anti-lock
5	Green	12	Right turn and Hazard
6	Brown	12	Tail and Plate lamp



### ABS

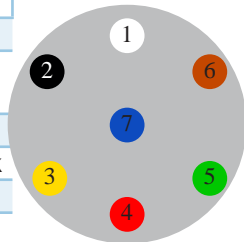
PART #	LENGTH	DESCRIPTION
39736	12'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green
39737	15'	Coiled Electrical Cord, ABS w/12 in lead, w/plugs, Green

## SEVEN-WAY COILED CABLE BLACK

- This high quality, durable construction is recommended for single-trailer configurations using standard lighting on non-ABS vehicles.
- Durable black outer jacket with heavy duty zinc die cast plugs and two spring guards included.



PIN	COLOR CODE	HD GAUGE	ECO GAUGE	CIRCUIT
1	White	10	12	Ground
2	Black	12	14	Clearance, side and ID lamps
3	Yellow	12	14	Left turn and Hazard
4	Red	12	14	Stop lamp and Anti-lock
5	Green	12	14	Right turn and Hazard
6	Brown	12	14	Tail and Plate lamp
7	Blue	12	14	ABS Power Aux



### STANDARD - HEAVY DUTY

PART #	LENGTH	DESCRIPTION
39738	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black
39739	15'	Coiled Electrical Cord, w/15 in lead, w/plugs, Black

### STANDARD - ECONOMY

PART #	LENGTH	DESCRIPTION
39740	12'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black
39741	15'	Coiled Electrical Cord, w/12 in lead, w/plugs, Black

**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](http://www.P65Warnings.ca.gov)

## ELECTRICAL

TRUCK AND TRAILER

### SIX WAY COILED ELECTRIC CABLE ASSEMBLY



- 6', 8', 12' Length
- Includes 2 Thermoseal 6-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- 4/14 Gauge cable
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	
39752	6ft, 14awg w/12" Lead at 2 ends	
39753	8 ft, 14awg w/12" Lead at 2 ends	
39754	12ft,14awg w/12" Lead at 2 ends	

### FOUR WAY COILED ELECTRIC CABLE ASSEMBLY



- 4/14 Gauge cable
- 12' & 15' length
- Includes 2 Thermoseal 4-way plugs
- For light duty towing applications such as boats and utility trailers
- Plugs are molded for moisture and corrosion resistance
- Flexible from -55°F to 150°F (-66°C to 66°C)

PART #	DESCRIPTION	
39748	12' with 12" Lead, both ends 4/14awg	
39749	15' with 12" Lead, both ends 4/14awg	

### DUEL POLE COILED ELECTRIC CABLE ASSEMBLY



- Black Jacket
- 12' & 15' length
- 200 Amp at 12 VDC.
- Zinc die cast plugs.
- 4 gauge cable.

PART #	DESCRIPTION	
39744	12' Coil With 12" Lead at 2 ends 4awg	
39745	15' Coil With 12" Lead at 2 ends 4awg	

### SINGLE POLE COILED ELECTRIC CABLE ASSEMBLY



- Black Jacket
- 12' & 15' length
- For applications that require direct electrical power to trailer lift gates.
- Rated at 265 amps on/off service (30 seconds on/50 seconds off).
- Zinc die cast plugs with spring guards included.
- 4 gauge cable.

PART #	DESCRIPTION	
39742	12' Coil With 12" Lead both ends 4awg	
39743	15' Coil With 12" Lead both ends 4awg	

**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](http://www.P65Warnings.ca.gov)



**7 WAY PLUGS AND SOCKETS**



39758



39757



39772



- Heavy-duty, nickel-plated zinc die cast housings
- Brass terminal pins for maximum current carrying ability
- Field repairable with standard tools
- Fully interchangeable with other SAE-type, 7-way connectors
- ATA marked wire terminals.
- Internal clamp holds cable securely in place.
- Standard seven-way plugs meet ATA and SAE J560 requirements
- ISO plugs meet ISO 3731:1997 requirements.
- ISO socket prevents connections with Non-ISO plugs - Used in tractor/trailer systems
- ISO color-coded yellow, non-corrosive reinforced nylon housing.

**PLUGS**

PART #	DESCRIPTION
39757	7-Way Single Grip Plug w/Spring Guard
39758	7-Way Single Grip Plug NO Spring.
39772	7-Way Double Grip Plug w/Spring.
39773	7-Way Double Grip Plug NO Spring Guard
39788	7-way ISO plug

**SOCKETS**

PART #	DESCRIPTION
39774	Solid Pin 7-Way Metal Socket
39775	Split Pin 7-Way Metal Socket
39789	7-way, ISO socket

**7 WAY DOUBLE GRIP PLUG**

- T-Grip weather guard
- Plastic grip

PART #	DESCRIPTION
39818	7-Way Double Grip Plug, Plastic

**6 AND 7 WAY ADAPTER**

PART #	DESCRIPTION
39786	Seven way plug to Six Way Socket Adapter
39787	Six way plug to Seven Way socket Adapter

**RV 7-WAY PLUG**

- Primarily used in RV applications.
- Constructed of molded PVC for impact resistance
- Blade Style Pin

PART #	DESCRIPTION
39819	7-way Plastic plug

**RV 7-WAY SOCKET**

- RV Screw-type socket
- 6-24 VDC.
- Mounting 2-1/4" inch on center .
- Constructed of molded PVC

PART #	DESCRIPTION
39820	7-way socket

**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](http://www.P65Warnings.ca.gov)





**6 - WAY PLUGS AND SOCKETS**

PART #	DESCRIPTION
39782	6-Way Double Grip Metal Plug w/Spring Guard.
39783	6-Way Metal Socket.

**4 WAY PLUGS AND SOCKETS**

- Heavy-duty zinc die cast housings on plugs and sockets.
- Plug locking system works with socket door to ensure proper hookup and prevent unintentional disconnections.
- Spring guard supports and protects cable.



**4 - WAY**

PART #	DESCRIPTION
39778	4-Way Double Grip Metal Plug w/Spring Guard.
39779	4-Way Metal Socket.

**2 POLE PLUGS AND SOCKETS**

- 200 amp 4 gauge wire capacity.
- Heavy-duty zinc die cast housing.
- Internal ground.
- Spring guard supports and protects cable.



PART #	DESCRIPTION
39768	2 Pole Double Grip Metal Plug w/Spring Guard.
39769	2 Pole Metal Socket

**SINGLE POLE PLUGS AND SOCKETS**

- Used to provide power to heavy draw auxiliary trailer equipment.
- Heavy-duty zinc die cast housings.
- Power and ground terminals hold up to 1/0 gauge wire.



PART #	DESCRIPTION
39764	1-Way Double Grip Plug w/Spring Guard.
39765	1-Way Double Grip Plug w/Spring Guard and Ground Kit
39766	1-Way Metal Socket

**GROUND KIT**



PART #	DESCRIPTION
39809	Ground Kit (Bolt, Nut and Wire Lug) for 1-Way Plug or Socket

**PROTECTOR BOOT FOR PLUG**

- Protective rubber boot seals out moisture and contaminants



PART #	DESCRIPTION
39807	Protector Boot

**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](http://www.P65Warnings.ca.gov)

**7 WAY SOCKET WITH CIRCUIT BREAKER**

- Non-corrosive, reinforced nylon housing for added durability.
- Designed for No. 8 ring terminals.
- ATA color-coded contacts.
- Solid brass split pins are zinc-plated for corrosion resistance.
- Each socket includes automatic reset circuit breakers with positive snap action to eliminate arcing (unless otherwise noted).
- Mounting holes are 4 1/2 inch on center and include steel bushings for added housing protection.
- Adhesive-backed mounting gasket included.
- Circuit breaker sockets meet SAE J560 requirements.



PART #	DESCRIPTION
39792	No circuit breakers
39793	15amp Plastic with circuit breakers
39794	20amp Plastic with circuit breakers
39795	30amp Plastic with circuit breakers

**7 WAY CIRCUIT CHASER**

- Instantly finds short or faulty circuits
- Portable



PART #	DESCRIPTION
39805	7 way circuit

**CIRCUIT BREAKERS - PLASTIC**

- Colored Battery molded Stud
- 12 Volt
- Meets SAE j553 requirements
- Nuts included



PART #	DESCRIPTION
39800	15 AMP
39801	20 AMP
39802	25 AMP
39803	30 AMP

**NOSE BOX - DEEP**

- Zinc - extra deep



PART #	DESCRIPTION
39814	Deep Nose Box

**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](http://www.P65Warnings.ca.gov)

## BATTERY GROUND STRAP



- 4 gauge wire.
- Molded zinc-plated steel lugs and tin-plated copper stranding.
- 7/16 inch diameter bolt hole.
- 12" Long

PART #	DESCRIPTION
39712	12", 4 Gauge ground strap

## STAINLESS STEEL BATTERY NUT



PART #	TYPE
39713	3/8"

## RUBBER GROMMET

- Black Rubber



PART #	ID	OD
95450	5/16"	9/16"
95451	5/8"	1 1/4"
95452	3/4"	1 3/4"



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YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

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# ACCESSORIES



## DEER WHISTLES

- Produces two separate and unique frequencies
- High output airflow activated
- Can be removed from base for cleaning and car washes
- Mounts with high bond tape **(included)**
- Lowers risk for vehicle-animal collisions

PART #	DESCRIPTION
39465	2 pack whistle

## CABLE TIE STRAPS - NYLON

- Used to secure and bundle
- CSA Certified
- RoHs Compliant
- UV or Standard

### STANDARD

PART #	LENGTH	STRENGTH	PACKAGE QTY
95601	7 1/2"	50lb	100
95602	11"	50 lb	100
95603	14.5"	50 lb	100
95604	24"	175 lb	50
95605	36"	175lb	50
95606	48"	175 lb	50

### UV BLACK

PART #	LENGTH	STRENGTH	PACKAGE QTY
95610	7 1/2"	50lb	100
95611	14"	50 lb	100
95612	24"	175lb	50
95613	36"	175lb	50



VIEW PRICING AND AVAILABLE STOCK ONLINE

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**ACCESSORIES**

TRUCK AND TRAILER



95620



95625

95627



95628

**CONSPICUITY TAPE**

Tape is designed for trucks, trailers, and other vehicles for easy nighttime vehicle recognition and increased road safety. It is a high quality, durable microprismatic retroreflective material with a pressure sensitive adhesive. The solid construction does not require edge sealing. Conspicuity tape provides superior reflectivity and may help reduce accidents.

- DOT -C2 Certified
- Meets or exceeds NHTSA, FMVSS 108 & ASTM D4956
- Meets Canada TSD 108
- 10 year durability

PART #	DESCRIPTION	APP. WT.	
95620	2" x 150' Roll of 11" Red / 7" White	0.32	
95621	2" x 150' Roll of 6" Red / 6" White	0.32	
95622	2" x 150' Roll of solid white	0.32	
95623	2" x 18", kiss cut strip, white	0.03	
95624	2" x 18" kiss cut strip of 11" Red / 7" White	0.03	

- Meets or exceeds ANSI/ASAE S279, ANSI/ASAE S276 & ASTM D-4956
- 7 year durability

PART #	DESCRIPTION	APP. WT.	
95625	1" X 150' Roll of solid yellow	0.17	
95626	2" X 150' Roll of solid yellow	0.32	
95627	3" round all plastic reflector, Red	0.06	
95628	3 3/4" x 6 1/2" American flag, type IV HIP	0.02	

**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	MATE-RIAL	DESCRIPTION	QTY	
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	



# NYLON DOT AIR BRAKE TUBING

TRUCK AND TRAILER



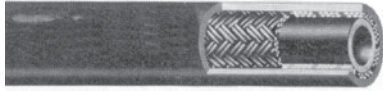
- Air Brake Tubing available from inventory in a large variety of colors and sizes
- Superior cold weather flexibility and abrasion resistance
- UV and ozone resistant nylon
- Meets or exceeds SAEJ844 (Type A - non-reinforced & Type B - reinforced)
- Meets or exceeds DOT requirements for use with compression 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	NOMINAL O.D.	NOMINAL WALL
38950B2	Black	2000'	1/8"	0.023"
38950	Black	100'	1/8"	0.023"
3895BA	Black	50'	1/8"	0.023"
38951B1	Black	1000'	5/32"	0.032"
38951	Black	100'	5/32"	0.032"
38951BA	Black	50'	5/32"	0.032"
38953B1	Black	1000'	3/16"	0.035"
38953	Black	100'	3/16"	0.035"
38953BA	Black	50'	3/16"	0.035"
389523	Black	1000'	1/4"	0.040"
389522	Black	500'	1/4"	0.040"
38952	Black	100'	1/4"	0.040"
38952BA	Black	50'	1/4"	0.040"
38952U1	Blue	1000'	1/4"	0.040"
38952U	Blue	100'	1/4"	0.040"
38952UA	Blue	50'	1/4"	0.040"
38952O	Orange	100'	1/4"	0.040"
38952OA	Orange	50'	1/4"	0.040"
38952G1	Green	1000'	1/4"	0.040"
38952G	Green	100'	1/4"	0.040"
38952GA	Green	50'	1/4"	0.040"
38952R1	Red	1000'	1/4"	0.040"
38952R	Red	100'	1/4"	0.040"
38952RA	Red	50'	1/4"	0.040"
38952Y1	Yellow	1000'	1/4"	0.040"
38952Y	Yellow	100'	1/4"	0.040"
38952YA	Yellow	50'	1/4"	0.040"
38954B5	Black	500'	5/16"	0.040"
38954	Black	100'	5/16"	0.040"
38954BA	Black	50'	5/16"	0.040"
38960B5	Black	500'	3/8"	0.062"
38960	Black	100'	3/8"	0.062"
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"
38960OA	Orange	50'	3/8"	0.062"
38960G5	Green	500'	3/8"	0.062"
38960G	Green	100'	3/8"	0.062"
38960GA	Green	50'	3/8"	0.062"
38960R5	Red	500'	3/8"	0.062"

PART NUMBER	COLOR	LENGTH	NOMINAL O.D.	NOMINAL WALL
38960R	Red	100'	3/8"	0.062"
38960RA	Red	50'	3/8"	0.062"
Part Number	Color	Length	Nominal O.D.	Nominal Wall
38960Y5	Yellow	500'	3/8"	0.062"
38960Y	Yellow	100'	3/8"	0.062"
38960YA	Yellow	50'	3/8"	0.062"
38965B5	Black	500'	1/2"	0.062"
38965	Black	100'	1/2"	0.062"
38965BA	Black	50'	1/2"	0.062"
38965U5	Blue	500'	1/2"	0.062"
38965U	Blue	100'	1/2"	0.062"
38965UA	Blue	50'	1/2"	0.062"
38965O5	Orange	500'	1/2"	0.062"
38965O	Orange	100'	1/2"	0.062"
38965OA	Orange	50'	1/2"	0.062"
38965G5	Green	500'	1/2"	0.062"
38965G	Green	100'	1/2"	0.062"
38965GA	Green	50'	1/2"	0.062"
38965R5	Red	500'	1/2"	0.062"
38965R	Red	100'	1/2"	0.062"
38965RA	Red	50'	1/2"	0.062"
38965Y5	Yellow	500'	1/2"	0.062"
38965Y	Yellow	100'	1/2"	0.062"
38965YA	Yellow	50'	1/2"	0.062"
38970BC	Black	250'	5/8"	0.092"
38970	Black	100'	5/8"	0.092"
38970BA	Black	50'	5/8"	0.092"
38970GC	Green	250'	5/8"	0.092"
38970G	Green	100'	5/8"	0.092"
38970GA	Green	50'	5/8"	0.092"
38970RC	Red	250'	5/8"	0.092"
38970R	Red	100'	5/8"	0.092"
38970RA	Red	50'	5/8"	0.092"

**FUEL LINE AND AIR BRAKE HOSE**

TRUCK AND TRAILER

**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
38920	3/16	13/32	25'
38926	5/16	9/16	25'
38923	1/4	1/2	25'
38927	3/8	5/8	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
38910	3/8	3/4	50'
38915	1/2	7/8	50'

**The Butterfly**

A man found a cocoon of a butterfly.

One day a small opening appeared. He sat and watched the butterfly for several hours as it struggled to force its body through that little hole.

Until it suddenly stopped making any progress and looked like it was stuck.

So the man decided to help the butterfly. He took a pair of scissors and snipped off the remaining bit of the cocoon. The butterfly then emerged easily, although it had a swollen body and small, shriveled wings.

The man didn't think anything of it and sat there waiting for the wings to enlarge to support the butterfly. But that didn't happen. The butterfly spent the rest of its life unable to fly, crawling around with tiny wings and a swollen body.

Despite the kind heart of the man, he didn't understand that the restricting cocoon and the struggle needed by the butterfly to get itself through the small opening; were God's way of forcing fluid from the body of the butterfly into its wings. To prepare itself for flying once it was out of the cocoon.

Moral of the story:

Our struggles in life develop our strengths. Without struggles, we never grow and never get stronger, so it's important for us to tackle challenges on our own, and not be relying on help from others.

- UNKNOWN



GO ONLINE TO VIEW OPEN ORDERS, ORDER HISTORY, AND TRACKING INFORMATION ON ALL SHIPMENTS

# HYDRAULIC ADAPTERS

HYDRAULIC ADAPTERS

## HYDRAULIC ADAPTERS & ACCESSORIES



STEEL ADAPTERS

HYDRAULIC QUICK DISCONNECTS

HYDRAULIC VALVES & ACCESSORIES

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### PLATING SPECIFICATION

Midland's standard Trivalent, Cr<sup>+3</sup> 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 INFORMATION**HYDRAULIC ADAPTERS

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**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.

