



# UNION HYDRAULICS

# PRODUCT CATEGORIES



# 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.

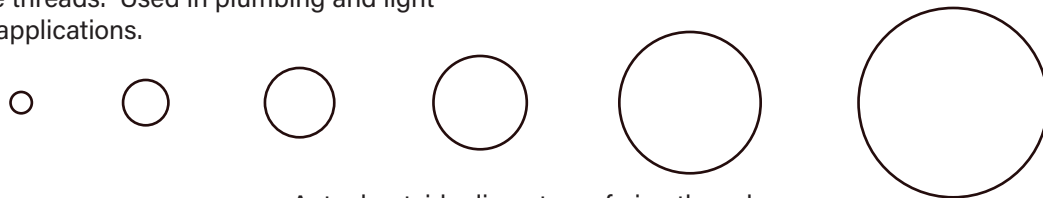
**Conformance:** Meets specifications and standards of ASA, ASME and SAE

- 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



**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

# HOSE BARB FITTINGS



### • Temperature and Working Pressure Ranges

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

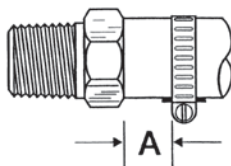
### • Tolerance

+/- .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

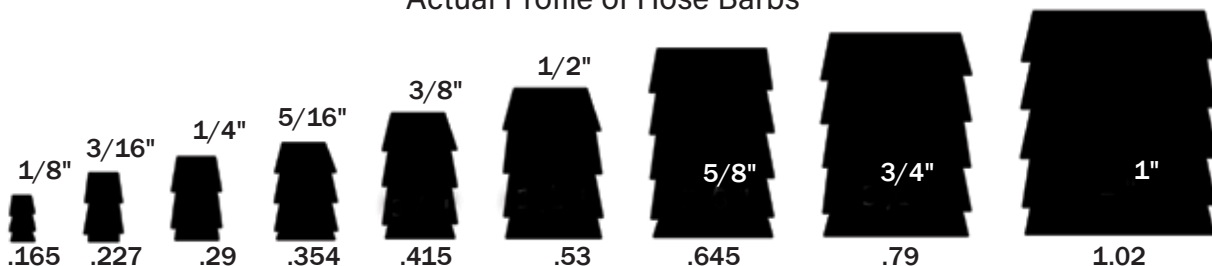


Stainless Steel hose barbs for beverage service available -

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



**PUSH ON HOSE BARB**

BRASS FITTINGS

**PUSH ON BARB FITTINGS**

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

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

**Advantages:** Easy assembly. No clamps needed!!

- **Assembly Instructions**

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

- **Disassembling Instructions**

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

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

Actual Profile of Push On Barbs



# 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



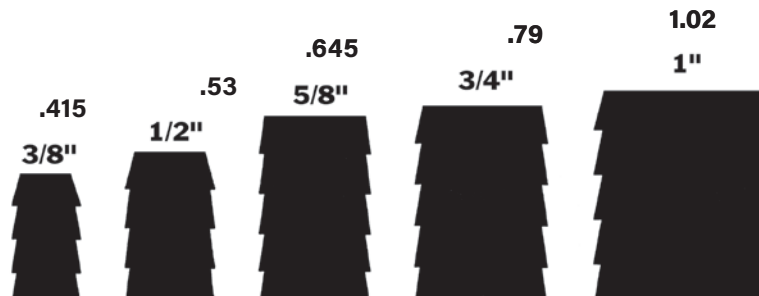
See Plastic section for Plastic Garden Hose Fittings



See page 162 for lead free Garden Hose

Washers included are #30150B black rubber washers.

Actual Profile of Garden Hose Barbs



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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

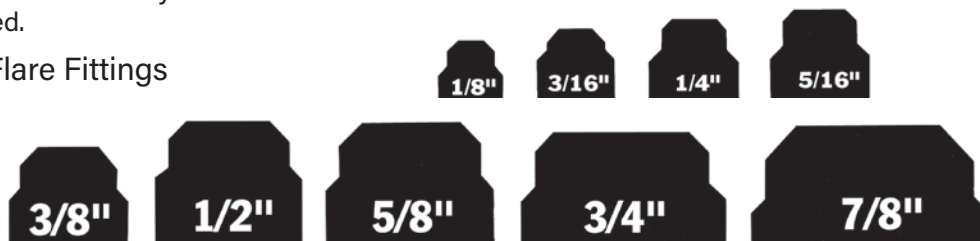
- 1- Cut tubing to desired length. Make sure all burrs are removed and ends are cut square.
- 2- Slide nut on tube. Threaded end "A" of nut must face out.
- 3- Flare end of tube with a 45° flaring tool.
  - a- Measure flare diameter.
  - b- Examine flare for excessive thin out.
- 4- Lubricate threads 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.



