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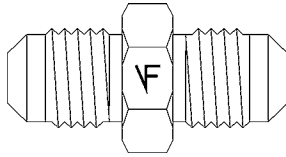
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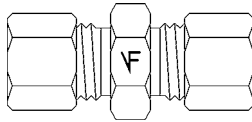
## ***BRASS FITTINGS***

***45° FLARE***



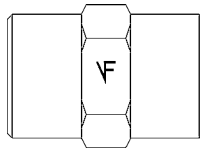
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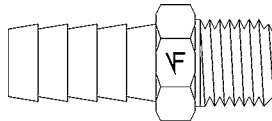
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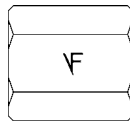
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***HOSE BARBS***



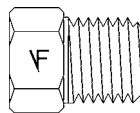
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***INVERTED FLARE***



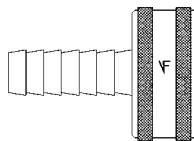
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***THREADED SLEEVE***



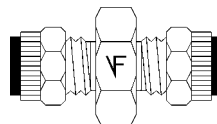
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***GARDEN HOSE***



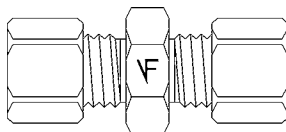
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***VERSA FLO***



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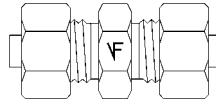
***VIBRA PRUF  
(THERMOPLASTIC)***



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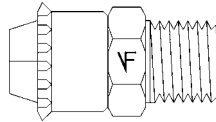
## ***BRASS FITTINGS***

***BRASS COMPRESSION  
FOR POLYTUBING***



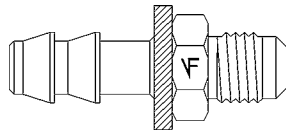
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***POLY PUSH (BLACK NYLON)***



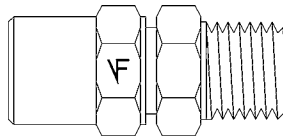
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***LOK-ON HOSE BARBS***



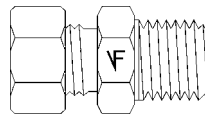
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***REUSEABLE***



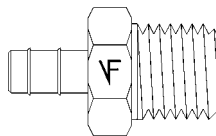
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***PRECISION GRIP***



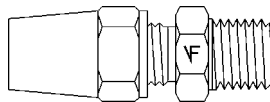
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***BRASS POLY BARBS***



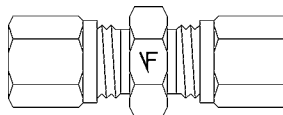
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***AIR BRAKE FOR COPPER***



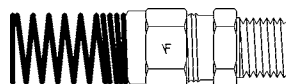
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***AIR BRAKE FOR NYLON***



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***AIR BRAKE HOSE ENDS***



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## MANUFACTURING METHODS FOR BRASS FITTINGS

### **Bar Stock and Extruded Fittings and Nuts**

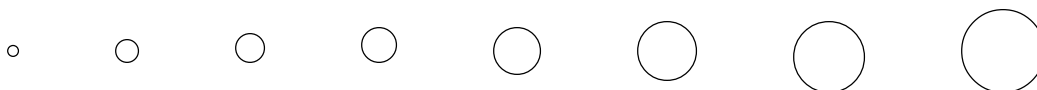
A solid round billet of brass is heated to the pliable state and forced through a die of the appropriate configuration. The resulting continuous length is cooled, then drawn to size through another set of dies. After straightening, the bars are ready for machining. This process produces a dense, nonporous product with a longitudinal grain and large wrench flats that allow for easier installation. All of Versa Fittings straight (screw machine) and extruded shaped bodies are produced from either CA360 or CA345 brass.

### **Forged Fittings and Nuts**

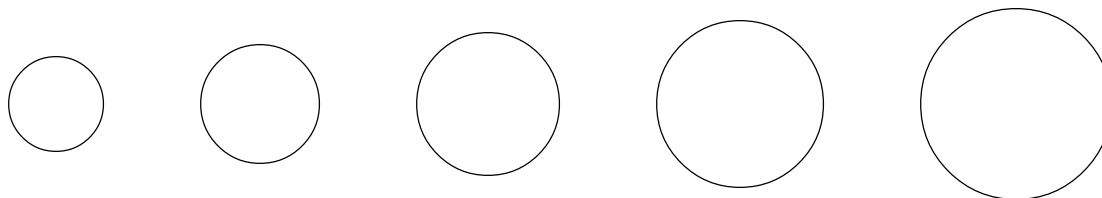
The initial process to produce material for forging is much the same as for extruded bars differing only in temper and chemistry. The bars are then cut into short lengths, reheated and machine pressed between forging dies at approximately 25,000 p.s.i., the flashing is then trimmed and the blank is ready to be machined. This process produces a uniformly dense material with a grain that follows the contours of the fitting and has a high impact resistance. All of Versa Fittings forgings are produced from CA377 brass.

### **ACTUAL OUTSIDE DIAMETER OF TUBING**

FRACTION	1/16 "	1/8 "	5/32 "	3/16 "	1/4 "	5/16 "	3/8 "	7/16 "
DECIMAL	( 0.0625 )	( 0.125 )	( 0.1563 )	( 0.1875 )	( 0.250 )	( 0.3125 )	( 0.375 )	( 0.4375 )
SIZE CODE	-1	-2	-5/32	-3	-4	-5	-6	-7

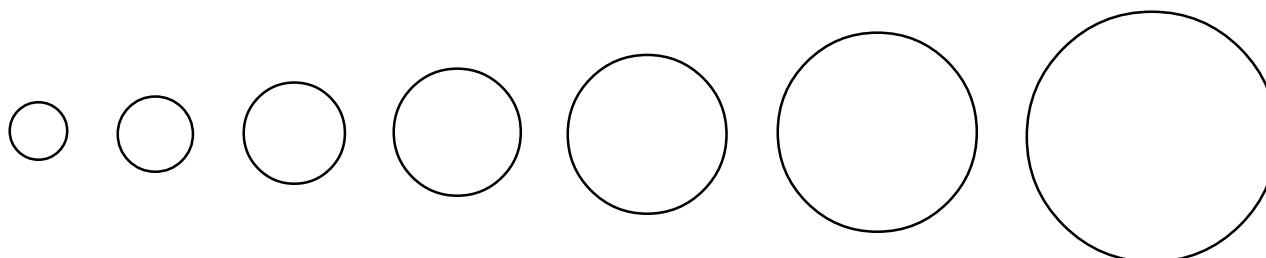


FRACTION	1/2 "	5/8 "	3/4 "	7/8 "	1 "
DECIMAL	( 0.500 )	( 0.625 )	( 0.750 )	( 0.875 )	( 1.000 )
SIZE CODE	-8	-10	-12	-14	-16



### **ACTUAL OUTSIDE DIAMETER OF PIPE**

1/16-27	1/8-27	1/4-18	3/8-18	1/2-14	3/4-14	1-11½
( 0.3125 )	( 0.405 )	( 0.540 )	( 0.675 )	( 0.840 )	( 1.050 )	( 1.315 )
-1	-A	-B	-C	-D	-E	-F



## STRAIGHT THREAD SIZE CHART

<i>Versa Fittings Inc.</i>	<i>Outside Diameter of Tubing</i>										
	<i>1/8</i>	<i>3/16</i>	<i>1/4</i>	<i>5/16</i>	<i>3/8</i>	<i>7/16</i>	<i>1/2</i>	<i>5/8</i>	<i>3/4</i>	<i>7/8</i>	<i>1</i>
<i>SAE 45° Flare</i>	<i>5/16 -24</i>	<i>3/8 -24</i>	<i>7/16 -20</i>	<i>1/2 -20</i>	<i>5/8 -18</i>	<i>11/16 -18</i>	<i>3/4 -16</i>	<i>7/8 -14</i>	<i>1-1/16 -14</i>	<i>1-1/4 -12</i>	<i>1-3/8 -12</i>
<i>Inverted Flare</i>	<i>5/16 -28</i>	<i>3/8 -24</i>	<i>7/16 -24</i>	<i>1/2 -20</i>	<i>5/8 -18</i>	<i>11/16 -18</i>	<i>3/4 -18</i>	<i>7/8 -18</i>	<i>1-1/16 -16</i>		
<i>Standard Compression</i>	<i>5/16 -24</i>	<i>3/8 -24</i>	<i>7/16 -24</i>	<i>1/2 -24</i>	<i>9/16 -24</i>	<i>5/8 -24</i>	<i>11/16 -20</i>	<i>13/16 -18</i>	<i>1 -18</i>	<i>1-1/8 -18</i>	
<i>Versa-Flo</i>	<i>5/16 -24</i>	<i>3/8 -24</i>	<i>3/8 -24</i>	<i>7/16 -24</i>	<i>1/2 -24</i>		<i>11/16 -20</i>				
<i>Air Brake Compression</i>			<i>7/16 -24</i>		<i>17/32 -24</i>		<i>11/16 -20</i>	<i>13/16 -18</i>	<i>1 -18</i>		
<i>JIC 37° Flare</i>	<i>5/16 -24</i>	<i>3/8 -24</i>	<i>7/16 -20</i>	<i>1/2 -20</i>	<i>9/16 -18</i>		<i>3/4 -16</i>	<i>7/8 -14</i>	<i>1-1/16 -12</i>	<i>1-3/16 -12</i>	<i>1-5/16 -12</i>
<i>Threaded Sleeve</i>	<i>5/16 -24</i>	<i>3/8 -24</i>	<i>7/16 -24</i>	<i>1/2 -20</i>	<i>9/16 -20</i>	<i>5/8 -18</i>	<i>11/16 -16</i>	<i>7/8 -18</i>	<i>1 -20</i>		

### FRACTIONAL SIZE CODES FOR HOSE AND TUBING

<i>TUBE SIZE</i>	<i>1/8</i>	<i>5/32</i>	<i>3/16</i>	<i>1/4</i>	<i>5/16</i>	<i>3/8</i>	<i>7/16</i>	<i>1/2</i>	<i>5/8</i>	<i>3/4</i>	<i>7/8</i>	<i>1</i>	
<i>CODE</i>	<i>-2</i>	<i>-5/32</i>	<i>-3</i>	<i>-4</i>	<i>-5</i>	<i>-6</i>	<i>-7</i>	<i>-8</i>	<i>-10</i>	<i>-12</i>	<i>-14</i>	<i>-16</i>	

### FRACTIONAL SIZE CODES FOR PIPE

<i>PIPE SIZE</i>	<i>1/16 -27</i>	<i>1/8 -27</i>	<i>1/4 -18</i>	<i>3/8 -18</i>	<i>1/2 -14</i>	<i>3/4 -14</i>	<i>1 -11½</i>	<i>1¼ -11½</i>	<i>1½ -11½</i>	<i>2 -11½</i>	<i>2½ -8</i>	<i>3 -8</i>	<i>4 -8</i>
<i>CODE</i>	<i>-1</i>	<i>-A</i>	<i>-B</i>	<i>-C</i>	<i>-D</i>	<i>-E</i>	<i>F</i>	<i>-G</i>	<i>-H</i>	<i>-I</i>	<i>-J</i>	<i>-K</i>	<i>-L</i>

## S.A.E. 45° FLARE FOR TUBING

The following procedures and specifications should be met in order to properly flare hard wall tubing such as copper and aluminum, for use with Versa Fittings 45° flare fittings.

### FLARING PROCEDURES

#### 1) Cut tubing with proper tube cutter

To minimize workhardening and burr, use a light feed and make several revolutions.

#### 2) Ream the tubing carefully

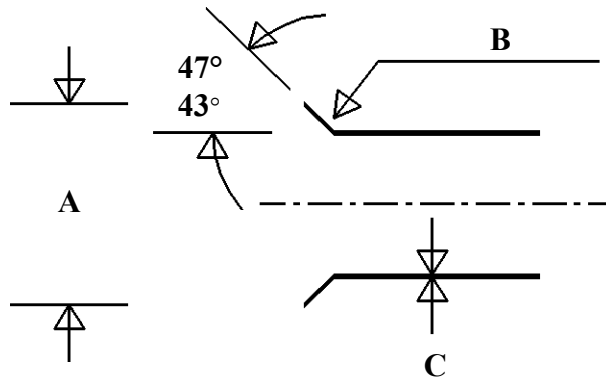
Any burr must be removed to obtain maximum sealing surface. Remove only the burr, not material from the original wall thickness.

#### 3) Flare tubing

Using a compression or generating type flaring tool, follow tool manufacturers instructions.

#### 4) Inspect flare

The flare seat (the inside of the cone) must be smooth. The outside diameter of the flare cone at the largest point, when measured with micrometers should be sized according to the chart below ( dimension " A " ).



Tube Outside Diameter	"A" Single Flare Diameter		"B" Single Flare Radius	"C" Single Flare Wall Thickness
	inches	inches	inches	inches
	Max.	Min.	±0.01	Max.
1/8	0.181	0.171	0.02	0.035
3/16	0.249	0.239	0.02	0.035
1/4	0.325	0.315	0.02	0.049
5/16	0.404	0.388	0.02	0.049
3/8	0.487	0.471	0.02	0.065
7/16	0.561	0.545	0.02	0.065
1/2	0.623	0.607	0.02	0.083
5/8	0.748	0.732	0.02	0.095
3/4	0.916	0.900	0.02	0.109
7/8	1.041	1.025	0.02	0.109

## CHEMICAL RESISTANCE TABLE

FLUID	BRASS	POLYETHYLENE	P.V.C.	NYLON 6/6	NYLON 11
Acetaldehyde	-	L	X	L	L
Acetic Acid (Dilute )	X	G	L	L	L
Acetic Acid ( Conc. )	X	X	L	X	X
Acetic Anhydride	X	X	X	-	X
Acetone	G	L	X	G	L
Acetylene	G	-	-	-	G
Air	G	G	G	G	G
Alcohols ( Amyl )	G	X	G	-	L
Alcohols ( Butyl )	G	-	L	L	X
Alcohols ( Ethyl )	G	X	L	G	L
Alcohols ( Isopropyl )	-	X	G	-	L
Alcohols ( Methyl )	G	X	L	G	L
Aluminum Chloride	X	G	G	L	-
Aluminum Fluoride	X	G	L	L	X
Aluminum Hydroxide	G	G	G	-	-
Aluminum Nitrate	X	-	G	L	-
Aluminum Sulfate	X	G	G	L	G
Alums	X	G	G	L	G
Ammonia ( Gas )	X	G	-	-	G
Ammonia ( Liquid )	X	-	X	G	-
Ammonium Chloride	X	G	G	X	G
Ammonium Hydroxide	X	G	G	G	-
Ammonium Nitrate	X	G	G	-	G
Ammonium Phosphate	X	G	G	-	L
Ammonium Sulphate	X	G	G	-	L
Amyl Acetate	L	X	X	X	G
Aniline	L	X	X	-	X
Aromatic Hydrocarbon	-	-	-	-	L
Barium Chloride	X	G	G	X	G
Barium Hydroxide	L	G	G	-	-
Barium Sulfate	G	G	G	G	-
Barium Sulfide	L	G	G	L	-
Beer	G	G	-	-	G
Beet Sugar Liquors	L	-	-	-	-
Benzaldehyde	-	X	X	-	L
Benzene ( Benzol )	G	X	X	X	X
Benzoic Acid	L	G	X	X	L
Boric Acid	X	G	G	X	-
Bromine	L	X	X	X	X
Butane	G	-	-	-	G
Calcium Acetate	-	-	-	-	-
Calcium Bisulfite	X	-	-	-	-
Calcium Chloride	X	G	G	X	G
Calcium Hydroxide	L	G	G	-	-
Calcium Hypochloride	X	L	L	X	X
Carbon Dioxide ( Dry )	G	G	-	-	G
Carbon Dioxide ( Wet )	L	-	-	-	G
Carbon Disulphide	G	-	X	-	L
Carbon Tetrachloride	L	X	X	G	X
Chlorine ( Dry )	G	X	-	X	X
Chlorine ( Wet )	X	X	-	X	X
Chloroform	G	X	X	L	X
Chromic Acid	X	G	X	X	X
Citric Acid	L	G	G	L	L
Copper Chloride	X	G	G	X	L
Copper Cyanide	X	G	G	-	L
Copper Sulfate	X	G	G	-	L
Cresol	-	X	X	X	X
Cyclohexanol	-	X	X	-	L
Ethers	G	X	X	-	G
Ethyl Acetate	L	X	X	G	G
Ethylene Glycol	L	G	G	G	L

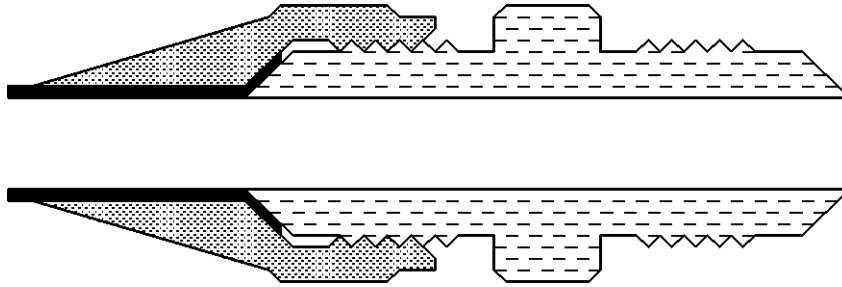
LEGEND G= GOOD L= LIMITED ( USE ONLY AFTER TESTING ) X= UNSATISFACTORY - = DATA NOT AVAILABLE  
 NOTE: all Data is believed to be accurate and reliable, but are presented without guarantee, warranty or responsibility of any kind on our part. These tables are meant as guidelines only. Your chemical manufacturer should be able to provide you with more detailed information for your specific application.

## CHEMICAL RESISTANCE TABLE

FLUID	BRASS	POLYETHYLENE	P.V.C.	NYLON 6/6	NYLON 11
Fatty Acids	-	X	-	-	G
Formaldehyde	L	G	G	G	L
Freons	G	-	-	G	G
Fruit Juices	X	-	-	-	-
Gasoline ( refined )	G	X	-	-	G
Glucose	G	-	-	-	G
Glycerine	G	G	G	-	L
Hydrochloric Acid	X	G	G	X	L
Hydrogen Peroxide	X	L	G	X	L
Iodine	-	X	X	-	-
Kerosene	G	-	-	-	G
Lactic Acid	L	G	L	G	G
Linseed Oil	L	X	-	G	G
Lubricating Oil	G	X	-	-	G
Mercuric Chloride	X	G	X	-	-
Mercury	X	G	-	-	G
Methane	G	X	-	-	G
Methyl Bromide	G	X	X	-	L
Methyl Chloride	G	X	X	-	L
Methyl Ethyl Ketone	L	X	X	-	L
Methyl Isobutyl Ketone	-	X	X	G	L
Methyl Isopropyl Ketone	L	-	-	-	L
Milk	L	-	-	-	-
Mineral Oil	G	X	L	-	G
Naptha	L	L	-	L	L
Napthalene	L	-	X	-	-
Nitric Acid	X	L	L	X	X
Olaic Acid	L	X	G	-	L
Oxalic Acid	L	G	G	-	L
Oxygen	G	G	G	-	G
Ozone	-	X	-	-	X
Paper Mill Liquors	-	G	-	-	-
Petroleum Oils	G	-	-	-	G
Phenol	-	L	X	X	X
Phosphoric Acid	X	L	G	X	L
Potassium Chloride	X	G	G	G	G
Potassium Cyanide	X	-	G	-	-
Potassium Dichromate	X	G	G	-	X
Potassium Hydroxide	L	G	G	L	-
Potassium Permanganate	-	G	G	X	X
Potassium Sulfate	L	G	G	-	G
Propane	G	-	-	-	G
Silver Nitrate	X	G	-	-	G
Soap Solutions	L	-	-	-	G
Sodium Bicarbonate	L	G	G	G	-
Sodium Bisulfate	X	G	G	-	-
Sodium Bisulfite	X	G	G	-	-
Sodium Borate	-	-	G	-	-
Sodium Chloride	X	G	G	G	G
Sodium Hydroxide	L	G	L	L	L
Sodium Nitrate	L	G	G	G	-
Sulfur Dioxide	X	G	L	X	-
Sulfuric Acid	X	L	L	X	L
Tannic Acid	L	G	G	-	-
Trichlorethylene	G	X	X	-	X
Turpentine	L	-	-	-	G
Uric Acid	-	-	-	-	-
Vinegar	X	-	G	-	G
Water	L	G	G	-	G
Xylene	G	-	X	G	L
Zinc Chloride	X	-	G	-	L
Zinc Sulfate	X	-	G	-	-

LEGEND G= GOOD L= LIMITED ( USE ONLY AFTER TESTING ) X= UNSATISFACTORY - = DATA NOT AVAILABLE  
 NOTE: all Data is believed to be accurate and reliable, but are presented without guarantee, warranty or responsibility of any kind on our part. These tables are meant as guidelines only. Your chemical manufacturer should be able to provide you with more detailed information for your specific application.

## 45° FLARE FITTINGS



### ***Characteristics***

Flare fittings can be assembled and disassembled repeatedly, are resistant to mechanical pullout and have good resistance to vibration if used with a long nut.

### ***Applications***

Used with copper, brass, aluminum and any welded steel hydraulic tubing that can be flared. This series of fittings was designed especially for hard to hold liquids and gases.

### ***Temperature Range***

From -65° to + 250° F

### ***Working Pressures***

The table to the right shows maximum recommended working pressures at 72°F, using seamless copper tubing ASTM-B-75 ( 30,000 P.S.I. tensile strength ). This table is intended to be used as a guide only.

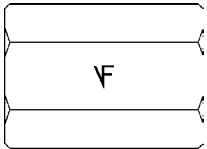
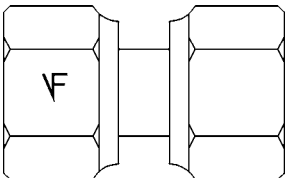
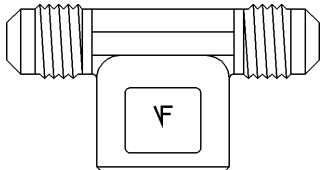
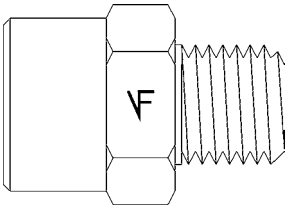
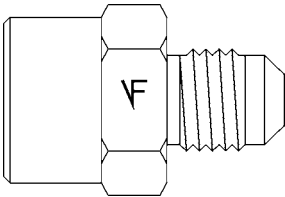
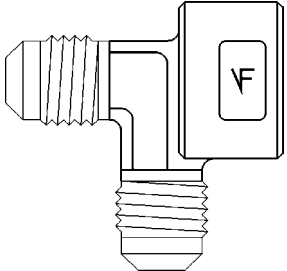
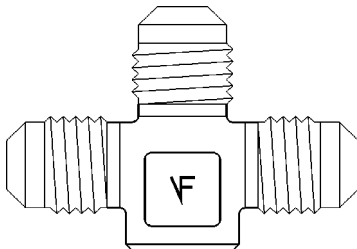
**Working Pressure Ranges**

<i>Tube Outside Diameter</i>	<i>Tube Wall Thickness</i>	<i>Maximum Working Pressure</i>
<i>inches</i>	<i>inches</i>	<i>P.S.I.</i>
1/8	0.030	2,800
3/16	0.030	1,900
1/4	0.030	1,400
5/16	0.032	1,200
3/8	0.032	1,000
1/2	0.032	750
5/8	0.035	650
3/4	0.035	550
7/8	0.035	450

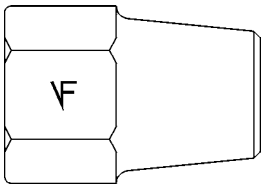
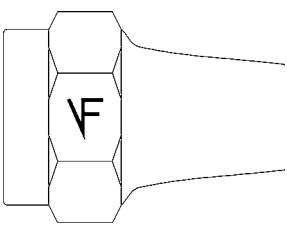
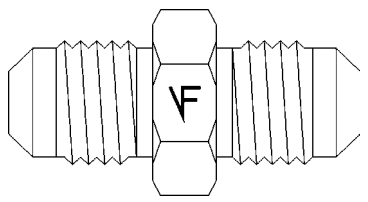
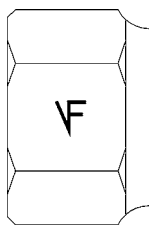
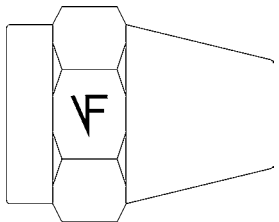
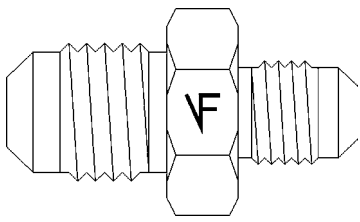
### ***Assembly Instructions***

- 1) Cut tubing squarely and remove any burrs
- 2) Place flare nut on tubing ensuring that the threaded end of the nut is facing toward the end of the tube.
- 3) Flare the end of the tube with a flaring tool that will produce a 45° flare, follow tool manufacturers instructions and refer to chart on page 3 for proper finished dimensions.
- 4) Clamp the flared tubing between the nut and the nose of the fitting body and screw the nut on finger tight.
- 5) Tighten assembly with a wrench until a solid feeling is encountered. From that point, apply a 1/6 ( 60° ) turn.

## 45° FLARE FITTINGS

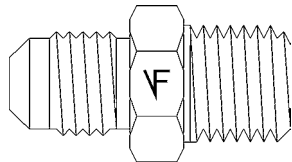
<b>Female Union (tube both ends)</b>			<b>Swivel Union (tube both ends)</b>			<b>Female Branch Tee (tube x female pipe)</b>		
								
<i>Part No</i>	<i>Tube</i>		<i>Part No</i>	<i>Tube</i>		<i>Part No</i>	<i>Tube</i> <i>Pipe</i>	
32-4	1/4		34-4	1/4		36-4A	1/4	1/8
32-6	3/8		34-5	5/16		36-4B	1/4	1/4
32-8	1/2		34-6	3/8		36-6B	3/8	1/4
			34-8	1/2		36-6C	3/8	3/8
			34-10	5/8		36-6D	3/8	1/2
			34-12	3/4		36-8C	1/2	3/8
						36-8D	1/2	1/2
<b>Female Connector (tube x male pipe)</b>			<b>Reducer (tube both ends)</b>			<b>Female Run Tee (tube x female pipe)</b>		
								
<i>Part No</i>	<i>Tube</i> <i>Pipe</i>		<i>Part No</i>	<i>Female</i> <i>Male</i>		<i>Part No</i>	<i>Tube</i> <i>Pipe</i>	
33-4A	1/4	1/8	35-4-3	1/4	3/16	37-6C	3/8	3/8
33-4B	1/4	1/4	35-4-5	1/4	5/16	37-6D	3/8	1/2
33-6B	3/8	1/4	35-4-6	1/4	3/8			
33-6C	3/8	3/8	35-4-8	1/4	1/2			
33-8C	1/2	3/8	35-5-4	5/16	1/4			
			35-6-4	3/8	1/4			
			35-6-5	3/8	5/16			
			35-6-8	3/8	1/2			
			35-8-4	1/2	1/4			
			35-8-6	1/2	3/8			
			35-8-10	1/2	5/8			
			35-10-6	5/8	3/8			
			35-10-8	5/8	1/2			
			35-10-12	5/8	3/4			
			35-12-10	3/4	5/8			
<b>Female Cross (tube x female pipe)</b>								
<i>Part No</i>	<i>Tube</i> <i>Pipe</i>					<i>Part No</i>	<i>Tube</i> <i>Pipe</i>	
38-6C	3/8	3/8				38-6C	3/8	3/8
38-6D	3/8	1/2				38-6D	3/8	1/2
38-8D	1/2	1/2				38-8D	1/2	1/2

## 45° FLARE FITTINGS

<b>Long Forged Nut</b>			<b>Long Extruded Nut</b>			<b>Union (tube both ends)</b>		
								
<i>Part No</i>	<i>Tube</i>		<i>Part No</i>	<i>Tube</i>		<i>Part No</i>	<i>Tube</i>	
39-4	1/4		41-2	1/8		42-2	1/8	
39-5	5/16		41-3	3/16		42-3	3/16	
39-6	3/8		41-4	1/4		42-4	1/4	
39-8	1/2		41-5	5/16		42-5	5/16	
39-10	5/8		41-6	3/8		42-6	3/8	
39-12	3/4		41-7	7/16		42-7	7/16	
<b>Short Forged Nut</b>			<b>Short Extruded Nut</b>			<b>Reducing Union (tube x tube)</b>		
								
<i>Part No</i>	<i>Tube</i>		<i>Part No</i>	<i>Tube</i>		<i>Part No</i>	<i>Tube</i>	<i>Tube</i>
40-3	3/16		41S-2	1/8		42-4-3	1/4	3/16
40-4	1/4		41S-3	3/16		42-5-4	5/16	1/4
40-5	5/16		41S-4	1/4		42-6-4	3/8	1/4
40-6	3/8		41S-5	5/16		42-6-5	3/8	5/16
40-8	1/2		41S-6	3/8		42-8-4	1/2	1/4
40-10	5/8		41S-7	7/16		42-8-6	1/2	3/8
40-12	3/4		41S-8	1/2		42-10-6	5/8	3/8
40-14	7/8		41S-10	5/8		42-10-8	5/8	1/2
<b>Short Forged Nut (reducing)</b>			41S-12	3/4		42-12-8	3/4	1/2
<i>Part No</i>	<i>Tube</i>	<i>Tube</i>	41S-14	7/8		42-12-10	3/4	5/8
40-4-3	1/4	3/16						
40-5-4	5/16	1/4						
40-6-4	3/8	1/4						
40-6-5	3/8	5/16						
40-8-6	1/2	3/8						
40-10-6	5/8	3/8						
40-10-8	5/8	1/2						
40-12-8	3/4	1/2						