Midland Industries 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, Midland recommends 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, Midland recommends 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

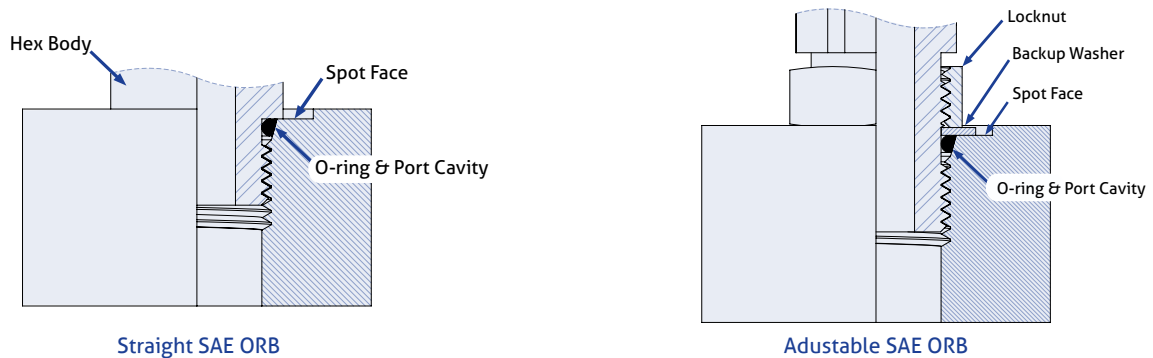
## HYDRAULIC ADAPTERS

### 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.



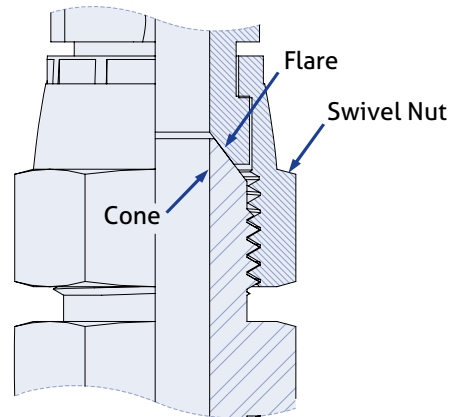
# TECHNICAL INFORMATION

## 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

It has been my observation that most people get ahead during the time that others waste. -Henry Ford

# 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.**

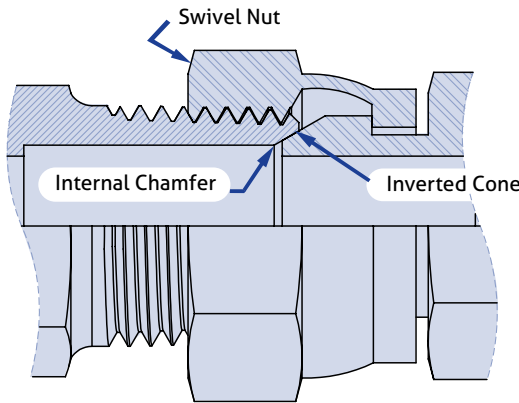


Fig. 1 F & NPSM Union

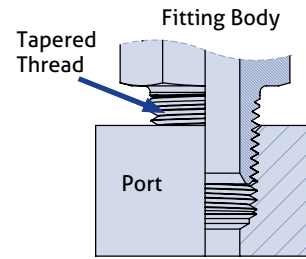


Fig. 2 & NPTF Assembly

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 1: NPT, NPTF, and NPSM Pipe Specifications

Folks who never do any more than they are paid for, never get paid for any more than they do.

-Elebert Hubbard

# 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.

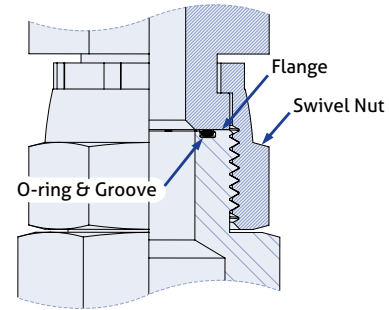


Figure 9: ORFS Fitting Assembly

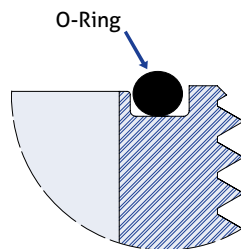


Figure 10: Detail View of Cross Section of Groove Type A

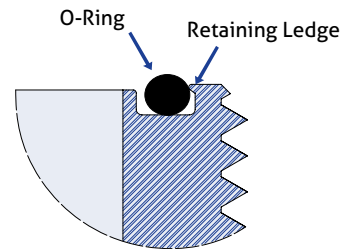


Figure 11: View of Groove Type B

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.

Figure 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**

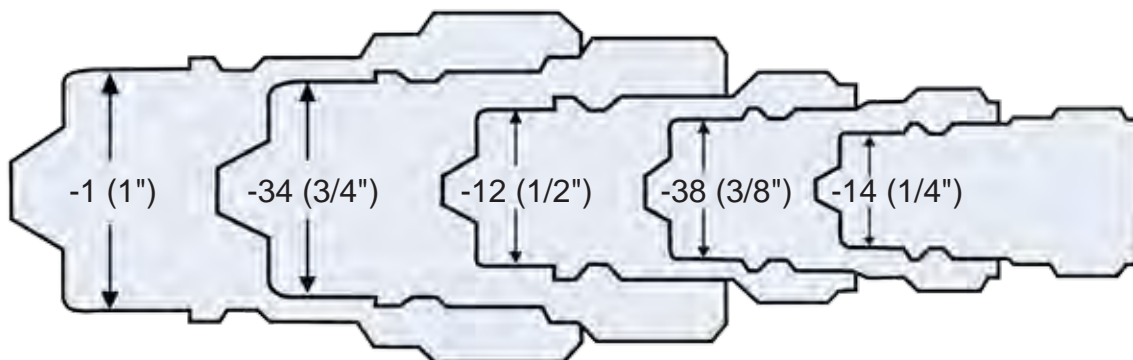
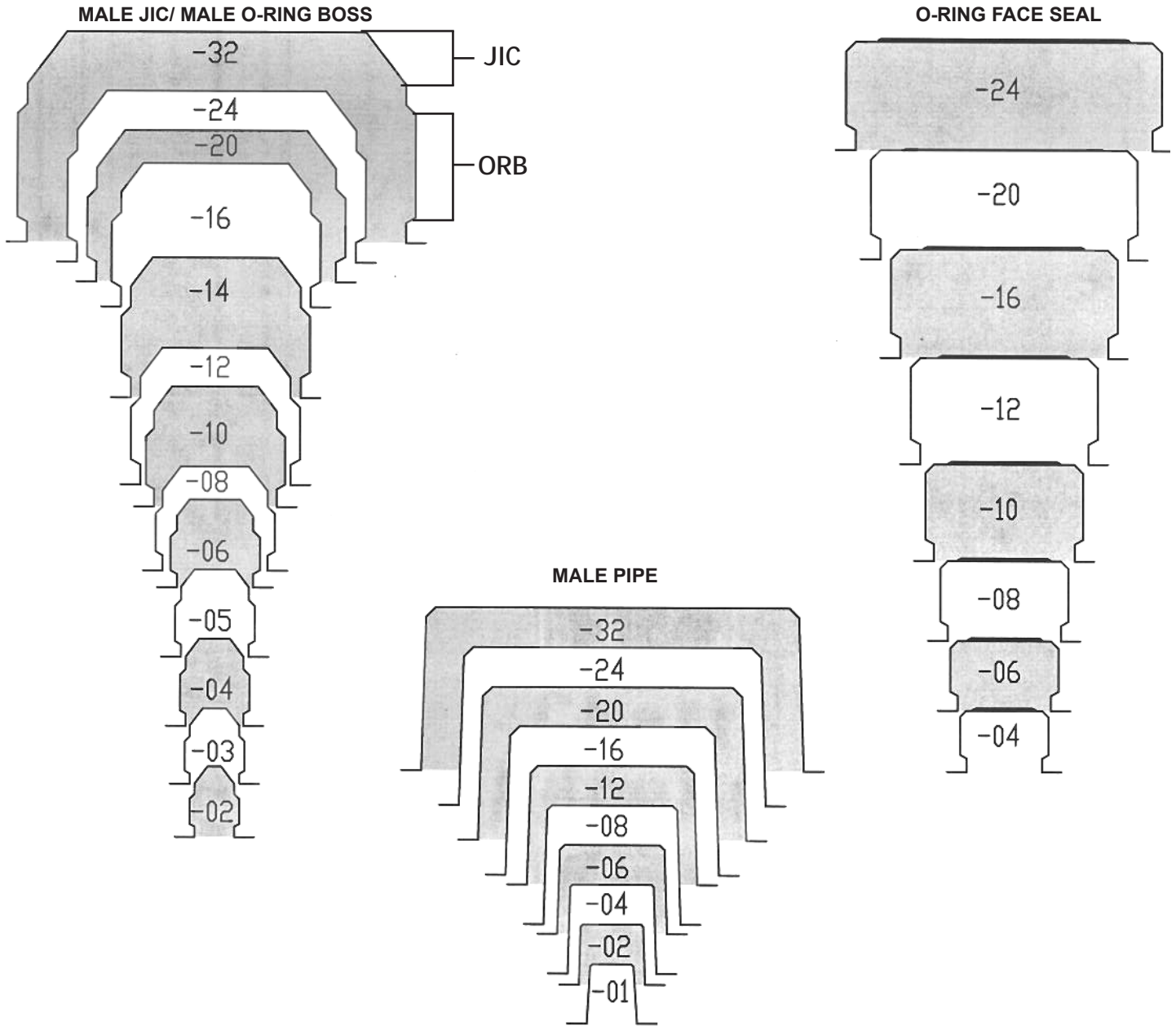
BSPP & BSPT Specifications				
Dash Size	BSPT & BSPP		Torque	
	THREAD SIZE	MAJOR OD <sup>o</sup> (inch)	BSPP Swivel Union	BSPT
02	1/8-28	0.383	2	2-3
04	1/4-19	0.518	2	2-3
06	3/8-19	0.656	2	2-3
08	1/2-14	0.825	2	2-3
10	5/8-14	0.929	2	2-3
12	3/4-14	1.041	2	2-3
16	1-11	1.309	1 1/2	1 1/2 - 2 1/2
20	1 1/4-11	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**

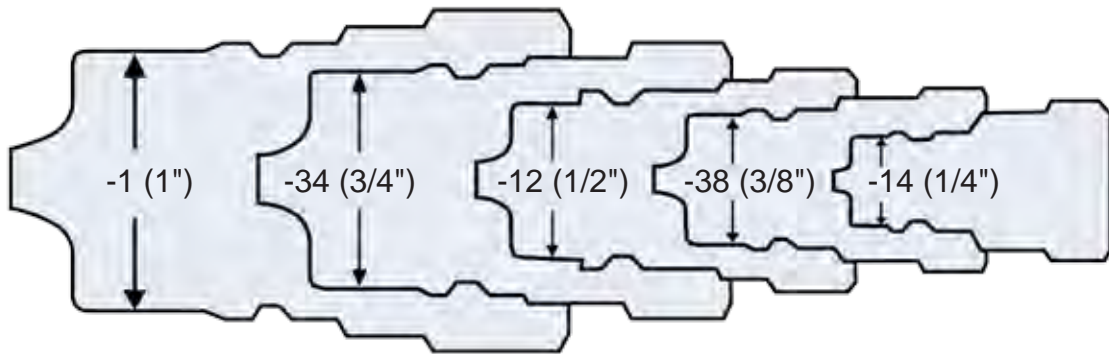


AG INTERCHANGE - NV SERIES

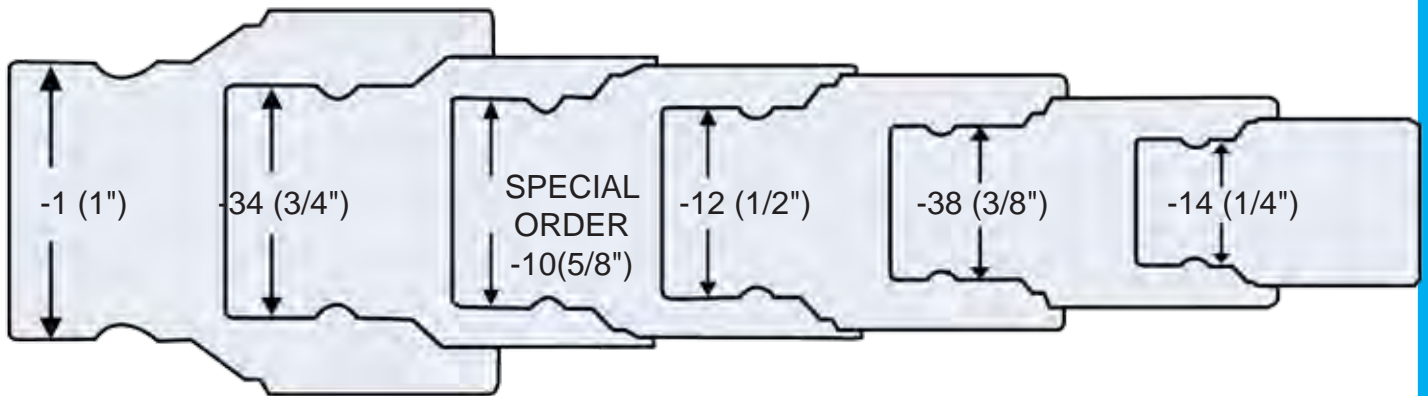


# TECHNICAL INFORMATION

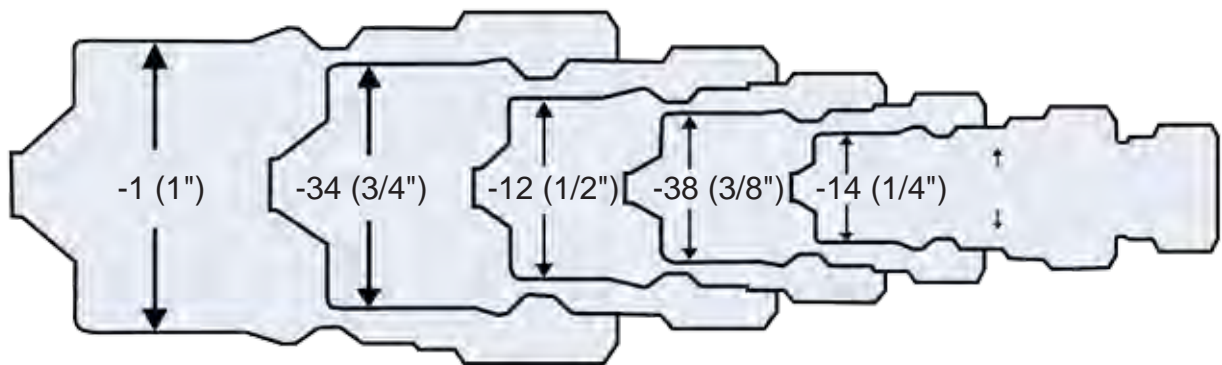
## HYDRAULIC ADAPTERS



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



PART #	MALE PIPE 1	FEMALE NPSM 2
140422	1/8	1/8
140442	1/4	1/8
140444	1/4	1/4
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
14042024	1-1/4	1-1/2
14042016	1-1/4	1
14042020	1-1/4	1-1/4
14042424	1-1/2	1-1/2
14043232	2	2

1404 2045R 1210 9205R 0107

### FEMALE PIPE SWIVEL ADAPTER

SAE 140131



PART #	FEMALE PIPE 1	FEMALE NPSM 2
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
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
14052424	1-1/2	1-1/2
14053232	2	2

1405 2046R 1212 9255 C207

### MALE PIPE ELBOW SWIVEL ADAPTER

1

SAE 140230



2

PART #	MALE PIPE 1	FEMALE NPSM 2
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
15013232	2	2

1501 2047R 1218 9405 2107

### FEMALE UNION ELBOW SWIVEL ADAPTER

SAE 140231

1



2

PART #	FEMALE PIPE 1	FEMALE NPSM 2
150222	1/8	1/8
150242	1/4	1/8
150244	1/4	1/4
150246	1/4	3/8
150264	3/8	1/4
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

1502 2207 1216 9455R

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 PIPE SWIVELS

## HYDRAULIC ADAPTERS

### MALE 45° PIPE ELBOW SWIVEL ADAPTER

SAE 140330



PART #	MALE PIPE 1	FEMALE NPSM 2
150322	1/8	1/8
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
15032020	1-1/4	1-1/4

1503 2049R 3107 1214 9355R

### FEMALE 45° UNION ELBOW SWIVEL ADAPTER

SAE 140331



PART #	FEMALE PIPE 1	FEMALE NPSM 2
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
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
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
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

SAE 070111



PART #	TUBE O.D	JIC THREAD SIZE
03044	1/4	7/16-20
03046	3/8	9/16-18
03048	1/2	3/4-16
030410	5/8	7/8-14
030412	3/4	1-1/16-12
030416	1	1-5/16-12

304 221000 0304 C5115

SAE 070112  
MS 51532



PART #	TUBE O.D.	JIC THREAD SIZE
0304C2	1/8	5/16-24
0304C3	3/16	3/8-24
0304C4	1/4	7/16-20
0304C5	5/16	1/2-20
0304C6	3/8	9/16-18
0304C8	1/2	3/4-16
0304C10	5/8	7/8-14
0304C12	3/4	1-1/16-12
0304C14	7/8	1-3/16-12
0304C16	1	1-5/16-12
0304C20	1-1/4	1-5/8-12
0304C24	1-1/2	1-7/8-12
0304C32	2	2-1/2-12

820 304 210292 FNTX 1329 C5129

### JIC TUBE NUT

(SLEEVE REQUIRED)

SAE 070110  
MS 51531



PART #	TUBE O.D	JIC THREAD SIZE
03182	1/8	5/16-24
03183	3/16	3/8-24
03184	1/4	7/16-20
03185	5/16	1/2-20
03186	3/8	9/16-18
03188	1/2	3/4-16
031810	5/8	7/8-14
031812	3/4	1-1/16-12
031814	7/8	1-3/16-12
031816	1	1-5/16-12
031820	1-1/4	1-5/8-12
031824	1-1/2	1-7/8-12

318 1290 BTX 1311 C5105

### JIC TUBE SLEEVE

SAE 070115  
MS 51533



PART #	TUBE O.D
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

319 900605 TX 1253 C5165

### JIC TUBE UNION

SAE 070101  
MS 51501



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2
240322	5/16-24	5/16-24
240333	3/8-24	3/8-24
240344	7/16-20	7/16-20
240355	1/2-20	1/2-20
240366	9/16-18	9/16-18
240364	9/16-18	7/16-20
240384	3/4-16	7/16-20
240388	3/4-16	3/4-16
240386	3/4-16	9/16-18
24031010	7/8-14	7/8-14
2403108	7/8-14	3/4-16
24031212	1-1/16-12	1-1/16-12
2403126	1-1/16-12	9/16-18
2403128	1-1/16-12	3/4-16
24031210	1-1/16-12	7/8-14
24031414	1-3/16-12	1-3/16-12
24031616	1-5/16-12	1-5/16-12
24031612	1-5/16-12	1-1/16-12
24032016	1-5/8-12	1-5/16-12
24032020	1-5/8-12	1-5/8-12
240324	1-7/8-12	1-7/8-12
240332	2-1/2-12	2-1/2-12