• See Lead Free Flare Fittings page 163-164

Actual O.D. of Flare Fittings



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**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"

**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"
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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**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

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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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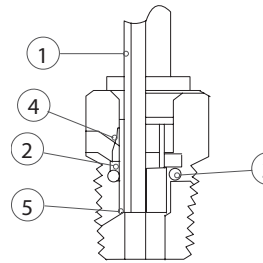
BRASS

**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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**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)


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# 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

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BRASS

## 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 )

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

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

## BRASS FITTINGS

# COMPOSITE BODY DOT AIRBRAKE FITTINGS

### WARNING

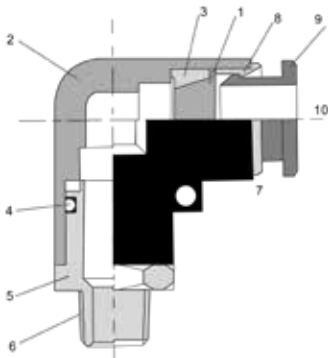
- Composite DOT push-to-connect fittings are designed only for use in applications where air is utilized as an operating fluid.
  - Fittings must be used in accordance with manufacturer and industry specifications.
  - They are not intended for use in environments exceeding 145psi or 140 degrees F.
  - 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

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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**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>

**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

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# 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



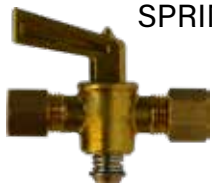
MINI BALL



SOLID BOTTOM SHUT-OFF



CHECK



SPRING BOTTOM SHUT-OFF

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)

# LEAD FREE



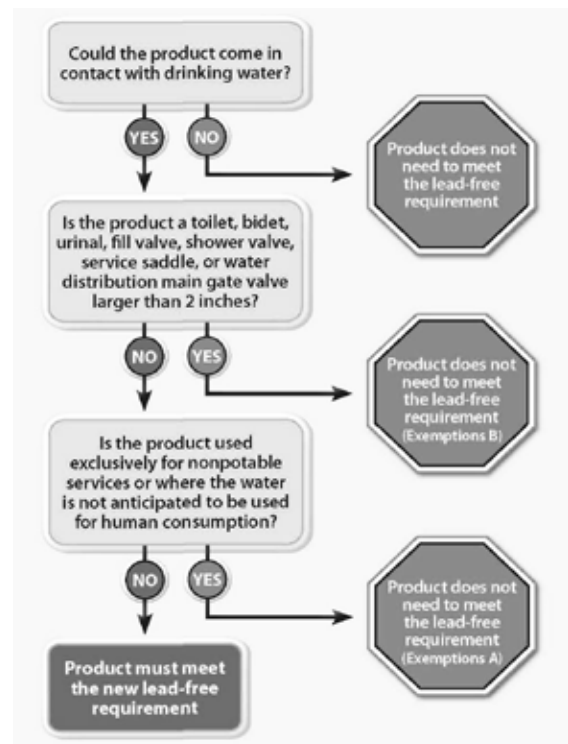
## What is the new lead-free requirement?

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.

**DISPLAY**  
BRASS FITTINGS

**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

For more information, just ask. Bins can be ordered with our without fittings. The Merchandising Kit is the Bins, Labels and headers provided, not the gondola.