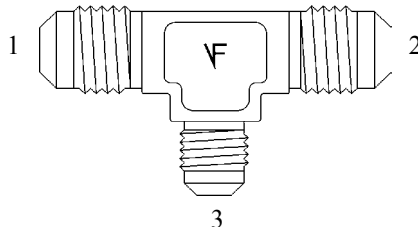
## 45° FLARE FITTINGS

**Ball Check Connector  
( tube x male pipe )  
( gravity feed )**



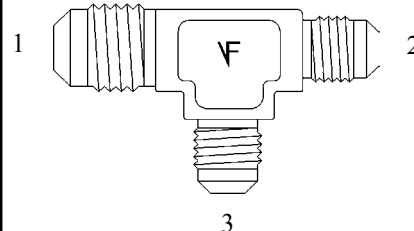
Part No	Tube	Pipe
43-4A	1/4	1/8
43-6B	3/8	1/4

**Union Tee  
( reducing or increasing on branch )**



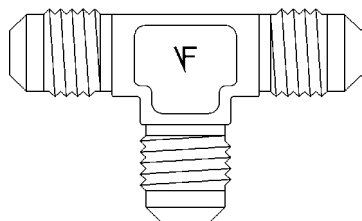
Part No	Tube Size		
	1	2	3
44-4-6	1/4	1/4	3/8
44-6-4	3/8	3/8	1/4
44-6-8	3/8	3/8	1/2
44-6-10	3/8	3/8	5/8
44-8-4	1/2	1/2	1/4
44-8-6	1/2	1/2	3/8
44-8-10	1/2	1/2	5/8
44-8-12	1/2	1/2	3/4
44-10-6	5/8	5/8	3/8
44-10-8	5/8	5/8	1/2
44-12-8	3/4	3/4	1/2
44-12-10	3/4	3/4	5/8

**Union Tee  
( reducing on run and branch )**



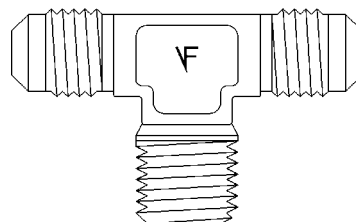
Part No	Tube Size		
	1	2	3
44-6-4-4	3/8	1/4	1/4
44-8-6-6	1/2	3/8	3/8

**Union Tee  
( tube all ends )**



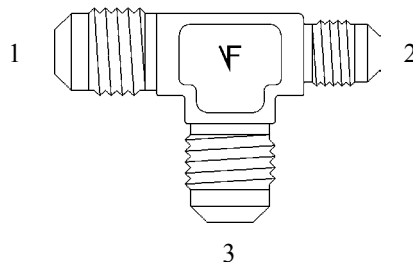
Part No	Tube
44-2	1/8
44-3	3/16
44-4	1/4
44-5	5/16
44-6	3/8
44-8	1/2
44-10	5/8
44-12	3/4

**Male Branch Tee  
( tube x male pipe )**



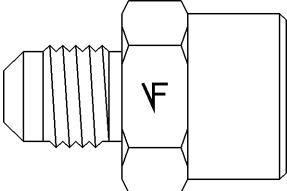
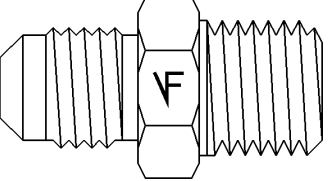
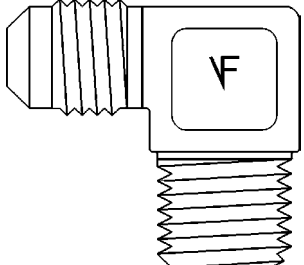
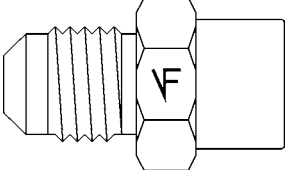
Part No	Tube	Pipe
45-2A	1/8	1/8
45-3A	3/16	1/8
45-4A	1/4	1/8
45-4B	1/4	1/4
45-4C	1/4	3/8
45-4D	1/4	1/2
45-5A	5/16	1/8
45-5B	5/16	1/4
45-6B	3/8	1/4
45-6C	3/8	3/8
45-6D	3/8	1/2
45-8B	1/2	1/4
45-8C	1/2	3/8
45-8D	1/2	1/2
45-8E	1/2	3/4
45-10C	5/8	3/8
45-10D	5/8	1/2
45-12D	3/4	1/2
45-12E	3/4	3/4

**Union Tee  
( reducing or increasing on run )**



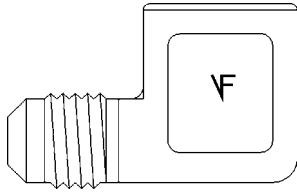
Part No	Tube Size		
	1	2	3
44-6-4-6	3/8	1/4	3/8
44-8-4-8	1/2	1/4	1/2
44-8-6-8	1/2	3/8	1/2

## 45° FLARE FITTINGS

<i>Female Connector ( tube x female pipe )</i>			<i>Male Connector ( tube x male pipe )</i>			<i>90° Male Elbow ( tube x male pipe )</i>		
								
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
46-2A	1/8	1/8	48-2A	1/8	1/8	49-2A	1/8	1/8
46-3A	3/16	1/8	48-3A	3/16	1/8	49-3A	3/16	1/8
46-3B	3/16	1/4	48-3B	3/16	1/4	49-3B	3/16	1/4
46-4A	1/4	1/8	48-4A	1/4	1/8	49-4A	1/4	1/8
46-4B	1/4	1/4	48-4B	1/4	1/4	49-4B	1/4	1/4
46-4C	1/4	3/8	48-4C	1/4	3/8	49-4C	1/4	3/8
46-4D	1/4	1/2	48-4D	1/4	1/2	49-4D	1/4	1/2
46-5A	5/16	1/8	48-5A	5/16	1/8	49-5A	5/16	1/8
46-5B	5/16	1/4	48-5B	5/16	1/4	49-5B	5/16	1/4
46-5C	5/16	3/8	48-5C	5/16	3/8	49-5C	5/16	3/8
46-6A	3/8	1/8	48-6A	3/8	1/8	49-6A	3/8	1/8
46-6B	3/8	1/4	48-6B	3/8	1/4	49-6B	3/8	1/4
46-6C	3/8	3/8	48-6C	3/8	3/8	49-6C	3/8	3/8
46-6D	3/8	1/2	48-6D	3/8	1/2	49-6D	3/8	1/2
46-6E	3/8	3/4	48-6E	3/8	3/4	49-6E	3/8	3/4
46-8B	1/2	1/4	48-7B	7/16	1/4	49-6C	3/8	3/8
46-8C	1/2	3/8	48-8B	1/2	1/4	49-6D	3/8	1/2
46-8D	1/2	1/2	48-8C	1/2	3/8	49-6E	3/8	3/4
46-8E	1/2	3/4	48-8D	1/2	1/2	49-8B	1/2	1/4
46-10C	5/8	3/8	48-8E	1/2	3/4	49-8C	1/2	3/8
46-10D	5/8	1/2	48-10B	5/8	1/4	49-8D	1/2	1/2
46-10E	5/8	3/4	48-10C	5/8	3/8	49-8E	1/2	3/4
46-12D	3/4	1/2	48-10D	5/8	1/2	49-10C	5/8	3/8
46-12E	3/4	3/4	48-10E	5/8	3/4	49-10D	5/8	1/2
46-14E	7/8	3/4	48-12D	3/4	1/2	49-10E	5/8	3/4
			48-12E	3/4	3/4	49-12D	3/4	1/2
			48-14D	7/8	1/2	49-12E	3/4	3/4
			48-14E	7/8	3/4	49-14E	7/8	3/4
			48-16D	1	1/2	49-16E	1	3/4
			48-16E	1	3/4	49-16F	1	1
			48-16F	1	1			
<i>Solder Connector ( tube x tube )</i>			<b>Please Note:</b> <i>Flare fittings do not come assembled complete with flare nuts. Please order separately.</i>					
			<i>Some J.I.C. 37° flare fittings are available from stock, inquiries may be placed through the order desk.</i>					
<i>Part No</i>	<i>Tube</i>	<i>Tube</i>	<i>Many products can be manufactured to your specifications, please provide either a print or sample and your quantity requirements for pricing.</i>					
48S-4-4	1/4	1/4						
48S-6-6	3/8	3/8						
48S-8-8	1/2	1/2						

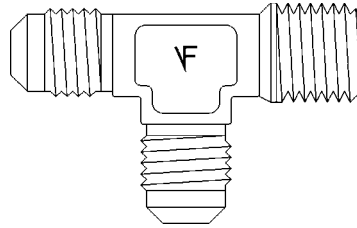
## 45° FLARE FITTINGS

**90° Female Elbow**  
( tube to female pipe )



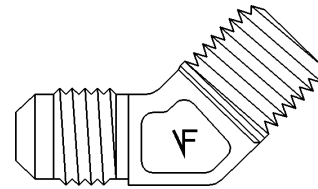
Part No	Tube	Pipe
50-3A	3/16	1/8
50-4A	1/4	1/8
50-4B	1/4	1/4
50-4C	1/4	3/8
50-5A	5/16	1/8
50-5B	5/16	1/4
50-6A	3/8	1/8
50-6B	3/8	1/4
50-6C	3/8	3/8
50-6D	3/8	1/2
50-6E	3/8	3/4
50-8B	1/2	1/4
50-8C	1/2	3/8
50-8D	1/2	1/2
50-8E	1/2	3/4
50-10C	5/8	3/8
50-10D	5/8	1/2
50-10E	5/8	3/4
50-12D	3/4	1/2
50-12E	3/4	3/4
50-14E	7/8	3/4

**Male Run Tee**  
( tube x male pipe x tube )



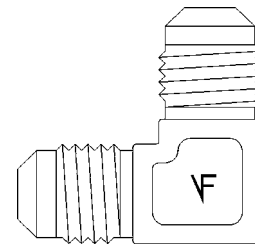
Part No	Tube	Pipe
51-3A	3/16	1/8
51-4A	1/4	1/8
51-4B	1/4	1/4
51-4C	1/4	3/8
51-5A	5/16	1/8
51-5B	5/16	1/4
51-6A	3/8	1/8
51-6B	3/8	1/4
51-6C	3/8	3/8
51-6D	3/8	1/2
51-8B	1/2	1/4
51-8C	1/2	3/8
51-8D	1/2	1/2
51-10C	5/8	3/8
51-10D	5/8	1/2
51-10E	5/8	3/4
51-12D	3/4	1/2
51-12E	3/4	3/4

**45° Male Elbow**  
( tube x male pipe )



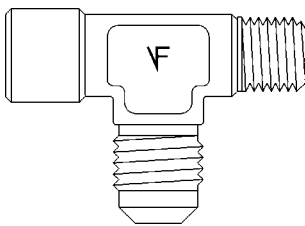
Part No	Tube	Pipe
54-3A	3/16	1/8
54-4A	1/4	1/8
54-4B	1/4	1/4
54-4C	1/4	3/8
54-5A	5/16	1/8
54-5B	5/16	1/4
54-6B	3/8	1/4
54-6C	3/8	3/8
54-6D	3/8	1/2
54-8C	1/2	3/8
54-8D	1/2	1/2
54-10C	5/8	3/8
54-10D	5/8	1/2
54-12D	3/4	1/2
54-12E	3/4	3/4

**90° Union Elbow**  
( tube both ends )



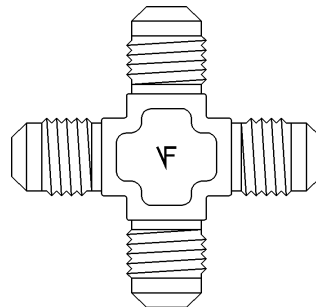
Part No	Tube
55-2	1/8
55-3	3/16
55-4	1/4
55-5	5/16
55-6	3/8
55-8	1/2
55-10	5/8
55-12	3/4
55-14	7/8

**Street Tee**  
( female pipe x male pipe x tube )



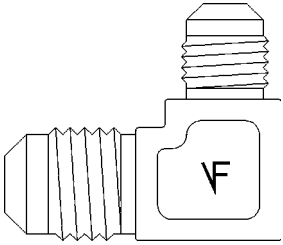
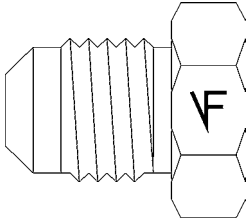
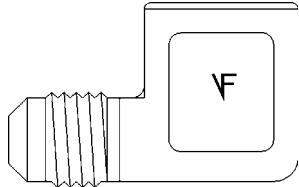
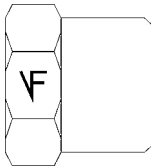

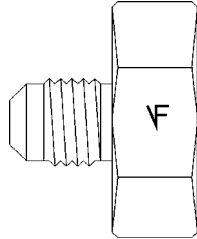
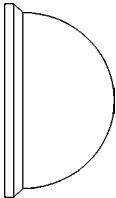
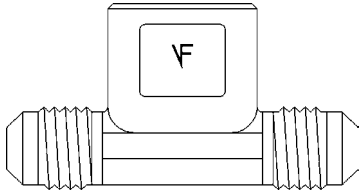
Part No	Tube	Pipe
53-4A	1/4	1/8
53-4B	1/4	1/4
53-6B	3/8	1/4

**Cross**  
( tube all ends )

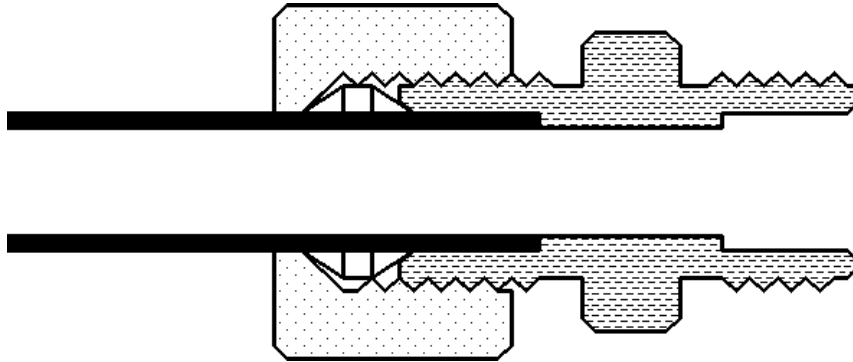


Part No	Tube
52-4	1/4
52-5	5/16
52-6	3/8
52-8	1/2
52-10	5/8

## 45° FLARE FITTINGS

<p style="text-align: center;"><b>90° Reducing Elbow ( tube both ends )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>55-6-4</td><td>3/8</td><td>1/4</td></tr> <tr><td>55-6-5</td><td>3/8</td><td>5/16</td></tr> <tr><td>55-8-4</td><td>1/2</td><td>1/4</td></tr> <tr><td>55-8-6</td><td>1/2</td><td>3/8</td></tr> <tr><td>55-10-6</td><td>5/8</td><td>3/8</td></tr> <tr><td>55-12-8</td><td>3/4</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	Tube	55-6-4	3/8	1/4	55-6-5	3/8	5/16	55-8-4	1/2	1/4	55-8-6	1/2	3/8	55-10-6	5/8	3/8	55-12-8	3/4	1/2	<p style="text-align: center;"><b>Sealing Plug</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>58-3</td><td>3/16</td></tr> <tr><td>58-4</td><td>1/4</td></tr> <tr><td>58-5</td><td>5/16</td></tr> <tr><td>58-6</td><td>3/8</td></tr> <tr><td>58-8</td><td>1/2</td></tr> <tr><td>58-10</td><td>5/8</td></tr> <tr><td>58-12</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	58-3	3/16	58-4	1/4	58-5	5/16	58-6	3/8	58-8	1/2	58-10	5/8	58-12	3/4	<p style="text-align: center;"><b>90° Elbow ( tube both ends )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Female</th> <th style="text-align: left;">Male</th> </tr> </thead> <tbody> <tr><td>E4-4-4</td><td>1/4</td><td>1/4</td></tr> <tr><td>E4-6-6</td><td>3/8</td><td>3/8</td></tr> <tr><td>E4-8-8</td><td>1/2</td><td>1/2</td></tr> </tbody> </table>	Part No	Female	Male	E4-4-4	1/4	1/4	E4-6-6	3/8	3/8	E4-8-8	1/2	1/2
Part No	Tube	Tube																																																	
55-6-4	3/8	1/4																																																	
55-6-5	3/8	5/16																																																	
55-8-4	1/2	1/4																																																	
55-8-6	1/2	3/8																																																	
55-10-6	5/8	3/8																																																	
55-12-8	3/4	1/2																																																	
Part No	Tube																																																		
58-3	3/16																																																		
58-4	1/4																																																		
58-5	5/16																																																		
58-6	3/8																																																		
58-8	1/2																																																		
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58-12	3/4																																																		
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E4-4-4	1/4	1/4																																																	
E4-6-6	3/8	3/8																																																	
E4-8-8	1/2	1/2																																																	
<p style="text-align: center;"><b>Cap</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>56-3</td><td>3/16</td></tr> <tr><td>56-4</td><td>1/4</td></tr> <tr><td>56-5</td><td>5/16</td></tr> <tr><td>56-6</td><td>3/8</td></tr> <tr><td>56-8</td><td>1/2</td></tr> <tr><td>56-10</td><td>5/8</td></tr> <tr><td>56-12</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	56-3	3/16	56-4	1/4	56-5	5/16	56-6	3/8	56-8	1/2	56-10	5/8	56-12	3/4	<p style="text-align: center;"><b>Gasket ( copper )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>59-3</td><td>3/16</td></tr> <tr><td>59-4</td><td>1/4</td></tr> <tr><td>59-5</td><td>5/16</td></tr> <tr><td>59-6</td><td>3/8</td></tr> <tr><td>59-8</td><td>1/2</td></tr> <tr><td>59-10</td><td>5/8</td></tr> <tr><td>59-12</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	59-3	3/16	59-4	1/4	59-5	5/16	59-6	3/8	59-8	1/2	59-10	5/8	59-12	3/4	<p style="text-align: center;"><b>Refrigerant Drum Adaptor ( tube x female pipe )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>K1-4D</td><td>1/4</td><td>1/2</td></tr> <tr><td>K1-4E</td><td>1/4</td><td>3/4</td></tr> <tr><td>K1-6E</td><td>3/8</td><td>3/4</td></tr> <tr><td>K1-8E</td><td>1/2</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	Pipe	K1-4D	1/4	1/2	K1-4E	1/4	3/4	K1-6E	3/8	3/4	K1-8E	1/2	3/4		
Part No	Tube																																																		
56-3	3/16																																																		
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K1-6E	3/8	3/4																																																	
K1-8E	1/2	3/4																																																	
<p style="text-align: center;"><b>Sealing Bonnet ( copper )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>57-3</td><td>3/16</td></tr> <tr><td>57-4</td><td>1/4</td></tr> <tr><td>57-5</td><td>5/16</td></tr> <tr><td>57-6</td><td>3/8</td></tr> <tr><td>57-8</td><td>1/2</td></tr> <tr><td>57-10</td><td>5/8</td></tr> <tr><td>57-12</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	57-3	3/16	57-4	1/4	57-5	5/16	57-6	3/8	57-8	1/2	57-10	5/8	57-12	3/4	<p style="text-align: center;"><b>Female Branch Tee ( tube all ends )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Female</th> <th style="text-align: left;">Male</th> </tr> </thead> <tbody> <tr><td>T6-4</td><td>1/4</td><td>1/4</td></tr> </tbody> </table>	Part No	Female	Male	T6-4	1/4	1/4																												
Part No	Tube																																																		
57-3	3/16																																																		
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Part No	Female	Male																																																	
T6-4	1/4	1/4																																																	

## *STANDARD COMPRESSION FITTINGS*



### *Characteristics*

This economical fitting is available in a broad range of styles and sizes. Easy to assemble, there is no special tube preparation required.

### *Applications*

Used with copper and aluminum tubing for low to medium pressure systems where excessive vibration is not a factor. Use with a long nut for additional vibration resistance.

### *Temperature Range*

From -65° to +250° F.

### *Working Pressures*

The table to the right shows maximum recommended working pressure at 72° F, using seamless copper tubing ASTM-B-75 (30,000 P.S.I. tensile strength ). This table is intended to be used as a guide only.

### *Assembly Instructions*

- 1) Cut tubing squarely.
- 2) Slide compression nut, then sleeve onto tubing. The threaded end of the nut must face tube end.
- 3) Insert the tubing into the fitting body. The tube must bottom out on the tube stop built into the fitting body.
- 4) Assemble nut to body and tighten hand-tight.
- 5) Follow the number of wrench turns as indicated in the chart to the right.

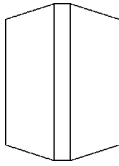
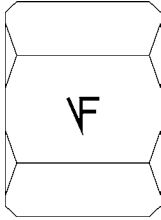
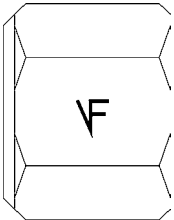
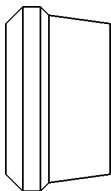
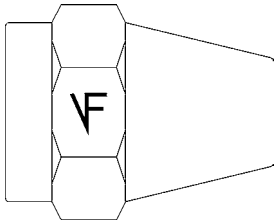
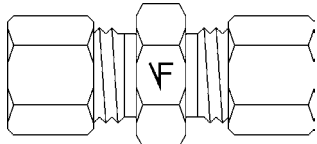
### *Working Pressure Ranges*

<i>Tube Outside Diameter</i>	<i>Tube Wall Thickness</i>	<i>Maximum Working Pressure</i>
<i>inches</i>	<i>inches</i>	<i>P.S.I.</i>
<i>1/8</i>	<i>0.030</i>	<i>400</i>
<i>3/16</i>	<i>0.030</i>	<i>400</i>
<i>1/4</i>	<i>0.030</i>	<i>300</i>
<i>5/16</i>	<i>0.032</i>	<i>300</i>
<i>3/8</i>	<i>0.032</i>	<i>200</i>
<i>1/2</i>	<i>0.032</i>	<i>200</i>
<i>5/8</i>	<i>0.035</i>	<i>150</i>
<i>3/4</i>	<i>0.035</i>	<i>100</i>
<i>7/8</i>	<i>0.035</i>	<i>75</i>

### *Final Assembly Instructions*

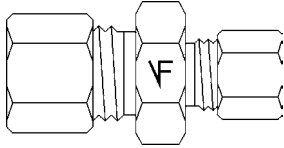
<i>Tube Outside Diameter</i>	<i>Turns with wrench to seal from hand-tight</i>
<i>inches</i>	
<i>1/8</i>	<i>1-1/4</i>
<i>3/16</i>	<i>1-1/4</i>
<i>1/4</i>	<i>1-1/4</i>
<i>5/16</i>	<i>1-1/2</i>
<i>3/8</i>	<i>2-1/2</i>
<i>1/2</i>	<i>2-1/2</i>
<i>5/8</i>	<i>2-1/2</i>
<i>3/4</i>	<i>2-1/2</i>
<i>7/8</i>	<i>2-1/2</i>

## STANDARD COMPRESSION FITTINGS

<i>Standard Sleeve</i>		<i>Standard Nut</i>		<i>Cap</i>	
					
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>
60-2	1/8	61-2	1/8		
60-5/32	5/32	61-5/32	5/32		
60-3	3/16	61-3	3/16		
60-4	1/4	61-4	1/4	C61-4	1/4
60-5	5/16	61-5	5/16	C61-6	3/8
60-6	3/8	61-6	3/8	C61-8	1/2
60-7	7/16	61-7	7/16	C61-10	5/8
60-8	1/2	61-8	1/2		
60-10	5/8	61-10	5/8		
60-12	3/4	61-12	3/4		
60-14	7/8	61-14	7/8		
<i>In-Line Sleeve</i>		<i>Long Nut</i>		<i>Union (tube both ends)</i>	
					
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>
260-2	1/8	161-2	1/8	62-2	1/8
260-3	3/16	161-3	3/16	62-5/32	5/32
260-4	1/4	161-4	1/4	62-3	3/16
260-5	5/16	161-5	5/16	62-4	1/4
260-6	3/8	161-6	3/8	62-5	5/16
260-8	1/2	161-7	7/16	62-6	3/8
260-10	5/8	161-8	1/2	62-7	7/16
		161-10	5/8	62-8	1/2
		161-12	3/4	62-10	5/8
				62-12	3/4
				62-14	7/8
<p><i>In-Line Sleeves may be used with standard compression bodies and nuts. When used with copper, aluminum or nylon tubing, higher working pressures can be achieved. To order, prefix a standard part number with the number " 2 " eg: 62-6 complete with In-Line Sleeves = Part No. 262-6.</i></p>		<p><i>Long Nut Compression Fittings provide additional tube support where minor vibration is a factor. To order, prefix a standard part number with the number " 1 " eg: 62-6 complete with long compression nuts = Part No 162-6.</i></p>			

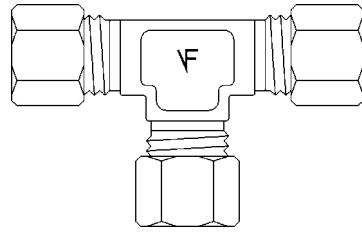
## STANDARD COMPRESSION FITTINGS

**Reducing Union  
(tube both ends)**



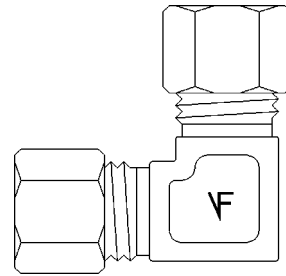
Part No	Tube	Tube
62-3-2	3/16	1/8
62-4-2	1/4	1/8
62-4-3	1/4	3/16
62-5-4	5/16	1/4
62-6-4	3/8	1/4
62-6-5	3/8	5/16
62-8-6	1/2	3/8
62-10-6	5/8	3/8
62-10-8	5/8	1/2

**Union Tee  
(tube all ends)**



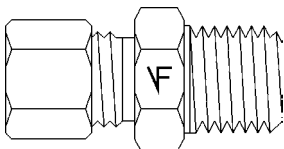
Part No	Tube
64-2	1/8
64-3	3/16
64-4	1/4
64-5	5/16
64-6	3/8
64-7	7/16
64-8	1/2
64-10	5/8
64-12	3/4
64-14	7/8

**90° Union Elbow  
(tube both ends)**



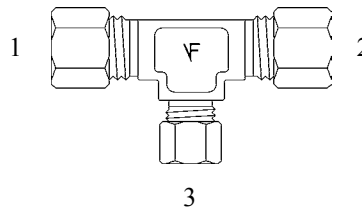
Part No	Tube
65-2	1/8
65-3	3/16
65-4	1/4
65-5	5/16
65-6	3/8
65-7	7/16
65-8	1/2
65-10	5/8
65-12	3/4
65-14	7/8
65-16	1

**Ball Check Connector  
(tube x male pipe)  
(gravity feed)**



Part No	Tube	Pipe
63-2A	1/8	1/8
63-3A	3/16	1/8
63-4A	1/4	1/8
63-5A	5/16	1/8
63-6B	3/8	1/4
63-8C	1/2	3/8

**Reducing Union Tee  
(reducing on branch)**

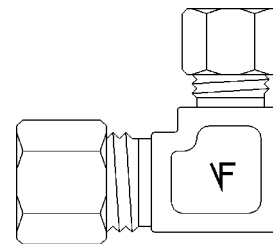


Part No	Tube Size		
	1	2	3
64-4-2	1/4	1/4	1/8
64-4-3	1/4	1/4	3/16
64-6-4	3/8	3/8	1/4
64-8-4	1/2	1/2	1/4
64-8-6	1/2	1/2	3/8
64-10-6	5/8	5/8	3/8
64-10-8	5/8	5/8	1/2

**Reducing Union Tee  
(reducing on run and branch)**

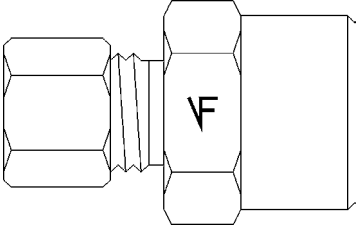
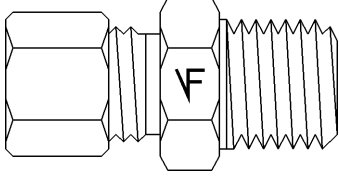
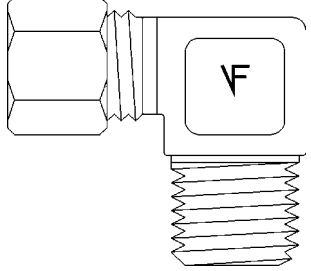
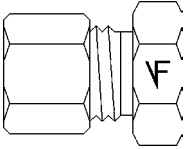
Part No	Tube Size		
	1	2	3
64-6-4-4	3/8	1/4	1/4

**90° Reducing Union Elbow  
(tube both ends)**



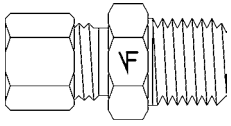
Part No	Tube	Tube
65-6-4	3/8	1/4
65-8-6	1/2	3/8
65-10-6	5/8	3/8
65-10-8	5/8	1/2

## STANDARD COMPRESSION FITTINGS

<b>Female Connector ( tube x female pipe )</b>			<b>Male Connector ( tube x male pipe )</b>			<b>90° Male Elbow ( tube x male pipe )</b>		
								
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>				<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
66-2X1	1/8	1/16				68-2X1	1/8	1/16
66-2A	1/8	1/8				68-2A	1/8	1/8
66-5/32A	5/32	1/8				68-5/32X1	5/32	1/16
66-3A	3/16	1/8				68-5/32A	5/32	1/8
66-3B	3/16	1/4				68-3A	3/16	1/8
66-4A	1/4	1/8				68-3B	3/16	1/4
66-4B	1/4	1/4				68-4A	1/4	1/8
66-4C	1/4	3/8				68-4B	1/4	1/4
66-4D	1/4	1/2				68-4C	1/4	3/8
66-5A	5/16	1/8				68-4D	1/4	1/2
66-5B	5/16	1/4				68-5A	5/16	1/8
66-6A	3/8	1/8				68-5B	5/16	1/4
66-6B	3/8	1/4				68-5C	5/16	3/8
66-6C	3/8	3/8				68-5D	5/16	1/2
66-6D	3/8	1/2				68-6A	3/8	1/8
66-6E	3/8	3/4				68-6B	3/8	1/4
66-7A	7/16	1/8				68-6C	3/8	3/8
66-8B	1/2	1/4				68-6D	3/8	1/2
66-8C	1/2	3/8				68-6E	3/8	3/4
66-8D	1/2	1/2				68-7B	7/16	1/4
66-8E	1/2	3/4				68-7C	7/16	3/8
66-10C	5/8	3/8				68-8B	1/2	1/4
66-10D	5/8	1/2				68-8C	1/2	3/8
66-10E	5/8	3/4				68-8D	1/2	1/2
66-12D	3/4	1/2				68-8E	1/2	3/4
66-12E	3/4	3/4				68-10C	5/8	3/8
66-14E	7/8	3/4				68-10D	5/8	1/2
						68-10E	5/8	3/4
						68-12D	3/4	1/2
						68-12E	3/4	3/4
						68-14D	7/8	1/2
						68-14E	7/8	3/4
						68-16E	1	3/4
						68-16F	1	1
<b>Sealing Plug</b>								
								