2403 2027 HTX 1204 C5305

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

# STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

## JIC MALE CONNECTOR

SAE 070102  
MS 51500



PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2
240422	5/16-24	1/8
240432	3/8-24	1/8
240434	3/8-24	1/4
240442	7/16-20	1/8
240444	7/16-20	1/4
240446	7/16-20	3/8
240448	7/16-20	1/2
240462	9/16-18	1/8
240464	9/16-18	1/4
240466	9/16-18	3/8
240468	9/16-18	1/2
2404612	9/16-18	3/4
240484	3/4-16	1/4
240486	3/4-16	3/8
240488	3/4-16	1/2
2404812	3/4-16	3/4
2404816	3/4-16	1
2404104	7/8-14	1/4
2404106	7/8-14	3/8
2404108	7/8-14	1/2
24041012	7/8-14	3/4
2404126	1-1/16-12	3/8
2404128	1-1/16-12	1/2
24041212	1-1/16-12	3/4
24041216	1-1/16-12	1
24041612	1-5/16-12	3/4
24041616	1-5/16-12	1
24041620	1-5/16-12	1-1/4
24041624	1-5/16-12	1-1/2
24042012	1-5/8-12	3/4
24042016	1-5/8-12	1
24042020	1-5/8-12	1-1/4
24042024	1-5/8-12	1-1/2
24042416	1-7/8-12	1
24042420	1-7/8-12	1-1/4
24042424	1-7/8-12	1-1/2
24042432	1-7/8-12	2
24043224	2-1/2-12	1-1/2
24043232	2-1/2-12	2

2404 2021R FTX 1202R C5205 816

## JIC FEMALE CONNECTOR



SAE 070103  
MS 51503

PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2
240522	5/16-24	1/8
240532	3/8-24	1/8
240542	7/16-20	1/8
240544	7/16-20	1/4
240546	7/16-20	3/8
240564	9/16-18	1/4
240566	9/16-18	3/8
240584	3/4-16	1/4
240586	3/4-16	3/8
240588	3/4-16	1/2
2405812	3/4-16	3/4
2405106	7/8-14	3/8
2405108	7/8-14	1/2
2405128	1-1/16-12	1/2
24051212	1-1/16-12	3/4
24051216	1-1/16-12	1
24051612	1-5/16-12	3/4
24051616	1-5/16-12	1
24052020	1-5/8-12	1-1/4

2405 2022R GTX 1230R C5255

**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](http://www.P65Warnings.ca.gov)



# STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

## JIC REDUCER/ EXPANDER

SAE 070123 1



2

PART #	FEMALE JIC THREAD SIZE 1	MALE JIC THREAD SIZE 2
240664	9/16-18	7/16-20
240665	9/16-18	1/2-20
240668	9/16-18	3/4-16
240684	3/4-16	7/16-20
240686	3/4-16	9/16-18
2406812	3/4-16	1-1/16-12
2406104	7/8-14	7/16-20
2406106	7/8-14	9/16-18
2406108	7/8-14	3/4-16
2406124	1-1/16-12	7/16-20
2406126	1-1/16-12	9/16-18
2406128	1-1/16-12	3/4-16
24061210	1-1/16-12	7/8-14
24061216	1-1/16-12	1-5/16-12
2406164	1-5/16-12	7/16-20
2406166	1-5/16-12	9/16-18
2406168	1-5/16-12	3/4-16
24061612	1-5/16-12	1-1/16-12
24061620	1-5/16-12	1-5/8-12
2406208	1-5/8-12	3/4-16
24062012	1-5/8-12	1-1/16-12
24062012	1-5/8-12	1-1/16-12
24062016	1-5/8-12	1-5/16-12
24062416	1-7/8-12	1-5/16-12
24062420	1-7/8-12	1-5/8-12
24063224	2-1/2-12	1-7/8-12

2406 C5015 2215 TRTX 1246

## PLUG

SAE 070109  
MS 51518



PART #	TUBE O.D.	JIC THREAD SIZE
24082	1/8	5/16-24
24083	3/16	3/8-24
24084	1/4	7/16-20
24085	5/16	1/2-20
24086	3/8	9/16-18
24088	1/2	3/4-16
240810	5/8	7/8-14
240812	3/4	1-1/16-12
240814	7/8	1-3/16-12
240816	1	1-5/16-12
240820	1-1/4	1-5/8-12
240824	1-1/2	1-7/8-12
240832	2	2-1/2-12

2408 430549 PNTX 1254 C5229

## STEEL 37° JIC FLARE SHAPES

### JIC UNION ELBOW

SAE 070201 1  
MS 51505



2

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2
250022	5/16-24	5/16-24
250044	7/16-20	7/16-20
250055	1/2-20	1/2-20
250066	9/16-18	9/16-18
250064	9/16-18	7/16-20
250088	3/4-16	3/4-16
250086	3/4-16	9/16-18
25001010	7/8-14	7/8-14
25001212	1-1/16-12	1-1/16-12
25001612	1-5/16-12	1-1/16-12
25001616	1-5/16-12	1-5/16-12
25002020	1-5/8-12	1-5/8-12
25002424	1-7/8-12	1-7/8-12
25003232	2-1/2-12	2-1/2-12

2500 2039 1234 C5505 821

**WARNING:** This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer.  
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# STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

## JIC MALE ELBOW

SAE 070202  
MS 51504

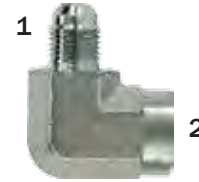


PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2
250122	5/16-24	1/8
250142	7/16-20	1/8
250144	7/16-20	1/4
250146	7/16-20	3/8
250148	7/16-20	1/2
250162	9/16-18	1/8
250164	9/16-18	1/4
250166	9/16-18	3/8
250168	9/16-18	1/2
2501612	9/16-18	3/4
250184	3/4-16	1/4
250186	3/4-16	3/8
250188	3/4-16	1/2
2501812	3/4-16	3/4
2501816	3/4-16	1
2501106	7/8-14	3/8
2501108	7/8-14	1/2
2501128	1-1/16-12	1/2
25011212	1-1/16-12	3/4
25011216	1-1/16-12	1
25011612	1-5/16-12	3/4
25011616	1-5/16-12	1
25011620	1-5/16-12	1-1/4
25012016	1-5/8-12	1
25012020	1-5/8-12	1-1/4
25012024	1-5/8-12	1-1/2
25012420	1-7/8-12	1-1/4
25012424	1-7/8-12	1-1/2
25013232	2-1/2-12	2

1208R C5405 2501 2024R CTX 822

## JIC FEMALE ELBOW

SAE 070203  
MS 51506



PART #	JIC THREAD SIZE 1	FEMALE PIPE SIZE 2
250242	7/16-20	1/8
250244	7/16-20	1/4
250246	7/16-20	3/8
250262	9/16-18	1/8
250264	9/16-18	1/4
250266	9/16-18	3/8
250268	9/16-18	1/2
250284	3/4-16	1/4
250286	3/4-16	3/8
250288	3/4-16	1/2
2502128	1-1/16-12	1/2
25021212	1-1/16-12	3/4
25021612	1-5/16-12	3/4
25021616	1-5/16-12	1
25022020	1-5/8-12	1-1/4

2502 2025R DTX 1240R C5455

## JIC MALE 45° ELBOW

SAE 070302  
MS 51508



PART #	JIC THREAD SIZE 1	MALE PIPE SIZE 2
250322	5/16-24	1/8
250342	7/16-20	1/8
250344	7/16-20	1/4
250346	7/16-20	3/8
250362	9/16-18	1/8
250364	9/16-18	1/4
250366	9/16-18	3/8
250368	9/16-18	1/2
2503612	9/16-18	3/4
250384	3/4-16	1/4
250386	3/4-16	3/8
250388	3/4-16	1/2
2503106	7/8-14	3/8
2503108	7/8-14	1/2
25031012	7/8-14	3/4
25031212	1-1/16-12	3/4
25031216	1-1/16-12	1
25031616	1-5/16-12	1
25031620	1-5/16-12	1-1/4
25032016	1-5/8-12	1
25032020	1-5/8-12	1-1/4

2503 2023R VTX 1206R C5355 823

# SHAPES STEEL JIV FLARE 37°

## HYDRAULIC ADAPTERS

### JIC MALE BRANCH TEE



PART #	JIC THREAD SIZE 1&2	PIPE THREAD SIZE 3
260144	7/16-20	1/4
260166	9/16-18	3/8
260188	3/4-16	1/2
26011212	1-1/16-12	3/4

2601 2030R STX 1221R C5605

### JIC FEMALE BRANCH TEE



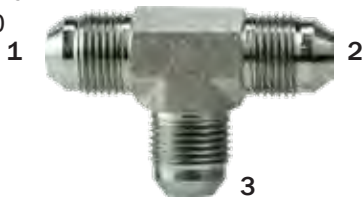
SAE 070427  
MS 51513

PART #	JIC THREAD SIZE 1 & 2	FEMALE PIPE SIZE 3
260244	7/16-20	1/4
260266	9/16-18	3/8
260288	3/4-16	1/2

2602 2031R OTX 1228R C6566

### JIC UNION TEE

SAE 070401  
MS 51510



PART #	JIC THREAD SIZE 1 & 2	JIC THREAD SIZE 3
260322	5/16-24	5/16-24
260333	3/8-24	3/8-24
260344	7/16-20	7/16-20
260366	9/16-18	9/16-18
260388	3/4-16	3/4-16
26031010	7/8-14	7/8-14
26031212	1-1/16-12	1-1/16-12
26031616	1-5/16-12	1-5/16-12

2603 2033 JTX 1220 C5705

## STEEL BULKHEAD FITTINGS

### LOCK NUT

SAE 070118  
MS 51860



\* Lock Nut no longer included on fittings

PART #	THREAD SIZE
03062	5/16-24
03064	7/16-20
03065	1/2-20
03066	9/16-18
03068	3/4-16
030610	7/8-14
030612	1-1/16-12
030614	1-3/16-12
030616	1-5/16-12
030620	1-5/8-12

1306 894 210212 WLN 1332 C5624

### JIC BULKHEAD UNION

SAE 070601  
MS 51520



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2
270022	5/16-24	5/16-24
270044	7/16-20	7/16-20
270055	1/2-20	1/2-20
270066	9/16-18	9/16-18
27008	3/4-16	3/4-16
270010	7/8-14	7/8-14
270012	1-1/16-12	1-1/16-12
270014	1-3/16-12	1-3/16-12
270016	1-5/16-12	1-5/16-12

2700 2041R WTX 1260 C5325

**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](http://www.P65Warnings.ca.gov)



# STEEL BULKHEAD FITTINGS

## HYDRAULIC ADAPTERS

### JIC BULKHEAD UNION ELBOW



SAE 070701  
MS 51507

PART #	JIC THREAD SIZE 1	JIC BULKHEAD THREAD 2
27014	7/16-20	7/16-20
27015	1/2-20	1/2-20
27016	9/16-18	9/16-18
27018	3/4-16	3/4-16
270110	7/8-14	7/8-14
270112	1-1/16-12	1-1/16-12
270116	1-5/16-12	1-5/16-12
270120	1-5/8-12	1-5/8-12

2701 2043R WETX 1262 C5525

### JIC BULKHEAD UNION 45° ELBOW



SAE 070801  
MS 51509

PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2
27024	7/16-20	7/16-20
27026	9/16-18	9/16-18
27028	3/4-16	3/4-16
270210	7/8-14	7/8-14
270212	1-1/16-12	1-1/16-12
270216	1-5/16-12	1-5/16-12

2702 2042 WNTX 1261 C5375

### JIC BULKHEAD BRANCH TEE

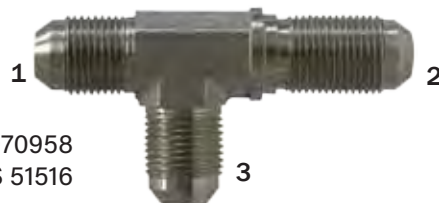


SAE 070959  
MS 51515

PART #	JIC THREAD SIZE 1&2	JIC THREAD SIZE 3
27034	7/16-20	7/16-20
27036	9/16-18	9/16-18
27038	3/4-16	3/4-16
270310	7/8-14	7/8-14
270312	1-1/16-12	1-1/16-12
270316	1-5/16-12	1-5/16-12

2703 203002 WJT 1283 C5725

### JIC BULKHEAD RUN TEE



SAE 070958  
MS 51516

PART #	JIC THREAD SIZE 1&3	JIC THREAD SIZE 2
27044	7/16-20	7/16-20
27046	9/16-18	9/16-18
27048	3/4-16	3/4-16
270410	7/8-14	7/8-14
270412	1-1/16-12	1-1/16-12
270416	1-5/16-12	1-5/16-12

2704 203008 WJJT 1284 C5726

### JIC TO FEMALE PIPE BULKHEAD



PART #	JIC THREAD	FEMALE PIPE SIZE 2
270544	7/16-20	7/16-20
270566	9/16-18	9/16-18
270588	3/4-16	3/4-16
27051212	1-1/16-12	1-1/16-12
27051616	1-5/16-12	1-5/16-12
27052020	1-5/8-12	1-5/8-12

2705 2239 WGTX C5275

### JIC TO MALE PIPE BULKHEAD



PART #	JIC THREAD SIZE 1	PIPE THREAD SIZE 2
270644	7/16-20	7/16-20
270666	9/16-18	9/16-18
270688	3/4-16	3/4-16
27061212	1-1/16-12	1-1/16-12
27061616	1-5/16-12	1-5/16-12

2706 2240

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**STEEL PIPE FITTINGS**

## HYDRAULIC ADAPTERS

SAE 140138 **PIPE COUPLING** 910

PART #	FEMALE PIPE 1	FEMALE PIPE 2
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
5000128	3/4	1/2
50001212	3/4	3/4
5000168	1	1/2
50001612	1	3/4
500016	1	1
50002020	1-1/4	1-1/4
500024	1-1/2	1-1/2
500032	2	2

5000 2096 GG 1273 C3309

**HEX PIPE NIPPLES**

SAE 140137



PART #	MALE PIPE 1	MALE PIPE 2
54042	1/8	1/8
540442	1/4	1/8
54044	1/4	1/4
540462	3/8	1/8
540464	3/8	1/4
54046	3/8	3/8
540484	1/2	1/4
540486	1/2	3/8
54048	1/2	1/2
5404126	3/4	3/8
5404128	3/4	1/2
540412	3/4	3/4
5404166	1	3/8
5404168	1	1/2
54041612	1	3/4
540416	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
540424	1-1/2	1-1/2
54043224	2	1-1/2

5404 2083 FF 1252 C3069 911

**EXPANDING PIPE ADAPTER**

SAE 140139



PART #	MALE PIPE 1	FEMALE PIPE 2
540522	1/8	1/8
540524	1/8	1/4
540542	1/4	1/8
540544	1/4	1/4
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
54051212	3/4	3/4
54051216	3/4	1
54051220	3/4	1-1/4
54051616	1	1
54051620	1	1-1/4
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)

**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](http://www.P65Warnings.ca.gov)



5406 2081 PTR 1250 C3109 912



# STRAIGHTS STEEL JIC FLARE 37°

HYDRAULIC ADAPTERS

## HEX REDUCER BUSHING

SAEF1  
140140



PART #	MALE PIPE	FEMALE PIPE
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
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
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
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
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

## HOLLOW HEX PLUG

SAE 130109



PART #	MALE PIPE
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

C3169 2222

## FLUSH HOLLOW HEX PLUG W/ 7/8 TAPER



PART #	MALE PIPE
5406FLP2	1/8
5406FLP4	1/4
5406FLP6	3/8
5406FLP8	1/2
5406FLP12	3/4

## SQUARE HEAD PLUG

SAE 130109A



PART #	MALE PIPE
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

# STEEL PIPE FITTINGS

## HYDRAULIC ADAPTERS

### PIPE CAP



PART #	FEMALE PIPE	
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	
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	
55008	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

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# STEEL PIPE FITTINGS

## HYDRAULIC ADAPTERS

### 45° MALE ELBOW



PART #	MALE PIPE 1	MALE PIPE 2
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

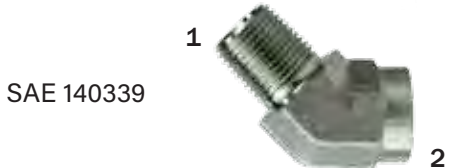
### 90° STREET ELBOW



PART #	MALE PIPE 1	FEMALE PIPE 2
55022	1/8	1/8
55024	1/4	1/4
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
550212	3/4	3/4
5502812	1/2	3/4
5502128	3/4	1/2
55021612	1	3/4
55021616	1	1
550220	1-1/4	1-1/4
550224	1-1/2	1-1/2

5502 2089 CD 1234R C3409 914

### 45° STREET ELBOW



PART #	MALE PIPE 1	FEMALE PIPE 2
55032	1/8	1/8
55034	1/4	1/4
55036	3/8	3/8
55038	1/2	1/2
55031212	3/4	3/4
550316	1	1

5503 CD45 1244

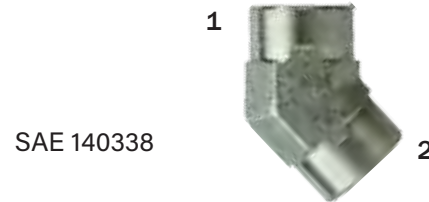
### FEMALE ELBOW



PART #	FEMALE PIPE 1	FEMALE PIPE 2
55042	1/8	1/8
550442	1/4	1/8
55044	1/4	1/4
55046	3/8	3/8
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



PART #	FEMALE PIPE 1	FEMALE PIPE 2
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