FITTINGS ONLY	SIZE	MERCHANDISING KIT	COMPLETE	
<b>FLARE/ COMPRESSION</b>				
97551	Expanded Flare LF	97553	97550	----
97561	Expanded Comp LF	97563	97560	----
97511	Lead Free Compression/ Flare-Basic - LF	97513	97510	----
<b>NIPPLES AND LF CAST FITTINGS</b>				
97436	Stainless Steel Nipples And Fittings	97438	97435	----
97446	Stainless Steel Fittings	97448	97445	----
90636	LF Brass Pipe Nipples - Asst.	90638	90635	----
97646	LF Bronze Fittings - Asst.	97648	97645	
<b>PIPE AND BARB</b>				
97571	Lead Free Pipe And Hose Barb - LF	97573	97570	----
90691	Nylon Fittings	90693	90690	----
97811	Pneumatic Tools Fittings Assortment	97823	97825	----
<b>MARINE</b>				
97817	Marine - Pipe & Barb	97863	97865	----
97818	Marine - Brass Nipples & Bronze Fittings	97873	97875	----
97819	Marine - Nylon	97883	97885	----
97820	Marine - The Big 'Un	97893	97895	
<b>BEVERAGE</b>				
97821	LF Brass & Copper Tubing Beverage Assortment	97903	97905	----
97822	PTC NSF Fittings & Plastic Tubing Beverage Assortment	97913	97915	----
97824	SS Beverage Fittings and Clearbraided Beverage Assortment	97923	97925	----
<b>TRUCK AND AUTO</b>				
97810	Truck & Auto Assortments	97803	97805	----
97812	DOT - Nylon Air Brake Assortment	97833	97835	----
97814	DOT - Brass Push-To-Connect Assortment	97843	97845	----
97816	DOT - Composite Push-To-Connect Assortment	97853	97855	

**VALVES**



VALVES..... 179-225

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

Quick Opening Gate..... 205

Y Strainer ..... 206

Check Valves..... 207-209

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

**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



# NIPPLES

NIPPLES AND FITTINGS

## NIPPLES & FITTINGS



### BRASS & BRONZE..... 240-269

Brass Nipples - Sch 40.....	242-247
C/P Brass Nipples.....	248
Bronze Fittings.....	249-258
Lead Free Bronze Fittings .....	249-258
C/P Fittings.....	259-260
USA LF Bronze Fittings .....	261-265
Extra Heavy USA LF Bronze Fittings	265-266
Bronze Cleanout Plugs .....	267
Bronze Drop Ear Elbows.....	267
Bronze Barbs for PL. Pipe .....	268
Steel Barbs for PL. Pipe .....	268
Lead Free Bronze Barbs for PL. Pipe.....	269
Stainless Steel Barbs for PL. Pipe.....	269
Stainless Steel Well Couplings .....	269
Stainless Steel Merchant Couplings .....	269
STAINLESS STEEL.....	270-283

Stainless Nipples.....	271-275
150# Cast SS Fittings .....	276-283

### BLACK & GALVANIZED .....

284-322	
Sch. 40 Welded Steel Nipples.....	284-292
Sch. 80 Seamless Steel nipple .....	293-298
Sch. XXS Seamless Steel Nipple .....	299
Groove Nipples.....	300-301
Merchant Couplings.....	302
API Line Couplings.....	303
Malleable Fittings.....	304-313
Steel Fittings.....	314-315
300# Malleable .....	316-317
Bull Plugs and Swages .....	318-319
Forged Steel Fanges .....	320-321
Hammer Visions .....	322
Copper Fittings.....	323-329

# 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

- 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

**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)



# 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.

### 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.

### 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

### 316

For severe environments. Of course, there are many industrial processes that require a higher level of resistance to corrosion than Type 304 can offer. For these applications, Type 316 is the answer.

In type 316, the nickel content is increased slightly. What distinguishes Type 316 from Type 304 is the addition of molybdenum up to a maximum of 3%.

Molybdenum increases the corrosion resistance of this chromium-nickel alloy to withstand attack by many industrial chemicals and solvents, and, in particular, inhibits pitting caused by chlorides. As such, molybdenum is one of the single most useful alloying additives in the fight against corrosion.

Type 316 can withstand corrosive attack by sodium and calcium brines, hypochlorite solutions, phosphoric acid; and the sulfite liquors and sulfurous acids used in the paper pulp industry. This alloy, therefore, is specified for industrial equipment that handles the corrosive process chemicals used to produce inks, rayons, photographic chemicals, paper, textiles, bleaches, and rubber. Type 316 is also used extensively for surgical implants within the hostile environment of the body.