<i>Part No</i>	<i>Tube</i>							
67-4	1/4							
67-6	3/8							

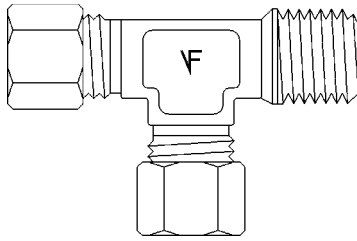
## STANDARD COMPRESSION FITTINGS

**Oil Tank Connector**  
(tube x male pipe  
without tube stop)



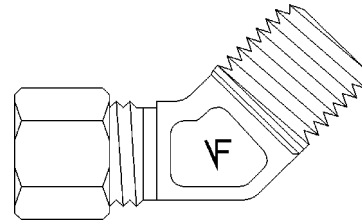
Part No	Tube	Pipe
T68-4A	1/4	1/8
T68-4B	1/4	1/4
T68-4C	1/4	3/8
T68-5B	5/16	1/4
T68-6B	3/8	1/4
T68-6C	3/8	3/8
T68-6D	3/8	1/2
T68-8C	1/2	3/8
T68-8D	1/2	1/2
T68-10D	5/8	1/2
T68-12E	3/4	3/4

**Male Run Tee**  
(tube x male pipe  
x tube)



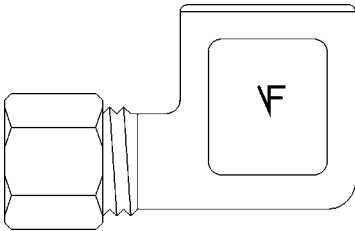
Part No	Tube	Pipe
71-2A	1/8	1/8
71-3A	3/16	1/8
71-4A	1/4	1/8
71-4B	1/4	1/4
71-5A	5/16	1/8
71-5B	5/16	1/4
71-6A	3/8	1/8
71-6B	3/8	1/4
71-6C	3/8	3/8
71-8C	1/2	3/8
71-8D	1/2	1/2
71-10D	5/8	1/2
71-12D	3/4	1/2

**45° Male Elbow**  
(tube x male pipe)



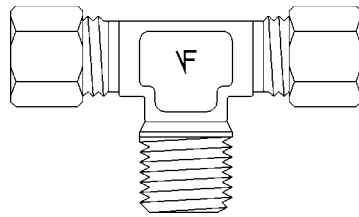
Part No	Tube	Pipe
74-3A	3/16	1/8
74-4A	1/4	1/8
74-4B	1/4	1/4
74-5A	5/16	1/8
74-5B	5/16	1/4
74-6A	3/8	1/8
74-6B	3/8	1/4
74-6C	3/8	3/8
74-6D	3/8	1/2
74-8C	1/2	3/8
74-8D	1/2	1/2
74-10D	5/8	1/2

**90° Female Elbow**  
(tube x female pipe)



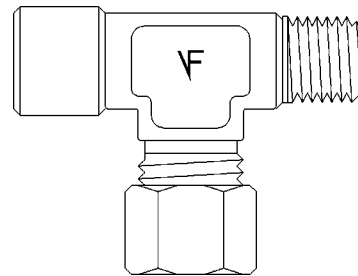
Part No	Tube	Pipe
70-2A	1/8	1/8
70-3A	3/16	1/8
70-4A	1/4	1/8
70-4B	1/4	1/4
70-4C	1/4	3/8
70-4D	1/4	1/2
70-5A	5/16	1/8
70-5B	5/16	1/4
70-6A	3/8	1/8
70-6B	3/8	1/4
70-6C	3/8	3/8
70-6D	3/8	1/2
70-6E	3/8	3/4
70-8B	1/2	1/4
70-8C	1/2	3/8
70-8D	1/2	1/2
70-8E	1/2	3/4
70-10D	5/8	1/2
70-12D	3/4	1/2

**Male Branch Tee**  
(tube x tube  
x male pipe)



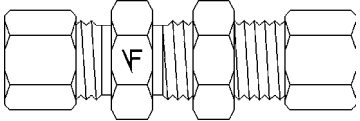
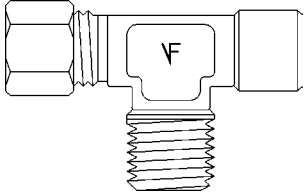
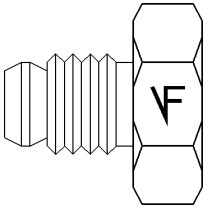
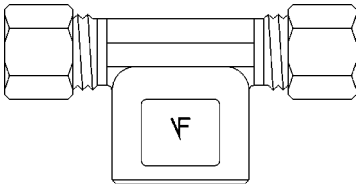
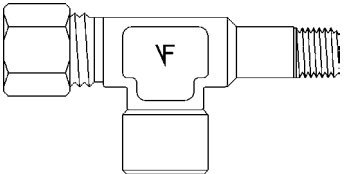
Part No	Tube	Pipe
72-2A	1/8	1/8
72-3A	3/16	1/8
72-4A	1/4	1/8
72-4B	1/4	1/4
72-5A	5/16	1/8
72-5B	5/16	1/4
72-6A	3/8	1/8
72-6B	3/8	1/4
72-6C	3/8	3/8
72-8C	1/2	3/8
72-8D	1/2	1/2
72-10D	5/8	1/2
72-12D	3/4	1/2
72-12E	3/4	3/4

**Street Tee**  
(female pipe x male pipe  
x tube)

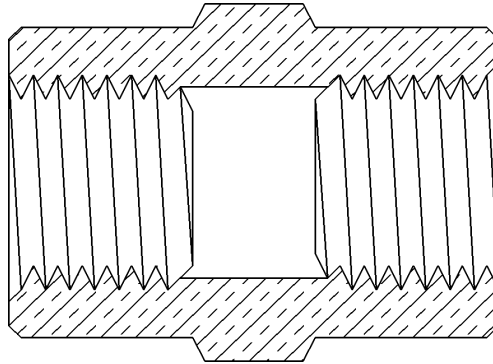


Part No	Tube	Pipe
76-2A	1/8	1/8
76-3A	3/16	1/8
76-4A	1/4	1/8
76-4B	1/4	1/4
76-5A	5/16	1/8
76-6B	3/8	1/4

## STANDARD COMPRESSION FITTINGS

<i><b>Bulkhead Union ( tube both ends )</b></i>		<i><b>Tee ( tube x female pipe x male pipe )</b></i>			<i><b>Pilot Line Nut ( breakaway sleeve )</b></i>	
						
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>
77-4	1/4	79-4A	1/4	1/8	81-4N	1/4
77-5	5/16	79-4B	1/4	1/4		
77-6	3/8					
77-8	1/2					
<i><b>Female Branch Tee ( tube x tube x female pipe )</b></i>		<i><b>Gauge Tee ( tube x male pipe x female pipe )</b></i>				
						
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	
78-4A	1/4	1/8	81-2A	1/8	1/8	
78-4B	1/4	1/4	81-4A	1/4	1/8	
78-6B	3/8	1/4				
78-10A	5/8	1/8				

## **BRASS PIPE FITTINGS**



### **Characteristics**

Available in a wide variety of shapes and sizes. Many of the shapes are available as either an extrusion or as a forging. Sizes over 3/4 N.P.T. are generally supplied as a cast fitting. Please specify if these are not suitable for your application.

### **Applications**

Used with copper, iron or brass pipe. Manufactured for use in low to medium pressure line work.

### **Vibration**

Fair resistance to pipe movement and vibration.

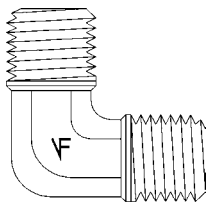
### **Pressure and Temperature Range**

From -65° to +250° .  
Bar stock, extruded and forged fittings up to 3/4 N.P.T. have a maximum working pressure of 1200 P.S.I.. Cast fittings are designed and tested to a working pressure of 125 P.S.I..

### **Assembly Instructions**

When not objectionable to the application, Teflon tape or pipe sealing compound should be used to ensure a leak-proof joint. Assemble components hand tight, then tighten an additional 2-1/2 - 3-1/2 turns with a wrench.

#### **Forged 90° Male Elbow**

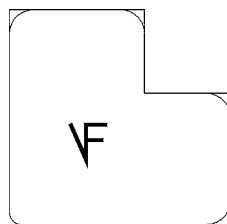


Part No	Pipe
99-A	1/8
99-B	1/4
99-C	3/8
99-D	1/2

#### **Reducing**

Part No	Pipe	Pipe
99-BA	1/4	1/8
99-CA	3/8	1/8
99-CB	3/8	1/4
99-DC	1/2	3/8

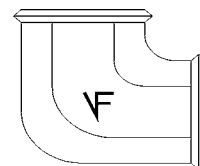
#### **90° Female Elbow**



Part No	Pipe
100-A	1/8
100-B	1/4
100-C	3/8
100-D	1/2
* C100-E	3/4
* C100-F	1
* C100-G	1-1/4
* C100-H	1-1/2
* C100-I	2

\* STANDARD PATTERN IS CAST BRASS

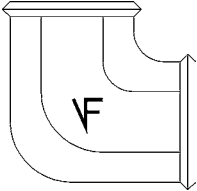
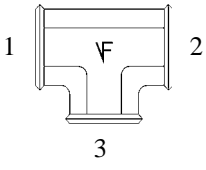
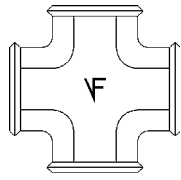
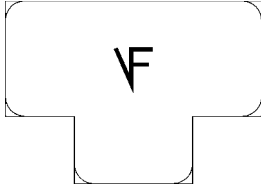
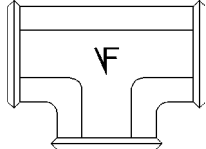
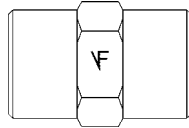
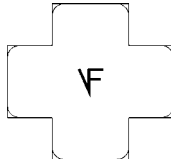
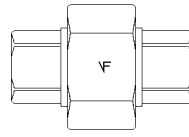
#### **90° Reducing Female Elbow (Cast Brass)**



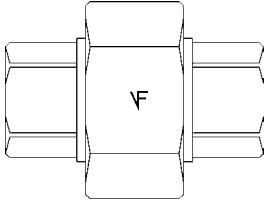
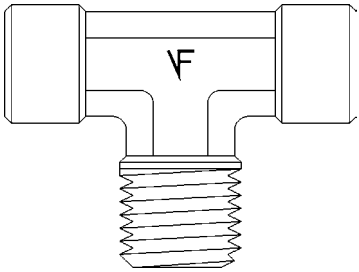
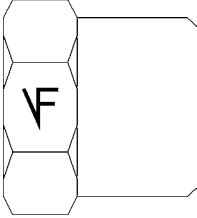
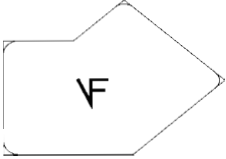
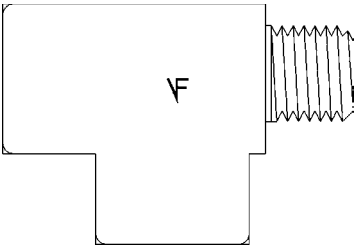
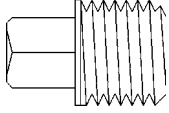
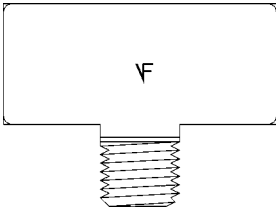
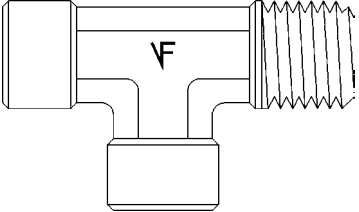
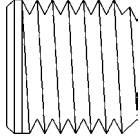
Part No	Pipe	Pipe
* C100-BA	1/4	1/8
* C100-CB	3/8	1/4
* C100-DC	1/2	3/8
* C100-ED	3/4	1/2
C100-FD	1	1/2
C100-FE	1	3/4

\* ALSO AVAILABLE IN FORGED

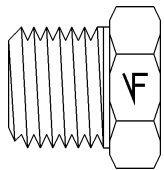
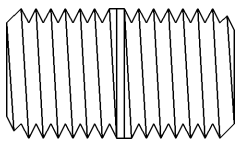
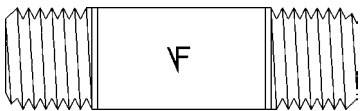
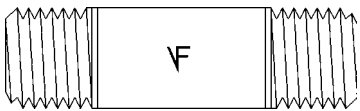

## BRASS PIPE FITTINGS

<p style="text-align: center;"><b>90° Forged Female Elbow</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>FO100-A</td><td>1/8</td></tr> <tr><td>FO100-B</td><td>1/4</td></tr> <tr><td>FO100-C</td><td>3/8</td></tr> <tr><td>FO100-D</td><td>1/2</td></tr> <tr><td>FO100-E</td><td>3/4</td></tr> </tbody> </table>	Part No	Pipe	FO100-A	1/8	FO100-B	1/4	FO100-C	3/8	FO100-D	1/2	FO100-E	3/4	<p style="text-align: center;"><b>Reducing Female Tee (Cast Brass)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">1</th> <th style="text-align: left;">2</th> <th style="text-align: left;">3</th> </tr> </thead> <tbody> <tr><td>* C101-BA</td><td>1/4</td><td>1/4</td><td>1/8</td></tr> <tr><td>* C101-DC</td><td>1/2</td><td>1/2</td><td>3/8</td></tr> <tr><td>C101-EB</td><td>3/4</td><td>3/4</td><td>1/4</td></tr> <tr><td>* C101-ED</td><td>3/4</td><td>3/4</td><td>1/2</td></tr> <tr><td>C101-EDD</td><td>3/4</td><td>1/2</td><td>1/2</td></tr> <tr><td>* C101-EDE</td><td>3/4</td><td>1/2</td><td>3/4</td></tr> <tr><td>C101-FE</td><td>1</td><td>1</td><td>3/4</td></tr> <tr><td>C101-FDF</td><td>1</td><td>1/2</td><td>1</td></tr> <tr><td>C101-FEE</td><td>1</td><td>3/4</td><td>3/4</td></tr> <tr><td>C101-GF</td><td>1-1/4</td><td>1-1/4</td><td>1</td></tr> <tr><td>C101-GEG</td><td>1-1/4</td><td>3/4</td><td>1-1/4</td></tr> <tr><td>C101-HD</td><td>1-1/2</td><td>1-1/2</td><td>1/2</td></tr> <tr><td>C101-IF</td><td>2</td><td>2</td><td>1</td></tr> </tbody> </table> <p style="font-size: small;">* ALSO AVAILABLE IN FORGED</p>	Part No	1	2	3	* C101-BA	1/4	1/4	1/8	* C101-DC	1/2	1/2	3/8	C101-EB	3/4	3/4	1/4	* C101-ED	3/4	3/4	1/2	C101-EDD	3/4	1/2	1/2	* C101-EDE	3/4	1/2	3/4	C101-FE	1	1	3/4	C101-FDF	1	1/2	1	C101-FEE	1	3/4	3/4	C101-GF	1-1/4	1-1/4	1	C101-GEG	1-1/4	3/4	1-1/4	C101-HD	1-1/2	1-1/2	1/2	C101-IF	2	2	1	<p style="text-align: center;"><b>Forged Female Cross</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>FO102-A</td><td>1/8</td></tr> <tr><td>FO102-B</td><td>1/4</td></tr> <tr><td>FO102-C</td><td>3/8</td></tr> <tr><td>FO102-D</td><td>1/2</td></tr> </tbody> </table>	Part No	Pipe	FO102-A	1/8	FO102-B	1/4	FO102-C	3/8	FO102-D	1/2
Part No	Pipe																																																																															
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C101-EDD	3/4	1/2	1/2																																																																													
* C101-EDE	3/4	1/2	3/4																																																																													
C101-FE	1	1	3/4																																																																													
C101-FDF	1	1/2	1																																																																													
C101-FEE	1	3/4	3/4																																																																													
C101-GF	1-1/4	1-1/4	1																																																																													
C101-GEG	1-1/4	3/4	1-1/4																																																																													
C101-HD	1-1/2	1-1/2	1/2																																																																													
C101-IF	2	2	1																																																																													
Part No	Pipe																																																																															
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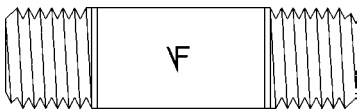
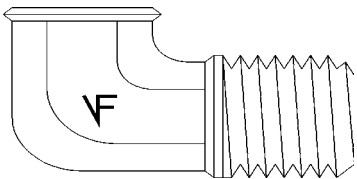
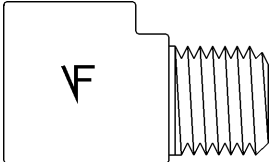
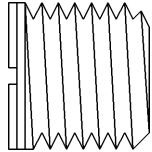
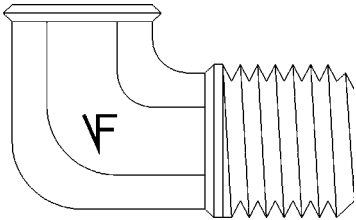
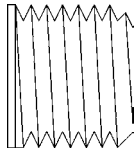
## BRASS PIPE FITTINGS

<p style="text-align: center;"><b>Forged 3 Piece Union Coupling</b></p>  <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><i>Part No</i></td> <td style="width: 50%;"><i>Pipe</i></td> </tr> <tr> <td>FO104-D</td> <td>1/2</td> </tr> <tr> <td>FO104-E</td> <td>3/4</td> </tr> </table>	<i>Part No</i>	<i>Pipe</i>	FO104-D	1/2	FO104-E	3/4	<p style="text-align: center;"><b>Forged Male Branch Tee</b></p>  <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><i>Part No</i></td> <td style="width: 50%;"><i>Pipe</i></td> </tr> <tr> <td>FO106-A</td> <td>1/8</td> </tr> <tr> <td>FO106-B</td> <td>1/4</td> </tr> <tr> <td>FO106-C</td> <td>3/8</td> </tr> <tr> <td>FO106-D</td> <td>1/2</td> </tr> </table>	<i>Part No</i>	<i>Pipe</i>	FO106-A	1/8	FO106-B	1/4	FO106-C	3/8	FO106-D	1/2	<p style="text-align: center;"><b>Pipe Cap</b></p>  <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><i>Part No</i></td> <td style="width: 50%;"><i>Pipe</i></td> </tr> <tr> <td>108-A</td> <td>1/8</td> </tr> <tr> <td>108-B</td> <td>1/4</td> </tr> <tr> <td>108-C</td> <td>3/8</td> </tr> <tr> <td>108-D</td> <td>1/2</td> </tr> <tr> <td>108-E</td> <td>3/4</td> </tr> <tr> <td>108-F</td> <td>1</td> </tr> </table>	<i>Part No</i>	<i>Pipe</i>	108-A	1/8	108-B	1/4	108-C	3/8	108-D	1/2	108-E	3/4	108-F	1																												
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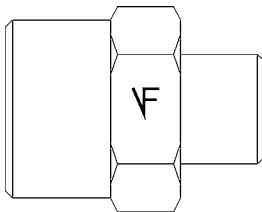
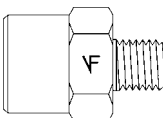
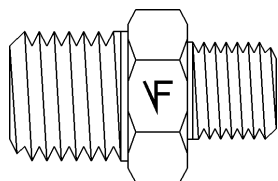
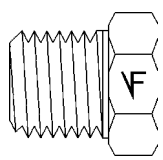
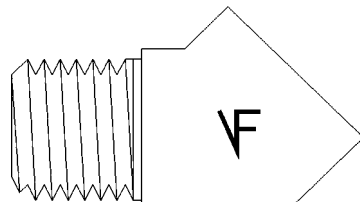
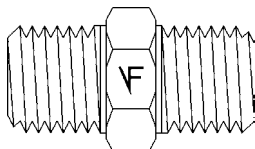
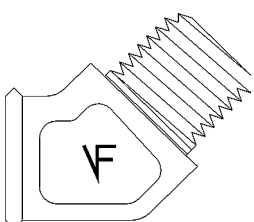
## BRASS PIPE FITTINGS

<b>Pipe Bushing (female x male pipe)</b>			<b>Close Nipple</b>			<b>Long Nipple</b>		
								
<i>Part No</i>	<i>Male</i>	<i>Female</i>	<i>Part No</i>	<i>Pipe</i>		<b>3/8-18 N.P.T.</b>		
110-A10/32	1/8	10/32	112-A	1/8		<i>Part No</i>	<i>Pipe</i>	<i>Length</i>
110-A1	1/8	1/16	112-B	1/4				
110-BA	1/4	1/8	112-C	3/8		113-C1½	3/8	1-1/2
110-CA	3/8	1/8	112-D	1/2		113-C2	3/8	2
110-CB	3/8	1/4	112-E	3/4		113-C2½	3/8	2-1/2
110-DA	1/2	1/8	112-F	1		113-C3	3/8	3
110-DB	1/2	1/4	112-G	1-1/4		113-C3½	3/8	3-1/2
110-DC	1/2	3/8	112-H	1-1/2		113-C4	3/8	4
110-EA	3/4	1/8	112-I	2		113-C4½	3/8	4-1/2
110-EB	3/4	1/4	<b>Long Nipple</b>			113-C5	3/8	5
110-EC	3/4	3/8				113-C5½	3/8	5-1/2
110-ED	3/4	1/2	<b>1/8-27 N.P.T.</b>			113-C6	3/8	6
110-FA	1	1/8	<i>Part No</i>	<i>Pipe</i>	<i>Length</i>	<b>1/2-14 N.P.T.</b>		
110-FB	1	1/4	113-A1½	1/8	1-1/2	<i>Part No</i>	<i>Pipe</i>	<i>Length</i>
110-FC	1	3/8	113-A2	1/8	2	113-D1½	1/2	1-1/2
110-FD	1	1/2	113-A2½	1/8	2-1/2	113-D2	1/2	2
110-FE	1	3/4	113-A3	1/8	3	113-D2½	1/2	2-1/2
* C110-GD	1-1/4	1/2	113-A3½	1/8	3-1/2	113-D3	1/2	3
* C110-GE	1-1/4	3/4	113-A4	1/8	4	113-D3½	1/2	3-1/2
* C110-GF	1-1/4	1	113-A4½	1/8	4 1/2	113-D4	1/2	4
* C110-HF	1-1/2	1	113-A5	1/8	5	113-D4½	1/2	4-1/2
* C110-HG	1-1/2	1-1/4	113-A5½	1/8	5-1/2	113-D5	1/2	5
* C110-IG	2	1-1/4	113-A6	1/8	6	113-D5½	1/2	5-1/2
* C110-IH	2	1-1/2	<b>1/4-18 N.P.T.</b>			<b>3/4-14 N.P.T.</b>		
* AVAILABLE ONLY IN CAST BRASS			<i>Part No</i>	<i>Pipe</i>	<i>Length</i>	<i>Part No</i>	<i>Pipe</i>	<i>Length</i>
<b>Locknut (NPSL thread)</b>			113-B1½	1/4	1-1/2	113-E1½	3/4	1-1/2
			113-B2	1/4	2	113-E2	3/4	2
<i>Part No</i>			113-B2½	1/4	2-1/2	113-E2½	3/4	2-1/2
	<i>Pipe</i>		113-B3	1/4	3	113-E3	3/4	3
111-A	1/8		113-B3½	1/4	3-1/2	113-E3½	3/4	3-1/2
111-B	1/4		113-B4	1/4	4	113-E4	3/4	4
111-C	3/8		113-B4½	1/4	4-1/2	113-E4½	3/4	4-1/2
111-D	1/2		113-B5	1/4	5	113-E5	3/4	5
111-E	3/4		113-B5½	1/4	5-1/2	113-E5½	3/4	5-1/2
			113-B6	1/4	6	113-E6	3/4	6

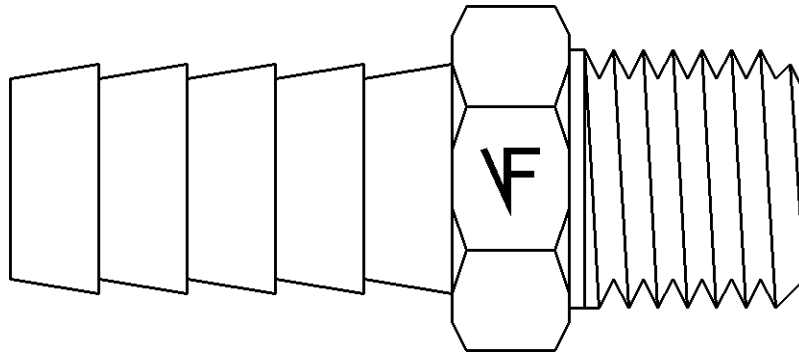
## BRASS PIPE FITTINGS

<p style="text-align: center;"><b>Long Nipple</b></p>  <p style="text-align: center;"><b>1-11½ N.P.T.</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> <th style="text-align: left;">Length</th> </tr> </thead> <tbody> <tr><td>113-F2</td><td>1</td><td>2</td></tr> <tr><td>113-F2½</td><td>1</td><td>2-1/2</td></tr> <tr><td>113-F3</td><td>1</td><td>3</td></tr> <tr><td>113-F3½</td><td>1</td><td>3-1/2</td></tr> <tr><td>113-F4</td><td>1</td><td>4</td></tr> <tr><td>113-F4½</td><td>1</td><td>4-1/2</td></tr> <tr><td>113-F5</td><td>1</td><td>5</td></tr> <tr><td>113-F5½</td><td>1</td><td>5-1/2</td></tr> <tr><td>113-F6</td><td>1</td><td>6</td></tr> </tbody> </table>	Part No	Pipe	Length	113-F2	1	2	113-F2½	1	2-1/2	113-F3	1	3	113-F3½	1	3-1/2	113-F4	1	4	113-F4½	1	4-1/2	113-F5	1	5	113-F5½	1	5-1/2	113-F6	1	6	<p>Custom made long pipe nipples are available in sizes up to 4" pipe and in lengths of up to 12 feet. Schedule 80 and threaded one end only nipples can also be produced. Please contact our order desk for more information.</p>	<p style="text-align: center;"><b>90° Forged Reducing Street Elbow</b></p>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Female</th> <th style="text-align: left;">Male</th> </tr> </thead> <tbody> <tr><td>116-CD</td><td>3/8</td><td>1/2</td></tr> <tr><td>116-DC</td><td>1/2</td><td>3/8</td></tr> </tbody> </table>	Part No	Female	Male	116-CD	3/8	1/2	116-DC	1/2	3/8															
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## BRASS PIPE FITTINGS

<b>Reducing Pipe Coupling</b>			<b>Reducing Pipe Adaptor</b>			<b>Reducing Hex Pipe Nipple</b>		
								
<i>Part No</i>	<i>Pipe</i>	<i>Pipe</i>	<i>Part No</i>	<i>Female</i>	<i>Male</i>	<i>Part No</i>	<i>Pipe</i>	<i>Pipe</i>
119-BA	1/4	1/8	120-A1	1/8	1/16	122-BA	1/4	1/8
119-CA	3/8	1/8	120-BA	1/4	1/8	122-CA	3/8	1/8
119-CB	3/8	1/4	120-CA	3/8	1/8	122-CB	3/8	1/4
119-DA	1/2	1/8	120-CB	3/8	1/4	122-DB	1/2	1/4
119-DB	1/2	1/4	120-DB	1/2	1/4	122-DC	1/2	3/8
119-DC	1/2	3/8	120-DC	1/2	3/8	122-ED	3/4	1/2
119-EB	3/4	1/4	* 120-EC	3/4	3/8	122-FE	1	3/4
119-EC	3/4	3/8	120-ED	3/4	1/2	* DISCONTINUED ITEM - LIMITED STOCK		
119-ED	3/4	1/2	* 120-FE	1	3/4			
* C119-FB	1	1/4	<b>Hex Head Pipe Plug</b>			<b>45° Extruded Street Elbow</b>		
* C119-FD	1	1/2						
* C119-FE	1	3/4	<i>Part No</i>			<i>Part No</i>	<i>Pipe</i>	
* C119-GC	1-1/4	3/8	121-1/16			124-A	1/8	
* C119-GD	1-1/4	1/2	121-A			124-B	1/4	
* C119-GE	1-1/4	3/4	121-B			124-C	3/8	
* C119-GF	1-1/4	1	121-C			124-D	1/2	
* C119-HE	1-1/2	3/4	121-D					
* C119-HF	1-1/2	1	121-E					
* C119-IH	2	1-1/2	121-F					
* AVAILABLE ONLY IN CAST BRASS			<b>Hex Pipe Nipple</b>			<b>45° Forged Street Elbow</b>		
<b>Pipe Adaptor</b>								
<i>Part No</i>	<i>Female</i>	<i>Male</i>	<i>Part No</i>	<i>Pipe</i>		<i>Part No</i>	<i>Pipe</i>	
120-AA	1/8	1/8	122-A	1/8		FO124-A	1/8	
120-BB	1/4	1/4	122-B	1/4		FO124-B	1/4	
120-CC	3/8	3/8	122-C	3/8		FO124-C	3/8	
120-DD	1/2	1/2	122-D	1/2				
120-EE	3/4	3/4	122-E	3/4				
			122-F	1				
			122-G	1-1/4				

## ***BRASS HOSE BARBS***



### ***Characteristics***

Standard hose barbs are made for use with a wide variety of thermoplastic and rubber hose and tubing. A number of clamping systems are also available and generally work well with our standard series hose barbs.