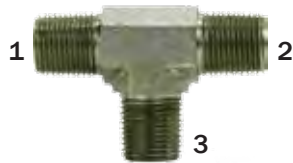
**WARNING:** This product can expose you to chemicals, including Cobalt, which are known to the State of California to cause cancer. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# STEEL PIPE FITTINGS

## HYDRAULIC ADAPTERS

### MALE PIPE TEE

SAE 140437

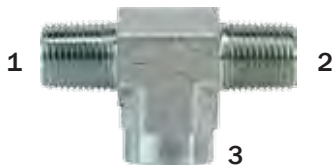


PART #	MALE PIPE 1 & 2	MALE PIPE 3
560022	1/8	1/8
560044	1/4	1/4
560066	3/8	3/8
560088	1/2	1/2
560012	3/4	3/4
560016	1	1

5600 2257 RRS

### FEMALE BRANCH PIPE TEE

SAE 140427



PART #	MALE PIPE 1 & 2	FEMALE PIPE 3
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

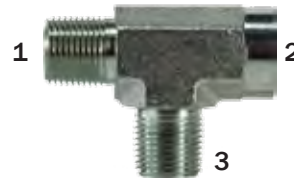


PART #	MALE PIPE 1	FEMALE PIPE 2 & 3
560222	1/8	1/8
560244	1/4	1/4
560266	3/8	3/8
560288	1/2	1/2
560212	3/4	3/4
560216	1	1

902 5602 2092 MRO 1276 C3759

### FEMALE RUN PIPE TEE

SAE 1404276



PART #	MALE PIPE 1 & 3	FEMALE PIPE 2
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
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
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

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# STEEL O-RING ADAPTERS

## HYDRAULIC ADAPTERS

### JIC TO O-RING CONNECTOR

SAE 070120  
MS 51525



PART #	JIC THREAD SIZE 1	O-RING THREAD 2
64002	5/16-24	5/16-24
64003	3/8-24	3/8-24
64004	7/16-20	7/16-20
640042	7/16-20	5/16-24
640046	7/16-20	9/16-18
640048	7/16-20	3/4-16
64005	1/2-20	1/2-20
64006	9/16-18	9/16-18
640064	9/16-18	7/16-20
640068	9/16-18	3/4-16
6400610	9/16-18	7/8-14
6400612	9/16-18	1-1/16-12
6400616	9/16-18	1-5/16-12
64008	3/4-16	3/4-16
640084	3/4-16	7/16-20
640086	3/4-16	9/16-18
6400810	3/4-16	7/8-14
6400812	3/4-16	1-1/16-12
640010	7/8-14	7/8-14
6400106	7/8-14	9/16-18
6400108	7/8-14	3/4-16
64001012	7/8-14	1-1/16-12
640012	1-1/16-12	1-1/16-12
6400128	1-1/16-12	3/4-16
64001210	1-1/16-12	7/8-14
64001214	1-1/16-12	1-3/16-12
64001216	1-1/16-12	1-5/16-12
640016	1-5/16-12	1-5/16-12
64001612	1-5/16-12	1-1/16-12
64001620	1-5/16-12	1-5/8-12
64001624	1-5/16-12	1-7/8-12
640020	1-5/8-12	1-5/8-12
64002012	1-5/8-12	1-1/16-12
64002016	1-5/8-12	1-5/16-12
64002024	1-5/8-12	1-7/8-12
640024	1-7/8-12	1-7/8-12
64002420	1-7/8-12	1-5/8-12
64002432	1-7/8-12	2-1/2-12
640032	2-1/2-12	2-1/2-12
64003224	2-1/2-12	1-7/8-12

6400 202702R F50X 1231 C5315

### O-RING TO PIPE ADAPTER



PART #	O-RING THREAD 1	MALE PIPE THREAD 2
640142	7/16-20	1/8
640144	7/16-20	1/4
640164	9/16-18	1/4
640166	9/16-18	3/8
640186	3/4-16	3/8
640188	3/4-16	1/2
6401812	3/4-16	3/4
6401108	7/8-14	1/2
6401128	1-1/16-12	1/2
64011212	1-1/16-12	3/4
64011616	1-5/16-12	1
64012020	1-5/8-12	1-1/4
64012020	1-5/8-12	1-1/4
64012424	1-7/8-12	1-1/2

6401 F5X 1264R C3249

### O-RING TO 37° JIC - SWIVEL ADAPTER



PART #	O-RING THREAD 1	JIC THREAD SIZE 2
6402044	7/16-20	7/16-20
6402066	9/16-18	9/16-18
6402068	9/16-18	3/4-16
6402088	3/4-16	3/4-16
6402086	3/4-16	9/16-18
640201010	7/8-14	7/8-14
640201212	1-1/16-12	1-1/16-12

6402 2266 F65X 1213 9316

### O-RING HEX NIPPLE UNION



PART #	O-RING THRD 1	O-RING THRD 2
640304	7/16-20	7/16-20
640306	9/16-18	9/16-18
640308	3/4-16	3/4-16
6403012	1-1/16-12	1-1/16-12
6403016	1-5/16-12	1-5/16-12

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# STEEL O-RING ADAPTERS

## HYDRAULIC ADAPTERS

### FEMALE O-RING TO MALE PIPE ADAPTER



PART #	O-RING THREAD 1	MALE PIPE THREAD 2
640442	7/16-20	1/8
640444	7/16-20	1/4
640464	9/16-18	1/4
640466	9/16-18	3/8
640468	9/16-18	1/2
640486	3/4-16	3/8
640488	3/4-16	1/2
6404108	7/8-14	1/2
64041212	1-1/16-12	3/4
64041616	1-5/16-12	1

6404 2246R 1267R C3239 FHG5

### O-RING TO FEMALE PIPE ADAPTER



PART #	O-RING THREAD 1	FEMALE PIPE THREAD 2
6405O22	5/16-24	1/8
6405O42	7/16-20	1/8
6405O32	3/8-24	1/8
6405O34	3/8-24	1/4
6405O44	7/16-20	1/4
6405O52	1/2-20	1/8
6405O54	1/2-20	1/4
6405O62	9/16-18	1/8
6405O64	9/16-18	1/4
6405O66	9/16-18	3/8
6405O68	9/16-8	1/2
6405O84	3/4-16	1/4
6405O86	3/4-16	3/8
6405O88	3/4-16	1/2
6405O812	3/4-16	3/4
6405O104	7/8-14	1/4
6405O106	7/8-14	3/8
6405O108	7/8-14	1/2
6405O126	1-1/16-12	3/8
6405O128	1-1/16-12	1/2
6405O1212	1-1/16-12	3/4
6405O1216	1-1/16-12	1
6405O1612	1-5/16-12	3/4
6405O1616	1-5/16-12	1
6405O2020	1-5/8-12	1-1/4
6405O2416	1-7/8-12	1
6405O2420	1-7/8-12	1-1/4
6405O2424	1-7/8-12	1-1/2
6405O3224	2-1/2-12	1-1/2
6405O3232	2-1/2-12	2

6405 2216R F50G 1268R C3269

### O-RING HEX HEAD PLUG

SAE 090109A



\* Not all sizes are solid

PART #	O-RING THREAD
6408O2	5/16-24
6408O4	7/16-20
6408O5	1/2-20
6408O6	9/16-18
6408O8	3/4-16
6408O10	7/8-14
6408O12	1-1/16-12
6408O14	1-3/16-12
6408O16	1-5/16-12
6408O20	1-5/8-12
6408O24	1-7/8-12

6408 900598 P50N 1265 7237

### O-RING HOLLOW - HEX HEAD PLUG

SAE 090109B



PART #	O-RING THREAD
6408HO2	5/16-24
6408HO4	7/16-20
6408HO5	1/2-20
6408HO6	9/16-18
6408HO8	3/4-16
6408HO10	7/8-14
6408HO12	1-1/16-12
6408HO14	1-3/16-12
6408HO16	1-5/16-12
6408HO20	1-5/8-12
6408HO24	1-7/8-12

6408HHP FF2138 HP50N 1256 7238 6409

**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](http://www.P65Warnings.ca.gov)



# FEMALE SWIVELS JIC

HYDRAULIC ADAPTERS

## O-RING PORT REDUCER/EXPANDER



PART #	O-RING THREAD 1	O-RING THREAD 2
6410O46	7/16-20	9/16-18
6410O64	9/16-18	7/16-20
6410O68	9/16-18	3/4-16
6410O84	3/4-16	7/16-20
6410O86	3/4-16	9/16-18
6410O88	3/4-16	3/4-16
6410O812	3/4-16	1-1/16-12
6410O124	1-1/16-12	7/16-20
6410O126	1-1/16-12	9/16-18
6410O128	1-1/16-12	3/4-16
6410O166	1-5/16-12	9/16-18
6410O168	1-5/16-12	3/4-16
6410O1612	1-5/16-12	1-1/16-12
6410O2012	1-5/8-12	1-1/16-12
6410O2016	1-5/8-12	1-5/16-12
6410O2412	1-7/8-12	1-1/16-12
6410O2416	1-7/8-12	1-5/16-12
6410O2420	1-7/8-12	1-5/8-12
6410O3216	2-1/2-12	1-5/16-12
6410O3220	2-1/2-12	1-5/8-12
6410O3224	2-1/2-12	1-7/8-12

6410 FF1010 F50G5 1270 7033

## JIC SWIVEL NUT ELBOW

SAE 070221  
MS 51521



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2
65004	7/16-20	7/16-20
65006	9/16-18	9/16-18
65008	3/4-16	3/4-16
650086	3/4-16	9/16-18
650010	7/8-14	7/8-14
6500108	7/8-14	3/4-16
650012	1-1/16-12	1-1/16-12
650016	1-5/16-12	1-5/16-12
650020	1-5/8-12	1-5/8-12
650024	1-7/8-12	1-7/8-12
650032	2-1/2-12	2-1/2-12

6500 2071R C6X 1236 G5506

## JIC SWIVEL TO MALE PIPE ELBOW



PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2
650142	7/16-20	1/8
650144	7/16-20	1/4
650164	9/16-18	1/4
650166	9/16-18	3/8
650186	3/4-16	3/8
650188	3/4-16	1/2
6501108	7/8-14	1/2
65011212	1-1/16-12	3/4
65011616	1-5/16-12	1
65012020	1-5/8-12	1-1/4
65012424	1-7/8-12	1-1/2
65013232	2-1/2-12	2

6501 2250 1247R TF5406

## JIC SWIVEL 45° ELBOW

SAE 070321  
MS 51522



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2
65024	7/16-20	7/16-20
65026	9/16-18	9/16-18
65028	3/4-16	3/4-16
650210	7/8-14	7/8-14
650212	1-1/16-12	1-1/16-12
650216	1-5/16-12	1-5/16-12

## JIC SWIVEL TO FEMALE - PIPE ELBOW



PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2
650344	7/16-20	1/4
650364	9/16-18	1/4
650366	9/16-18	3/8
650386	3/4-16	3/8
650388	3/4-16	1/2
65031212	1-1/16-12	3/4

6502 2070R V6X 1237 C5356

# FEMALE SWIVELS

## HYDRAULIC ADAPTERS

### JIC SWIVEL CONNECTOR



PART #	JIC THREAD SIZE 1	JIC THREAD SIZE 2
650444	7/16-20	7/16-20
650466	9/16-18	9/16-18
650488	3/4-16	3/4-16
65041010	7/8-14	7/8-14
65041212	1-1/16-12	1-1/16-12
65041616	1-5/16-12	1-5/16-12
65042020	1-5/8-12	1-5/8-12

6504 1205

### JIC SWIVEL TO MALE - PIPE ADAPTER



PART #	JIC THREAD SIZE 1	MALE PIPE THREAD 2
650542	7/16-20	1/8
650544	7/16-20	1/4
650546	7/16-20	3/8
650564	9/16-18	1/4
650566	9/16-18	3/8
650586	3/4-16	3/8
650588	3/4-16	1/2
6505128	1-1/16-12	1/2
65051212	1-1/16-12	3/4
65051612	1-5/16-12	3/4
65051616	1-5/16-12	1
65052424	1-7/8-12	1-1/2

6505 2018 F6X 1211 9100R

### JIC SWIVEL TO FEMALE PIPE ADAPTER



PART #	JIC THREAD SIZE 1	FEMALE PIPE THREAD 2
650642	7/16-20	1/8
650644	7/16-20	1/4
650664	9/16-18	1/4
650666	9/16-18	3/8
650668	9/16-18	1/2
650686	3/4-16	3/8
650688	3/4-16	1/2
6506106	7/8-14	3/8
6506128	1-1/16-12	1/2
65061212	1-1/16-12	3/4
65061616	1-5/16-12	1
65062020	1-5/8-12	1-1/4
65062424	1-7/8-12	1-1/2
65063232	2-1/2-12	2

6506 2242 1215

### JIC SWIVEL BRANCH TEE

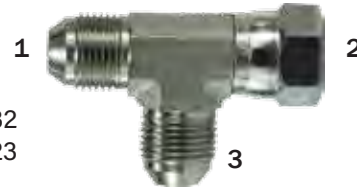


SAE 070433  
MS 51524

PART #	JIC THREAD SIZE 1 & 2	JIC FEMALE THREAD 3
660044	7/16-20	7/16-20
660066	9/16-18	9/16-18
660088	3/4-16	3/4-16
660010	7/8-14	7/8-14
660012	1-1/16-12	1-1/16-12
660016	1-5/16-12	1-5/16-12
660020	1-5/8-12	1-5/8-12

6600 203101R 55X 1227 C5707

### JIC SWIVEL RUN TEE

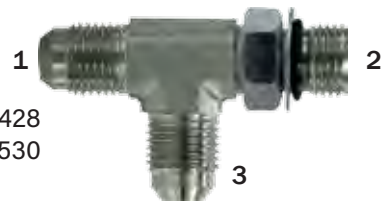


SAE 070432  
MS 51523

PART #	JIC THREAD SIZE 1 & 3	JIC FEMALE THREAD 2
66024	7/16-20	7/16 -20
66025	1/2-20	1/2-20
66026	9/16-18	9/16-18
66028	3/4-16	3/4-16
660212	1-1/16-12	1-1/16-12
660216	1-5/16-12	1-5/16-12
660224	1-7/8-12	1-7/8-12

6602 203102R R6X 1248 C5706

### JIC TO O-RING RUN TEE



SAE 070428  
MS 51530

PART #	JIC THREAD SIZE 1 & 3	O-RING THREAD SIZE 2
6804NWO4	7/16-20	7/16-20
6804NWO6	9/16-18	9/16-18
6804NWO8	3/4-16	3/4-16
6804NWO10	7/8-14	7/8-14
6804NWO12	1-1/16-12	1-1/16-12
6804NWO16	1-5/16-12	1-5/16-12

6804 203005R R50X 1266R C5716

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 ELBOW CONNECTOR

SAE 070220  
MS 51527



PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2
6801NWO4	7/16-20	7/16-20
6801NWO46	7/16-20	9/16-18
6801NWO48	7/16-20	3/4-16
6801NWO6	9/16-18	9/16-18
6801NWO64	9/16-18	7/16-20
6801NW068	9/16-18	3/4-16
6801NWO612	9/16-18	1-1/16-12
6801NWO8	3/4-16	3/4-16
6801NWO86	3/4-16	9/16-18
6801NWO810	3/4-16	7/8-14
6801NWO812	3/4-16	1-1/16-12
6801NWO816	3/4-16	1-5/16-12
6801NWO10	7/8-14	7/8-14
6801NWO106	7/8-14	9/16-18
6801NWO108	7/8-14	3/4-16
6801NWO1016	7/8-14	1-5/16-12
6801NWO12	1-1/16-12	1-1/16-12
6801NWO128	1-1/16-12	3/4-16
6801NWO1210	1-1/16-12	7/8-14
6801NWO1216	1-1/16-12	1-5/16-12
6801NWO16	1-5/16-12	1-5/16-12
6801NWO1612	1-5/16-12	1-1/16-12
6801NWO1620	1-5/16-12	1-5/8-12
6801NWO20	1-5/8-12	1-5/8-12
6801NWO2016	1-5/8-12	1-5/16-12
6801NWO2024	1-5/8-12	1-7/8-12
6801NWO24	1-7/8-12	1-7/8-12
6801NWO32	2-1/2-12	2-1/2-12

6801 2062R C50X 1238L C5515

### JIC TO O-RING - BRANCH TEE

SAE 070429  
MS 51529



PART #	JIC THREAD SIZE 1 & 2	O-RING THREAD SIZE 3
6803NWO4	7/16-20	7/16-20
6803NWO6	9/16-18	9/16-18
6803NWO8	3/4-16	3/4-16
6803NWO10	7/8-14	7/8-14
6803NWO12	1-1/16-12	1-1/16-12
6803NWO16	1-5/16-12	1-5/16-12

6803 203003X S50X 1265R C5715

### JIC TO O-RING 45° ELBOW

SAE 070320  
MS 51528



PART #	JIC THREAD SIZE 1	O-RING THREAD SIZE 2
6802NWO2	5/16-24	5/16-24
6802NWO4	7/16-20	7/16-20
6802NWO46	7/16-20	9/16-18
6802NWO6	9/16-18	9/16-18
6802NWO68	9/16-18	3/4-16
6802NWO8	3/4-16	3/4-16
6802NWO86	3/4-16	9/16-18
6802NWO810	3/4-16	7/8-14
6802NWO812	3/4-16	1-1/16-12
6802NWO10	7/8-14	7/8-14
6802NWO108	7/8-14	3/4-16
6802NWO1012	7/8-14	1-1/16-12
6802NWO12	1-1/16-12	1-1/16-12
6802NWO1216	1-1/16-12	1-5/16-12
6802NWO16	1-5/16-12	1-5/16-12
6802NWO1612	1-5/16-12	1-1/16-12
6802NWO1620	1-5/16-12	1-5/8-12
6802NWO20	1-5/8-12	1-5/8-12
6802NWO2016	1-5/8-12	1-5/16-12
6802NWO24	1-7/8-12	1-7/8-12
6802NWO32	2-1/2-12	2-1/2-12