Type 316 is the main stainless used in the marine environment, with the exception of fasteners and other items where strength and wear resistance are needed, then Type 304 (18-8) is typically used.

## 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.

#### HIGH PRESSURE 1000# BARSTOCK



### 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.



### 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

**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 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.

**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**

**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)

# 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°	Class	16.3		
		Sizes 1/4-1	Sizes 1 1/4-2	Sizes 2 1/4-3
	PSIG	300#	300#	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.

### STEEL FITTINGS



- 1010 Carbon Steel, 3/4 taper threads ( see hydraulic section for 7/8 taper threads.)
- Finish or coating • Black Dipped in rust resistant
- Galvanized, Zinc Plated (Inside and Out)

### 300lb MALLEABLE FITTINGS



**Max. pressure: 300 psi WOG @ 72°F; 150 psi WOG saturated steam**

- Meet ANSI/ ASME B1.20.1 standards
- Black meet ASTM 197 standards

### BULL PLUGS AND SWAGES



### FLANGES



**WARNING:** This product can expose you to chemicals, including 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)

# COPPER FITTINGS



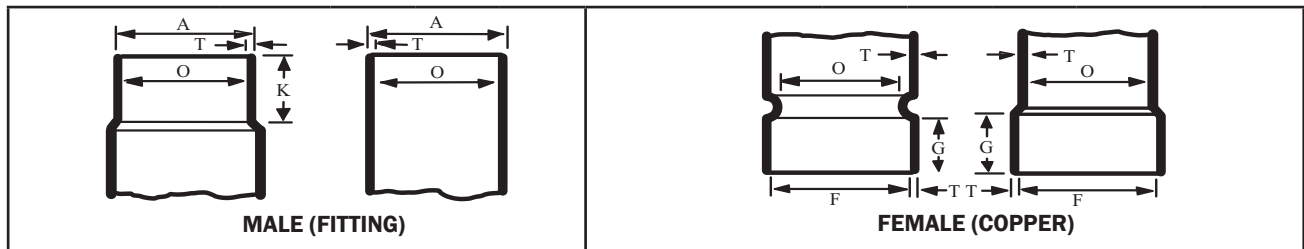
**SYMBOL OF JOINT ENDS**

- 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

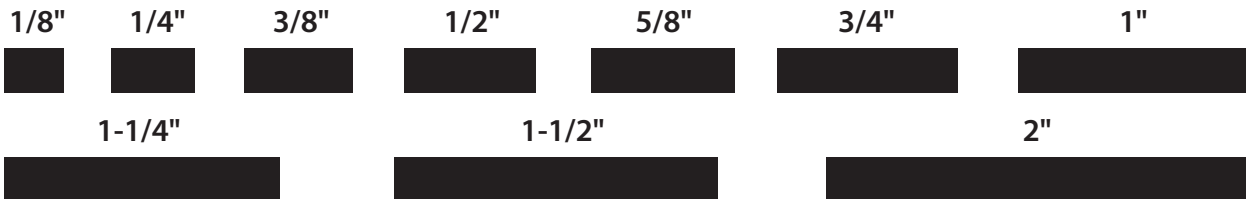
- Temp range 32° to 200°F
- Pressure @100° - 1/8-1 : 500 PSI
- 1-1/4-2 : 400 PSI
- 2-1/2 - 3: 300 PSI