### ***Temperature Range***

From -40°F to +160°F

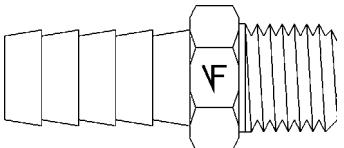
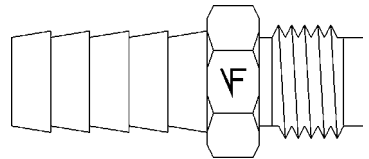
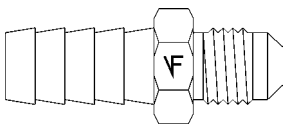
### ***Working Pressures***

Because of the wide variety of hose, tubing and clamping systems in use, each application must be looked at separately. Generally a hose will burst before the hose barb fails, however at higher pressures fitting retention may become a problem. Refer to the hose manufacturer for specific data if it is available. The suggested maximum working pressure is 150 P.S.I..

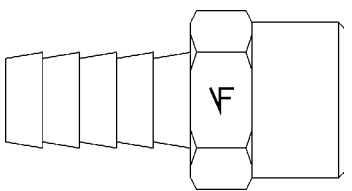
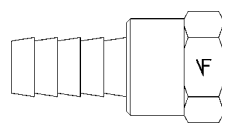
### ***Assembly Instructions***

- 1) Cut hose to length cleanly and squarely.
- 2) Slide hose clamp or ferrule onto hose.
- 3) Lubricate hose barb.
- 4) Push hose onto barb until hose bottoms on hex or shoulder.
- 5) Position hose clamp approx 1/4" back from hex and tighten or crimp ferrule.

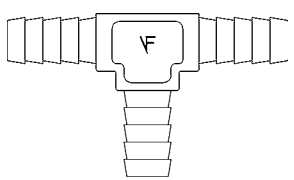
## BRASS HOSE BARBS

<b>Hose Barb x Male Pipe</b>			<b>Hose Barb x Male N.P.S.M. ( 30° ball seat )</b>			<b>Hose Barb x Male 45° Flare</b>		
								
<i>Part No</i>	<i>Hose I.D.</i>	<i>Pipe</i>	<i>Part No</i>	<i>Hose I.D.</i>	<i>N.P.S.M.</i>	<i>Part No</i>	<i>Hose I.D.</i>	<i>Tube</i>
125-1/16X10/32	1/16	10/32	125ST-4B	1/4	1/4	127-4X5	1/4	5/16
125-2X10/32	1/8	10/32	125ST-5B	5/16	1/4	127-4X6	1/4	3/8
125-2X1	1/8	1/16	125ST-6B	3/8	1/4	127-5X5	5/16	5/16
125-2A	1/8	1/8				127-6X5	3/8	5/16
125-2B	1/8	1/4				127-6X6	3/8	3/8
125-3A	3/16	1/8				127-6X8	3/8	1/2
125-3B	3/16	1/4				127-8X8	1/2	1/2
125-3C	3/16	3/8						
125-4X1	1/4	1/16						
125-4A	1/4	1/8						
125-4B	1/4	1/4						
125-4C	1/4	3/8						
125-4D	1/4	1/2						
125-5A	5/16	1/8						
125-5B	5/16	1/4						
125-5C	5/16	3/8						
125-5D	5/16	1/2						
125-6A	3/8	1/8						
125-6B	3/8	1/4						
125-6C	3/8	3/8						
125-6D	3/8	1/2						
125-6E	3/8	3/4						
125-7C	7/16	3/8						
125-8B	1/2	1/4						
125-8C	1/2	3/8						
125-8D	1/2	1/2						
125-8E	1/2	3/4						
125-10B	5/8	1/4						
125-10C	5/8	3/8						
125-10D	5/8	1/2						
125-10E	5/8	3/4						
125-12B	3/4	1/4						
125-12C	3/4	3/8						
125-12D	3/4	1/2						
125-12E	3/4	3/4						
125-12F	3/4	1						
125-16D	1	1/2						
125-16E	1	3/4						
125-16F	1	1						

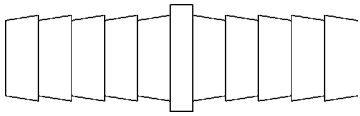
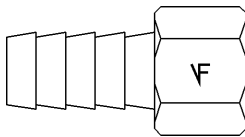
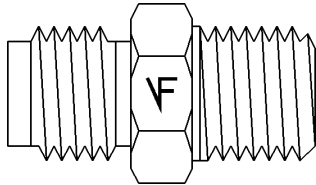
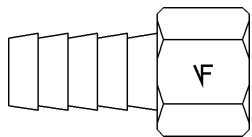
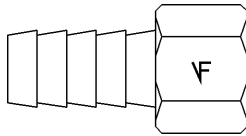
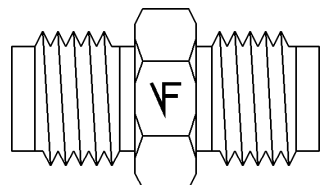
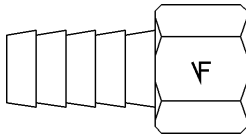
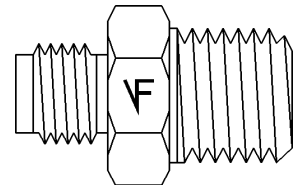
  

<b>Hose Barb x Female Pipe</b>			<b>Hose Barb x Female 45° Flare ( swivel )</b>		
					
<i>Part No</i>	<i>Hose I.D.</i>	<i>Pipe</i>	<i>Part No</i>	<i>Hose I.D.</i>	<i>Tube</i>
126-2A	1/8	1/8	128-3X4	3/16	1/4
126-3A	3/16	1/8	128-4X4	1/4	1/4
126-3B	3/16	1/4	128-4X5	1/4	5/16
126-4A	1/4	1/8	128-4X6	1/4	3/8
126-4B	1/4	1/4	128-5X5	5/16	5/16
126-4C	1/4	3/8	128-5X6	5/16	3/8
126-5A	5/16	1/8	128-6X5	3/8	5/16
126-5B	5/16	1/4	128-6X6	3/8	3/8
126-5C	5/16	3/8	128-6X8	3/8	1/2
126-6A	3/8	1/8	128-8X8	1/2	1/2
126-6B	3/8	1/4	128-8X10	1/2	5/8
126-6C	3/8	3/8	128-10X10	5/8	5/8
126-6D	3/8	1/2	128-12X12	3/4	3/4
126-8B	1/2	1/4			
126-8C	1/2	3/8			
126-8D	1/2	1/2			
126-12E	3/4	3/4			
126-16E	1	3/4			

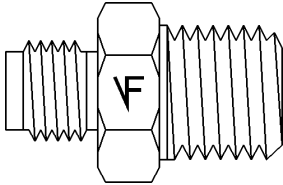
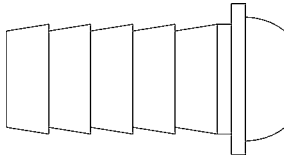
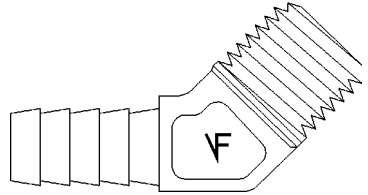
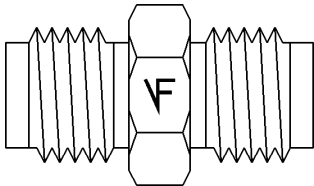
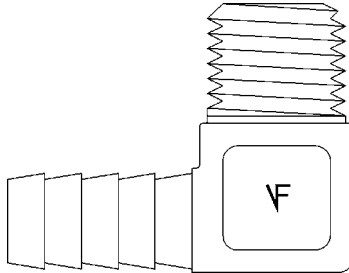
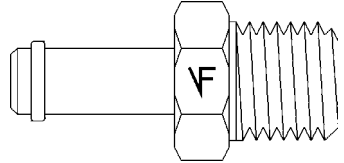
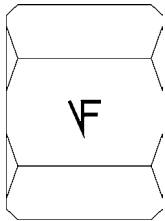
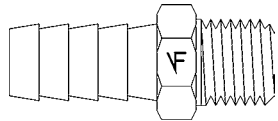
  

<b>Hose Barb Tee</b>		
		
<i>Part No</i>	<i>Hose I.D.</i>	
123-4	1/4	
123-5	5/16	
123-6	3/8	

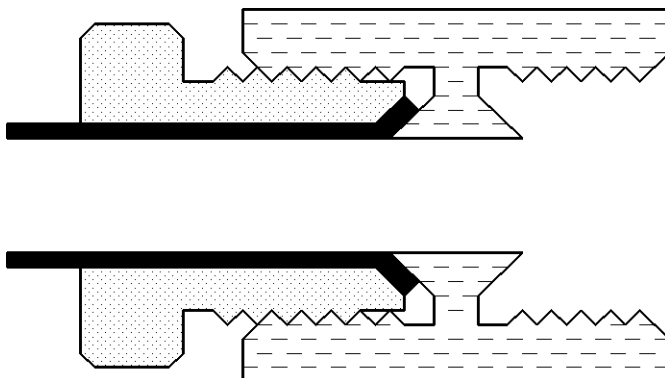
## BRASS HOSE BARBS & WELDING ADAPTORS

<p style="text-align: center;"><b>Hose Mender</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> </tr> </thead> <tbody> <tr><td>129-3</td><td>3/16</td></tr> <tr><td>129-4</td><td>1/4</td></tr> <tr><td>129-5</td><td>5/16</td></tr> <tr><td>129-6</td><td>3/8</td></tr> <tr><td>129-8</td><td>1/2</td></tr> <tr><td>129-10</td><td>5/8</td></tr> <tr><td>129-12</td><td>3/4</td></tr> <tr><td>129-16</td><td>1</td></tr> </tbody> </table>	Part No	Hose I.D.	129-3	3/16	129-4	1/4	129-5	5/16	129-6	3/8	129-8	1/2	129-10	5/8	129-12	3/4	129-16	1	<p style="text-align: center;"><b>Swivel Hose Barb x Female N.P.S.M. ( 30° ball seat )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">NPSM</th> </tr> </thead> <tbody> <tr><td>131-2A</td><td>1/8</td><td>1/8</td></tr> <tr><td>131-3A</td><td>3/16</td><td>1/8</td></tr> <tr><td>131-3B</td><td>3/16</td><td>1/4</td></tr> <tr><td>131-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>131-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>131-4C</td><td>1/4</td><td>3/8</td></tr> <tr><td>131-5B</td><td>5/16</td><td>1/4</td></tr> <tr><td>131-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>131-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>131-6D</td><td>3/8</td><td>1/2</td></tr> <tr><td>131-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>131-8D</td><td>1/2</td><td>1/2</td></tr> <tr><td>131-12E</td><td>3/4</td><td>3/4</td></tr> </tbody> </table>	Part No	Hose I.D.	NPSM	131-2A	1/8	1/8	131-3A	3/16	1/8	131-3B	3/16	1/4	131-4A	1/4	1/8	131-4B	1/4	1/4	131-4C	1/4	3/8	131-5B	5/16	1/4	131-6B	3/8	1/4	131-6C	3/8	3/8	131-6D	3/8	1/2	131-8C	1/2	3/8	131-8D	1/2	1/2	131-12E	3/4	3/4	<p style="text-align: center;"><b>30° Ball Seat Connector ( N.P.S.M. x Male N.P.T.F. )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">NPSM</th> <th style="text-align: left;">Taper</th> </tr> </thead> <tbody> <tr><td>134-AA</td><td>1/8</td><td>1/8</td></tr> <tr><td>134-BA</td><td>1/4</td><td>1/8</td></tr> <tr><td>134-BB</td><td>1/4</td><td>1/4</td></tr> <tr><td>134-BC</td><td>1/4</td><td>3/8</td></tr> <tr><td>134-CB</td><td>3/8</td><td>1/4</td></tr> <tr><td>134-CC</td><td>3/8</td><td>3/8</td></tr> <tr><td>134-CD</td><td>3/8</td><td>1/2</td></tr> <tr><td>134-DC</td><td>1/2</td><td>3/8</td></tr> <tr><td>134-DD</td><td>1/2</td><td>1/2</td></tr> <tr><td>134-EE</td><td>3/4</td><td>3/4</td></tr> </tbody> </table>	Part No	NPSM	Taper	134-AA	1/8	1/8	134-BA	1/4	1/8	134-BB	1/4	1/4	134-BC	1/4	3/8	134-CB	3/8	1/4	134-CC	3/8	3/8	134-CD	3/8	1/2	134-DC	1/2	3/8	134-DD	1/2	1/2	134-EE	3/4	3/4
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134-BC	1/4	3/8																																																																																													
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134-CC	3/8	3/8																																																																																													
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<p style="text-align: center;"><b>Hose Barb x 9/16-18 L.H. ( acetylene type " b " )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> </tr> </thead> <tbody> <tr><td>133-3L</td><td>3/16</td></tr> <tr><td>133-4L</td><td>1/4</td></tr> <tr><td>133-5L</td><td>5/16</td></tr> <tr><td>133-6L</td><td>3/8</td></tr> </tbody> </table>	Part No	Hose I.D.	133-3L	3/16	133-4L	1/4	133-5L	5/16	133-6L	3/8	<p style="text-align: center;"><b>Acetylene Adaptor ( 9/16-18 L.H. x Male Pipe )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>135-LA</td><td>1/8</td></tr> <tr><td>135-LB</td><td>1/4</td></tr> <tr><td>135-LC</td><td>3/8</td></tr> </tbody> </table>	Part No	Pipe	135-LA	1/8	135-LB	1/4	135-LC	3/8																																																																												
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## BRASS HOSE BARBS

<p style="text-align: center;"><b>Oxygen Adaptor ( 9/16-18 R.H. x male pipe )</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>135-RA</td> <td>1/8</td> </tr> <tr> <td>135-RB</td> <td>1/4</td> </tr> <tr> <td>135-RC</td> <td>3/8</td> </tr> </tbody> </table>	Part No	Pipe	135-RA	1/8	135-RB	1/4	135-RC	3/8	<p style="text-align: center;"><b>Oxygen / Acetylene Hose Barb</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> </tr> </thead> <tbody> <tr> <td>138-3</td> <td>3/16</td> </tr> <tr> <td>138-4</td> <td>1/4</td> </tr> <tr> <td>138-5</td> <td>5/16</td> </tr> <tr> <td>138-6</td> <td>3/8</td> </tr> </tbody> </table>	Part No	Hose I.D.	138-3	3/16	138-4	1/4	138-5	5/16	138-6	3/8	<p style="text-align: center;"><b>45° Hose Barb x Male Pipe</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>140-4A</td> <td>1/4</td> <td>1/8</td> </tr> <tr> <td>140-4B</td> <td>1/4</td> <td>1/4</td> </tr> <tr> <td>140-6A</td> <td>3/8</td> <td>1/8</td> </tr> <tr> <td>140-6B</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>140-6C</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>140-8C</td> <td>1/2</td> <td>3/8</td> </tr> <tr> <td>140-10C</td> <td>5/8</td> <td>3/8</td> </tr> </tbody> </table>	Part No	Hose I.D.	Pipe	140-4A	1/4	1/8	140-4B	1/4	1/4	140-6A	3/8	1/8	140-6B	3/8	1/4	140-6C	3/8	3/8	140-8C	1/2	3/8	140-10C	5/8	3/8																																																
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<p style="text-align: center;"><b>Oxygen / Acetylene Hex Nipples ( 9/16-18 thread both ends )</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">9/16-18</th> </tr> </thead> <tbody> <tr> <td>136-L</td> <td>L.H.</td> </tr> <tr> <td>136-R</td> <td>R.H.</td> </tr> </tbody> </table>	Part No	9/16-18	136-L	L.H.	136-R	R.H.	<p style="text-align: center;"><b>90° Hose Barb x Male Pipe</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>139-3A</td> <td>3/16</td> <td>1/8</td> </tr> <tr> <td>139-4A</td> <td>1/4</td> <td>1/8</td> </tr> <tr> <td>139-4B</td> <td>1/4</td> <td>1/4</td> </tr> <tr> <td>139-4C</td> <td>1/4</td> <td>3/8</td> </tr> <tr> <td>139-5A</td> <td>5/16</td> <td>1/8</td> </tr> <tr> <td>139-5B</td> <td>5/16</td> <td>1/4</td> </tr> <tr> <td>139-6A</td> <td>3/8</td> <td>1/8</td> </tr> <tr> <td>139-6B</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>139-6C</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>139-6D</td> <td>3/8</td> <td>1/2</td> </tr> <tr> <td>139-8B</td> <td>1/2</td> <td>1/4</td> </tr> <tr> <td>139-8C</td> <td>1/2</td> <td>3/8</td> </tr> <tr> <td>139-8D</td> <td>1/2</td> <td>1/2</td> </tr> <tr> <td>139-10B</td> <td>5/8</td> <td>1/4</td> </tr> <tr> <td>139-10C</td> <td>5/8</td> <td>3/8</td> </tr> <tr> <td>139-10D</td> <td>5/8</td> <td>1/2</td> </tr> <tr> <td>139-12D</td> <td>3/4</td> <td>1/2</td> </tr> <tr> <td>139-12E</td> <td>3/4</td> <td>3/4</td> </tr> <tr> <td>139-16E</td> <td>1</td> <td>3/4</td> </tr> </tbody> </table>	Part No	Hose I.D.	Pipe	139-3A	3/16	1/8	139-4A	1/4	1/8	139-4B	1/4	1/4	139-4C	1/4	3/8	139-5A	5/16	1/8	139-5B	5/16	1/4	139-6A	3/8	1/8	139-6B	3/8	1/4	139-6C	3/8	3/8	139-6D	3/8	1/2	139-8B	1/2	1/4	139-8C	1/2	3/8	139-8D	1/2	1/2	139-10B	5/8	1/4	139-10C	5/8	3/8	139-10D	5/8	1/2	139-12D	3/4	1/2	139-12E	3/4	3/4	139-16E	1	3/4	<p style="text-align: center;"><b>Beaded Hose Barb x Male Pipe</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>143-4A</td> <td>1/4</td> <td>1/8</td> </tr> <tr> <td>143-4B</td> <td>1/4</td> <td>1/4</td> </tr> <tr> <td>143-6A</td> <td>3/8</td> <td>1/8</td> </tr> <tr> <td>143-6B</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>143-6C</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>143-8C</td> <td>1/2</td> <td>3/8</td> </tr> <tr> <td>143-10C</td> <td>5/8</td> <td>3/8</td> </tr> </tbody> </table>	Part No	Hose I.D.	Pipe	143-4A	1/4	1/8	143-4B	1/4	1/4	143-6A	3/8	1/8	143-6B	3/8	1/4	143-6C	3/8	3/8	143-8C	1/2	3/8	143-10C	5/8	3/8
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## **45° INVERTED FLARE FITTINGS**



### **Characteristics**

This series of fittings is designed to resist mechanical pullout. The seats and threads are internal and protected from damage. Vibration resistance is rated as excellent.

### **Applications**

Used with any hard wall tubing that can be flared. Manufactured especially for hard to hold liquids and gases.

### **Temperature Range**

From -65°F to +250°F

### **Working Pressures**

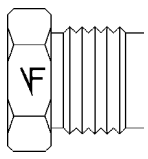
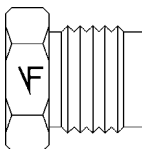
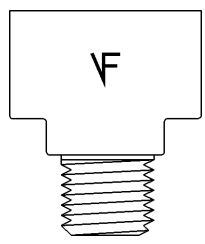
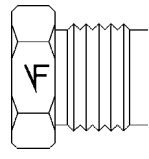
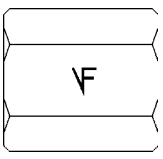
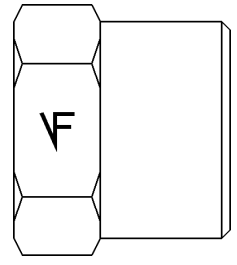
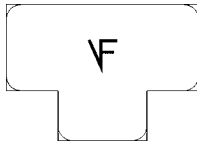
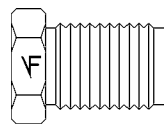
The table to the right shows maximum recommended working pressures at 73°F, using Seamless Copper Tubing ASTM-B-75 ( 30,000 P.S.I. Tensile Strength ). This table is intended to be used as a guide only.

<b>Tube Outside Diameter</b>	<b>Tube Wall Thickness</b>	<b>Maximum Working Pressure</b>
<i>inches</i>	<i>inches</i>	<i>P.S.I.</i>
<i>1/8</i>	<i>0.030</i>	<b>2,800</b>
<i>3/16</i>	<i>0.030</i>	<b>1,900</b>
<i>1/4</i>	<i>0.030</i>	<b>1,400</b>
<i>5/16</i>	<i>0.032</i>	<b>1,200</b>
<i>3/8</i>	<i>0.032</i>	<b>1,000</b>
<i>1/2</i>	<i>0.032</i>	<b>750</b>
<i>5/8</i>	<i>0.035</i>	<b>650</b>
<i>3/4</i>	<i>0.035</i>	<b>550</b>
<i>7/8</i>	<i>0.035</i>	<b>450</b>

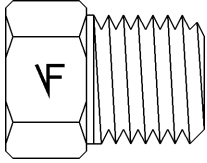
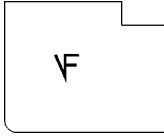
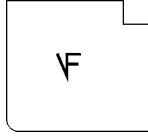
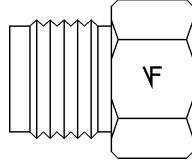
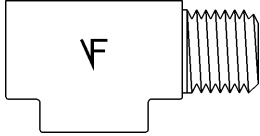
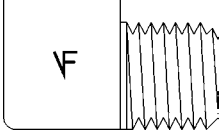
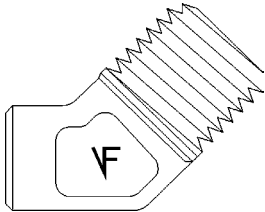
### **Assembly Instructions**

- 1) Cut tubing squarely and deburr.
- 2) Place inverted flare nut onto tubing, ensuring that the threaded end faces the end of the tube.
- 3) Flare tubing to 45° using proper flaring tool. On thin wall tubing use a double flare to help prevent cracking.
- 4) Lubricate male threads on tube nut and assemble finger tight into fitting body.
- 5) Tighten with a wrench for a metal to metal seal.

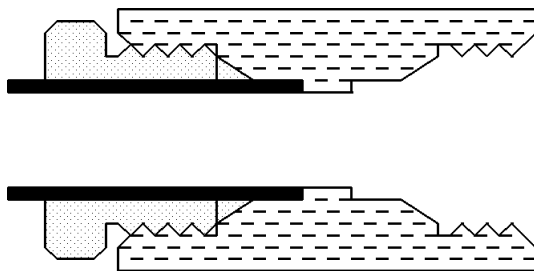
## 45° INVERTED FLARE FITTINGS

<p style="text-align: center;"><b>Nut (brass)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>141-2</td><td>1/8</td></tr> <tr><td>141-3</td><td>3/16</td></tr> <tr><td>141-4</td><td>1/4</td></tr> <tr><td>141-5</td><td>5/16</td></tr> <tr><td>141-6</td><td>3/8</td></tr> <tr><td>141-8</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	141-2	1/8	141-3	3/16	141-4	1/4	141-5	5/16	141-6	3/8	141-8	1/2	<p style="text-align: center;"><b>Plug</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>PL141-3</td><td>3/16</td></tr> <tr><td>PL141-4</td><td>1/4</td></tr> <tr><td>PL141-5</td><td>5/16</td></tr> <tr><td>PL141-6</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	PL141-3	3/16	PL141-4	1/4	PL141-5	5/16	PL141-6	3/8	<p style="text-align: center;"><b>Male Branch Tee (tube x tube x male pipe)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>145-3A</td><td>3/16</td><td>1/8</td></tr> <tr><td>145-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>145-5A</td><td>5/16</td><td>1/8</td></tr> <tr><td>145-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>145-8C</td><td>1/2</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	Pipe	145-3A	3/16	1/8	145-4A	1/4	1/8	145-5A	5/16	1/8	145-6B	3/8	1/4	145-8C	1/2	3/8																										
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<p style="text-align: center;"><b>Nut (steel)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>S141-2</td><td>1/8</td></tr> <tr><td>S141-3</td><td>3/16</td></tr> <tr><td>S141-4</td><td>1/4</td></tr> <tr><td>S141-5</td><td>5/16</td></tr> <tr><td>S141-6</td><td>3/8</td></tr> <tr><td>S141-7</td><td>7/16</td></tr> <tr><td>S141-8</td><td>1/2</td></tr> <tr><td>S141-10</td><td>5/8</td></tr> <tr><td>S141-12</td><td>3/4</td></tr> <tr><td>S141-14</td><td>7/8</td></tr> </tbody> </table>	Part No	Tube	S141-2	1/8	S141-3	3/16	S141-4	1/4	S141-5	5/16	S141-6	3/8	S141-7	7/16	S141-8	1/2	S141-10	5/8	S141-12	3/4	S141-14	7/8	<p style="text-align: center;"><b>Union (tube both ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>142-2</td><td>1/8</td></tr> <tr><td>142-3</td><td>3/16</td></tr> <tr><td>142-4</td><td>1/4</td></tr> <tr><td>142-5</td><td>5/16</td></tr> <tr><td>142-6</td><td>3/8</td></tr> <tr><td>142-8</td><td>1/2</td></tr> <tr><td>142-10</td><td>5/8</td></tr> </tbody> </table>	Part No	Tube	142-2	1/8	142-3	3/16	142-4	1/4	142-5	5/16	142-6	3/8	142-8	1/2	142-10	5/8	<p style="text-align: center;"><b>Female Connector (tube x female pipe)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>146-2A</td><td>1/8</td><td>1/8</td></tr> <tr><td>146-3A</td><td>3/16</td><td>1/8</td></tr> <tr><td>146-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>146-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>146-5A</td><td>5/16</td><td>1/8</td></tr> <tr><td>146-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>146-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>146-10D</td><td>5/8</td><td>1/2</td></tr> <tr><td>146-12E</td><td>3/4</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	Pipe	146-2A	1/8	1/8	146-3A	3/16	1/8	146-4A	1/4	1/8	146-4B	1/4	1/4	146-5A	5/16	1/8	146-6B	3/8	1/4	146-8C	1/2	3/8	146-10D	5/8	1/2	146-12E	3/4	3/4
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144-8	1/2																																																																					

## 45° INVERTED FLARE FITTINGS

<b>Male Connector (tube x male pipe)</b>			<b>90° Female Elbow (tube x female pipe)</b>			<b>90° Union Elbow (tube both ends)</b>		
								
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
148-2A	1/8	1/8	150-3A	3/16	1/8	155-4	1/4	
148-3A	3/16	1/8	150-4A	1/4	1/8	155-5	5/16	
148-4A	1/4	1/8	150-5A	5/16	1/8	155-6	3/8	
148-4B	1/4	1/4	150-6B	3/8	1/4	155-8	1/2	
148-5A	5/16	1/8	150-8C	1/2	3/8			
148-5B	5/16	1/4	150-10D	5/8	1/2			
148-6A	3/8	1/8				<b>Dual Master Cylinder Adaptor (male x female)</b>		
148-6B	3/8	1/4	<b>Male Run Tee (tube x male pipe x tube)</b>					
148-6C	3/8	3/8				<i>Part No</i>	<i>Male Inverted Exceptions</i>	<i>Female Inverted Noted</i>
148-7B	7/16	1/4				1074*	5/16	5/16
148-8B	1/2	1/4				7727*	5/16	1/4
148-8C	1/2	3/8				7732*	7/16-20	1/4
148-8D	1/2	1/2				7771	3/8MPT	5/16
148-10D	5/8	1/2				7781	1/4MPT	1/4
148-12D	3/4	1/2				7817*	5/16	3/16
148-12E	3/4	3/4				7818	1/4	3/16
						7828*	3/16	1/4
						7829	5/16	1/4
						7908	9/16-18	1/4
						7909	5/16	3/16
						7910	9/16-20	3/16
						7911	9/16-18	3/16
						7912	5/16	9/16-18
						7913	9/16-18	1/2-20
						7915	5/16	3/8
						7916	3/8	5/16
						* SEALS ON HEX FACE		
<b>90° Male Elbow (tube x male pipe)</b>			<b>45° Male Elbow (tube x male pipe)</b>					
								
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>			
149-2A	1/8	1/8	154-2A	1/8	1/8			
149-3A	3/16	1/8	154-3A	3/16	1/8			
149-4A	1/4	1/8	154-4A	1/4	1/8			
149-4B	1/4	1/4	154-5A	5/16	1/8			
149-5A	5/16	1/8	154-5B	5/16	1/4			
149-5B	5/16	1/4	154-6A	3/8	1/8			
149-5C	5/16	3/8	154-6B	3/8	1/4			
149-6A	3/8	1/8	154-8C	1/2	3/8			
149-6B	3/8	1/4	154-8D	1/2	1/2			
149-6C	3/8	3/8	149-10C	5/8	3/8			
149-8B	1/2	1/4	149-10D	5/8	1/2			
149-8C	1/2	3/8	149-12D	3/4	1/2			
149-8D	1/2	1/2	149-12E	3/4	3/4			
149-10C	5/8	3/8	149-14E	7/8	3/4			
149-10D	5/8	1/2						
149-12D	3/4	1/2						
149-12E	3/4	3/4						
149-14E	7/8	3/4						

## BRASS THREADED SLEEVE FITTING



### Characteristics

Threaded sleeve fittings are easy to assemble. No tube flaring required, seals by compression.

### Applications

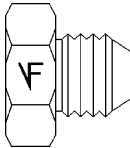
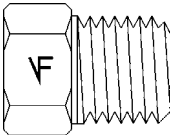
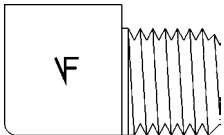
Used with copper, aluminum, nylon and soft plastic tubing ( soft tubing requires internal tube support ).