6802 2061 V50X 1240R C5365

### O-RING TO - FEMALE PIPE ELBOW



PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2
6805NWO42	7/16-20	1/8
6805NWO44	7/16-20	1/4
6805NWO64	9/16-18	1/4
6805NWO66	9/16-18	3/8
6805NWO86	3/4-16	3/8
6805NWO88	3/4-16	1/2
6805NWO108	7/8-14	1/2
6805NWO128	1-1/16-12	1/2
6805NWO1212	1-1/16-12	3/4
6805NWO1616	1-5/16-12	1
6805NWO2020	1-5/8-12	1-1/4
6805NWO2424	1-7/8-12	1-1/2

6805 206801R AEOG 1264 C3459

# STEEL O-RINGS

## HYDRAULIC ADAPTERS

### O-RING TO MALE PIPE ELBOW



PART #	O-RING THREAD SIZE 1	PIPE THREAD SIZE 2
6806NWO44	7/16-20	1/4
6806NWO66	9/16-18	3/8
6806NWO88	3/4-16	1/2
6806NWO1212	1-1/16-12	3/4
6806NWO1616	1-5/16-12	1

6806 1263 TF3569

### O-RING TO 37° JIC SWIVEL NUT TO O-RING ELBOW



PART #	O-RING THREAD SIZE 1	JIC THREAD SIZE 2
6809NWO44	7/16-20	7/16-20
6809NWO66	9/16-18	9/16-18
6809NWO88	3/4-16	3/4-16
6809NWO1212	1-1/16-12	1-1/16-12

### FEMALE O-RING TO MALE O-RING ELBOW



PART #	O-RING THREAD SIZE 1	O-RING THREAD SIZE 2
6815NWO44	7/16-20	7/16-20
6815NWO66	9/16-18	9/16-18
6815NWO88	3/4-16	3/4-16
6815NWO1010	7/8-14	7/8-14
6815NWO1212	1-1/16-12	1-1/16-12

### MALE O-RING SWIVEL ADAPTER

SAE 140157



PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2
6900O42	7/16-20	1/8
6900O44	7/16-20	1/4
6900O46	7/16-20	3/8
6900O48	7/16-20	1/2
6900O64	9/16-18	1/4
6900O66	9/16-18	3/8
6900O68	9/16-18	1/2
6900O84	3/4-16	1/4
6900O86	3/4-16	3/8
6900O88	3/4-16	1/2
6900O812	3/4-16	3/4
6900O104	7/8-14	1/4
6900O106	7/8-14	3/8
6900O108	7/8-14	1/2
6900O1012	7/8-14	3/4
6900O128	1-1/16-12	1/2
6900O1212	1-1/16-12	3/4
6900O1612	1-5/16-12	3/4
6900O1616	1-5/16-12	1

6900 2066R 1235 9315

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# STEEL SAE O-RING

## HYDRAULIC ADAPTERS

### 90° O-RING SWIVEL ADAPTER



SAE 140257

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2
6901NWO42	7/16-20	1/8
6901NWO44	7/16-20	1/4
6901NWO64	9/16-18	1/4
6901NWO66	9/16-18	3/8
6901NWO68	9/16-18	1/2
6901NWO84	3/4-16	1/4
6901NWO86	3/4-16	3/8
6901NWO88	3/4-16	1/2
6901NWO812	3/4-16	3/4
6901NWO104	7/8-14	1/4
6901NWO106	7/8-14	3/8
6901NWO108	7/8-14	1/2
6901NWO126	1-1/16-12	3/8
6901NWO128	1-1/16-12	1/2
6901NWO1212	1-1/16-12	3/4
6901NWO1612	1-5/16-12	3/4
6901NWO1616	1-5/16-12	1
6901NWO2016	1-5/8-12	1
6901NWO2020	1-5/8-12	1-1/4
6901NWO2424	1-7/8-12	1-1/2
6901NWO3232	2-1/2-12	2

### 45° O-RING SWIVEL ADAPTER



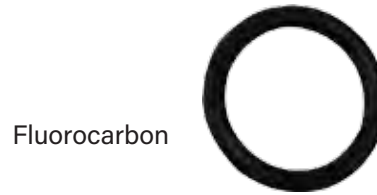
SAE 140357

PART #	O-RING THREAD SIZE 1	FEMALE NPSM SIZE 2
6902NWO42	7/16-20	1/8
6902NWO44	7/16-20	1/4
6902NWO46	7/16-20	3/8
6902NWO64	9/16-18	1/4
6902NWO66	9/16-18	3/8
6902NWO68	9/16-18	1/2
6902NWO84	3/4-16	1/4
6902NWO86	3/4-16	3/8
6902NWO88	3/4-16	1/2
6902NWO108	7/8-14	1/2
6902NWO128	1-1/16-12	1/2
6902NWO1212	1-1/16-12	3/4
6902NWO1616	1-5/16-12	1

6902 2067R 1272 9365

## O-RINGS

### VITON 75 SAE BOSS O-RING



Fluorocarbon

PART #	O-RING THREAD
400122	5/16-24
400144	7/16-20
400166	9/16-18
400188	3/4-16
400110	7/8-14
400112	1-1/16-12
400116	1-5/16-12
400120	1-5/8-12
400124	1-7/8-12
400132	2-1/2-12

### NITRILE 90 SAE BOSS O-RING



PART #	O-RING THREAD
400022	5/16-24
400044	7/16-20
400066	9/16-18
400088	3/4-16
400010	7/8-14
400012	1-1/16-12
400014	1-3/16-12
400016	1-5/16-12
400020	1-5/8-12
400024	1-7/8-12
400032	2-1/2-12

### BRAZE TUBE NUT (SLEEVE REQUIRED)



SAE 520110

PART #	TUBE O.D.	BRAZE TUBE O.D.
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
FSO31824	1 1/2	1.50

FF318 FF1311

# O-RING FACE SEAL ADAPTERS

## HYDRAULIC ADAPTERS

### BRAZE TUBE SLEEVE

SAE 520115



PART #	TUBE O.D.
FSO3194	1/4
FSO3196	3/8
FSO3198	1/2
FSO31910	5/8
FSO31912	3/4
FSO31916	1
FSO31920	1-1/4

FF319 FF3019

See Page 414 for JIC Nut and Sleeve

### CAP

SAE 520112



• Two Piece Nut/ Insert

PART #	TUBE O.D.	FACE SEAL THREAD
FSO304C4	1/4	9/16-18
FSO304C6	3/8	11/16-16
FSO304C8	1/2	13/16-16
FSO304C10	5/8	1-14
FSO304C12	3/4	1-3/16-12
FSO304C16	1	1-7/16-12
FSO304C20	1-1/4	1-11/16-12
FSO304C24	1-1/2	2-12

FF304C

### BULKHEAD LOCKNUT

SAE 520118



PART #	THREAD SIZE
FSO3064	9/16-18
FSO3066	11/16-16
FSO3068	13/16-16
FSO30612	1-3/16-12
FSO30616	1-7/16-12

FF403

### MALE UNION CONNECTOR

SAE 520102



PART #	TUBE O.D.	FACE SEAL THREAD 1&2
FSO240344	1/4	9/16-18
FSO240366	3/8	11/16-16
FSO240388	1/2	13/16-16
FSO24031212	3/4	1-3/16-12
FSO24031616	1	1-7/16-12

FF2403 FF1203

### MALE O-RING FACE SEAL ADAPTER



PART #	FACE SEAL THREAD 1	MALE PIPE SIZE 2
FSO240444	9/16-18	1/4-18
FSO240446	9/16-18	3/8
FSO240464	11/16-16	1/4-18
FSO240466	11/16-16	3/8-18
FSO240484	13/16-16	1/4-18
FSO240486	13/16-16	3/8
FSO240488	13/16-16	1/2-14
FSO2404108	1-14	1/2
FSO24041212	1-3/16-12	3/4-14
FSO24041616	1-7/16-12	1-11/12
FSO24042020	1-11/16-12	1-1/4
FSO24042424	2-12	1-1/2

FF2404 4205 FLO

### FEMALE ORFS TO MALE ORFS REDUCER



PART #	FEMALE FACE SEAL SIZE 1	MALE FACE SEAL THREAD 2
FSO240664	11/16-16	9/16-18
FSO240684	13/16-16	9/16-18
FSO2406106	1-14	11/16-16
FSO2406108	1-14	13/16-16
FSO2406126	1-3/16-12	11/16-16

FF2406 TRLON

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# O-RING FACE SEAL ADAPTERS

## HYDRAULIC ADAPTERS

### PLUG

SAE 520109



PART #	TUBE O.D.	FACE SEAL THREAD
FSO24084	1/4	9/16-18
FSO24086	3/8	11/16-16
FSO24088	1/2	13/16-16
FSO240810	5/8	1-14
FSO240812	3/4	1-3/8-12
FSO240816	1	1-7/16-12
FSO240820	1-1/4	1-11/16-12
FSO240824	1-1/2	2-12

FF2408 FF1254 4229 PNLO

### ORFS UNION ELBOW 90°



PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2
FS250044	9/16-18	9/16-18
FS250066	11/16-16	11/16-16
FS25001010	1-14	1-14
FS25001212	1-3/16-12	1-3/16-12
FS25001616	1-7/16-12	1-7/16-12

FF2500 4505 ELO

### ORFS TO MALE ELBOW

SAE 520202



PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2
FS250144	9/16-18	1/4
FS250164	11/16-16	1/4
FS250166	11/16-16	3/8
FS250186	13/16-16	3/8
FS250188	13/16-16	1/2
FS2501812	13/16-16	3/4
FS2501108	1-14	1/2
FS25011012	1-14	3/4
FS2501128	1-3/8-12	1/2
FS25011212	1-3/8-12	3/4
FS25011216	1-3/8-12	1
FS25011616	1-7/16-12	1
FS25012020	1-11/16-12	1-1/4
FS25012424	2-12	1-1/2

FF2501 FF1208 4405 CLO

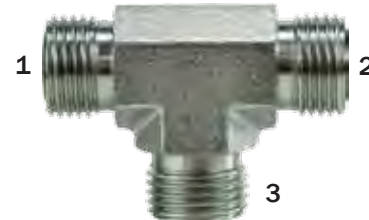
### ORFS TO PIPE ELBOW 45°



PART #	FACE SEAL THREAD 1	MALE PIPE THREAD 2
FS250344	9/16-18	1/4
FS250366	11/16-16	3/8
FS250388	13/16-16	1/2
FS25031212	1-3/16-12	3/4
FS25031616	1-7/16-12	1

FF2503 4355 VLO

### ORFS UNION TEE



PART #	FACE SEAL THREAD 1+2+3
FS260344	9/16-18
FS260366	11/16-16
FS260388	13/16-16
FS26031212	1-3/16-12

### MALE FLAT FACE TO FEMALE 37° SWIVEL



PART #	FACE SEAL THREAD 1	JIC THREAD 2
FS640244	9/16-18	7/16-20
FS640266	11/16-16	9/16-18
FS640288	13/16-16	3/4-16
FS64021010	1-14	7/8-14
FS64021212	1-3/16-12	1-1/16-12

FF6402 FF1294

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# O-RING FACE SEAL ADAPTERS

## HYDRAULIC ADAPTERS

### MALE ORFS TO ORB CONNECTOR

SAE 520120



PART #	FACE SEAL THREAD 1	O-RING THREAD 2
FS6400O44	9/16-18	7/16-20
FS6400O46	9/16-18	9/16-18
FS6400O64	11/16-16	7/16-20
FS6400O66	11/16-16	9/16-18
FS6400O68	11/16-16	3/4-16
FS6400O86	13/16-16	9/16-18
FS6400O88	13/16-16	3/4-16
FS6400O810	13/16-16	7/8-14
FS6400O108	1-14	3/4-16
FS6400O1010	1-14	7/8-14
FS6400O1012	1-14	1-1/16-12
FS6400O128	1-3/16-12	3/4-16
FS6400O1210	1-3/16-12	7/8-14
FS6400O1212	1-3/16-12	1-1/16-12
FS6400O1216	1-3/16-12	1-5/16-12
FS6400O1612	1-7/16-12	1-1/16-12
FS6400O1616	1-7/16-12	1-5/16-12
FS6400O1620	1-7/16-12	1-5/8-12
FS6400O2020	1-11/16-12	1-5/8-12
FS6400O2024	1-11/16-12	1-7/8-12
FS6400O2424	2-12	1-7/8-12

4315 FF6400 FF1231

### SWIVEL NUT ELBOW



PART #	FACE SEAL THREAD 1	FACE SEAL THREAD 2
FS650044	9/16-18	9/16-18
FS650066	11/16-16	11/16-16
FS650088	13/16-16	13/16-16
FS65001212	1-3/16-12	1-3/16-12

FF6500 FF1236

### MALE JIC 37° FLARE TO FEMALE FLAT FACE SWIVEL



PART #	JIC THREAD SIZE 1	FACE SEAL THREAD 2
FS650444	7/16-20	9/16-18
FS650466	9/16-18	11/16-16
FS650488	3/4-16	13/16-16
FS65041010	7/8-14	1-14
FS65041616	1-5/16-12	1-7/16-12

FF6504 FF1296

### O-RING ELBOW CONNECTOR



PART #	FACE SEAL THREAD 1	O-RING THREAD 2
FS680144	9/16-18	7/16-20
FS680146	9/16-18	9/16-18
FS680164	11/16-16	7/16-20
FS680166	11/16-16	9/16-18
FS680168	11/16-16	3/4-16
FS680186	13/16-16	9/16-18
FS680188	13/16-16	3/4-16
FS6801810	13/16-16	7/8-14
FS6801108	1-14	3/4-16
FS68011012	1-14	1-1/16-12
FS68011210	1-3/16-12	7/8-14
FS68011212	1-3/16-12	1-1/16-12
FS68011216	1-3/16-12	1-5/16-12
FS68011616	1-7/16-12	1-5/16-12
FS68011620	1-7/16-12	1-5/8-12
FS68012016	1-11/16-12	1-5/16-12
FS68012020	1-11/16-12	1-5/8-12
FS68012424	2-12	1-7/8-12

FF6801 FF1238 4515

### ORFS TO O-RING ELBOW 45°



PART #	FACE SEAL THREAD 1	O-RING SIZE 2
FS680244	9/16-18	7/16-20
FS680266	11/16-16	9/16-18
FS680288	13/16-16	3/4-16
FS68021010	1-14	7/8-14
FS68021212	1-3/16-12	1-1/16-12
FS68021616	1-7/16-12	1-5/16-12
FS68022020	1-11/16-12	1-5/8-12

FF6802 4365 V5OLO

**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](http://www.P65Warnings.ca.gov)



# STEEL BSPT ADAPTERS

HYDRAULIC ADAPTERS

## STRAIGHT THREAD SWIVEL NUT ELBOW



PART #	O-RING THREAD 1	FACE SEAL THREAD 2
FS680944	7/16-20	9/16-18
FS680966	9/16-18	11/16-16
FS680988	3/4-16	13/16-16
FS68091212	1-1/16-12	1-3/16-12

FF6809 FF1239 4535 AOELC

## STEEL BSPT ADAPTERS

### JIC MALE CONNECTOR BSPT



PART #	JIC THREAD SIZE 1	MALE BSPT 2
700042	7/16-20	1/8-28
700044	7/16-20	1/4-19
700064	9/16-18	1/4-19
700066	9/16-18	3/8-19
700068	9/16-18	1/2-14
700086	3/4-16	3/8-19
700088	3/4-16	1/2-14
7000812	3/4-16	3/4-14
7000108	7/8-14	1/2-14
70001012	7/8-14	3/4-14
7000128	1-1/16-12	1/2-14
70001212	1-1/16-12	3/4-14
70001616	1-5/16-12	1-11

3404 305

### JIC MALE ELBOW BSPT



PART #	JIC THREAD SIZE 1	MALE BSPT 2
720042	7/16-20	1/8-28
720044	7/16-20	1/4-19
720064	9/16-18	1/4-19
720066	9/16-18	3/8-19
720068	9/16-18	1/2-14
720086	3/4-16	3/8-19
720088	3/4-16	1/2-14
72001212	1-1/16-12	3/4-14

3501 315

## BSPT HEX NIPPLE



PART #	MALE BSPT 1	MALE BSPT 2
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
95082	1/8-28
95084	1/4-19
95086	3/8-19
95088	1/2-14
950812	3/4-14
9508-16	1-11

100B-Y KA-RM MHL 296

## STEEL BSPP ADAPTERS

### BSPP HEX NIPPLE



PART #	MALE BSPP 1	MALE BSPP 2
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

**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](http://www.P65Warnings.ca.gov)



# STEEL BSPP ADAPTERS

## HYDRAULIC ADAPTERS

### BSPP COUPLING



PART #	BSPP
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

### JIC TO BSPP 45° ELBOW



PART #	JIC THREAD SIZE 1	MALE BSPP 2
78024	7/16-20	1/4-19
78026	9/16-18	3/8-19
78028	3/4-16	1/2-14
780212	1-1/16-12	3/4-14
780216	1-5/16-12	1-11

3802 35J

### JIC TO FEMALE BSPP STRAIGHT SWIVEL



PART #	JIC THREAD SIZE 1	FEMALE BSPP SWIVEL 2
72404	7/16-20	1/4-19
72406	9/16-18	3/8-19
72408	3/4-16	1/2-14
724010	7/8-14	5/8-14
724012	1-1/16-12	3/4-14
724016	1-5/16-12	1-11

3240 MJFBS

### BSPP TO MALE PIPE NIPPLE



PART #	MALE BSPP SIZE 1	MALE PIPE THREAD SIZE 2
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 BSPP MALE ELBOW



PART #	JIC THREAD SIZE 1	MALE BSPP 2
7202NWO42	7/16-20	1/8-28
7202NWO44	7/16-20	1/4-19
7202NWO64	9/16-18	1/4-19
7202NWO66	9/16-18	3/8-19
7202NWO68	9/16-18	1/2-14
7202NWO86	3/4-16	3/8-19
7202NWO88	3/4-16	1/2-14
7202NWO812	3/4-16	3/4-14
7202NWO108	7/8-14	1/2-14
7202NWO1212	1-1/16-12	3/4-14
7202NWO1216	1-1/16-12	1-11
7202NWO1616	1-5/16-12	1-11