**NSF - 61 CERTIFIED  
ALLOY C12200**

**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



**PLASTIC FITTINGS**



<p><b>SCH 80 PVC NIPPLES</b></p>  <p>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</p>	<p><b>PIPE FITTINGS</b></p>  <ul style="list-style-type: none"> <li>• Nylon</li> <li>• Polyethylene</li> <li>• Polypropylene</li> </ul>	<p><b>HOSE BARB FITTINGS</b></p>  <ul style="list-style-type: none"> <li>• Nylon</li> <li>• Polyethylene</li> <li>• Polypropylene</li> </ul>
<p><b>GARDEN HOSE FITTINGS</b></p>  <ul style="list-style-type: none"> <li>• Nylon</li> </ul>	<p><b>NYLON &amp; POLYPROPYLENE COMPRESSION FITTINGS</b></p>  <p>Machined Schedule 80 PVC nipples comply fully with ASTM D2464,</p>	<p><b>POLYPROPYLENE PUSH-IN TUBE FITTINGS AND VALVES</b></p>  <ul style="list-style-type: none"> <li>• NSF 61 certified for use with drinking (potable) water</li> <li>• Max Temperature: 140°F</li> <li>• Max Pressure: Not Rated</li> </ul>
<p><b>SCH 40 PVC FITTINGS</b></p>  <ul style="list-style-type: none"> <li>• NSF 61 certified for use with drinking (potable) water</li> <li>• Max Temperature: 140°F</li> <li>• Max Pressure: Not Rated</li> </ul> <p>Resistant to corrosion, strong and rigid - commonly used in low pressure plumbing applications. ASTM D1784 and D2466.</p>	<p><b>SCH 80 PVC FITTINGS</b></p>  <p>PVC Material is Type 1 according to the American Society for Testing Materials (ASTM) D-1784. Fittings conform to ASTM D-2464 &amp; 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.</p>	

# HOSE ACCESSORIES



## CAM AND GROOVE



ALUMINIUM



POLYPROPYLENE



STAINLESS STEEL



BRASS

## COMBINATION HOSE NIPPLES



## FIRE HOSE FITTINGS



## UNIVERSAL/ GROUND JOINT COUPLINGS



**HOSE CLAMPS**  
HOSE CLAMPS

**HOSE CLAMPS**



	<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)



**TUBING**

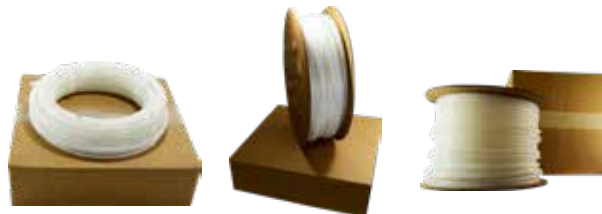


**POLYURETHANE**



**POLYETHYLENE**

Sold individually boxed



Natural, Black, Blue, Green, Red, Yellow, Orange

**NYLON**

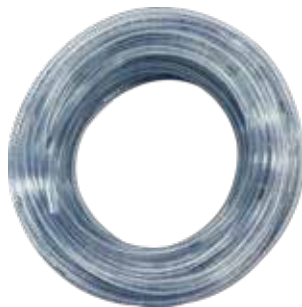
Sold individually boxed



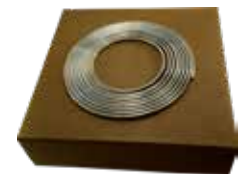
**PVC**

• Clear

Sold individually boxed



**COPPER AND ALUMINUM**



**TYPE L AND REFRIGERATION**

**ALUMINUM**



**HIGH PRESSURE SPRAYER**  
HIGH PRESSURE SPRAYER

**HIGH PRESSURE SPRAYERS**



**STRAIGHT THROUGH QDS**



**FITTINGS AND SWIVELS**



**NOZZLES**



**SPRAY GUNS AND WANDS**



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**PNEUMATICS**

PNEUMATICS

**PNEUMATICS**



**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

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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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**HYDRAULIC ADAPTERS & ACCESSORIES**

STEEL ADAPTERS

HYDRAULIC QUICK  
DISCONNECTSHYDRAULIC VALVES &  
ACCESSORIES**Technical information ... 496****Profile size chart ..... 502**

Steel Pipe Swivels.....	504
37° JIC Flare Straights.....	506
37° JIC Flare Shapes.....	508
Bulkhead Adapters.....	510
Steel Pipe Fittings.....	512
O-Ring Adapters Straight .	517
JIC Swivels.....	519
O-Ring Adapters.....	520
O-Ring Face Seal.....	523
BSPT/ BSPP Adapters.....	527
Metric Adapters.....	529
Flange Adapters.....	536
Stainless Steel Adapters....	540
SS Hose Fittings.....	555

Thread to Connect - Wing	531
ISO A Interchange.....	531
ISO B Interchange.....	531
Flush Face ISO.....	532
VEP Series.....	532
AG Interchange.....	533
Hydraulic Jack Q/D.....	533

Flow Control Valve.....	534
Variable Flow Control.....	535
Air Breathers.....	535

**PLATING SPECIFICATION**

Our 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.

# 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