### Temperature Range

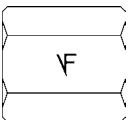
From -65°F to + 250°F

### Working Pressures

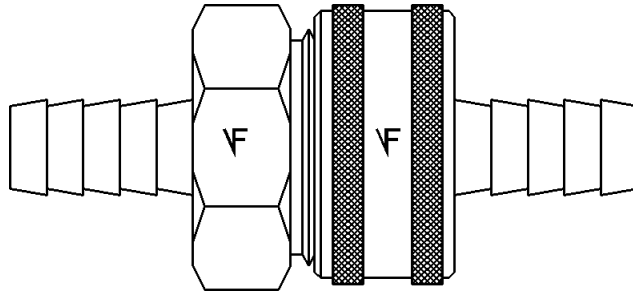
500 P.S.I up to 1/4", 250 P.S.I. on 5/16 and 3/8 sizes or up to the working pressure of the tubing used if less.

<b>Sleeve Nut</b>		<b>Male Connector ( tube x male pipe )</b>			<b>90° Male Elbow ( tube x male pipe )</b>		
							
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
181-2	1/8	188-2X1	1/8	1/16	189-2X1	1/8	1/16
181-3	3/16	188-2A	1/8	1/8	189-2A	1/8	1/8
181-4	1/4	188-3A	3/16	1/8	189-3A	3/16	1/8
181-5	5/16	188-3B	3/16	1/4	189-4A	1/4	1/8
181-6	3/8	188-4A	1/4	1/8	189-4B	1/4	1/4
181-8	1/2	188-4B	1/4	1/4	189-5A	5/16	1/8
181-10	5/8	188-5A	5/16	1/8	189-5B	5/16	1/4
		188-5B	5/16	1/4	189-6A	3/8	1/8
		188-6A	3/8	1/8	189-6B	3/8	1/4
		188-6B	3/8	1/4			
		188-10D	5/8	1/2			

<b>Union ( tube x tube )</b>	
	
<i>Part No</i>	<i>Tube</i>
182-2	1/8
182-3	3/16
182-4	1/4
182-5	5/16

## GARDEN HOSE FITTINGS



### **Characteristics**

These brass bar stock fittings are designed for rugged use in applications where a durable water hose fitting is required.

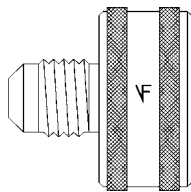
### **Applications**

Used with rubber and thermoplastic hose in applications ranging from plumbing and industrial to trailer water supply lines.

### **Temperature and Pressure Ranges**

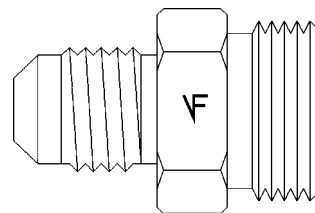
The maximum design working pressure for this series of fittings is 150 P.S.I. at 73°F or the maximum working pressure of the hose you will be using whichever is less. The temperature range is from +35°F to +100°F.

**S.A.E. Swivel Connector  
( male flare  
x female hose thread )**



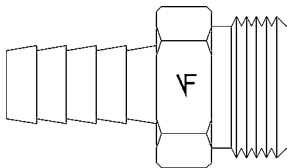
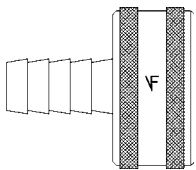
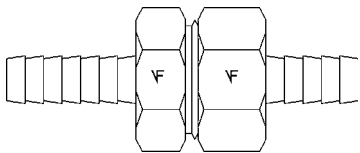
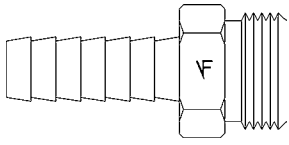
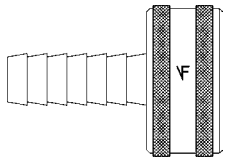
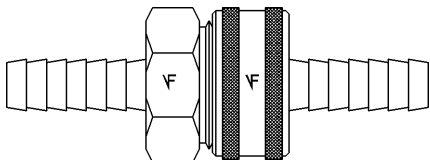
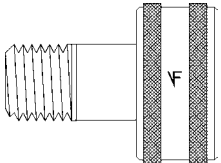
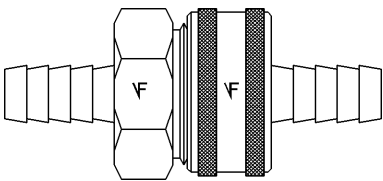
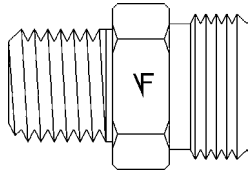
<i>Part No</i>	<i>Flare Hose Thread</i>	
191-6	3/8	3/4-11½NH
191-8	1/2	3/4-11½NH
191-10	5/8	3/4-11½NH

**S.A.E. Rigid Connector  
( male flare  
x male hose thread )**

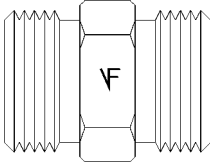
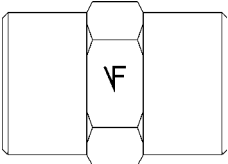
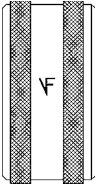
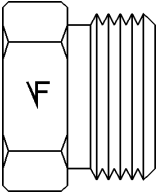
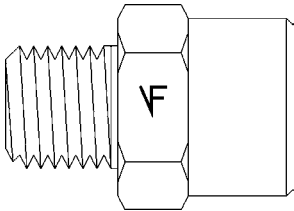
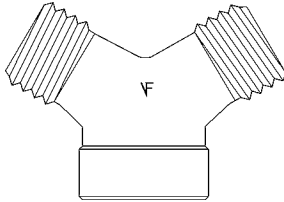
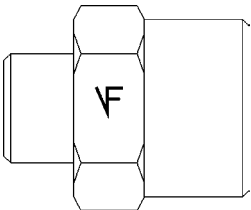
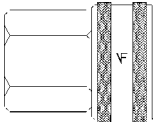
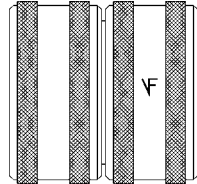
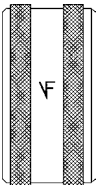
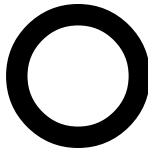


<i>Part No</i>	<i>Flare Hose Thread</i>	
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192-8	1/2	3/4-11½NH
192-10	5/8	3/4-11½NH

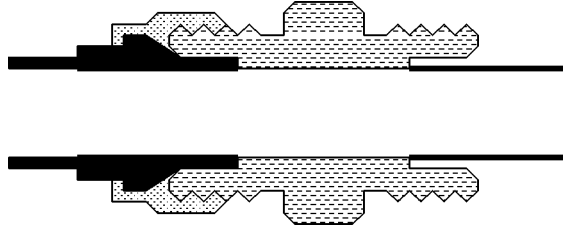
## GARDEN HOSE FITTINGS

<p style="text-align: center;"><b>Male Hose Barb</b> ( barb x male hose thread )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Barb</i></th> <th style="text-align: left;"><i>Hose Thread</i></th> </tr> </thead> <tbody> <tr><td>193-6</td><td>3/8</td><td>3/4-11½NH</td></tr> <tr><td>193-8</td><td>1/2</td><td>3/4-11½NH</td></tr> <tr><td>193-10</td><td>5/8</td><td>3/4-11½NH</td></tr> <tr><td>193-12</td><td>3/4</td><td>3/4-11½NH</td></tr> <tr><td>193-16</td><td>1</td><td>1-11½NPSH</td></tr> </tbody> </table>	<i>Part No</i>	<i>Barb</i>	<i>Hose Thread</i>	193-6	3/8	3/4-11½NH	193-8	1/2	3/4-11½NH	193-10	5/8	3/4-11½NH	193-12	3/4	3/4-11½NH	193-16	1	1-11½NPSH	<p style="text-align: center;"><b>Swivel Female Hose Barb</b> ( barb x female hose thread )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Barb</i></th> <th style="text-align: left;"><i>Hose Thread</i></th> </tr> </thead> <tbody> <tr><td>195-6</td><td>3/8</td><td>3/4-11½NH</td></tr> <tr><td>195-8</td><td>1/2</td><td>3/4-11½NH</td></tr> <tr><td>195-10</td><td>5/8</td><td>3/4-11½NH</td></tr> <tr><td>195-12</td><td>3/4</td><td>3/4-11½NH</td></tr> <tr><td>195-16</td><td>1</td><td>1-11½NPSH</td></tr> </tbody> </table>	<i>Part No</i>	<i>Barb</i>	<i>Hose Thread</i>	195-6	3/8	3/4-11½NH	195-8	1/2	3/4-11½NH	195-10	5/8	3/4-11½NH	195-12	3/4	3/4-11½NH	195-16	1	1-11½NPSH	<p style="text-align: center;"><b>Hex Nut Garden Hose Fitting Sets</b> ( with 201-H nut )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Barb</i></th> <th style="text-align: left;"><i>Hose Thread</i></th> </tr> </thead> <tbody> <tr><td>193-195H-6</td><td>3/8</td><td>3/4-11½NH</td></tr> <tr><td>193-195H-8</td><td>1/2</td><td>3/4-11½NH</td></tr> <tr><td>193-195H-10</td><td>5/8</td><td>3/4-11½NH</td></tr> <tr><td>193-195H-12</td><td>3/4</td><td>3/4-11½NH</td></tr> <tr><td>193-195H-16</td><td>1</td><td>1-11½NPSH</td></tr> </tbody> </table>	<i>Part No</i>	<i>Barb</i>	<i>Hose Thread</i>	193-195H-6	3/8	3/4-11½NH	193-195H-8	1/2	3/4-11½NH	193-195H-10	5/8	3/4-11½NH	193-195H-12	3/4	3/4-11½NH	193-195H-16	1	1-11½NPSH
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## GARDEN HOSE FITTINGS

<p style="text-align: center;"><b>Male Coupling</b> ( male hose thread both ends )</p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose Thread</th> </tr> </thead> <tbody> <tr> <td>196-W</td> <td>3/4-11½NH</td> </tr> </tbody> </table>	Part No	Hose Thread	196-W	3/4-11½NH	<p style="text-align: center;"><b>Female Coupling</b> ( female hose thread both ends )</p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose Thread</th> </tr> </thead> <tbody> <tr> <td>198-W</td> <td>3/4-11½NH</td> </tr> </tbody> </table>	Part No	Hose Thread	198-W	3/4-11½NH	<p style="text-align: center;"><b>Hose Thread Nuts</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Description</th> </tr> </thead> <tbody> <tr> <td>201-H</td> <td>HEX NUT 3/4-11½ NH</td> </tr> <tr> <td>201-W</td> <td>KNURLED 3/4-11½ NH</td> </tr> <tr> <td>201-W-16</td> <td>1" NUT 1-11½ NPSH</td> </tr> </tbody> </table>	Part No	Description	201-H	HEX NUT 3/4-11½ NH	201-W	KNURLED 3/4-11½ NH	201-W-16	1" NUT 1-11½ NPSH															
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# VERSA-FLO FITTINGS FOR POLYETHYLENE TUBING



## Characteristics

This versatile compression fitting is designed for quick installation. The sleeve, nut and body are supplied assembled. Just push the thermoplastic tubing into the fitting body until it bottoms out, tighten finger tight and wrench tighten one turn. Can be assembled and disassembled repeatedly.

## Applications

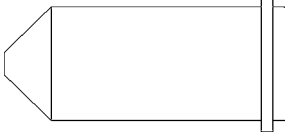
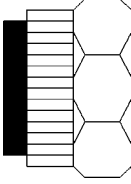
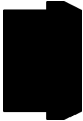
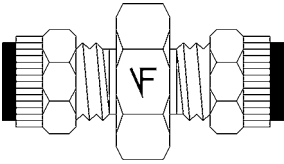
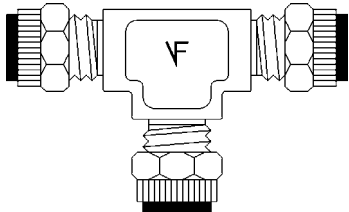
Designed for use with polyethylene tubing in instrumentation, lubrication and coolant systems.

## Temperature Range

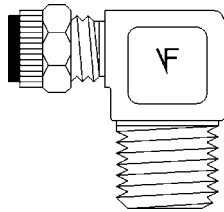
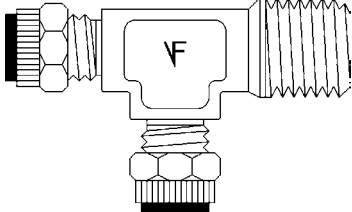
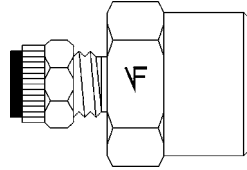
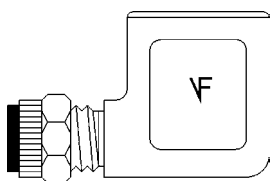
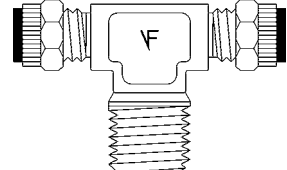
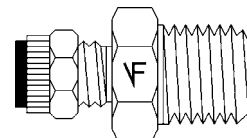
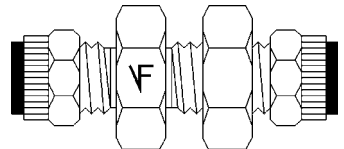
From 0°F to +175°F

## Working Pressures

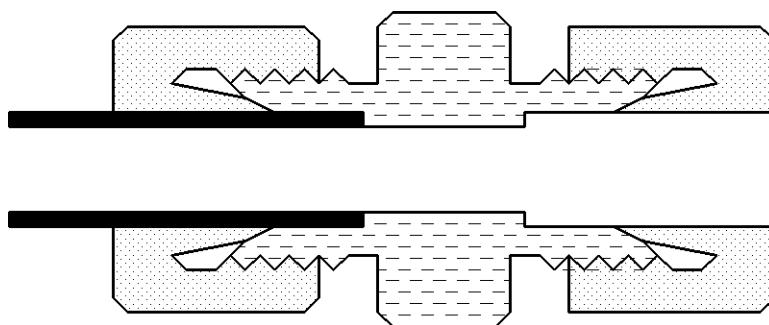
Up to 150 P.S.I. depending on the maximum recommended working pressure of the tubing used.

<i>Plastic Cap</i>		<i>Nut &amp; Sleeve Assembly</i>		<i>Reducing Union (tube both ends)</i>				
				<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Tube</i>
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	262VF-6-4	3/8	1/4		
259VF-4	1/4	261VF-2*	1/8					
259VF-5	5/16	261VF-3*	3/16					
259VF-6	3/8	261VF-4	1/4					
259VF-8	1/2	261VF-5	5/16					
		261VF-6	3/8					
		261VF-8	1/2					
<i>Plastic Sleeve</i>		<i>Union (tube both ends)</i>		<i>Union Tee (tube all ends)</i>				
								
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>			
260VF-4	1/4	262VF-2*	1/8	264VF-2*	1/8			
260VF-5	5/16	262VF-3*	3/16	264VF-3*	3/16			
260VF-6	3/8	262VF-4	1/4	264VF-4	1/4			
260VF-8	1/2	262VF-5	5/16	264VF-5	5/16			
		262VF-6	3/8	264VF-6	3/8			
		262VF-8	1/2	264VF-8	1/2			
		* BRASS SLEEVE NO TUBE SUPPORT						

## VERSA-FLO FITTINGS FOR POLYETHYLENE TUBING

<p style="text-align: center;"><b>Reducing Union Tee</b> ( tube all ends )</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: center;">Tube</th> <th style="text-align: center;">Tube</th> <th style="text-align: center;">Tube</th> </tr> </thead> <tbody> <tr> <td>264VF-6-4</td> <td style="text-align: center;">3/8</td> <td style="text-align: center;">3/8</td> <td style="text-align: center;">1/4</td> </tr> </tbody> </table>	Part No	Tube	Tube	Tube	264VF-6-4	3/8	3/8	1/4	<p style="text-align: center;"><b>90° Male Elbow</b> ( tube x male pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: center;">Tube</th> <th style="text-align: center;">Pipe</th> </tr> </thead> <tbody> <tr><td>269VF-2A*</td><td style="text-align: center;">1/8</td><td style="text-align: center;">1/8</td></tr> <tr><td>269VF-3A*</td><td style="text-align: center;">3/16</td><td style="text-align: center;">1/8</td></tr> <tr><td>269VF-3B*</td><td style="text-align: center;">3/16</td><td style="text-align: center;">1/4</td></tr> <tr><td>269VF-4A</td><td style="text-align: center;">1/4</td><td style="text-align: center;">1/8</td></tr> <tr><td>269VF-4B</td><td style="text-align: center;">1/4</td><td style="text-align: center;">1/4</td></tr> <tr><td>269VF-4C</td><td style="text-align: center;">1/4</td><td style="text-align: center;">3/8</td></tr> <tr><td>269VF-5A</td><td style="text-align: center;">5/16</td><td style="text-align: center;">1/8</td></tr> <tr><td>269VF-6A</td><td style="text-align: center;">3/8</td><td style="text-align: center;">1/8</td></tr> <tr><td>269VF-6B</td><td style="text-align: center;">3/8</td><td style="text-align: center;">1/4</td></tr> <tr><td>269VF-6C</td><td style="text-align: center;">3/8</td><td style="text-align: center;">3/8</td></tr> <tr><td>269VF-8C</td><td style="text-align: center;">1/2</td><td style="text-align: center;">3/8</td></tr> </tbody> </table>	Part No	Tube	Pipe	269VF-2A*	1/8	1/8	269VF-3A*	3/16	1/8	269VF-3B*	3/16	1/4	269VF-4A	1/4	1/8	269VF-4B	1/4	1/4	269VF-4C	1/4	3/8	269VF-5A	5/16	1/8	269VF-6A	3/8	1/8	269VF-6B	3/8	1/4	269VF-6C	3/8	3/8	269VF-8C	1/2	3/8	<p style="text-align: center;"><b>Male Run Tee</b> ( tube x male pipe x tube )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: center;">Tube</th> <th style="text-align: center;">Pipe</th> </tr> </thead> <tbody> <tr><td>271VF-2A*</td><td style="text-align: center;">1/8</td><td style="text-align: center;">1/8</td></tr> <tr><td>271VF-3A*</td><td style="text-align: center;">3/16</td><td style="text-align: center;">1/8</td></tr> <tr><td>271VF-4A</td><td style="text-align: center;">1/4</td><td style="text-align: center;">1/8</td></tr> <tr><td>271VF-4B</td><td style="text-align: center;">1/4</td><td style="text-align: center;">1/4</td></tr> <tr><td>271VF-5A</td><td style="text-align: center;">5/16</td><td style="text-align: center;">1/8</td></tr> <tr><td>271VF-6B</td><td style="text-align: center;">3/8</td><td style="text-align: center;">1/4</td></tr> <tr><td>271VF-8C</td><td style="text-align: center;">1/2</td><td style="text-align: center;">3/8</td></tr> </tbody> </table>	Part No	Tube	Pipe	271VF-2A*	1/8	1/8	271VF-3A*	3/16	1/8	271VF-4A	1/4	1/8	271VF-4B	1/4	1/4	271VF-5A	5/16	1/8	271VF-6B	3/8	1/4	271VF-8C	1/2	3/8				
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268VF-4B	1/4	1/4																																																																								
268VF-4C	1/4	3/8																																																																								
268VF-5A	5/16	1/8																																																																								
268VF-5B	5/16	1/4																																																																								
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268VF-6C	3/8	3/8																																																																								
268VF-8C	1/2	3/8																																																																								
Part No	Tube																																																																									
277VF-4	1/4																																																																									
277VF-5	5/16																																																																									
277VF-6	3/8																																																																									
277VF-8	1/2																																																																									
<p>* BRASS SLEEVE NO TUBE SUPPORT</p>																																																																										

## **VIBRA-PRUF THERMOPLASTIC COMPRESSION FITTINGS**



### ***Characteristics***

Vibra-Pruf compression fittings are available in four corrosion resistant thermoresins, in a wide range of styles and sizes. As well, they are available with three different nuts, each one designed to work best with different types of tubing.

### ***Applications***

Used with copper, aluminum, thermoplastic and glass tubing. Designed to provide leakproof, vibration and corrosion resistant joints in a wide range of applications at economical prices.

### ***Temperature Range***

From -20°F to +220°F depending on fitting material selected

### ***Working Pressure***

Varies with the type of tube nut and tubing used. Ranges from 50 P.S.I for the ferrule nut up to 220 P.S.I for the gripper nuts.

### ***Chemical Resistance of Vibra-Pruf Thermoplastic Compression Fittings***

<b><i>Solutions</i></b>	<b><i>Nylon</i></b>	<b><i>Celcon* ( Acetal )</i></b>	<b><i>Polypropylene</i></b>	<b><i>Kynar**</i></b>
Acids ( strong )	poor	unacceptable	fair	excellent
Aliphatic Solvents	excellent	excellent	unacceptable	excellent
Aromatic Solvents	excellent	excellent	unacceptable	excellent
Bases-Salts (weak)	excellent	excellent	good	excellent
Bases ( strong )	excellent	excellent	excellent	excellent
Chlorinated Solvent	slight attack	slight attack	unacceptable	excellent
Esters & Keystones	excellent	excellent	poor	poor
Halogens	fair	poor	unacceptable	excellent
Oxidents ( strong )	mild attack	mild attack	unacceptable	good
		<b><i>*Trademark of Hoechst Celanese</i></b>		<b><i>**Trademark of Pennwalt Corp.</i></b>

## **VIBRA-PRUF THERMOPLASTIC COMPRESSION FITTINGS**

### **Ordering Information**

Our standard material for Vibra-Pruf Fittings is Nylon, if no material is specified, Nylon will be supplied. To specify any other material, prefix our standard part number with one of the following:

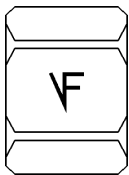
Celcon= C  
Polypropylene= P  
Kynar= K.

Our standard nut on sizes 1/8" to 1/2" (-2 to -8 ) is the ferrule nut series 361-. On sizes 5/8" to 7/8" our standard nut is the stainless steel gripper nut series SG361-. To order any nut other than the standard, insert one of the following suffixes to our part number, just before the dash (-):

Stainless Steel Gripper Nut= SG  
Plastic Gripper Nut= PG.

EG: to our a 1/4" union in Celcon with Stainless Steel Gripper Nuts, take our standard part number 362-4 add the letter C for Celcon, and the SG for Stainless Steel Gripper Nut and order part number C362SG-4.

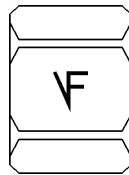
#### **Ferrule Nut**



<i>Part No</i>	<i>Tube</i>
361-2	1/8
361-4	1/4
361-5	5/16
361-6	3/8
361-8	1/2

This style of nut is recommended for applications using soft wall tubing such as polyethylene or vinyl in low pressure applications not to exceed 50 P.S.I.. Part number 381-series tube supports should be used in these applications.

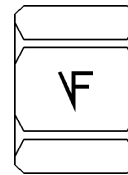
#### **Plastic Gripper Nut**



<i>Part No</i>	<i>Tube</i>
361PG-4	1/4
361PG-5	5/16
361PG-6	3/8
361PG-8	1/2
361PG-10	5/8
361PG-12	3/4
361PG-14	7/8

The plastic gripper nut is recommended for applications using plastic tubing that require a higher pressure rating, up to 220 P.S.I. maximum. Ideal for use with hard wall plastic tubing such as nylon, or for use with polyethylene tubing using part number 381-series tube supports.

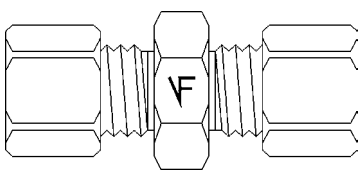
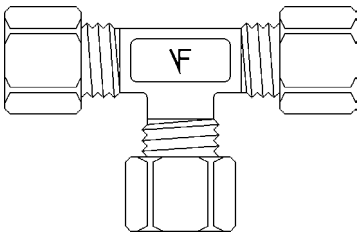
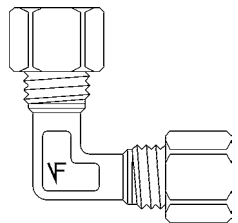
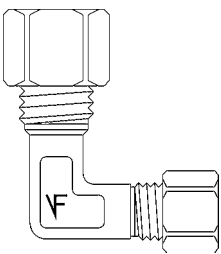
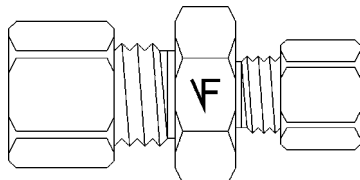
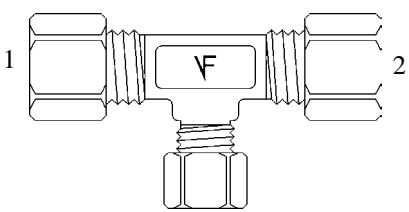
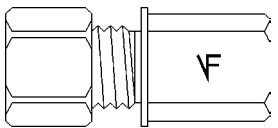
#### **Stainless Gripper Nut**



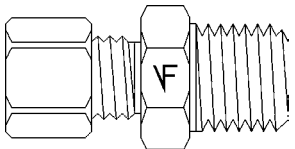
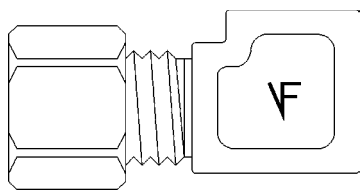
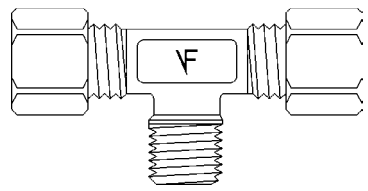
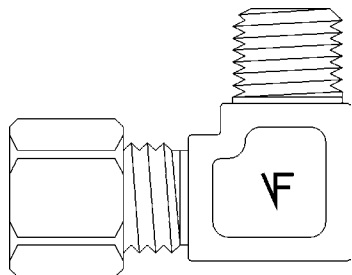
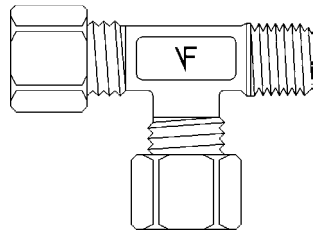
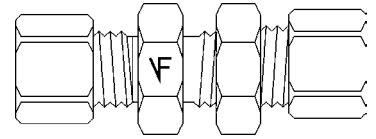
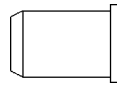
<i>Part No</i>	<i>Tube</i>
361SG-4	1/4
361SG-5	5/16
361SG-6	3/8
361SG-8	1/2
361SG-10	5/8
361SG-12	3/4
361SG-14	7/8

The stainless steel gripper nut is recommended for use with metal tubing such as copper and aluminum. This series has a maximum working pressure of 220 P.S.I. at +73°F.