3801 315

### JIC TO BSPP MALE CONNECTOR



PART #	JIC THREAD SIZE 1	MALE BSPP 2
700242	7/16-20	1/8-28
700244	7/16-20	1/4-19
700246	7/16-20	3/8-19
700248	7/16-20	1/2-14
700264	9/16-18	1/4-19
700266	9/16-18	3/8-19
700268	9/16-18	1/2-14
700286	3/4-16	3/8-19
700288	3/4-16	1/2-14
7002812	3/4-16	3/4-14
7002108	7/8-14	1/2-14
70021212	1-1/16-12	3/4-14
70021216	1-1/16-12	1-11
70021616	1-5/16-12	1-11

30J 3800

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# STEEL BSPP ADAPTERS

## HYDRAULIC ADAPTERS

### JIC TO BSPP STRAIGHT SWIVEL



PART #	JIC THREAD SIZE 1	MALE BSPP 2
702242	7/16-20	1/8-28
702244	7/16-20	1/4-19
702266	9/16-18	3/8-19
702288	3/4-16	1/2-14
7022108	7/8-14	1/2-14
70221212	1-1/16-12	3/4-14
70221616	1-5/16-12	1-11

3402 3055

### HEX HEAD PLUG BSPP



PART #	MALE BSPP
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
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

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### FEMALE ADAPTER BSPP



PART #	FEMALE PIPE 1	MALE BSPP 2
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 THREAD SIZE 1	METRIC THREAD 2
7005410	7/16-20	10x1.0
7005412	7/16-20	12x1.5
7005414	7/16-20	14x1.5
7005418	7/16-20	18x1.5
7005512	1/2-20	12x1.5
7005514	1/2-20	14x1.5
7005614	9/16-18	14x1.5
7005616	9/16-18	16x1.5
7005618	9/16-18	18x1.5
7005816	3/4-16	16x1.5
7005818	3/4-16	18x1.5
7005822	3/4-16	22x1.5
70051018	7/8-14	18x1.5
70051020	7/8-14	20x1.5
70051022	7/8-14	22x1.5
70051222	1-1/16-12	22x1.5

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](http://www.P65Warnings.ca.gov)

# STEEL METRIC ADAPTERS

## HYDRAULIC ADAPTERS

### MALE ELBOW



PART #	JIC THREAD SIZE 1	METRIC THREAD 2
7205NWO410	7/16-20	10x1.0
7205NWO412	7/16-20	12x1.5
7205NWO414	7/16-20	14x1.5
7205NWO512	1/2-20	12x1.5
7205NWO614	9/16-18	14x1.5
7205NWO616	9/16-18	16x1.5
7205NWO816	3/4-16	16x1.5
7205NWO818	3/4-16	18x1.5
7205NWO822	3/4-16	22x1.5
7205NWO1018	7/8-14	18x1.5

Port-seal crush washer and O-ring included 7401 315 (R)



PART #	JIC THREAD SIZE 1	METRIC THREAD 2
7025410	7/16-20	10x1.0
7025412	7/16-20	12x1.5
7025512	1/2-20	12x1.5
7025614	9/16-18	14x1.5
7025616	9/16-18	16x1.5
7025816	3/4-16	16x1.5
70251022	7/8-14	22x1.5
70251227	1-1/16-12	27x2.0
70251633	1-5/16-12	33x2.0

7402 30JS (R)

### HEX HEAD PLUG METRIC PARALLEL



PART #	METRIC THREAD
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

7403

### HOLLOW HEX HEAD PLUG



PART #	METRIC THREAD
8555H10	10x1.0
8555H12	12x1.5
8555H14	14x1.5
8555H16	16x1.5
8555H18	18x1.5
8555H20	20x1.5
8555H22	22x1.5
8555H26	26x1.5
8555H30	30x1.5

7408 HHP

### FEMALE ADAPTER



PART #	FEMALE PIPE THREAD 1	METRIC THREAD 2
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)

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# 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	PART #	BODY SIZE	FEMALE NPT	MAX PSI
61150	3/4	1/2	3000	61050	3/4	1/2	3000
61152	3/4	3/4	3000	61052	3/4	3/4	3000
61153	1	1	3000	61053	1	1	3000
61154	1-1/4	1-1/4	2750	61054	1-1/4	1-1/4	2750

### 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

Body Size	ISO 7241-1 ISO-A Interchange ( Connected )			
	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

### INTERCHANGE DATA:

- Parker 6600, Aeroquip/ Eaton FD56, Dixon 'K' Series.
- Hansen HA 15000, Safeway S56

Body Size	ISO 7241-1 Series B ISO-B Interchange ( Connected )							
	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

### B=BRASS



BRASS - HNV SERIES PLUG



BRASS - HNV SERIES COUPLER

### ISO-A FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT
ANV14F	1/4"	1/4"
ANV38F	3/8"	3/8"
ANV12F	1/2"	1/2"
ANV34F	3/4"	3/4"
ANV1F	1"	1"

### ISO-A FEMALE PIPE PLUG

PART #	BODY SIZE	NPT
ANV14M	1/4"	1/4"
ANV38M	3/8"	3/8"
ANV12M	1/2"	1/2"
ANV34M	3/4"	3/4"
ANV1M	1"	1"

### ISO-B FEMALE PIPE COUPLER

PART #	BODY SIZE	NPT
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"

### ISO-B FEMALE PIPE PLUG

PART #	BODY SIZE	NPT
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"

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](http://www.P65Warnings.ca.gov)

# FLUSH FACE ISO

## HYDRAULIC ADAPTERS

### FEATURES

- Steel construction, zinc plated trivalent 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
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"
FF-1-F	1"	1"

FF Series  
HTMN  
74N



### FEMALE PIPE PLUG

PART #	BODY SIZE	NPT
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			

### APPLICATIONS

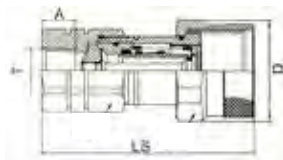
- Widely used in public equipment
- Portable construction equipment.
- Hydraulic tools
- Vehicles

### FEATURES

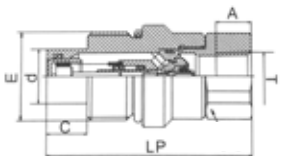
- New valve design provides better resistance from high flow and the pressure of impulse, thus providing advanced performance.
- Special nipple design for connecting under pressure, allows connection and disconnection with high residual pressures.
- The LSQ-VEP series employs a threaded sleeve locking 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)**

Standard seal material is **NBR**

Test Fluid-Oil = 200 SUS



FEMALE COUPLER				
PART #	LS	D	A	NPT
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
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

Nominal Size	AG - Series Agricultural Interchange ( Connected )			
	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
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
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

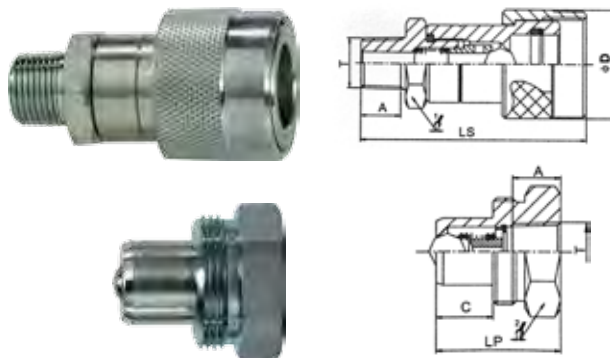
## THREAD LOCK HYDRAULIC JACK COUPLING

### SPECIFICATIONS

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 <b>NBR</b>		

#### 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.**



#### MALE COUPLER

PART #	LS	D	HEX	A	NPT
KZEB14SM	2.40	1.14	0.87	0.55	1/4
KZEB38SM	2.91		0.98	0.57	3/8

#### FEMALE COUPLER

PART #	LS	D	HEX	A	NPT
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](http://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:**

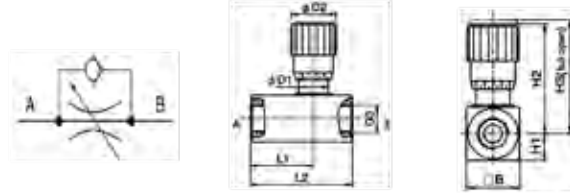
• Materials

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)
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.

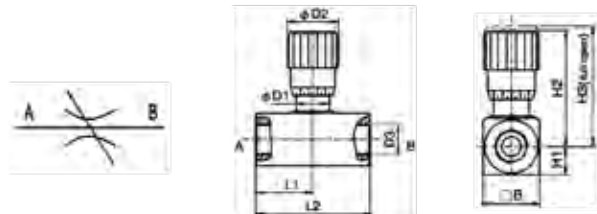
**TECHNICAL DATA:**

• 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)
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](http://www.P65Warnings.ca.gov)



# HYDRAULIC FLOW CONTROL/ BREATHERS

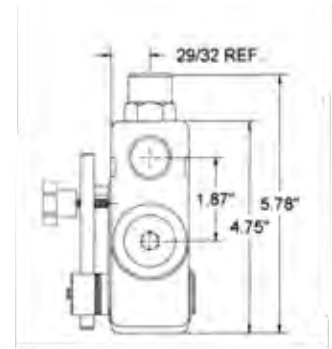
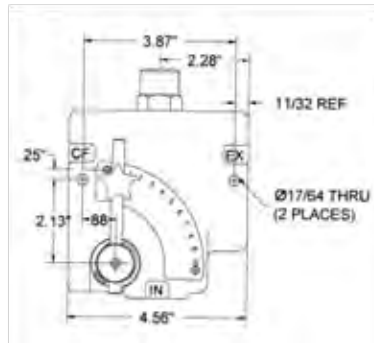
## HYDRAULIC ADAPTERS

### 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
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

PART NUMBER	FLOW CFM	NPT
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](http://www.P65Warnings.ca.gov)

**FLANGE ADAPTERS**

## HYDRAULIC ADAPTERS

## 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

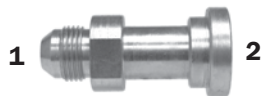
## HYDRAULIC ADAPTERS

### JIC FLANGE ADAPTER

CODE 61

6840

503



3000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2	
170088	3/4-16	1/2	
1700812	3/4-16	3/4	
17001212	1-1/16-12	3/4	
17001216	1-1/16-12	1	
17001616	1-5/16-12	1	
17001620	1-5/16-12	1-1/4	
17001624	1-5/16-12	1-1/2	
17002016	1-5/8-12	1	
17002020	1-5/8-12	1-1/4	
17002032	1-5/8-12	2	
17002424	1-7/8-12	1-1/2	
17003232	2-1/2-12	2	
17002024	1-5/8-12	1-1/2	
17002420	1-7/8-12	1-1/4	
17001612	1-5/16-12	3/4	
17002432	1-7/8-12	2	

6840 503

### JIC FLANGE 450 ADAPTER

CODE 61

6845

505



3000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
170388	3/4-16	1/2	
1703812	3/4-16	3/4	
17031212	1-1/16-12	3/4	
17031216	1-1/16-12	1	
17031616	1-5/16-12	1	
17031620	1-5/16-12	1-1/4	
17032016	1-5/8-12	1	
17032020	1-5/8-12	1-1/4	
17032024	1-5/8-12	1-1/2	
17033232	2-1/2-12	2	
17032420	1-7/8-12	1-1/4	
17032424	1-7/8-12	1-1/2	
17032432	1-7/8-12	2	
17031612	1-5/16-12	3/4	

6845 505

### JIC FLANGE 90° ADAPTER

CODE 61



3000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
170488	3/4-16	1/2	
1704812	3/4-16	3/4	
17041016	7/8-14	1	
17041212	1-1/16-12	3/4	
17041216	1-1/16-12	1	
17041220	1-1/16-12	1-1/4	
17041612	1-5/16-12	3/4	
17041616	1-5/16-12	1	
17041620	1-5/16-12	1-1/4	
17041624	1-5/16-12	1-1/2	
17042016	1-5/8-12	1	
17042020	1-5/8-12	1-1/4	
17042024	1-5/8-12	1-1/2	
17042420	1-7/8-12	1-1/4	
17042432	1-7/8-12	2	
17043232	2-1/2-12	2	
17042032	1-5/8-12	2	
17042424	1-7/8-12	1-1/2	

6890 504

### JIC FLANGE ADAPTER

CODE 62



6000 PSI

Part #	JIC Thread Size 1	Flange Size 2	
180088	3/4-16	1/2	
18001212	1-1/16-12	3/4	
18001216	1-1/16-12	1	
18001616	1-5/16-12	1	
18001620	1-5/16-12	1-1/4	
18002016	1-5/8-12	1	
18002020	1-5/8-12	1-1/4	
18002024	1-5/8-12	1-1/2	
18002424	1-7/8-12	1-1/2	
18003232	2-1/2-12	2	
18001612	1-5/16-12	3/4	
18001624	1-5/16-12	1-1/2	
18002420	1-7/8-12	1-1/4	

6842



# FLANGE ADAPTERS

## HYDRAULIC ADAPTERS

### JIC FLANGE 45° ADAPTER

CODE 62

1



2

6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2
18031212	1-1/16-12	3/4
18031216	1-1/16-12	1
18031616	1-5/16-12	1
18031620	1-5/16-12	1-1/4
18032016	1-5/8-12	1
18032020	1-5/8-12	1-1/4
18032024	1-5/8-12	1-1/2
18032424	1-7/8-12	1-1/2
18033232	2-1/2-12	2
18031612	1-5/16-12	3/4
18031624	1-5/16-12	1-1/2
18032420	1-7/8-12	1-1/4

6847 508

### JIC FLANGE 90° ADAPTER - CODE 62

1



2

6000 PSI

PART #	JIC THREAD SIZE 1	FLANGE SIZE 2
18041212	1-1/16-12	3/4
18041216	1-1/16-12	1
18041616	1-5/16-12	1
18041620	1-5/16-12	1-1/4
18042016	1-5/8-12	1
18042020	1-5/8-12	1-1/4
18042024	1-5/8-12	1-1/2
18042424	1-7/8-12	1-1/2
18043232	2-1/2-12	2
18041612	1-5/16-12	3/4
18041624	1-5/16-12	1-1/2
18042420	1-7/8-12	1-1/4

6842

### SPLIT FLANGE PLUG - CODE 61



3000 PSI

PART #	FLANGE SIZE
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
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.
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
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
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
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
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
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 THREAD SIZE	PAD SIZE
23611212	1-1/16-12	3/4
23611616	1-5/16-12	1
23612020	1-5/8-12	1-1/4
23612424	1-7/8-12	1-1/2

### O-RING FLANGE PAD CODE 62

W48



6000 PSI

PART #	O-RING THREAD SIZE	PAD SIZE
23621212	1-1/16-12	3/4
23621616	1-5/16-12	1
23622020	1-5/8-12	1-1/4
23622424	1-7/8-12	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



# 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 <sup>1</sup> ) Male and Female	Straight Pipe Thread (NPSM <sup>2</sup> ) 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)



USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

**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/ANSI B.1.20.1



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!



## 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)
SS1404-04-04	1/4	1/4	1/4-18	1/4-18	1.440
SS1404-06-06	3/8	3/8	3/8-18	3/8-18	1.560
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

SAI: 1404-X-X / 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)
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

SAI: 1405-X-X / SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

#### Control Your Temper

There once was a little boy who had a very bad temper. His father decided to hand him a bag of nails and said that every time the boy lost his temper, he had to hammer a nail into the fence.

On the first day, the boy hammered 37 nails into that fence.

The boy gradually began to control his temper over the next few weeks, and the number of nails he was hammering into the fence slowly decreased.

He discovered it was easier to control his temper than to hammer those nails into the fence.

Finally, the day came when the boy didn't lose his temper at all. He told his father the news and the father suggested that the boy should now pull out a nail every day he kept his temper under control.

The days passed and the young boy was finally able to tell his father that all the nails were gone. The father took his son by the hand and led him to the fence.

"you have done well, my son, but look at the holes in the fence. The fence will never be the same. When you say things in anger, they leave a scar just like this one. You can put a knife in a man and draw it out. It won't matter how many times you say I'm sorry, the wound is still there."

Moral of the story:

Control your anger, and don't say things to people in the heat of the moment, that you may later regret. Some things in life, you are unable to take back.