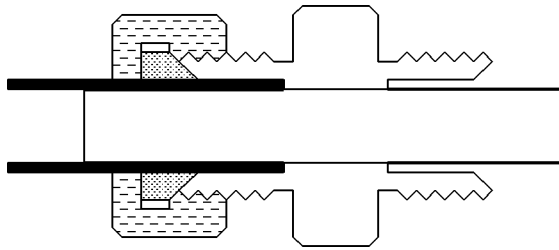
## VIBRA-PRUF THERMOPLASTIC COMPRESSION FITTINGS

<p style="text-align: center;"><b>Union</b> (tube both ends)</p>  <table style="width: 100%; margin-top: 20px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>362-4</td><td>1/4</td></tr> <tr><td>362-5</td><td>5/16</td></tr> <tr><td>362-6</td><td>3/8</td></tr> <tr><td>362-8</td><td>1/2</td></tr> <tr><td>362SG-10</td><td>5/8</td></tr> <tr><td>362SG-12</td><td>3/4</td></tr> <tr><td>362SG-14</td><td>7/8</td></tr> </tbody> </table>	Part No	Tube	362-4	1/4	362-5	5/16	362-6	3/8	362-8	1/2	362SG-10	5/8	362SG-12	3/4	362SG-14	7/8	<p style="text-align: center;"><b>Union Tee</b> (tube all ends)</p>  <table style="width: 100%; margin-top: 20px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>364-2</td><td>1/8</td></tr> <tr><td>364-4</td><td>1/4</td></tr> <tr><td>364-5</td><td>5/16</td></tr> <tr><td>364-6</td><td>3/8</td></tr> <tr><td>364-8</td><td>1/2</td></tr> <tr><td>364SG-10</td><td>5/8</td></tr> <tr><td>364SG-12</td><td>3/4</td></tr> <tr><td>364SG-14</td><td>7/8</td></tr> </tbody> </table>	Part No	Tube	364-2	1/8	364-4	1/4	364-5	5/16	364-6	3/8	364-8	1/2	364SG-10	5/8	364SG-12	3/4	364SG-14	7/8	<p style="text-align: center;"><b>90° Union Elbow</b> (tube both ends)</p>  <table style="width: 100%; margin-top: 20px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>365-4</td><td>1/4</td></tr> <tr><td>365-5</td><td>5/16</td></tr> <tr><td>365-6</td><td>3/8</td></tr> <tr><td>365-8</td><td>1/2</td></tr> <tr><td>365SG-10</td><td>5/8</td></tr> <tr><td>365SG-14</td><td>7/8</td></tr> </tbody> </table>	Part No	Tube	365-4	1/4	365-5	5/16	365-6	3/8	365-8	1/2	365SG-10	5/8	365SG-14	7/8																									
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366SG-10D	5/8	1/2																																																																									

## VIBRA-PRUF THERMOPLASTIC COMPRESSION FITTINGS

<p style="text-align: center;"><b>Male Connector</b> ( tube x male pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>368-2A</td><td>1/8</td><td>1/8</td></tr> <tr><td>368-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>368-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>368-4C</td><td>1/4</td><td>3/8</td></tr> <tr><td>368-5A</td><td>5/16</td><td>1/8</td></tr> <tr><td>368-5B</td><td>5/16</td><td>1/4</td></tr> <tr><td>368-6A</td><td>3/8</td><td>1/8</td></tr> <tr><td>368-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>368-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>368-6D</td><td>3/8</td><td>1/2</td></tr> <tr><td>368-8A</td><td>1/2</td><td>1/8</td></tr> <tr><td>368-8B</td><td>1/2</td><td>1/4</td></tr> <tr><td>368-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>368-8D</td><td>1/2</td><td>1/2</td></tr> <tr><td>368SG-10C</td><td>5/8</td><td>3/8</td></tr> <tr><td>368SG-10D</td><td>5/8</td><td>1/2</td></tr> <tr><td>368SG-12D</td><td>3/4</td><td>1/2</td></tr> <tr><td>368SG-12E</td><td>3/4</td><td>3/4</td></tr> <tr><td>368SG-14E</td><td>7/8</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	Pipe	368-2A	1/8	1/8	368-4A	1/4	1/8	368-4B	1/4	1/4	368-4C	1/4	3/8	368-5A	5/16	1/8	368-5B	5/16	1/4	368-6A	3/8	1/8	368-6B	3/8	1/4	368-6C	3/8	3/8	368-6D	3/8	1/2	368-8A	1/2	1/8	368-8B	1/2	1/4	368-8C	1/2	3/8	368-8D	1/2	1/2	368SG-10C	5/8	3/8	368SG-10D	5/8	1/2	368SG-12D	3/4	1/2	368SG-12E	3/4	3/4	368SG-14E	7/8	3/4	<p style="text-align: center;"><b>90° Female Elbow</b> ( tube x female pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>370-2B</td><td>1/8</td><td>1/4</td></tr> <tr><td>370-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>370-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>370-5B</td><td>5/16</td><td>1/4</td></tr> <tr><td>370-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>370-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>370-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>370-8D</td><td>1/2</td><td>1/2</td></tr> <tr><td>370SG-10D</td><td>5/8</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	Pipe	370-2B	1/8	1/4	370-4A	1/4	1/8	370-4B	1/4	1/4	370-5B	5/16	1/4	370-6B	3/8	1/4	370-6C	3/8	3/8	370-8C	1/2	3/8	370-8D	1/2	1/2	370SG-10D	5/8	1/2	<p style="text-align: center;"><b>Male Branch Tee</b> ( tube x tube x male pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>372-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>372-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>372-5B</td><td>5/16</td><td>1/4</td></tr> <tr><td>372-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>372-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>372-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>372-8D</td><td>1/2</td><td>1/2</td></tr> <tr><td>372SG-10D</td><td>5/8</td><td>1/2</td></tr> <tr><td>372SG-12D</td><td>3/4</td><td>1/2</td></tr> <tr><td>372SG-12E</td><td>3/4</td><td>3/4</td></tr> <tr><td>372SG-14E</td><td>7/8</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	Pipe	372-4A	1/4	1/8	372-4B	1/4	1/4	372-5B	5/16	1/4	372-6B	3/8	1/4	372-6C	3/8	3/8	372-8C	1/2	3/8	372-8D	1/2	1/2	372SG-10D	5/8	1/2	372SG-12D	3/4	1/2	372SG-12E	3/4	3/4	372SG-14E	7/8	3/4
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<p style="text-align: center;"><b>Plastic Insert</b> ( for tube support )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>381-4</td><td>1/4</td></tr> <tr><td>381-5</td><td>5/16</td></tr> <tr><td>381-6</td><td>3/8</td></tr> <tr><td>381-8</td><td>1/2</td></tr> </tbody> </table>			Part No	Tube	381-4	1/4	381-5	5/16	381-6	3/8	381-8	1/2																																																																																																																				
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## **BRASS COMPRESSION FITTINGS FOR POLYETHYLENE TUBING**



### **Characteristics**

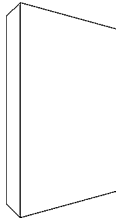
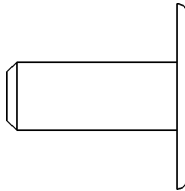
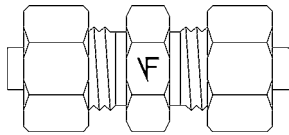
Available in a wide range of sizes and configurations, this economical fitting uses our standard brass compression fitting bodies and nuts. A staked in brass insert and a delrin compression sleeve are added, to create a fitting ideally suited for use with our standard wall polyethylene tubing ( series 360- ).

### **Applications**

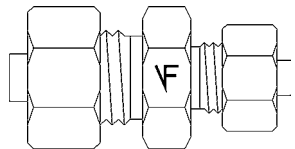
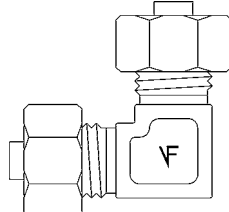
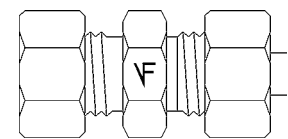
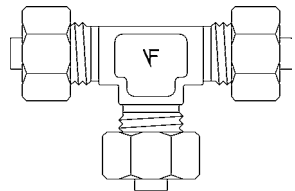
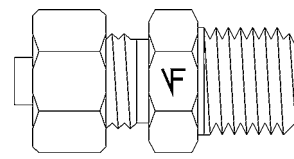
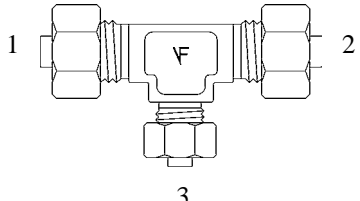
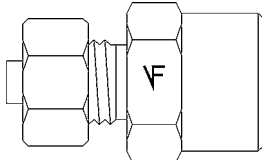
Used in pneumatic control systems, lubrication and coolant lines, this series is also used to connect water supply lines in plumbing applications, such as ice making and humidifier hookups.

### **Temperature and Pressure Ranges**

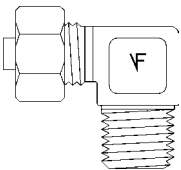
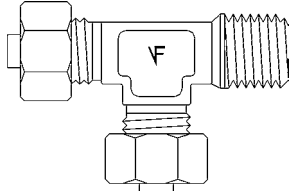
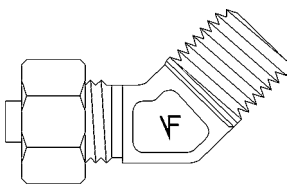
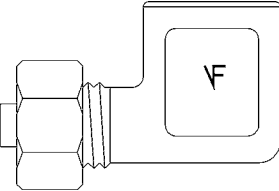
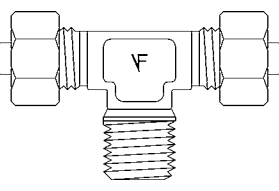
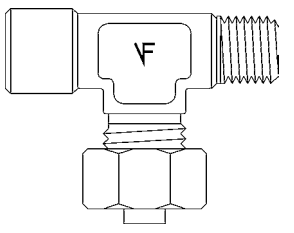
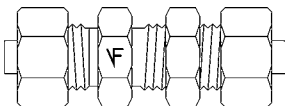
Up to 150 P.S.I. but limited by the working pressure of the polyethylene tubing used.

<b>Delrin Sleeve ( in-line )</b>		<b>Brass Insert ( loose )</b>			<b>Union ( tube both ends )</b>	
						
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D</i>	<i>Part No</i>	<i>Tube</i>
480-4	1/4	481-1	1/8	0.061	462-4	1/4
480-5	5/16	481-2	1/8	0.079	462-5	5/16
480-6	3/8	481-5/32	5/32	0.090	462-6	3/8
480-8	1/2	481-3	3/16	0.108	462-8	1/2
480-10	5/8	481-4	1/4	0.170		
480-12	3/4	481-4H	1/4	0.125		
		481-5	5/16	0.187		
		481-6	3/8	0.250		
		481-8	1/2	0.375		
		481-10	5/8	0.483		
		481-12	3/4	0.625		

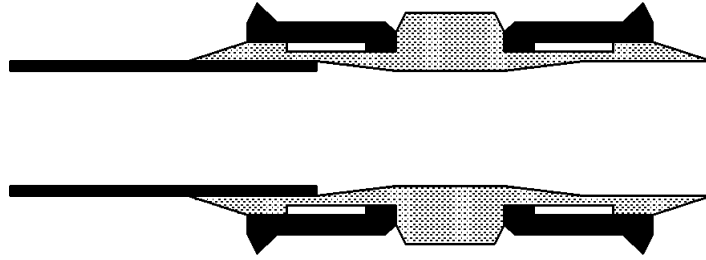
## BRASS COMPRESSION FITTINGS FOR POLYETHYLENE TUBING

<p style="text-align: center;"><b>Reducing Union</b> (tube both ends)</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr> <td>462-6-4</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>462-6-5</td> <td>3/8</td> <td>5/16</td> </tr> <tr> <td>462-8-6</td> <td>1/2</td> <td>3/8</td> </tr> </tbody> </table>	Part No	Tube	Tube	462-6-4	3/8	1/4	462-6-5	3/8	5/16	462-8-6	1/2	3/8	<p style="text-align: center;"><b>90° Union Elbow</b> (tube both ends)</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr> <td>465-4</td> <td>1/4</td> </tr> <tr> <td>465-5</td> <td>5/16</td> </tr> <tr> <td>465-6</td> <td>3/8</td> </tr> <tr> <td>465-8</td> <td>1/2</td> </tr> </tbody> </table>	Part No	Tube	465-4	1/4	465-5	5/16	465-6	3/8	465-8	1/2	<p style="text-align: center;"><b>Copper x Poly Adaptor</b> (tube both ends)</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr> <td>467-4-4</td> <td>1/4</td> <td>1/4</td> </tr> <tr> <td>467-5-5</td> <td>5/16</td> <td>5/16</td> </tr> <tr> <td>467-6-6</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>467-8-8</td> <td>1/2</td> <td>1/2</td> </tr> </tbody> </table>	Part No	Tube	Tube	467-4-4	1/4	1/4	467-5-5	5/16	5/16	467-6-6	3/8	3/8	467-8-8	1/2	1/2																																				
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467-8-8	1/2	1/2																																																																									
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464-6-4-4	3/8	1/4	1/4																																																																								
464-8-4	1/2	1/2	1/4																																																																								
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## BRASS COMPRESSION FITTINGS FOR POLYETHYLENE TUBING

<b>90° Male Elbow</b> ( tube x male pipe )			<b>Male Run Tee</b> ( tube x male pipe x tube )			<b>45° Male Elbow</b> ( tube x male pipe )		
								
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
469-4A	1/4	1/8	471-4A	1/4	1/8	474-4A	1/4	1/8
469-4B	1/4	1/4	471-4B	1/4	1/4	474-4B	1/4	1/4
469-4C	1/4	3/8	471-5A	5/16	1/8	474-5A	5/16	1/8
469-4D	1/4	1/2	471-5B	5/16	1/4	474-5B	5/16	1/4
469-5A	5/16	1/8	471-6A	3/8	1/8	474-6A	3/8	1/8
469-5B	5/16	1/4	471-6B	3/8	1/4	474-6B	3/8	1/4
469-5C	5/16	3/8	471-6C	3/8	3/8	474-6C	3/8	3/8
469-6A	3/8	1/8	471-8C	1/2	3/8	474-6D	3/8	1/2
469-6B	3/8	1/4	471-8D	1/2	1/2	474-8C	1/2	3/8
469-6C	3/8	3/8				474-8D	1/2	1/2
469-6D	3/8	1/2						
469-6E	3/8	3/4						
469-8B	1/2	1/4						
469-8C	1/2	3/8						
469-8D	1/2	1/2						
469-8E	1/2	3/4						
<b>90° Female Elbow</b> ( tube x female pipe )			<b>Male Branch Tee</b> ( tube x tube x male pipe )			<b>Street Tee</b> ( female pipe x male pipe x tube )		
								
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
470-4A	1/4	1/8	472-4A	1/4	1/8	476-4A	1/4	1/8
470-4B	1/4	1/4	472-4B	1/4	1/4	476-4B	1/4	1/4
470-4C	1/4	3/8	472-5A	5/16	1/8	476-6B	3/8	1/4
470-4D	1/4	1/2	472-5B	5/16	1/4			
470-5A	5/16	1/8	472-6A	3/8	1/8			
470-5B	5/16	1/4	472-6B	3/8	1/4			
470-6A	3/8	1/8	472-6C	3/8	3/8			
470-6B	3/8	1/4	472-8B	1/2	1/4			
470-6C	3/8	3/8	472-8C	1/2	3/8			
470-6D	3/8	1/2	472-8D	1/2	1/2			
470-6E	3/8	3/4						
470-8B	1/2	1/4						
470-8C	1/2	3/8						
470-8D	1/2	1/2						
470-8E	1/2	3/4						
<b>Bulkhead Union</b> ( tube both ends )								
								
<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>						
477-4		1/4						
477-5		5/16						
477-6		3/8						
477-8		1/2						

## ***POLY-PUSH BLACK NYLON FITTINGS***



### ***Characteristics***

Poly-Push nylon fittings are designed to be used exclusively with polyethylene tubing. Permanently retained locking collar can't be lost. This series of fittings can be reused repeatedly .

### ***Applications***

Designed to be used in many applications using standard poly tube.

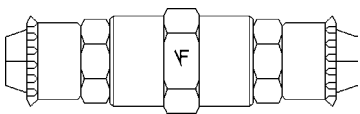
### ***Temperature and Pressure Ranges***

Rated for vacuum to 150 P.S.I. depending on pressure rating of tubing.

### ***Assembly Instructions***

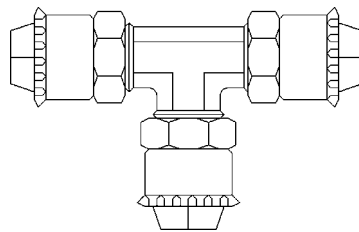
- 1) Cut tubing square
- 2) Push tubing into tapered bore of fitting as far as it will go.
- 3) Push locking ring back towards fitting body for a leakproof seal.
- 4) To disassemble, simply pull locking ring forward and remove tubing.

#### ***Union ( tube both ends )***



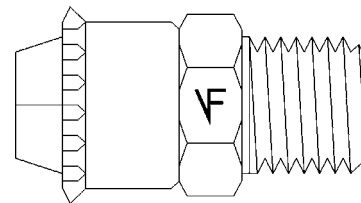
<i>Part No</i>	<i>Tube</i>
562V-4	1/4
562V-6	3/8

#### ***Union Tee ( tube all ends )***



<i>Part No</i>	<i>Tube</i>
564V-5/32	5/32
564V-4	1/4
564V-6	3/8

#### ***Male Connector ( tube x male pipe )***

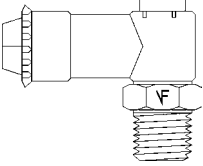
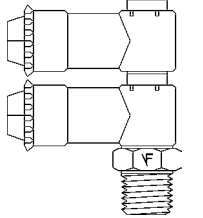
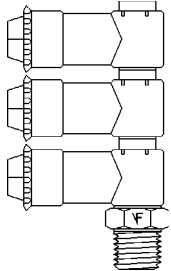
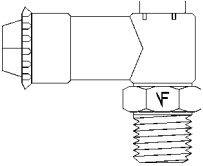
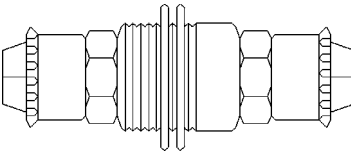
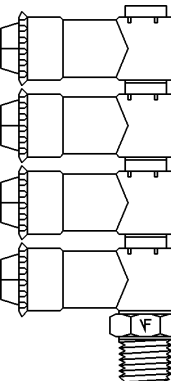
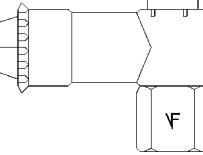
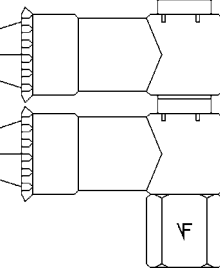


<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
568V-5/32X10/32	5/32	10/32
568V-5/32A	5/32	1/8
568V-4X10/32	1/4	10/32
568V-4A	1/4	1/8
568V-4B	1/4	1/4
568V-6B	3/8	1/4
568V-6C	3/8	3/8

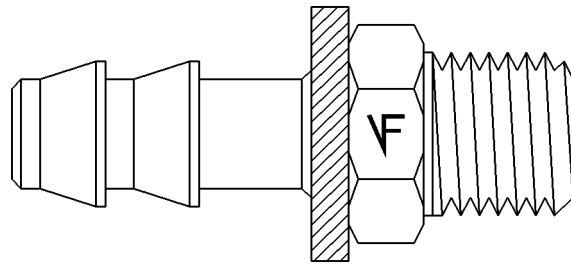
#### ***Reducing Union ( tube both ends )***

<i>Part No</i>	<i>Tube</i>	<i>Tube</i>
562V-4-5/32	1/4	5/32
562V-6-4	3/8	1/4

## POLY-PUSH NYLON FITTINGS

<p style="text-align: center;"><b>90° Male Elbow ( tube x male pipe )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>569V-5/32X10/32</td><td>5/32</td><td>10/32</td></tr> <tr><td>569V-5/32A</td><td>5/32</td><td>1/8</td></tr> <tr><td>569V-4X10/32</td><td>1/4</td><td>10/32</td></tr> <tr><td>569V-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>569V-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>569V-4C</td><td>1/4</td><td>3/8</td></tr> <tr><td>569V-6A</td><td>3/8</td><td>1/8</td></tr> <tr><td>569V-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>569V-6C</td><td>3/8</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	Pipe	569V-5/32X10/32	5/32	10/32	569V-5/32A	5/32	1/8	569V-4X10/32	1/4	10/32	569V-4A	1/4	1/8	569V-4B	1/4	1/4	569V-4C	1/4	3/8	569V-6A	3/8	1/8	569V-6B	3/8	1/4	569V-6C	3/8	3/8	<p style="text-align: center;"><b>Male Swivel Tee ( tube x male pipe )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>572V-5/32X10/32</td><td>5/32</td><td>10/32</td></tr> <tr><td>572V-5/32A</td><td>5/32</td><td>1/8</td></tr> <tr><td>572V-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>572V-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>572V-4C</td><td>1/4</td><td>3/8</td></tr> <tr><td>572V-6A</td><td>3/8</td><td>1/8</td></tr> <tr><td>572V-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>572V-6C</td><td>3/8</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	Pipe	572V-5/32X10/32	5/32	10/32	572V-5/32A	5/32	1/8	572V-4A	1/4	1/8	572V-4B	1/4	1/4	572V-4C	1/4	3/8	572V-6A	3/8	1/8	572V-6B	3/8	1/4	572V-6C	3/8	3/8	<p style="text-align: center;"><b>Male Swivel Manifold ( tube x male pipe x 3 tier )</b></p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>580V-5/32A</td><td>5/32</td><td>1/8</td></tr> <tr><td>580V-5/32B</td><td>5/32</td><td>1/4</td></tr> <tr><td>580V-5/32C</td><td>5/32</td><td>3/8</td></tr> <tr><td>580V-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>580V-4C</td><td>1/4</td><td>3/8</td></tr> <tr><td>580V-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>580V-6C</td><td>3/8</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	Pipe	580V-5/32A	5/32	1/8	580V-5/32B	5/32	1/4	580V-5/32C	5/32	3/8	580V-4B	1/4	1/4	580V-4C	1/4	3/8	580V-6B	3/8	1/4	580V-6C	3/8	3/8
Part No	Tube	Pipe																																																																																	
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## LOK-ON HOSE BARBS



### Characteristics

Lok-On hose barbs offer easy assembly and do not require hose clamps when used with Lok-On hose. This series is manufactured out of CA360 Brass and supplied complete with plastic dust cap to cover cut end of hose.

### Applications

Used in low pressure air, oil, lubrication, and fuel lines, also used as coolant lines for injection molds.

### Temperature Range

From -40°F to +200°F depending on hose used.

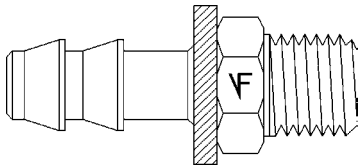
### Working Pressure

Up to 350 P.S.I. refer to working pressure of hose being used.

### Assembly Instructions

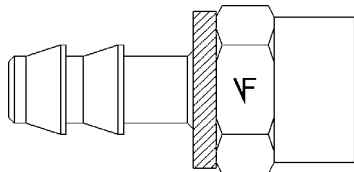
- 1) cut hose square.
- 2) lubricate barb end of fitting.
- 3) clamp fitting in vise and push hose straight onto barb until hose is protected under dust cover.

#### Rigid Male Pipe ( hose x male pipe )



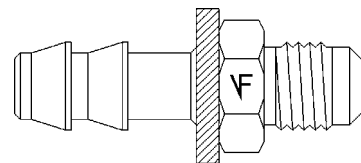
Part No	Hose I.D.	Pipe
725-4A	1/4	1/8
725-4B	1/4	1/4
725-4C	1/4	3/8
725-6A	3/8	1/8
725-6B	3/8	1/4
725-6C	3/8	3/8
725-6D	3/8	1/2
725-6E	3/8	3/4
725-8B	1/2	1/4
725-8C	1/2	3/8
725-8D	1/2	1/2
725-8E	1/2	3/4
725-10C	5/8	3/8
725-10D	5/8	1/2
725-10E	5/8	3/4

#### Rigid Female Pipe ( hose x female pipe )



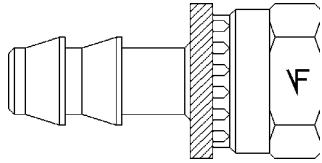
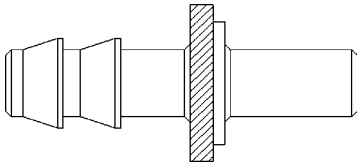
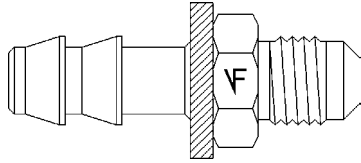
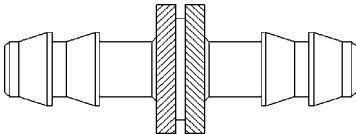
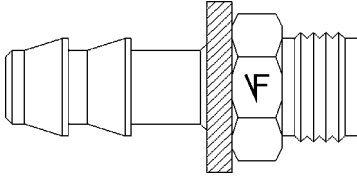
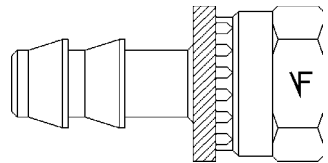
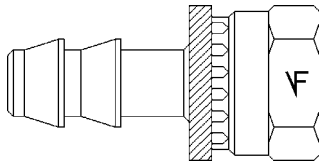
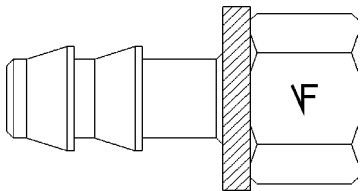
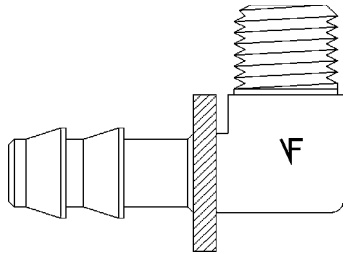
Part No	Hose I.D.	Pipe
726-4A	1/4	1/8
726-4B	1/4	1/4
726-6B	3/8	1/4
726-6C	3/8	3/8
726-8C	1/2	3/8
726-8D	1/2	1/2
726-10D	5/8	1/2

#### Rigid Male 45° Flare ( hose x male flare )

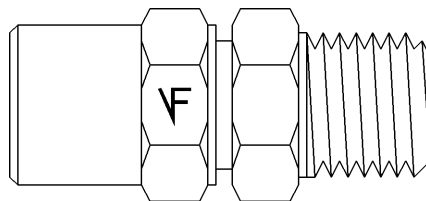


Part No	Hose I.D.	Tube
727-44	1/4	1/4
727-45	1/4	5/16
727-66	3/8	3/8
727-88	1/2	1/2
727-1010	5/8	5/8

## LOK-ON HOSE BARBS

<p style="text-align: center;"><b>Swivel Female 45° S.A.E.</b> ( hose x female flare )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>728-44</td><td>1/4</td><td>1/4</td></tr> <tr><td>728-45</td><td>1/4</td><td>5/16</td></tr> <tr><td>728-66</td><td>3/8</td><td>3/8</td></tr> <tr><td>728-68</td><td>3/8</td><td>1/2</td></tr> <tr><td>728-88</td><td>1/2</td><td>1/2</td></tr> <tr><td>728-810</td><td>1/2</td><td>5/8</td></tr> <tr><td>728-1010</td><td>5/8</td><td>5/8</td></tr> <tr><td>728-1210</td><td>3/4</td><td>5/8</td></tr> <tr><td>728-1212</td><td>3/4</td><td>3/4</td></tr> </tbody> </table>	Part No	Hose I.D.	Tube	728-44	1/4	1/4	728-45	1/4	5/16	728-66	3/8	3/8	728-68	3/8	1/2	728-88	1/2	1/2	728-810	1/2	5/8	728-1010	5/8	5/8	728-1210	3/4	5/8	728-1212	3/4	3/4	<p style="text-align: center;"><b>Tube Shank</b> ( hose x tube splicer )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>732-43</td><td>1/4</td><td>3/16</td></tr> <tr><td>732-44</td><td>1/4</td><td>1/4</td></tr> <tr><td>732-45</td><td>1/4</td><td>5/16</td></tr> <tr><td>732-66</td><td>3/8</td><td>3/8</td></tr> <tr><td>732-68</td><td>3/8</td><td>1/2</td></tr> <tr><td>732-88</td><td>1/2</td><td>1/2</td></tr> </tbody> </table>	Part No	Hose I.D.	Tube	732-43	1/4	3/16	732-44	1/4	1/4	732-45	1/4	5/16	732-66	3/8	3/8	732-68	3/8	1/2	732-88	1/2	1/2	<p style="text-align: center;"><b>Rigid Male 37° J.I.C. Flare</b> ( hose x tube )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>737-44</td><td>1/4</td><td>1/4</td></tr> <tr><td>737-45</td><td>1/4</td><td>5/16</td></tr> <tr><td>737-66</td><td>3/8</td><td>3/8</td></tr> <tr><td>737-88</td><td>1/2</td><td>1/2</td></tr> </tbody> </table>	Part No	Hose I.D.	Tube	737-44	1/4	1/4	737-45	1/4	5/16	737-66	3/8	3/8	737-88	1/2	1/2
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<p style="text-align: center;"><b>Swivel Female NPSM</b> ( 30° ball seat type )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>731-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>731-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>731-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>731-8D</td><td>1/2</td><td>1/2</td></tr> </tbody> </table>	Part No	Hose I.D.	Pipe	731-4B	1/4	1/4	731-6B	3/8	1/4	731-6C	3/8	3/8	731-8D	1/2	1/2	<p style="text-align: center;"><b>Rigid Female Inverted Flare</b> ( hose x tube )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>736-43</td><td>1/4</td><td>3/16</td></tr> <tr><td>736-44</td><td>1/4</td><td>1/4</td></tr> <tr><td>736-45</td><td>1/4</td><td>5/16</td></tr> <tr><td>736-66</td><td>3/8</td><td>3/8</td></tr> <tr><td>736-88</td><td>1/2</td><td>1/2</td></tr> </tbody> </table>	Part No	Hose I.D.	Tube	736-43	1/4	3/16	736-44	1/4	1/4	736-45	1/4	5/16	736-66	3/8	3/8	736-88	1/2	1/2	<p style="text-align: center;"><b>90° Male Pipe Elbow</b> ( hose x male pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose I.D.</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>739-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>739-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>739-6A</td><td>3/8</td><td>1/8</td></tr> <tr><td>739-6B</td><td>3/8</td><td>1/4</td></tr> </tbody> </table>	Part No	Hose I.D.	Pipe	739-4A	1/4	1/8	739-4B	1/4	1/4	739-6A	3/8	1/8	739-6B	3/8	1/4																		
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## BRASS RE-USABLE HOSE FITTINGS



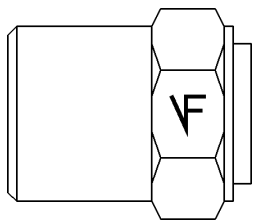
### Characteristics

Re-usable hose fittings are made from CA360 brass and are of heavy duty construction. No crimping or skiving required.

### Applications

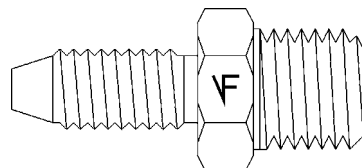
Used in any hose application where a durable connection is required or where ease of repair is a consideration.

#### Hose Ferrule



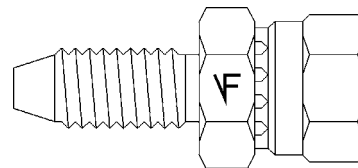
Part No	Hose O.D.	Hose I.D.
750-63	3/8	3/16
750-73	7/16	3/16
750-84	1/2	1/4
750-94	9/16	1/4
750-104	5/8	1/4
750-95	9/16	5/16
750-105	5/8	5/16
750-115	11/16	5/16
750-106	5/8	3/8
750-116	11/16	3/8
750-126	3/4	3/8
750-148	7/8	1/2
750-158	15/16	1/2
750-168	1	1/2

#### Male Stem ( hose x N.P.T. )



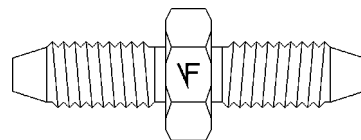
Part No	Hose I.D.	Pipe
751-3A	3/16	1/8
751-3B	3/16	1/4
751-4A	1/4	1/8
751-4B	1/4	1/4
751-4C	1/4	3/8
751-5B	5/16	1/4
751-5C	5/16	3/8
751-6B	3/8	1/4
751-6C	3/8	3/8
751-6D	3/8	1/2
751-8B	1/2	1/4
751-8C	1/2	3/8
751-8D	1/2	1/2

#### Swivel Female Pipe Stem ( hose x N.P.S.M )



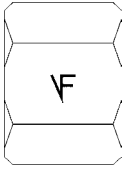
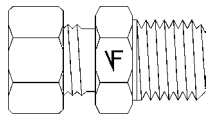
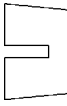
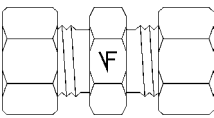
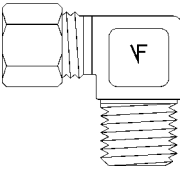
Part No	Hose I.D.	Pipe
752-3B	3/16	1/4
752-4B	1/4	1/4
752-4C	1/4	3/8
752-5B	5/16	1/4
752-6B	3/8	1/4
752-6C	3/8	3/8
752-6D	3/8	1/2
752-8D	1/2	1/2

#### Hose Splicer Stem ( hose both ends )

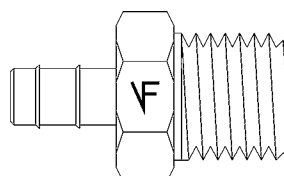


Part No	Hose I.D.
753-4	1/4
753-6	3/8

## PRECISION GRIP BRASS FITTINGS

<p><b>Advantages</b></p> <p>Designed for use in applications where vibration is a major factor. May be used with nylon, polyethylene, copper and aluminum tubing. Commonly used in trucking applications for small ( 1/8" ) air supply lines.</p>	<p><b>Nut</b></p> 	<p><b>Male Connector ( tube x male pipe )</b></p> 																																				
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## POLY-BARB BRASS FITTINGS



**Characteristics**

Poly-Barb brass fittings are a quick economical method of connecting to polyethylene tubing. This series of fittings has excellent vibration resistance.