- Unknown

# JIC 37°

## #316 STAINLESS STEEL ADAPTERS

### JIC TUBE SLEEVE



SS318-04	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	

SAI: 319-X / SSP: JXS / PARKER: XTX-SS / AEROQUIP: 259-900605-X

### JIC TUBE NUT



PART	(A) FJIC SIZE	(A) THREAD	HEX	(L)
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

SAI: 318-X / SSP: JXN / PARKER: XBTX-SS / AEROQUIP: 259-1290-X

### JIC CAP



PART	(A) FJIC SIZE	(A) THREAD	HEX	(L) LENGTH
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

SAI: 304-C-X / SSP: AJXZ / PARKER: X FNTX-SS / AEROQUIP: 259-210292-X



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# STRAIGHTS JIC FLARE 37°

#316 STAINLESS STEEL ADAPTERS

## JIC UNION



PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)
SS2403-04-04	1/4	1/4	7/16-20	7/16-20	1.370
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

SAI: 2403-X-X / SSP: JX-XU / PARKER: HTX-SS / AEROQUIP: 259-2027-X-X

## JIC X MALE NPT ADAPTER



PART	(A) MJIC SIZE	(B) MNPT SIZE	(A) MJIC THREAD	(B) MNPT THREAD	(L)
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



USE OUR APP WITH YOUR FREE BIN LABELS TO MANAGE YOUR CUSTOMERS INVENTORY MORE EFFICIENTLY

**STRAIGHTS JIC FLARE 37°**

#316 STAINLESS STEEL ADAPTERS

**MALE JIC X FEMALE NPT ADAPTER**

PART	(A) MJIC SIZE	(B) FNPT SIZE	(A) MJIC THREAD	(B) FNPT THREAD	(L)
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

SAI: 2405-X-X / SSP: JX-XFC / PARKER: XXGTX-SS / AEROQUIP: 259-2022-X-X

**FEMALE JIC X MALE JIC (REDUCER-EXPANDER)**

PART	(A) FJIC SIZE	(B) MJIC SIZE	(A) FJIC THREAD	(B) MJIC THREAD	(L)
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

SAI: 2406-X-X / SSP: PSX-XFC / PARKER: 0207-X-X-SS / AEROQUIP: 259-2046-X-X

**JIC PLUG**

PART	(A) MJIC SIZE	(A) MJIC THREAD	HEX	(L)
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

SAI: 2408-X / SSP: JXP / PARKER: XRNTX-SS / AEROQUIP: 259-900599-X



VIEW PRICING AND AVAILABLE STOCK ONLINE

# BULKHEAD FITTINGS

#316 STAINLESS STEEL ADAPTERS

## JIC BULKHEAD NUT



PART	(A) BN SIZE	(A) THREAD	HEX	(L)	
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	

SAI: 306-X / SSP: XBN / PARKER: XWLN-SS / AEROQUIP: 259-210212-X-X

## MALE JIC BULKHEAD TUBE UNION



PART	(A) MJIC SIZE	(B) MJIC SIZE	(A) MJIC THREAD	(B) MJIC THREAD	(L)	
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	

SAI: 2700-X-X / SSP: JXBU / PARKER: XWTX-SS / AEROQUIP: 259-2041-X-X

## FEMALE NPT X MALE 37 DEGREE JIC BULKHEAD ADAPTER



PART	(A) FNPT SIZE	(B) MJIC SIZE	(A) FNPT THREAD	(B) MJIC THREAD	(L)	
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	

SAI: 2705-X-X / SSP: JX-XBFC / PARKER: X-XWGTX-SS / AEROQUIP: 259-2239-X-X

## FEMALE NPT X FEMALE NPT BULKHEAD COUPLING



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)	
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	

SAI: 2707-X-X / SSP: AXAC



**PIPE FITTINGS**

#316 STAINLESS STEEL ADAPTERS

**HEX PIPE COUPLING**

PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(L)
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

SAI: 5000-X-X / SWANGELOK: 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
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

SAI: 5404-X-X / SWANGELOK: 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)
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

SAI: CN-X / SWANGELOK: 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 ADAPTER EXPANDER



PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD	(L)
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
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

SAI: 5405-X-X / SWANGELOK: 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)
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

SAI: 5606-X-X / SWANGELOK: 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)
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

SAI: 5606-P-X / SWANGELOK: SS-X-P / SSP: XXXRA / PARKER: X-HHP-SS / AEROQUIP: 259-2082-X

## HOLLOW HEX PLUG



PART	(A) MNPT SIZE	(A) MNPT THREAD	HEX SIZE	(L)	(L)
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

SAI: 5406-HHP-X / SWANGELOK: 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)
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

SAI: 5406-C / SWANGELOK: SS-X-C / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

**MALE X MALE 90 DEGREE PIPE ELBOW**

PART	(A) MNPT SIZE	(B) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(L)
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

SAI: 5500-X-X / SWANGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X

**MALE X FEMALE STREET ELBOW**

PART	(A) MNPT SIZE	(B) FNPT SIZE	(A) MNPT THREAD	(B) FNPT THREAD
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

SAI: 5500-X-X / SWANGELOK: SS-X-ME / SSP: XMM / PARKER: XCR-SS / AEROQUIP: 259-2085-X-X



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# STEEL PIPE FITTINGS

#316 STAINLESS STEEL ADAPTERS

## FEMALE X FEMALE 90 DEGREE ELBOW



PART	(A) FNPT SIZE	(B) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD
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

SAI: 5504-X-X / SWANGELOK: SS-X-E / SSP: XFF / PARKER: XDD-SS / AEROQUIP: 259-2087-X-X

## MALE ELBOWS PIPE TEE



PART	(A) MNPT SIZE	(B) MNPT SIZE	(C) MNPT SIZE	(A) MNPT THREAD	(B) MNPT THREAD	(C) MNPT THREAD
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

SAI: 5600-X-X-X / SWANGELOK: SS-X-MT / SSP: XMMM / PARKER: XRRS-SS / AEROQUIP: 259-2257-X-X

## TEE - FEMALE X FEMALE X FEMALE



PART	(A) FNPT SIZE	(B) FNPT SIZE	(C) FNPT SIZE	(A) FNPT THREAD	(B) FNPT THREAD	(C) FNPT THREAD
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

SAI: 5605-X-X-X / SWANGELOK: SS-X-T / SSP: XFF / PARKER: XMMO-SS / AEROQUIP: 259-2090-X-X



USE OUR TEXT LINE [855-609-3729](tel:855-609-3729) TO COMMUNICATE WITH MIDLAND MORE CONVENIENTLY

**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
SS6400-06-06	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

SAI: 6400-X-X-X / SWANGELOK: 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

SAI: 6402-X-X-X / 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)
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

SAI: 6405-X-X / SWANGELOK: SS-X-SAE-7-X / SSP: XXXGCF / PARKER: XXX-F50G-SS / AEROQUIP: 259-2216-X-X



GO ONLINE TO UPLOAD YOUR LOGO TO UTILIZE ALL OF OUR CUSTOMIZABLE TOOLS!



## SAE O-RING BOSS (ORB)

#316 STAINLESS STEEL ADAPTERS

### SAE O-RING BOSS HEX PLUG



PART	(A) MORB SIZE	(A) MORB THREAD	HEX	(L)	
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	

SAI: 6408-HH-X / SWANGELOK: 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)	
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	

SAI: 6408-X / SWANGELOK: SS-X-PST / SSP: XGP / PARKER: XP50N-SS /  
AEROQUIP: 259-900598-X



HELP US HELP YOU! GO ONLINE TO UPDATE YOUR CUSTOMER PROFILE SO THAT WE CAN UPDATE ALL THE APPROPRIATE DEPARTMENTS AND PERSONNEL AT YOUR COMPANY ON NEW CATALOGS, PRICING UPDATES, NEW MARKETING TOOLS, AND OTHER IMPORTANT INFORMATION. THANK YOU!

**FEMALE JIC SWIVELS**

#316 STAINLESS STEEL ADAPTERS

**316 STAINLESS STEEL MALE NPT X FEMALE 37 DEGREE JIC SWIVEL**

PART	(A) MNPT SIZE	(B) FJIC SIZE	(A) MNPT THREAD	(B) FJIC THREAD	(L)
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

SAI: 6505-X-X / SWANGELOK: JSX-XC / PARKER: XXXF6X-SS / AEROQUIP: 259-2018-X-X

**316 STAINLESS STEEL FEMALE NPT X FEMALE 37 DEGREE JIC SWIVEL**

PART	(A) FNPT SIZE	(B) FJIC SIZE	(A) FNPT THREAD	(B) FJIC THREAD	(L)
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

SAI: 6506-X-X / SWANGELOK: JSX-XFC / PARKER: X-XG6X-SS / AEROQUIP: 259-2242-X-X

Your attitude is like a box of crayons that color your world. Constantly color your picture gray, and your picture will always be bleak. Try adding some bright colors to the picture by including humor, and your picture begins to lighten up.

- Allen Klein



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# 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)
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	

SAI: 4304-XMP / PARKER: 10143-X-XC

## STRAIGHT FEMALE JIC - SWIVEL



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD	(L)
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

SAI: 4304-XFJ / PARKER: 10643-X-XC

## 90 DEGREE FEMALE JIC - SWIVEL



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	FJIC THREAD
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

SAI: 43-X-XFJ90 / PARKER: 10143-X-XC

## STRAIGHT MALE NPT - API



PART	HOSE DASH SIZE	HOSE I.D. (INCHES)	THREAD DASH SIZE	MNPT THREAD
SSBW-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)
SSBOPF-C	2.360	2.225	5.195

PRODUCT SPECIFICATIONS - BW SERIES MALE API BOP CRIMP FERRULE

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**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.

## GENERAL INFORMATION

**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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## GENERAL INFORMATION

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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.

## Threading Information

<b>Abbreviation</b>	<b>System Name</b>
<b>BSPP</b>	<b>British Standard Pipe Parallel</b>
<b>BSPT</b>	<b>British Standard Pipe Taper</b>
<b>CHT</b>	American Standard Fire Hose Thread (1" National Hose Thread is <b>Chemical Hose Thread</b> , also known as <b>Booster Hose Thread</b> )
<b>GHT</b>	<b>Garden Hose Thread</b> ( FGH - Female Garden Hose ) ( MGH - Male Garden Hose )
<b>IPS</b>	<b>Iron Pipe Straight Thread</b>
<b>IPT</b>	<b>Iron Pipe Thread</b>
<b>JIC</b>	<b>Joint Industrial Committee</b>
<b>NH or NST</b>	American Standard Fire Hose Coupling Thread ( <b>National Hose</b> thread also known as <b>National Standard Thread</b> )
<b>NPT</b>	American Standard Taper Pipe Thread ( <b>National Pipe Tapered</b> )
<b>NPTF</b>	American Standard Taper Pipe Fuel Dryseal Thread ( <b>National Pipe Tapered</b> )(Dryseal)
<b>NPSH</b>	American Standard Straight Pipe for Hose Couplings ( <b>National Pipe Straight Hose</b> )
<b>NPSM</b>	American Standard Straight Mechanical Joints ( <b>National Pipe Straight Mechanical</b> )

## Association Abbreviations

**SAE International (SAE)** is a professional organization for mobility engineering professionals in the aerospace, automotive, and commercial vehicle industries. The Society is a standards development organization for the engineering of powered vehicles of all kinds, including cars, trucks, boats, aircraft, and others.

**AGA - American Gas Association**

**JIC - Joint Industrial Committee**

**ASA - American Statistical Association**

**ASME - American Society of Mechanical Engineers**

For more detailed information, suggested sealing methods, thread compatibility, etc... visit **[www.midlandindustries.com](http://www.midlandindustries.com)** and click on "**Knowledge Bank**"

# Need help identifying a fitting?

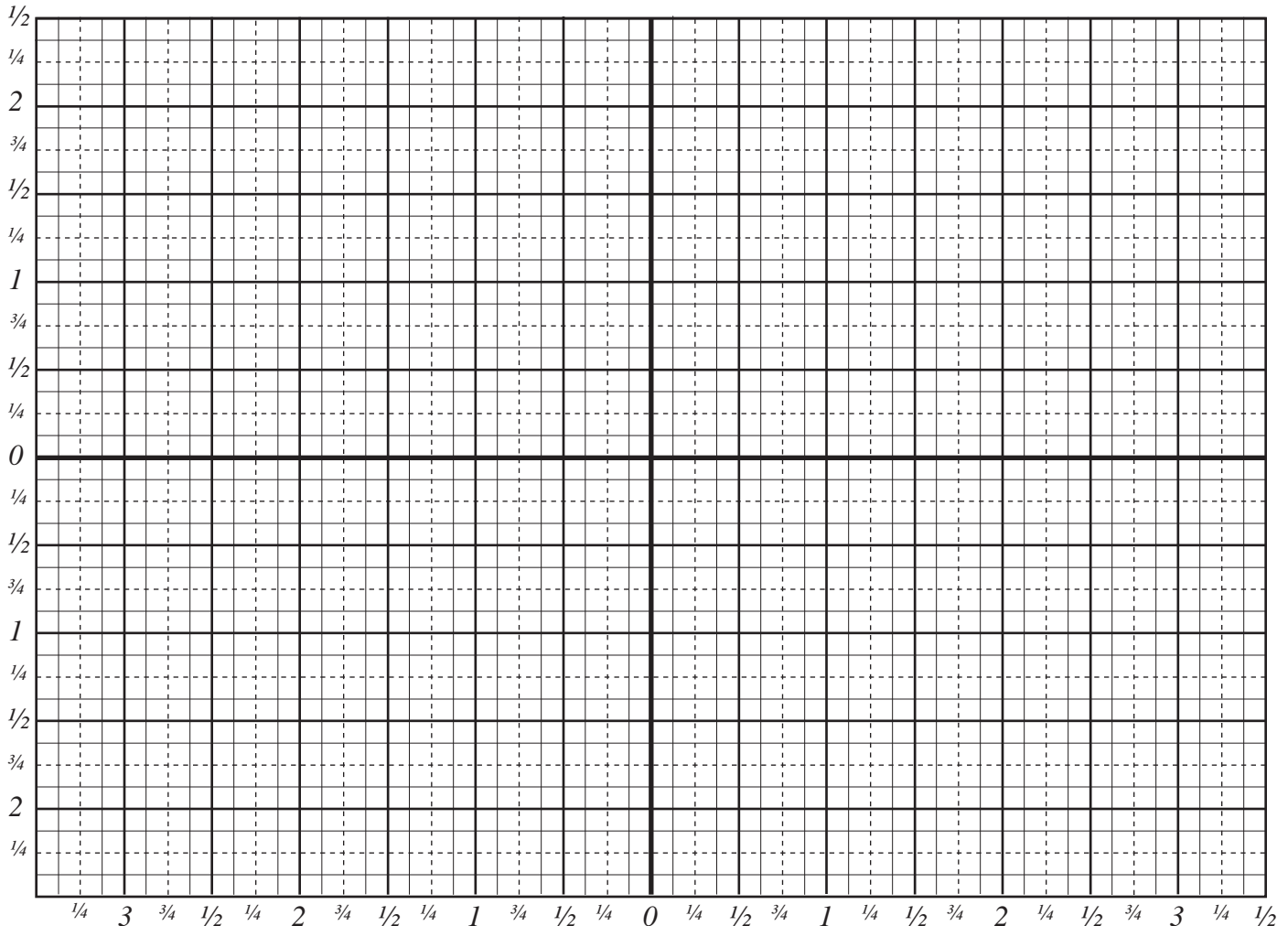
Let our engineering team assist you!

**Step 1** - Determine material. (Brass, Steel, Stainless, etc...)

**Step 2** - Check Threads. (See Intro page 20 for threading types)

**Step 3** - Measure Outer Diameter(O.D.) , Inner Diameter (I.D.), Length and any other relevant measurement.

**Step 4** - If you have the fitting with you, place it on the grid below and take a photo. If the fitting cannot be placed on the grid please use any photo available.



**Step 5**- Email photo of fitting along with information collected to :

**engineer@midlandindustries.com**

Please allow up to 1 business day for a response. If the request is urgent please call 1-800-821-5725

# PLASTIC TUBING

## INFORMATION

### CORROSION RESISTANCE VALUES for Plastic Tubing

Ratings based on tests at 70°F and should not be exposed to higher temperature without testing

**F**-5000 Poly Vinyl Chloride  
**U**-2000 Polyurethane  
**E**-1000 Low Density Polyethylene  
**N**-6000 Nylon

**P**-1100 Polypropylene  
**D**-4000 EVA  
**T**-7000 Teflon  
**U**-8000 Special Plasticizers PVC

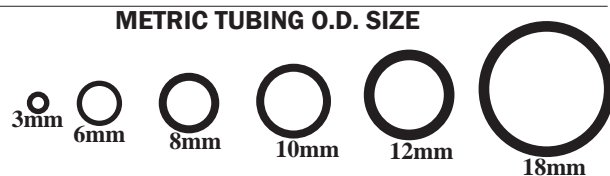
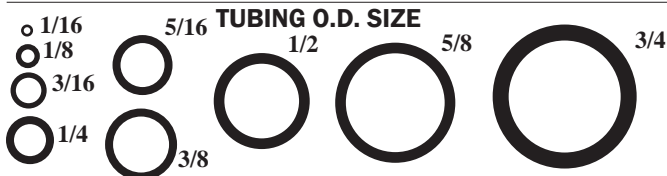
**G**-Good  
**L**-Limited  
**P**-Poor  
**N**-Not Tested

FUELS:	F	U	E	N	P	D	T	U
Butane (1).....	G	G	L	G	L	G	G	N
Diesel Fuel .....	L	G	L	G	L	P	N	G
Gasoline (regular) .....	L	G	P	G	L	N	G	G
Kerosene .....	L	G	P	G	G	P	G	G
Methane (nat. gas)(1).....	G	G	L	G	G	N	N	N
Propane (1).....	G	G	L	G	L	N	N	N
OTHERS:								
Acetylene .....	N	G	G	G	G	N	N	N
Ammonia gas .....	P	G	G	G	G	G	N	N
Ammonium salts .....	G	G	G	G	G	G	N	N
Amyl acetate .....	P	P	L	G	P	P	G	N
Aniline.....	P	P	L	L	G	P	G	N
Animal oils.....	G	G	P	G	G	N	G	G
Bleach, 7% .....	G	P	G	L	L	N	N	G
Bromine.....	L	G	P	P	P	P	G	N
Butandiol.....	G	G	G	G	G	N	N	N
Calcium salts incl. Chloride....	G	G	G	G	G	N	G	G
Chlorine gas, dry.....	G	G	P	P	P	P	N	N
Dibutyl phthalate.....	N	P	L	G	L	P	N	G
Glucose .....	G	G	G	G	G	G	G	G
Glycerine.....	G	G	G	G	G	G	N	G
Hydrogen peroxide 10% ....	G	G	G	G	G	G	G	G
Hydrogen peroxide 25% ....	L	G	G	P	G	G	G	G
Hydrogen sulfide.....	G	P	G	L	G	N	G	N
Isocyanates.....	N	G	G	G	N	P	N	N
Lead salts (3).....	G	G	G	G	G	N	N	N
Magnesium salts.....	G	G	G	G	G	N	G	N
Mercury.....	G	G	G	G	G	G	N	N
Milk.....	G	G	G	G	G	G	N	G
Mineral Oil.....	G	G	L	G	L	P	G	G
Nitrous Oxide (1).....	G	G	L	G	G	N	N	N
Oxygen (1) .....	G	G	G	G	G	G	G	G
Ozone, ambient .....	G	G	L	G	L	N	N	G
Paint, oil base.....	L	G	L	G	G	N	N	G
Polyglycols.....	G	G	G	G	G	N	N	N
Potassium salts .....	G	G	G	G	G	N	G	N
Pydraul .....	P	P	P	G	N	N	N	N
Pyridine .....	P	L	G	L	G	N	G	N
Salt Water.....	G	G	G	G	G	G	G	G
Silver Nitrate.....	G	G	G	G	G	G	G	N
Skydrol .....	P	P	P	G	N	N	N	N
Soap solution (conc.) .....	G	G	L	G	G	N	G	G
Sodium salts.....	G	G	G	G	G	N	G	G
Sodium thiosulphate.....	G	G	G	G	G	N	G	G
Styrene .....	P	G	P	G	N	N	N	G
Trisodium phosphate.....	G	G	N	G	G	G	N	G
Ucon oil.....	G	G	G	G	N	N	N	N
Urea.....	G	G	G	G	G	N	G	G
Vegetable oils (1) .....	G	G	G	G	G	P	N	G
Water at 730F.....	G	G	G	G	G	G	G	G
Water at 1400F.....	L	G	G	G	G	G	G	G
Water at 1700F.....	P	L	N	L	G	P	N	G
Whiskey, wine (1).....	N	G	G	G	G	G	N	G
Zinc Chloride .....	G	G	G	G	G	G	G	N

ACIDS & BASES	F	U	E	N	P	D	T	U
Acetic, 50% .....	G	P	P	L	G	P	G	G
Boric.....	G	G	G	G	G	G	G	G
Carbolic (phenol) .....	P	P	G	P	G	P	N	N
Fatty .....	G	G	P	G	G	N	G	N
Formic, 90% .....	G	P	G	P	G	G	G	G
Hydrochloric, 10% .....	G	G	G	L	G	G	G	G
Hydrochloric, 25% .....	G	L	G	P	G	L	G	G
Hydrochloric, 50% .....	G	L	G	P	G	L	G	G
Hydrocyanic, 50%.....	L	P	G	P	G	G	G	G
Maleic .....	G	P	G	G	G	N	N	N
Nitric, 10% .....	G	P	G	L	G	L	G	G
Nitric, 30% .....	G	P	G	P	L	L	G	G
Oleic.....	L	G	L	G	G	P	N	N
Phosphoric, 25% .....	G	L	G	G	G	G	N	N
Sulfuric, 30% .....	G	L	G	L	G	L	G	G
Sulfuric, 70% .....	L	P	P	P	G	P	G	G
Sulfuric, 98% .....	P	P	P	P	G	P	G	G
Sulfurous, 30% .....	G	P	G	L	G	N	G	G
Tannic.....	G	P	G	G	G	N	G	G
Ammonium hydroxide, 25% ...	P	G	L	G	G	G	N	N
Potassium hydroxide, 25%. L	G	G	G	G	G	G	G	G
Sodium hydroxide, 50%....	G	G	G	G	G	L	G	G

SOLVENTS:	F	U	E	N	P	D	T	U
Acetone .....	P	P	G	G	L	P	G	G
Benzene.....	P	L	P	G	P	P	G	G
Carbon tetrachloride.....	P	L	L	L	P	P	G	G
Chloroform.....	P	P	P	L	P	P	G	G
Cyclohexanone.....	P	P	P	G	L	P	G	G
Dimethylformamide.....	P	P	L	N	G	N	N	N
Dioxane .....	N	N	P	G	L	N	N	N
Ethyl acetate.....	P	L	G	G	L	P	G	G
Ethyl alcohol (1) .....	L	G	G	L	G	G	G	G
Ethyl ether .....	L	L	G	G	L	P	N	N
Ethylene glycol .....	G	G	G	G	G	G	N	N
Formaldehyde .....	G	G	G	G	L	N	N	N
Freon - 12' .....	L	L	G	G	L	N	G	G
Methyl alcohol .....	L	G	G	L	G	N	N	N
Methylene chloride .....	P	P	L	G	L	P	N	N
Methyl ethyl ketone .....	P	P	G	G	L	P	N	N
Naphthas (2).....	P	G	P	G	L	P	G	G
Tolulene.....	P	G	P	G	L	P	N	N
Triclorethylene.....	P	P	P	L	P	P	G	G
Turpentine .....	G	G	P	G	L	P	G	G
Xylene.....	P	G	P	G	L	P	N	N

HYDRAULIC FLUIDS:	F	U	E	N	P	D	T	U
Diester base grease.....	N	G	P	G	L	P	N	N
Petroleum base grease.....	G	G	L	G	L	P	N	N
Phosphate ester.....	L	P	P	G	G	N	N	N
Polyol ester.....	P	N	P	G	G	N	N	N
Water-glycol.....	G	G	G	G	G	N	N	N
SAE motor oils.....	G	G	G	G	G	N	N	N
Machine oil .....	G	G	L	G	L	N	N	N
MIL-L-7808 H .....	G	G	L	G	G	N	N	N
Brake Fluid.....	N	N	N	N	N	N	N	N



# CONVERSION CHART

INFORMATION

## Conversion chart

Fraction / Decimal / mm

Fraction	Decimal	mm
1/64	0.0156	0.3969
1/32	0.0313	0.7938
3/64	0.0469	1.1906
1/16	0.0625	1.5875
5/64	0.0781	1.9844
3/32	0.0938	2.3813
7/64	0.1094	2.7781
<b>1/8</b>	<b>0.125</b>	<b>3.175</b>
9/64	0.1406	3.5719
5/32	0.1563	3.9688
11/64	0.1719	4.3656
3/16	0.1875	4.7625
13/64	0.2031	5.1594
7/32	0.2188	5.5563
15/64	0.2344	5.9531
<b>1/4</b>	<b>0.25</b>	<b>6.35</b>
17/64	0.2656	6.7469
9/32	0.2813	7.1438
19/64	0.2969	7.5406
5/16	0.3125	7.9375
21/64	0.3281	8.3344
11/32	0.3438	8.7313
23/64	0.3594	9.1281
<b>3/8</b>	<b>0.375</b>	<b>9.525</b>
25/64	0.3906	9.9219
13/32	0.4063	10.3188
27/64	0.4219	10.7156
7/16	0.4375	11.1125
29/64	0.4531	11.5094
15/32	0.4688	11.9063
31/64	0.4844	12.3031
<b>1/2</b>	<b>0.5</b>	<b>12.7</b>

Fraction	Decimal	mm
33/64	0.5156	13.0969
17/32	0.5313	13.4938
35/64	0.5469	13.8906
9/16	0.5625	14.2875
37/64	0.5781	14.6844
19/32	0.5938	15.0813
39/64	0.6094	15.4781
<b>5/8</b>	<b>0.625</b>	<b>15.875</b>
41/64	0.6406	16.2719
21/32	0.6563	16.6688
43/64	0.6719	17.0656
11/16	0.6875	17.4625
45/64	0.7031	17.8594
23/32	0.7188	18.2563
47/64	0.7344	18.6531
<b>3/4</b>	<b>0.75</b>	<b>19.05</b>
49/64	0.7656	19.4469
25/32	0.7813	19.8438
51/64	0.7969	20.2406
13/16	0.8125	20.6375
53/64	0.8281	21.0344
27/32	0.8438	21.4313
55/64	0.8594	21.8281
<b>7/8</b>	<b>0.875</b>	<b>22.225</b>
57/64	0.8906	22.6219
29/32	0.9063	23.0188
59/64	0.9219	23.4156
15/16	0.9375	23.8125
61/64	0.9531	24.2094
31/32	0.9688	24.6063
63/64	0.9844	25.0031
<b>1</b>	<b>1</b>	<b>25.4</b>



	Midland	Parker	Tomco	Amflo	Breco	Milton	Dixon	Hansen	Foster	
<b>Industrial Interchange 1/4</b>	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	
	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	BB2PS3-S	1736-6	DCP2144L		71-3	
	<b>Parker Interchange (Tru-Flate) 1/4</b>	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	DC242L	B21QS-25HP	TF1513	
28532		B10-5BP	A2190	C2-44L	B2JPS3-B	1786-6	DC244L	B21QS-37HP	TF1713	
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-S	784	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	
<b>Aro 210 Interchange 1/4</b>		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	
	28577		302		B02F1-S					
	28578	A3C	300	CP38	B02F2-S	778	DCP38		210-11	
	28595	A8C	400	CP37-42	B02S2-S	777-7	DCP3742			
28597		500		B02S3-S	777-6	DCP3744				
<b>ST Series/High Flow 1/4, 3/8</b>	28667	BST-1M	ST1M	CST1B	1STM1-B				12MS	
	28665	BST-2M	ST2M	CST3B	2STM2-B	1762	STMC2	2-S15	25MS	
	28666	BST-3M	ST3M	CST5B	3STM3-B		STMC3	3-S20	38MS	
	28668	BST-4M	ST4M	CST7B	4STM4-B		STMC4	4-S25	50MS	
	28669	BST-6M	ST6M				STMC6	6-S30	75MS	
	28670	BST-8M	ST8M				STMC8	8-S35	100MS	
	28671	BST-1	ST1	CST2B	1STF1-B				12FS	
	28651	BST-2	ST2	CST4B	2STF2-B	1761	STFC2	2-S16	25FS	
	28652	BST-3	ST3	CST6B	3STF3-B		STFC3	3-S21	38FS	
	28672	BST-4	ST4	CST8B	4STF4-B		STFC4	4-S26	50FS	
	28673	BST-6	ST6				STFC6	6-S31	75FS	
	28674	BST-8	ST8				STFC8	8-S36	100FS	
	28675	ST-N1M	SP1M-S	CPST1	ST1M1-S				12MP	
	28639	ST-N2M	SP2M-S	CPST3	ST2M2-S	1763	STMP2	2-T15	25MP	
	28640	ST-N3M	SP3M-S	CPST5	ST3M3-S		STMP3	3-T20	38MP	
	28676	ST-N4M	SP4M-S	CPST7	ST4M4-S		STMP4	4-T25	50MP	
	28677	ST-N6M	SP6M-S				STMP6	6-T30	75MP	
	28678	ST-N8M	SP8M-S				STMP8	8-T35	100MP	
	28688	ST-N1	SP1-S	CPST2	ST1F1-S					
	28619	ST-N2	SP2-S	CPST4	ST2F2-S	1764	STFP2	2-T16	25FP	
28620	ST-N3	SP3-S	CPST6	ST3F3-S		STFP3	3-T21	38FP		
28679	ST-N4	SP4-S	CPST8	ST4F4-S		STFP4	4-T26	50FP		
28680	ST-N6	SP5-S				STFP6	6-T31	75FP		
28681	ST-N8	SP6-S				STFP8	8-T3	100FP		
<b>Lincoln Interchange 1/4</b>	28682		1102							
	28683	B72	1101	C27	B-2LM2-B	794	DC27		LM3103	
	28684	B73	1100	C28	B2LF2-B	790	DC28		LM3003	
	28685		1106							
	28686	L2C	1109	CP27	B-L2M2-S	791	DCP27		LM10	
	28687	L3C	1110	CP28	B-L2F2-S	792	DCP28		LM11	
	98823	24C	T410	C25-02	B-3CM2-S	1834	DC2502	410	4104	
	98824	24	T430	C25	B-3CM3-S	1836	DC25	430	4304	
	98810	25C	T400	C26-22	B-3CF2-S	1833	DC2622	400	4004	
	98811	25	T420	C26	B-3CF3-S	1835	DC26	420	4204	
	98814	H0E	T40	CP25-02	B-B3M2-S	1839	DCP2502	40	40-4	
	98815	H2E	T42	CP25	B-B3M3-S	1837	DCP25	42	42-4	
	98801	H1E	T41	CP26-22	B-B3F2-S	1840	DCP2622	41	41-4	
98802	H3E	T43	CP26	B-B3F3-S	1838	DCP26	43	43-4		

# STRAIGHTS JIC FLARE 37°

## INFORMATION

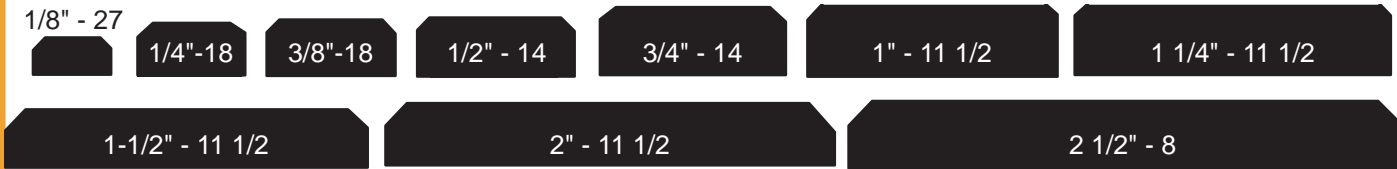
Thread Chart

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	5/8	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																	
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 FLANGE HEAD O.D	M10X1.0		M12x1.5	M14x1.5	M16x1.5	M18x1.5	M20x1.5	M22x1.5	M24x1.5	M26x1.5	M27x2.0	M30x2.0	M33x2.0	M36x2.0	M42x2.0	M48x2.0	
FLANGE HEAD O.D							1.19	1.335	1.50		1.75	2.00	2.38	2.81	3.31	4.00	
FLANGE HEAD O.D							1.25		1.62		1.88	2.12	2.50	3.12			

# THREAD PROFILES

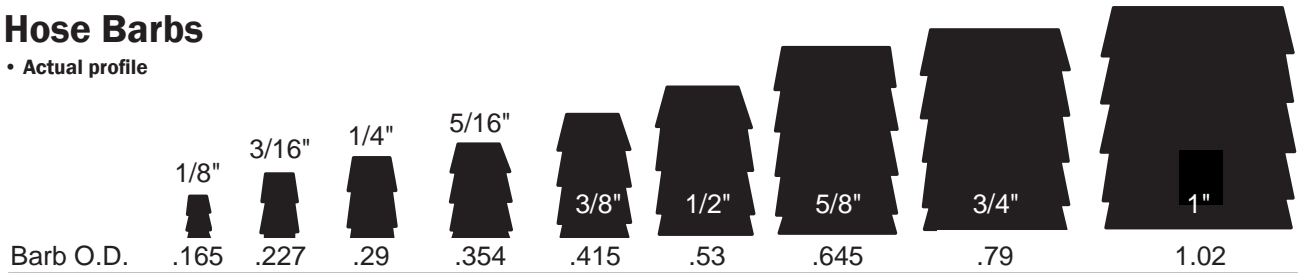
## INFORMATION

### Pipe Threads



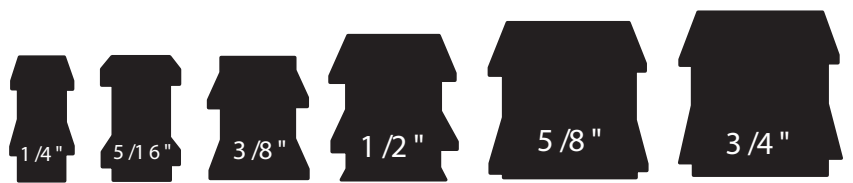
### Hose Barbs

• Actual profile



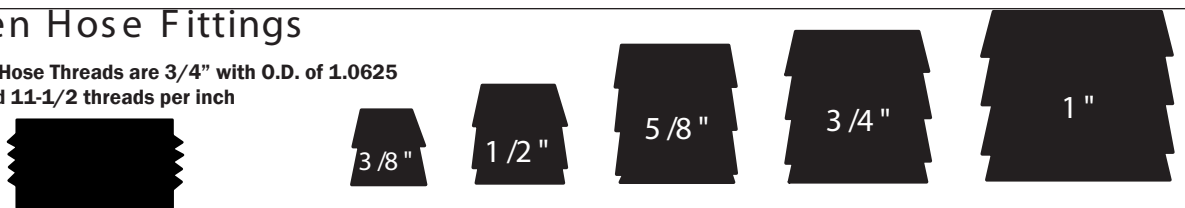
### Push-On Barbs

• Actual profile

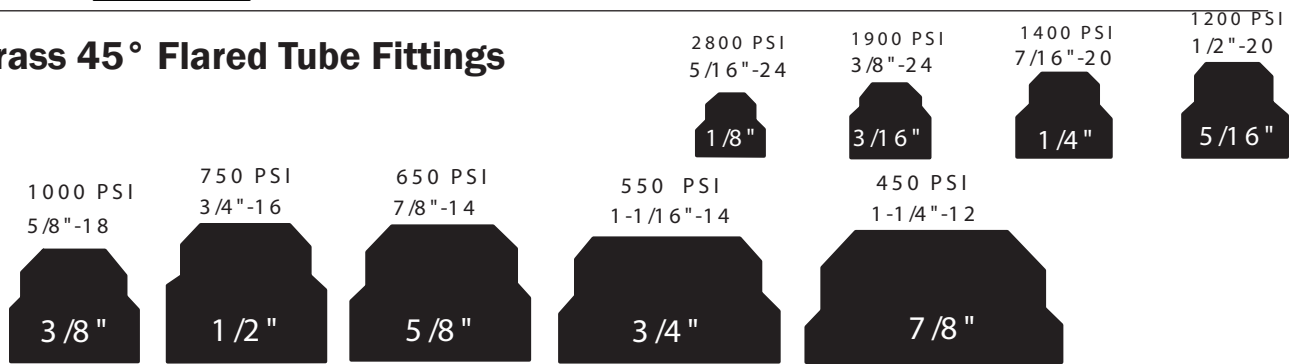


### Garden Hose Fittings

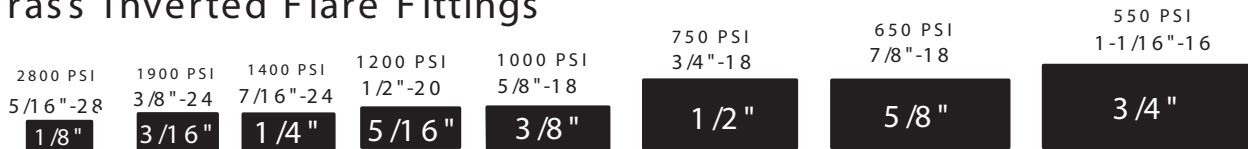
Male Garden Hose Threads are 3/4" with O.D. of 1.0625 and 11-1/2 threads per inch



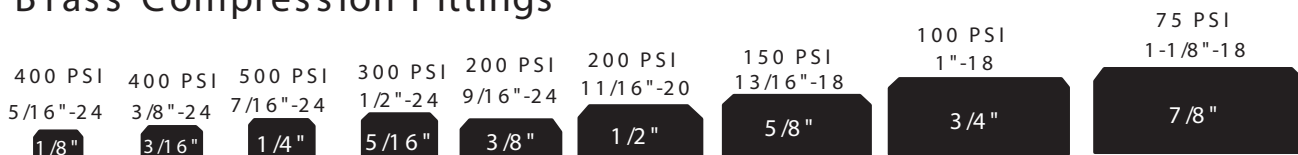
### Brass 45° Flared Tube Fittings



### Brass Inverted Flare Fittings



### Brass Compression Fittings



### Tubing O.D. Size