**Applications**

May be used in any application in which polyethylene tubing is found, including Instrumentation, Enviromental controls, Pneumatic systems etc. May be used with standard polyethylene tubing series 360, or with fire retardent polyethylene tubing series FR360.

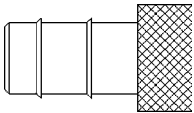
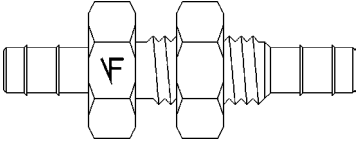
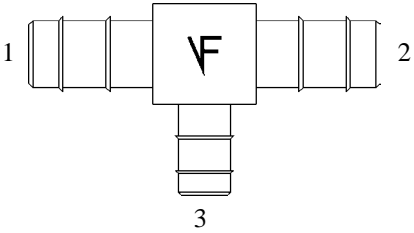
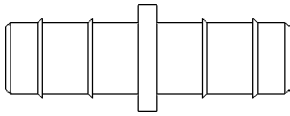
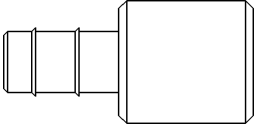
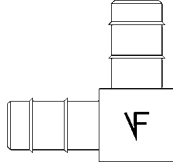
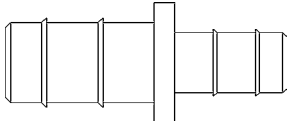
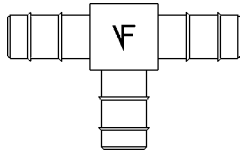
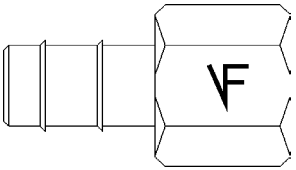
**Temperature Range**

From -40°F to +135°F with polyethylene tubing.

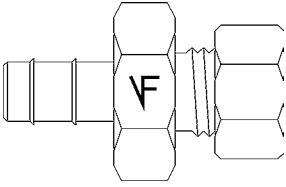
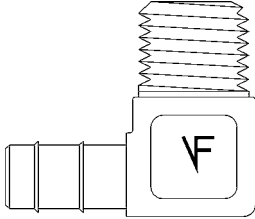
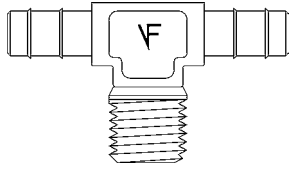
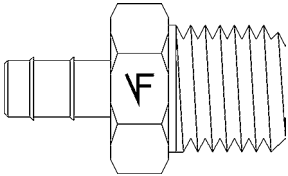
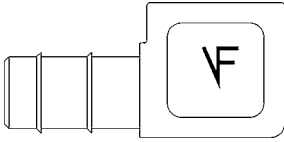
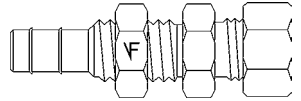
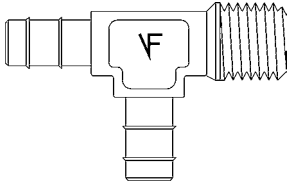
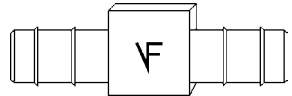
**Working Pressure**

Will withstand burst pressures of polyethylene tubing.

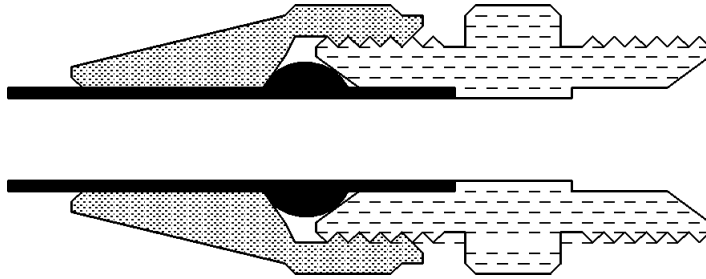
## POLY-BARB BRASS FITTINGS

<p style="text-align: center;"><b>Tube Plug</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>958-4</td><td>1/4</td></tr> <tr><td>958-6</td><td>3/8</td></tr> <tr><td>958-8</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	958-4	1/4	958-6	3/8	958-8	1/2	<p style="text-align: center;"><b>Bulkhead Union (barb both ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>962BH-4</td><td>1/4</td><td>1/4</td></tr> <tr><td>962BH-6</td><td>3/8</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	Tube	962BH-4	1/4	1/4	962BH-6	3/8	3/8	<p style="text-align: center;"><b>Reducing Union Tee (tube all ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th colspan="3" style="text-align: center;">Tube Size</th> </tr> <tr> <th></th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> </tr> </thead> <tbody> <tr><td>964-4-5/32</td><td style="text-align: center;">1/4</td><td style="text-align: center;">1/4</td><td style="text-align: center;">5/32</td></tr> <tr><td>964-6-5/32</td><td style="text-align: center;">3/8</td><td style="text-align: center;">3/8</td><td style="text-align: center;">5/32</td></tr> <tr><td>964-6-4</td><td style="text-align: center;">3/8</td><td style="text-align: center;">3/8</td><td style="text-align: center;">1/4</td></tr> <tr><td>964-8-4</td><td style="text-align: center;">1/2</td><td style="text-align: center;">1/2</td><td style="text-align: center;">1/4</td></tr> <tr><td>964-8-6</td><td style="text-align: center;">1/2</td><td style="text-align: center;">1/2</td><td style="text-align: center;">3/8</td></tr> </tbody> </table>	Part No	Tube Size				1	2	3	964-4-5/32	1/4	1/4	5/32	964-6-5/32	3/8	3/8	5/32	964-6-4	3/8	3/8	1/4	964-8-4	1/2	1/2	1/4	964-8-6	1/2	1/2	3/8				
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## POLY-BARB BRASS FITTINGS

<p style="text-align: center;"><b>Compression Adaptor</b> ( barb x compression )</p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr> <td>967-4-4</td> <td>1/4</td> <td>1/4</td> </tr> </tbody> </table>	Part No	Tube	Tube	967-4-4	1/4	1/4	<p style="text-align: center;"><b>90° Male Elbow</b> ( barb x male pipe )</p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>969-5/32A</td> <td>5/32</td> <td>1/8</td> </tr> <tr> <td>969-4X1</td> <td>1/4</td> <td>1/16</td> </tr> <tr> <td>969-4A</td> <td>1/4</td> <td>1/8</td> </tr> <tr> <td>969-4B</td> <td>1/4</td> <td>1/4</td> </tr> <tr> <td>969-6A</td> <td>3/8</td> <td>1/8</td> </tr> <tr> <td>969-6B</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>969-8C</td> <td>1/2</td> <td>3/8</td> </tr> </tbody> </table>	Part No	Tube	Pipe	969-5/32A	5/32	1/8	969-4X1	1/4	1/16	969-4A	1/4	1/8	969-4B	1/4	1/4	969-6A	3/8	1/8	969-6B	3/8	1/4	969-8C	1/2	3/8	<p style="text-align: center;"><b>Male Branch Tee</b> ( tube x tube x male pipe )</p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>972-4A</td> <td>1/4</td> <td>1/8</td> </tr> <tr> <td>972-6A</td> <td>3/8</td> <td>1/8</td> </tr> <tr> <td>972-6B</td> <td>3/8</td> <td>1/4</td> </tr> </tbody> </table>	Part No	Tube	Pipe	972-4A	1/4	1/8	972-6A	3/8	1/8	972-6B	3/8	1/4												
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Part No	Tube	Pipe																																																						
978-5/32A	5/32	1/8																																																						
978-4A	1/4	1/8																																																						

## AIR BRAKE FITTINGS FOR COPPER TUBING



### *Characteristics*

Meets D.O.T. and S.A.E. Standards. Easy to assemble ( no flaring ) and come in a wide variety of configurations and sizes.

### *Applications*

Designed for use with copper tubing in truck and trailer applications including air brakes.

### *Temperature Range*

From -65°F to +250°F

### *Pressure Rating*

Up to 400 P.S.I.

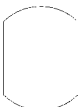
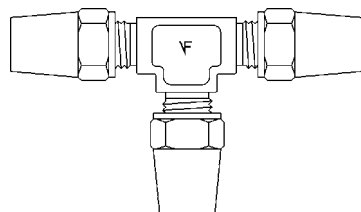
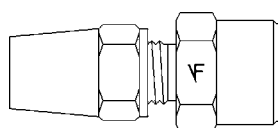
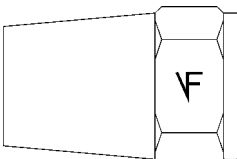
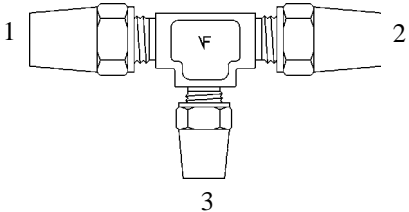
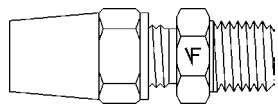
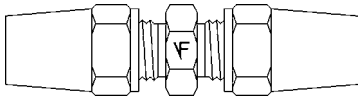
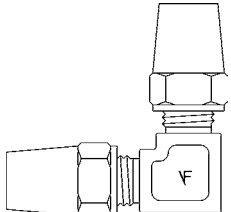
### *Assembly Instructions*

- 1) Cut tubing square and deburr.
- 2) Slide nut then sleeve onto tubing. Threaded end of nut must face out.
- 3) Insert tubing into fitting until it seats on tube stop.
- 4) Screw nut onto body finger tight.
- 5) Use chart at right as a guide for wrench tightening from finger tight.

### *Final Assembly Instructions*

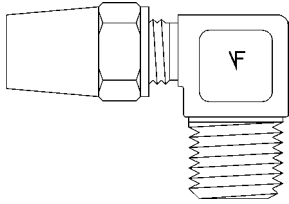
<i>Tube Outside Diameter  inches</i>	<i>Turns with wrench to seal from hand-tight</i>
<i>1/4</i>	<i>2</i>
<i>3/8</i>	<i>2</i>
<i>1/2</i>	<i>2</i>
<i>5/8</i>	<i>3</i>
<i>3/4</i>	<i>3</i>

## AIR BRAKE FITTINGS FOR COPPER TUBING

<b>Spherical Sleeve</b>		<b>Union Tee ( tube all ends )</b>		<b>Female Connector ( tube x female pipe )</b>		
						
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
1160-4	1/4	1164-4	1/4	1166-4A	1/4	1/8
1160-6	3/8	1164-6	3/8	1166-4B	1/4	1/4
1160-8	1/2	1164-8	1/2	1166-6A	3/8	1/8
1160-10	5/8	1164-10	5/8	1166-6B	3/8	1/4
1160-12	3/4	1164-12	3/4	1166-6C	3/8	3/8
1160-16	1			1166-8B	1/2	1/4
<b>Long Nut</b>		<b>Reducing Union Tee ( tube all ends )</b>		<b>Male Connector ( tube x male pipe )</b>		
						
<i>Part No</i>	<i>Tube</i>	<i>Tube Size</i>			<i>Part No</i>	
1161-4	1/4	<i>1</i>	<i>2</i>	<i>3</i>	<i>Tube</i>	<i>Pipe</i>
1161-6	3/8	1164-6-4	3/8	3/8	1/4	
1161-8	1/2					
1161-10	5/8					
1161-12	3/4					
1161-16	1					
<b>Union ( tube both ends )</b>		<b>90° Union Elbow ( tube both ends )</b>				
						
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
1162-4	1/4	1165-4	1/4	1168-4A	1/4	1/8
1162-6	3/8	1165-6	3/8	1168-4B	1/4	1/4
1162-8	1/2	1165-8	1/2	1168-4C	1/4	3/8
1162-10	5/8	1165-10	5/8	1168-6A	3/8	1/8
1162-12	3/4	1165-12	3/4	1168-6B	3/8	1/4
				1168-6C	3/8	3/8
				1168-6D	3/8	1/2
				1168-8B	1/2	1/4
				1168-8C	1/2	3/8
				1168-8D	1/2	1/2
				1168-8E	1/2	3/4
				1168-10C	5/8	3/8
				1168-10D	5/8	1/2
				1168-10E	5/8	3/4
				1168-12D	3/4	1/2
				1168-12E	3/4	3/4

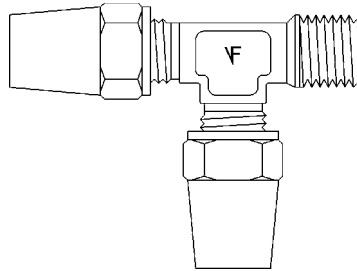
## AIR BRAKE FITTINGS FOR COPPER TUBING

**90° Male Elbow  
( tube x male pipe )**



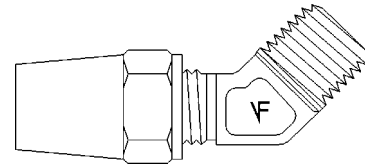
Part No	Tube	Pipe
1169-4A	1/4	1/8
1169-4B	1/4	1/4
1169-4C	1/4	3/8
1169-6A	3/8	1/8
1169-6B	3/8	1/4
1169-6C	3/8	3/8
1169-6D	3/8	1/2
1169-8B	1/2	1/4
1169-8C	1/2	3/8
1169-8D	1/2	1/2
1169-8E	1/2	3/4
1169-10C	5/8	3/8
1169-10D	5/8	1/2
1169-10E	5/8	3/4
1169-12D	3/4	1/2
1169-12E	3/4	3/4

**Male Run Tee  
( tube x male pipe  
x tube )**



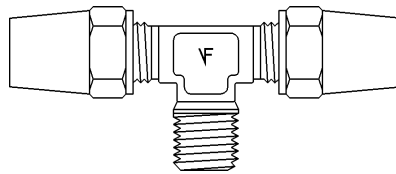
Part No	Tube	Pipe
1171-4A	1/4	1/8
1171-4B	1/4	1/4
1171-6A	3/8	1/8
1171-6B	3/8	1/4
1171-6C	3/8	3/8
1171-8C	1/2	3/8
1171-8D	1/2	1/2
1171-10D	5/8	1/2

**45° Male Pipe Elbow  
( tube x male pipe )**



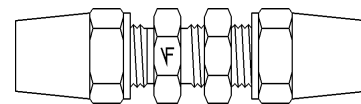
Part No	Tube	Pipe
1174-4A	1/4	1/8
1174-4B	1/4	1/4
1174-6A	3/8	1/8
1174-6B	3/8	1/4
1174-6C	3/8	3/8
1174-6D	3/8	1/2
1174-8B	1/2	1/4
1174-8C	1/2	3/8
1174-8D	1/2	1/2
1174-10D	5/8	1/2

**Male Branch Tee  
( tube x tube  
x male pipe )**



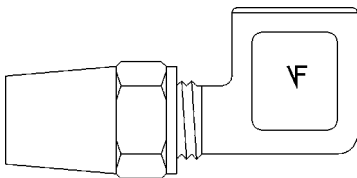
Part No	Tube	Pipe
1172-4A	1/4	1/8
1172-4B	1/4	1/4
1172-6A	3/8	1/8
1172-6B	3/8	1/4
1172-6C	3/8	3/8
1172-8C	1/2	3/8
1172-8D	1/2	1/2
1172-10D	5/8	1/2
1172-12D	3/4	1/2

**Bulkhead Union  
( tube both ends )**



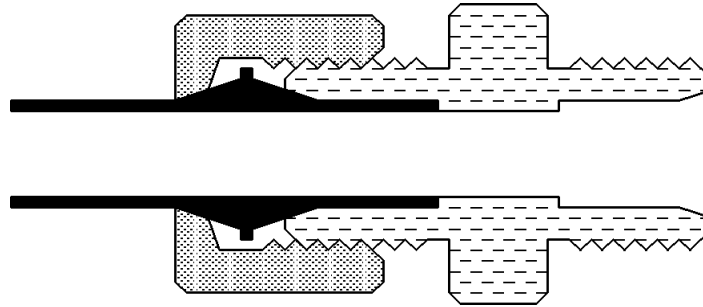
Part No	Tube
1177-4	1/4
1177-6	3/8
1177-8	1/2

**90° Female Elbow  
( tube x female pipe )**



Part No	Tube	Pipe
1170-4A	1/4	1/8
1170-4B	1/4	1/4
1170-6A	3/8	1/8
1170-6B	3/8	1/4
1170-6C	3/8	3/8
1170-8C	1/2	3/8
1170-8D	1/2	1/2
1170-10D	5/8	1/2

## ***AIR BRAKE FITTINGS FOR NYLON TUBING***



### ***Characteristics***

Designed for use exclusively with S.A.E. J844 Type 3A and Type 3B nylon tubing. Fittings are supplied with staked in tube supports and ribbed sleeves.

### ***Applications***

Used in truck air brake and cab air control systems where temperatures do not exceed +200°F or where the tubing is not exposed to battery acid.

### ***Temperature Range***

From -40°F to +200°F

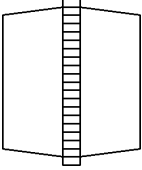
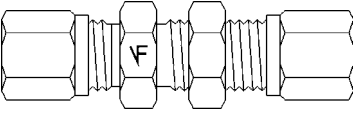
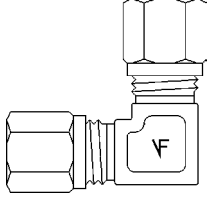
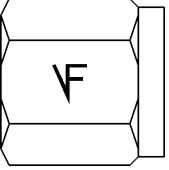
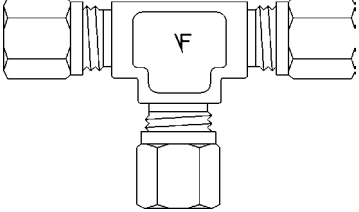
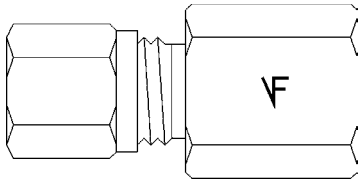
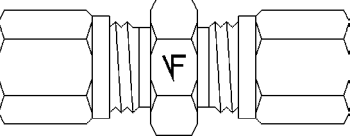
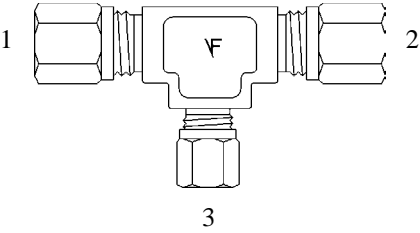
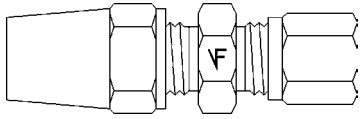
### ***Working Pressure***

Maximum 150 P.S.I.

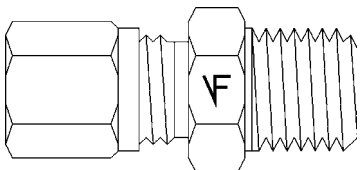
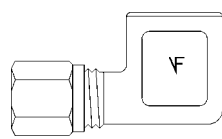
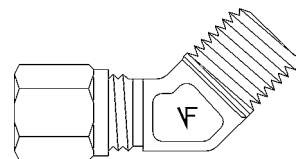
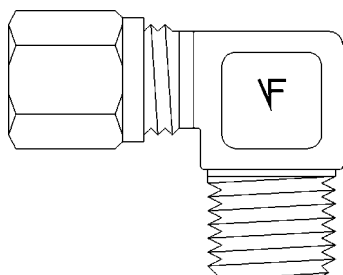
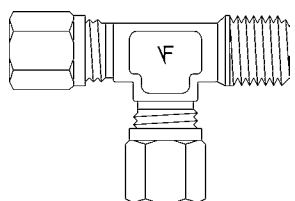
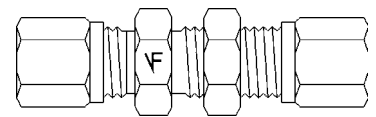
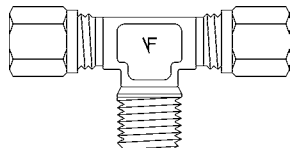
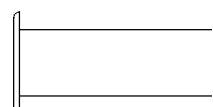
### ***Assembly Instructions***

- 1) Cut tubing squarely.
- 2) Slide nut then sleeve onto tubing, ensuring that the threaded end of nut is facing out.
- 3) Push tubing into fitting body until it bottoms onto tube stop.
- 4) Screw nut onto body until finger tight.
- 5) Wrench tighten as follows.
- 6) -4 size tighten nut to 85 to 115 inch lbs. or approx. 3 turns.
  - 6 size tighten nut to 12 to 17 foot lbs. or approx. 4 turns.
  - 8 size tighten nut to 25 to 33 foot lbs. or approx. 4 turns.
  - 10 size tighten nut to 26 to 35 foot lbs. or approx. 3-½ turns.
  - 12 size tighten nut to 38 to 50 foot lbs. or approx. 3-½ turns.

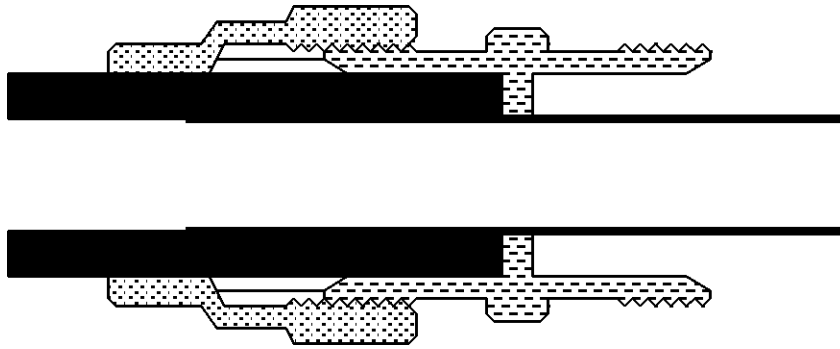
## AIR BRAKE FITTINGS FOR NYLON TUBING

<p style="text-align: center;"><b>Ribbed Sleeve</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 60%;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>1460-4</td><td>1/4</td></tr> <tr><td>1460-6</td><td>3/8</td></tr> <tr><td>1460-8</td><td>1/2</td></tr> <tr><td>1460-10</td><td>5/8</td></tr> <tr><td>1460-12</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	1460-4	1/4	1460-6	3/8	1460-8	1/2	1460-10	5/8	1460-12	3/4	<p style="text-align: center;"><b>Bulkhead Adaptor (copper x nylon)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 30%;">Part No</th> <th style="text-align: left; width: 30%;">Tube</th> <th style="text-align: left; width: 30%;">Tube</th> </tr> </thead> <tbody> <tr><td>1463-4-4</td><td>1/4</td><td>1/4</td></tr> <tr><td>1463-6-6</td><td>3/8</td><td>3/8</td></tr> <tr><td>1463-8-8</td><td>1/2</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	Tube	1463-4-4	1/4	1/4	1463-6-6	3/8	3/8	1463-8-8	1/2	1/2	<p style="text-align: center;"><b>90° Union Elbow (tube both ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 60%;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>1465-4</td><td>1/4</td></tr> <tr><td>1465-6</td><td>3/8</td></tr> <tr><td>1465-8</td><td>1/2</td></tr> <tr><td>1465-10</td><td>5/8</td></tr> <tr><td>1465-12</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	1465-4	1/4	1465-6	3/8	1465-8	1/2	1465-10	5/8	1465-12	3/4																		
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## AIR BRAKE FITTINGS FOR NYLON TUBING

<p style="text-align: center;"><b>Male Connector</b> ( tube x male pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>1468-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>1468-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>1468-4C</td><td>1/4</td><td>3/8</td></tr> <tr><td>1468-6A</td><td>3/8</td><td>1/8</td></tr> <tr><td>1468-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>1468-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>1468-6D</td><td>3/8</td><td>1/2</td></tr> <tr><td>1468-8B</td><td>1/2</td><td>1/4</td></tr> <tr><td>1468-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>1468-8D</td><td>1/2</td><td>1/2</td></tr> <tr><td>1468-10C</td><td>5/8</td><td>3/8</td></tr> <tr><td>1468-10D</td><td>5/8</td><td>1/2</td></tr> <tr><td>1468-10E</td><td>5/8</td><td>3/4</td></tr> <tr><td>1468-12D</td><td>3/4</td><td>1/2</td></tr> <tr><td>1468-12E</td><td>3/4</td><td>3/4</td></tr> </tbody> </table>	Part No	Tube	Pipe	1468-4A	1/4	1/8	1468-4B	1/4	1/4	1468-4C	1/4	3/8	1468-6A	3/8	1/8	1468-6B	3/8	1/4	1468-6C	3/8	3/8	1468-6D	3/8	1/2	1468-8B	1/2	1/4	1468-8C	1/2	3/8	1468-8D	1/2	1/2	1468-10C	5/8	3/8	1468-10D	5/8	1/2	1468-10E	5/8	3/4	1468-12D	3/4	1/2	1468-12E	3/4	3/4	<p style="text-align: center;"><b>90° Female Elbow</b> ( tube x female pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>1470-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>1470-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>1470-6A</td><td>3/8</td><td>1/8</td></tr> <tr><td>1470-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>1470-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>1470-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>1470-8D</td><td>1/2</td><td>1/2</td></tr> <tr><td>1470-10D</td><td>5/8</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	Pipe	1470-4A	1/4	1/8	1470-4B	1/4	1/4	1470-6A	3/8	1/8	1470-6B	3/8	1/4	1470-6C	3/8	3/8	1470-8C	1/2	3/8	1470-8D	1/2	1/2	1470-10D	5/8	1/2	<p style="text-align: center;"><b>45° Male Elbow</b> ( tube x male pipe )</p>  <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>1474-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>1474-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>1474-6A</td><td>3/8</td><td>1/8</td></tr> <tr><td>1474-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>1474-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>1474-6D</td><td>3/8</td><td>1/2</td></tr> <tr><td>1474-8B</td><td>1/2</td><td>1/4</td></tr> <tr><td>1474-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>1474-8D</td><td>1/2</td><td>1/2</td></tr> <tr><td>1474-10C</td><td>5/8</td><td>3/8</td></tr> <tr><td>1474-10D</td><td>5/8</td><td>1/2</td></tr> <tr><td>1474-12D</td><td>3/4</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	Pipe	1474-4A	1/4	1/8	1474-4B	1/4	1/4	1474-6A	3/8	1/8	1474-6B	3/8	1/4	1474-6C	3/8	3/8	1474-6D	3/8	1/2	1474-8B	1/2	1/4	1474-8C	1/2	3/8	1474-8D	1/2	1/2	1474-10C	5/8	3/8	1474-10D	5/8	1/2	1474-12D	3/4	1/2
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## *AIR BRAKE HOSE ENDS*



### *Characteristics*

Serrated sleeve provides excellent hose retention. Meets with D.O.T. FMVSS571.106 standards when used with S.A.E. J1402 type hose.

### *Applications*

All air brake systems using S.A.E. Type J1402 air brake hose.

### *Temperature Rating*

From -40°F to +200°F.

### *Working Pressure*

Up to 125 P.S.I.

### *Assembly Instructions*

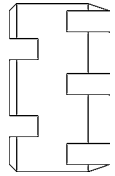
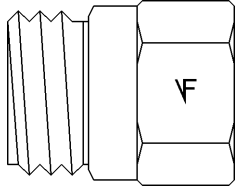
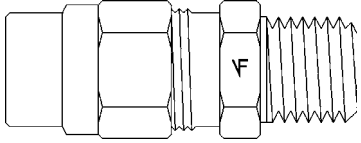
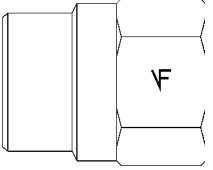

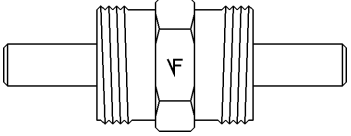

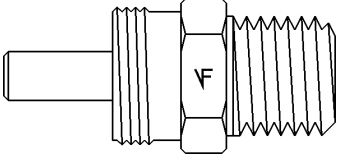
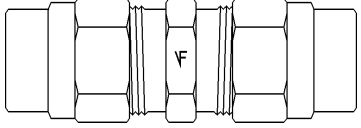
- 1) Slide nut onto hose, ensuring that threaded end faces end of hose.
- 2) Slide sleeve onto hose with tapered end directed toward fitting body.
- 3) Push hose onto fitting until it bottoms out.
- 4) Tighten nut onto fitting body until nut contacts fitting body.
- 5) If reassembly is required, sleeve must be replaced, it is not reuseable.

### *Thread Sizes*

The -6 hose size, manufactured for use with 3/8" I.D. hose uses a 31/32-20 straight thread on the compression end.

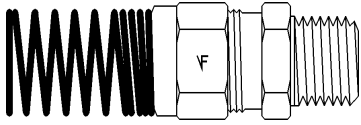
The -8 hose size, manufactured for use with 1/2" I.D. hose uses a 1-3/32-20 straight thread on the compression end.

## AIR BRAKE HOSE ENDS

<p style="text-align: center;"><b>Hose Sleeve</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> </tr> </thead> <tbody> <tr> <td>1490-6</td> <td>3/8</td> </tr> <tr> <td>1490-8</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	1490-6	3/8	1490-8	1/2	<p style="text-align: center;"><b>Hose Guard Nut (nut only)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> </tr> </thead> <tbody> <tr> <td>1494N-6</td> <td>3/8</td> </tr> <tr> <td>1494N-8</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	1494N-6	3/8	1494N-8	1/2	<p style="text-align: center;"><b>Hose Connector (hose x male pipe)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> <th style="text-align: left;"><i>Pipe</i></th> </tr> </thead> <tbody> <tr> <td>1492-6B</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>1492-6C</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>1492-6D</td> <td>3/8</td> <td>1/2</td> </tr> <tr> <td>1492-8C</td> <td>1/2</td> <td>3/8</td> </tr> <tr> <td>1492-8D</td> <td>1/2</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	<i>Pipe</i>	1492-6B	3/8	1/4	1492-6C	3/8	3/8	1492-6D	3/8	1/2	1492-8C	1/2	3/8	1492-8D	1/2	1/2
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1492-6D	3/8	1/2																														
1492-8C	1/2	3/8																														
1492-8D	1/2	1/2																														
<p style="text-align: center;"><b>Standard Hose Nut</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> </tr> </thead> <tbody> <tr> <td>1491-6</td> <td>3/8</td> </tr> <tr> <td>1491-8</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	1491-6	3/8	1491-8	1/2	<p style="text-align: center;"><b>Hose Gaurd Spring (spring only)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> </tr> </thead> <tbody> <tr> <td>1494S-6</td> <td>3/8</td> </tr> <tr> <td>1494S-8</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	1494S-6	3/8	1494S-8	1/2	<p style="text-align: center;"><b>Hose Splicer Body (hose both ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> </tr> </thead> <tbody> <tr> <td>B1492-6S</td> <td>3/8</td> </tr> <tr> <td>B1492-8S</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	B1492-6S	3/8	B1492-8S	1/2												
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B1492-8S	1/2																															
<p style="text-align: center;"><b>Hose Guard Nut (complete with spring)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> </tr> </thead> <tbody> <tr> <td>1494-6</td> <td>3/8</td> </tr> <tr> <td>1494-8</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	1494-6	3/8	1494-8	1/2	<p style="text-align: center;"><b>Hose Connector Body (hose x male pipe)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> <th style="text-align: left;"><i>Pipe</i></th> </tr> </thead> <tbody> <tr> <td>B1492-6B</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>B1492-6C</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>B1492-6D</td> <td>3/8</td> <td>1/2</td> </tr> <tr> <td>B1492-8C</td> <td>1/2</td> <td>3/8</td> </tr> <tr> <td>B1492-8D</td> <td>1/2</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	<i>Pipe</i>	B1492-6B	3/8	1/4	B1492-6C	3/8	3/8	B1492-6D	3/8	1/2	B1492-8C	1/2	3/8	B1492-8D	1/2	1/2	<p style="text-align: center;"><b>Hose Splicer (hose both ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Hose</i></th> </tr> </thead> <tbody> <tr> <td>1492-6S</td> <td>3/8</td> </tr> <tr> <td>1492-8S</td> <td>1/2</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Hose</i>	1492-6S	3/8	1492-8S	1/2
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1492-8S	1/2																															

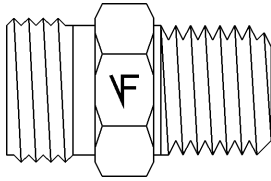
## AIR BRAKE HOSE ENDS

**Hose Guard Connector  
( hose x male pipe )**



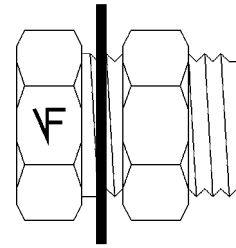
Part No	Hose	Pipe
1493-6B	3/8	1/4
1493-6C	3/8	3/8
1493-6D	3/8	1/2
1493-8C	1/2	3/8
1493-8D	1/2	1/2

**Male Adaptor  
( straight thread to male pipe )**



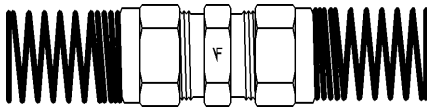
Part No	Thread	Pipe
1501-6B	3/4-20	1/4
1501-6C	3/4-20	3/8
1501-8C	7/8-20	3/8
1501-8D	7/8-20	1/2

**Brass Terminal Bolts  
( female pipe both ends )**



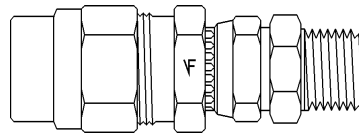
Part No	Pipe	Length
1495-AB	1/8	1-1/2"
1495-SB	1/4	31/32"
1495-LB	1/4	1-1/2"
1495-CB	3/8	1-5/16"
1495-DB	1/2	1-1/2"

**Hose Guard Splicer  
( hose both ends )**



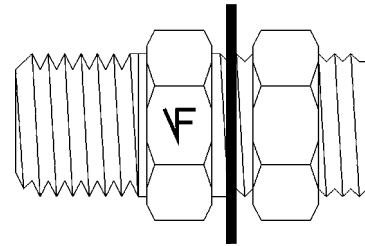
Part No	Hose
1493-6S	3/8
1493-8S	1/2

**Swivel Connector Assembly  
( complete with male adaptor )**



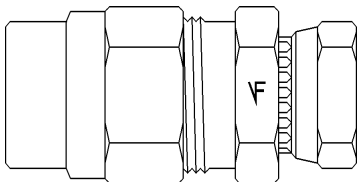
Part No	Hose	Pipe
1502-6B	3/8	1/4
1502-6C	3/8	3/8
1502-8C	1/2	3/8
1502-8D	1/2	1/2

**Steel Terminal Bolt  
( male x female pipe )**



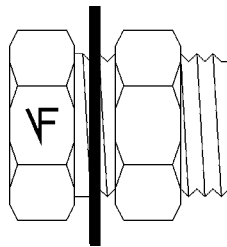
Part No	Male	Female
1496-DB	1/2	1/4
1496-DC	1/2	3/8

**Female Swivel Connector  
( hose x straight thread )**



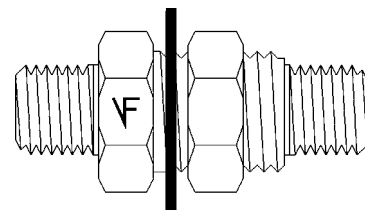
Part No	Hose	Thread
1500-6	3/8	3/4-20
1500-8	1/2	7/8-20

**Steel Terminal Bolt  
( female pipe both ends )**



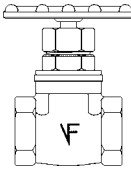
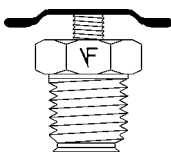
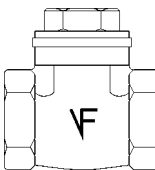
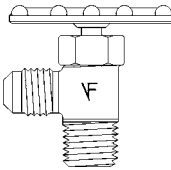
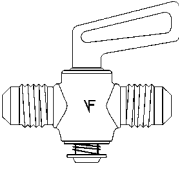
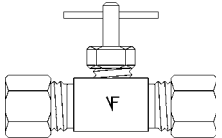
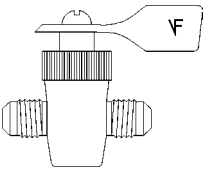
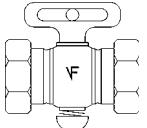
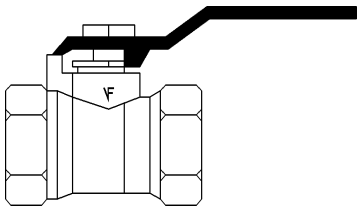
Part No	Pipe	Length
1495-L	1/4	1-1/2"
1495-S	1/4	31/32"
1495-C	3/8	1-3/8"

**Steel Terminal Bolt  
( male pipe x male pipe  
x female pipe )**



Part No	Male	Female
1497-DB	1/2	1/4

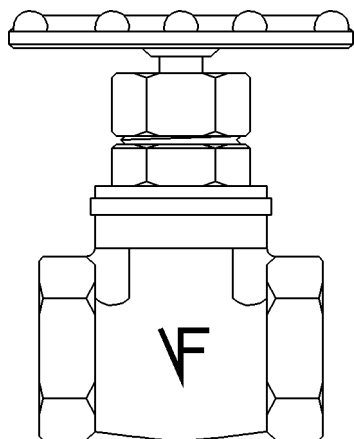
**VALVES**

<b><i>GATE VALVES</i></b>		<b><i>PAGE 66</i></b>
<b><i>DRAIN COCKS</i></b>		<b><i>PAGES 66-67</i></b>
<b><i>SWING CHECK</i></b>		<b><i>PAGE 67</i></b>
<b><i>TRUCK</i></b>		<b><i>PAGE 67</i></b>
<b><i>SPRING LOADED</i></b>		<b><i>PAGES 68-69</i></b>
<b><i>NEEDLE SEAT</i></b>		<b><i>PAGES 69-71</i></b>
<b><i>SOLID BOTTOM</i></b>		<b><i>PAGE 71</i></b>
<b><i>AIR COCKS</i></b>		<b><i>PAGES 72-73</i></b>
<b><i>BALL VALVES</i></b>		<b><i>PAGES 74-75</i></b>

## VALVES

### Gate Valves

Non-rising stem design, with a solid wedge shaped disc. Available with pipe threaded or solder type ports. Working pressure up to 200 P.S.I. at +73°F non-shock water, oil and gas.



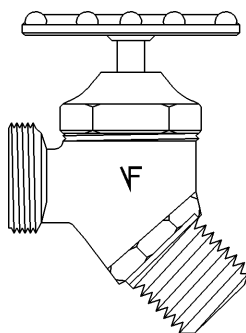
#### With Pipe Ports

<i>Part No</i>	<i>Pipe</i>
217-B	1/4
217-C	3/8
217-D	1/2
217-E	3/4
217-F	1
217-G	1-1/4
217-H	1-1/2
217-I	2
217-J	2-1/2
217-K	3
217-L	4

#### With Solder Ports

<i>Part No</i>	<i>Copper Pipe</i>
SW217-D	1/2
SW217-E	3/4
SW217-F	1
SW217-G	1-1/4
SW217-H	1-1/2
SW217-I	2

### 45° Angle Boiler Drain (3/4-11½ N.H. x male pipe)

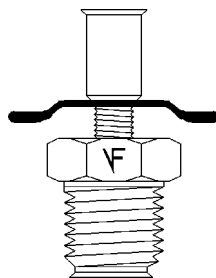


<i>Part No</i>	<i>Pipe</i>
224-D	1/2
224-E	3/4

### Drain Cocks

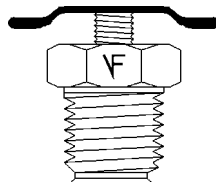
Designed for automotive and industrial use. Metal to metal seats require only hand tightening for leakproof seal. Working pressures of up to 150 P.S.I. maximum.

#### External Seat (with bibb extension)



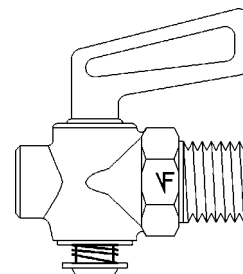
<i>Part No</i>	<i>Pipe</i>
239-B	1/4

#### External Seat



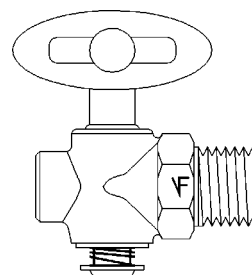
<i>Part No</i>	<i>Pipe</i>
240-A	1/8
240-B	1/4
240-C	3/8
240-D	1/2

### Ground Plug Drain Valve (lever handle)



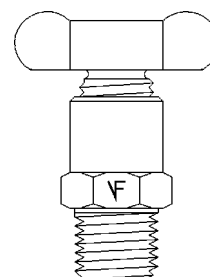
<i>Part No</i>	<i>Pipe</i>
241-A	1/8
241-B	1/4
241-C	3/8
241-D	1/2

### Ground Plug Drain Valve ( " T " handle )



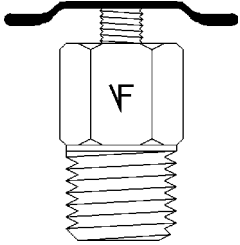
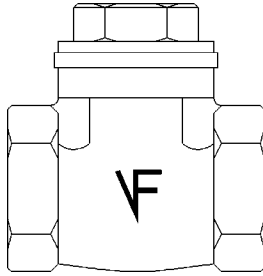
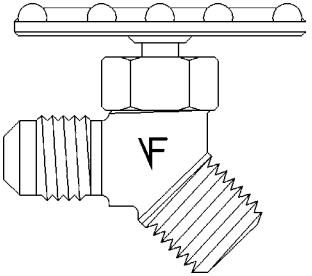
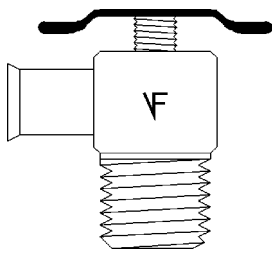
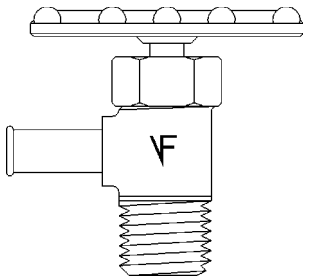
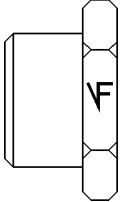
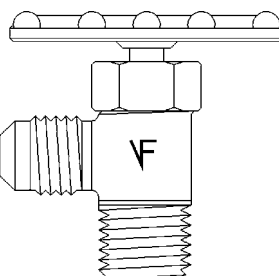
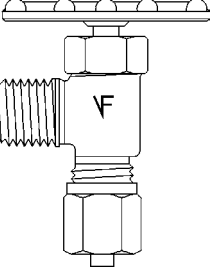
<i>Part No</i>	<i>Pipe</i>
T241-B	1/4

### Brass Two Piece (internal seat)



<i>Part No</i>	<i>Pipe</i>
242-A	1/8
242-B	1/4
242-C	3/8

## VALVES

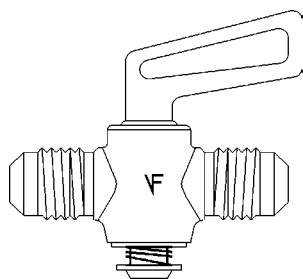
<p style="text-align: center;"><b>Steel Handle Two Piece (internal seat)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>243-A</td> <td>1/8</td> </tr> <tr> <td>243-B</td> <td>1/4</td> </tr> </tbody> </table>	Part No	Pipe	243-A	1/8	243-B	1/4	<p style="text-align: center;"><b>Swing Check Valve (200P.S.I. WOG)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>293-D</td> <td>1/2</td> </tr> <tr> <td>293-E</td> <td>3/4</td> </tr> <tr> <td>293-F</td> <td>1</td> </tr> <tr> <td>293-G</td> <td>1-1/4</td> </tr> <tr> <td>293-H</td> <td>1-1/2</td> </tr> <tr> <td>293-I</td> <td>2</td> </tr> <tr> <td>293-J</td> <td>2-1/2</td> </tr> <tr> <td>293-K</td> <td>3</td> </tr> <tr> <td>293-L</td> <td>4</td> </tr> </tbody> </table>	Part No	Pipe	293-D	1/2	293-E	3/4	293-F	1	293-G	1-1/4	293-H	1-1/2	293-I	2	293-J	2-1/2	293-K	3	293-L	4	<p style="text-align: center;"><b>45° Truck Valve (flare x male pipe)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>1054-6D</td> <td>3/8</td> <td>1/2</td> </tr> <tr> <td>1054-6E</td> <td>3/8</td> <td>3/4</td> </tr> <tr> <td>1054-8E</td> <td>1/2</td> <td>3/4</td> </tr> </tbody> </table>	Part No	Tube	Pipe	1054-6D	3/8	1/2	1054-6E	3/8	3/4	1054-8E	1/2	3/4
Part No	Pipe																																							
243-A	1/8																																							
243-B	1/4																																							
Part No	Pipe																																							
293-D	1/2																																							
293-E	3/4																																							
293-F	1																																							
293-G	1-1/4																																							
293-H	1-1/2																																							
293-I	2																																							
293-J	2-1/2																																							
293-K	3																																							
293-L	4																																							
Part No	Tube	Pipe																																						
1054-6D	3/8	1/2																																						
1054-6E	3/8	3/4																																						
1054-8E	1/2	3/4																																						
<p style="text-align: center;"><b>90° Two Piece Extended Bibb (internal Seat)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>245-A</td> <td>1/8</td> </tr> <tr> <td>245-B</td> <td>1/4</td> </tr> </tbody> </table>	Part No	Pipe	245-A	1/8	245-B	1/4	<p style="text-align: center;"><b>Truck Valves</b></p> <p>This series of valves, have metal to metal seats and incorporate a fine thread on the valve stem to allow fine adjustment of flow up to the flow limit of the valve. This series is rated at 30 P.S.I. at 73°F.</p>	<p style="text-align: center;"><b>90° Truck Valve (hose x male pipe)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Hose</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>1139-6C</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>1139-8C</td> <td>1/2</td> <td>3/8</td> </tr> <tr> <td>1139-10C</td> <td>5/8</td> <td>3/8</td> </tr> <tr> <td>1139-10D</td> <td>5/8</td> <td>1/2</td> </tr> <tr> <td>1139-12C</td> <td>3/4</td> <td>3/8</td> </tr> <tr> <td>1139-12D</td> <td>3/4</td> <td>1/2</td> </tr> </tbody> </table>	Part No	Hose	Pipe	1139-6C	3/8	3/8	1139-8C	1/2	3/8	1139-10C	5/8	3/8	1139-10D	5/8	1/2	1139-12C	3/4	3/8	1139-12D	3/4	1/2											
Part No	Pipe																																							
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1139-12C	3/4	3/8																																						
1139-12D	3/4	1/2																																						
<p style="text-align: center;"><b>Radiator Drain Flange (female pipe)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>1500-B</td> <td>HEX 1/4</td> </tr> <tr> <td>1500-BR</td> <td>ROUND 1/4</td> </tr> </tbody> </table>	Part No	Pipe	1500-B	HEX 1/4	1500-BR	ROUND 1/4	<p style="text-align: center;"><b>90° Truck Valve (flare x male pipe)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>1049-6B</td> <td>3/8</td> <td>1/4</td> </tr> <tr> <td>1049-6C</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>1049-6D</td> <td>3/8</td> <td>1/2</td> </tr> <tr> <td>1049-8C</td> <td>1/2</td> <td>3/8</td> </tr> <tr> <td>1049-8D</td> <td>1/2</td> <td>1/2</td> </tr> <tr> <td>1049-10D</td> <td>5/8</td> <td>1/2</td> </tr> </tbody> </table>	Part No	Tube	Pipe	1049-6B	3/8	1/4	1049-6C	3/8	3/8	1049-6D	3/8	1/2	1049-8C	1/2	3/8	1049-8D	1/2	1/2	1049-10D	5/8	1/2	<p style="text-align: center;"><b>90° Truck Valve (air brake compression x male pipe)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>1410-10D</td> <td>5/8</td> <td>1/2</td> </tr> </tbody> </table>	Part No	Tube	Pipe	1410-10D	5/8	1/2					
Part No	Pipe																																							
1500-B	HEX 1/4																																							
1500-BR	ROUND 1/4																																							
Part No	Tube	Pipe																																						
1049-6B	3/8	1/4																																						
1049-6C	3/8	3/8																																						
1049-6D	3/8	1/2																																						
1049-8C	1/2	3/8																																						
1049-8D	1/2	1/2																																						
1049-10D	5/8	1/2																																						
Part No	Tube	Pipe																																						
1410-10D	5/8	1/2																																						

## VALVES

### **Spring Bottom Valve**

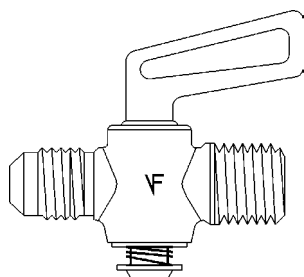
These ground plug valves are pressure rated to 30 P.S.I. and are commonly used in water process piping and air supply systems. This series of valves is not recommended for use with gasoline.

#### **Flare Union (flare both ends)**



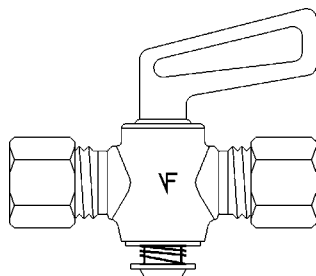
Part No	Tube
2042-4	1/4
2042-5	5/16
2042-6	3/8
2042-8	1/2
2042-10	5/8

#### **Flare Connector (flare x male pipe)**



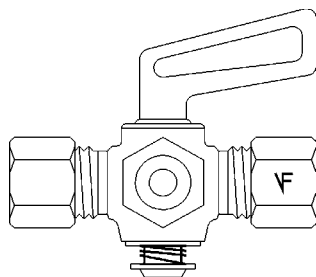
Part No	Tube	Pipe
2048-4A	1/4	1/8
2048-4B	1/4	1/4
2048-5A	5/16	1/8
2048-5B	5/16	1/4
2048-6B	3/8	1/4
2048-6C	3/8	3/8
2048-8C	1/2	3/8

### **Compression Union (tube both ends)**



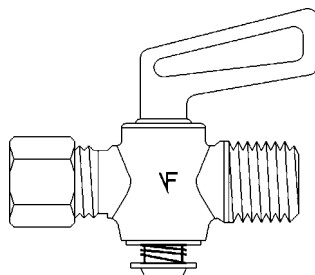
Part No	Tube
2062-4	1/4
2062-5	5/16
2062-6	3/8
2062-8	1/2

### **Three Way Compression (compression all ends)**



Part No	Tube
2064-4	1/4
2064-5	5/16
2064-6	3/8

### **Compression Connector (tube x male pipe)**

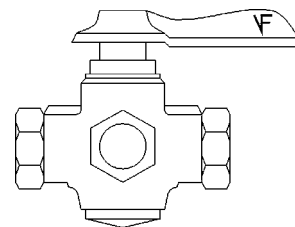


Part No	Tube	Pipe
2068-4A	1/4	1/8
2068-4B	1/4	1/4
2068-5A	5/16	1/8
2068-5B	5/16	1/4
2068-6B	3/8	1/4
2068-6C	3/8	3/8

### **Three and Four-Way Valves**

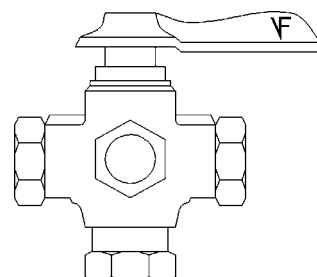
Both three and four way valves are solid bottom valves that incorporate a celcon\*plug for a non-lubricated seal. Working pressure up to 30 P.S.I.

#### **Three-Way Valve (pipe all ends)**



Part No	Pipe	Stem Length
2101-A	1/8	1-3/8
2101-B	1/4	1-3/8
2101-BS	1/4	3/4
2101-C	3/8	1-3/8

#### **Four-Way Valve (pipe all ends)**



Part No	Pipe	Stem Length
2102-A	1/8	1-3/8
2102-B	1/4	2-3/8
2102-BL	1/4	3-3/4
2102-BS	1/4	1-3/8
2102-C	3/8	2-3/8
2102-CL	3/8	3-3/4
2102-CS	3/8	1-3/8

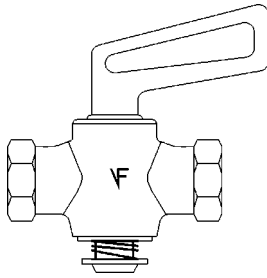
*\*Trademark of Hoechst Celanese*

## VALVES

### **Spring Bottom Valve**

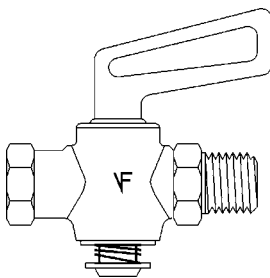
These ground plug valves are pressure rated to 30 P.S.I. and are commonly used in water process piping and air supply systems. This series of valves is not recommended for use with gasoline.

#### **Female Pipe Coupling ( pipe both ends )**



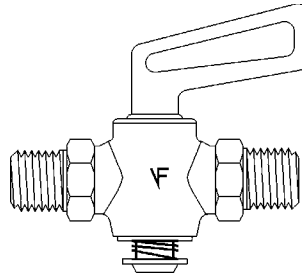
Part No	Pipe
2103-A	1/8
2103-B	1/4
2103-C	3/8
* 2103-D	1/2
* DISCONTINUED ITEM - LIMITED STOCK	

#### **Pipe Adaptor ( female x male pipe )**



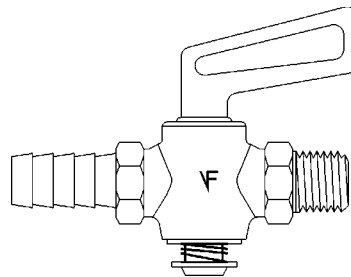
Part No	Pipe
2120-A	1/8
2120-B	1/4
2120-C	3/8

### **Male Pipe Coupling ( pipe both ends )**



Part No	Pipe
2122-A	1/8
2122-B	1/4
2122-C	3/8

### **Hose Connector ( hose x male pipe )**

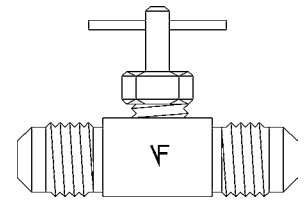


Part No	Hose	Pipe
2125-4B	1/4	1/4
2125-6B	3/8	1/4
2125-6C	3/8	3/8

### **Needle Valves**

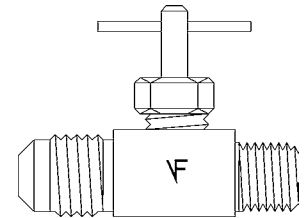
Designed for leakproof operation up to 150 P.S.I., this series of valves have a metal seat and a fine thread stem, that can be used to control the flow up to the maximum capacity of the valve. Some care must be taken when installing this series of valves. The pressure side of the application must be directed to the bottom of the needle seat.

### **Flare Union ( flare both ends )**



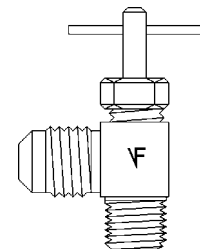
Part No	Tube
3042-4	1/4
3042-6	3/8

### **Flare Connector ( flare x male pipe )**



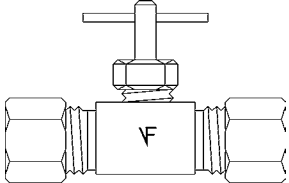
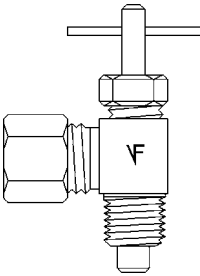
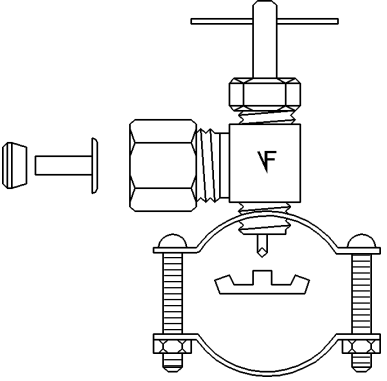
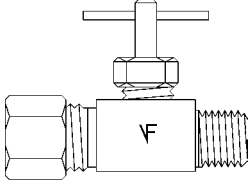
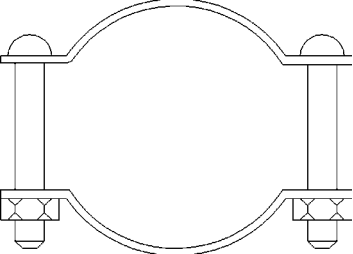
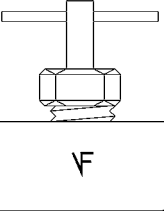
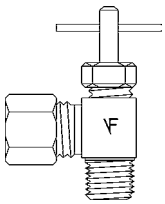
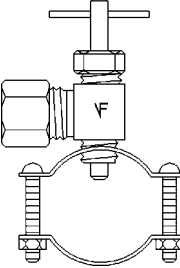
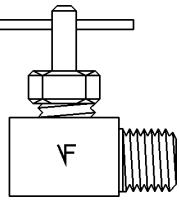
Part No	Tube	Pipe
3048-4A	1/4	1/8
3048-4B	1/4	1/4
3048-5A	5/16	1/8
3048-5B	5/16	1/4
3048-6B	3/8	1/4

### **90° Flare x Male Elbow ( flare x male pipe )**

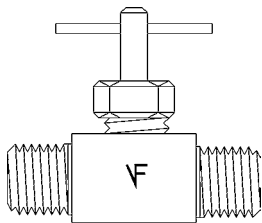
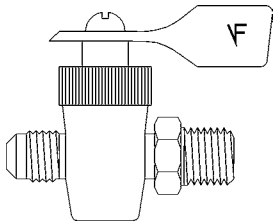
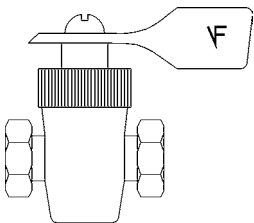
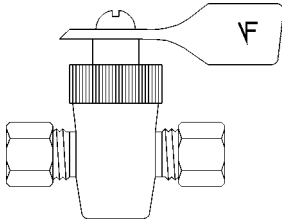
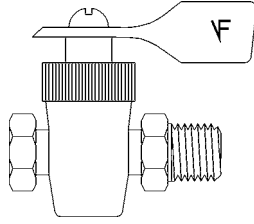
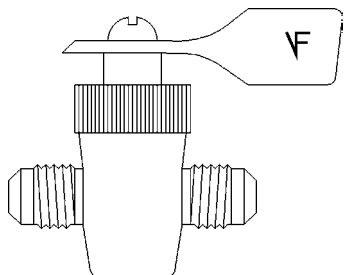
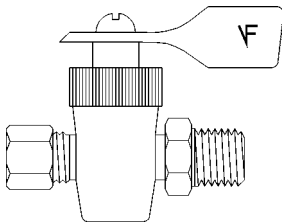
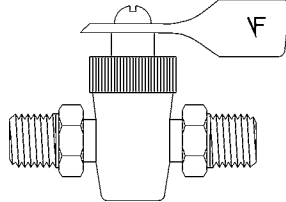


Part No	Tube	Pipe
3049-4A	1/4	1/8
3049-4B	1/4	1/4
3049-5A	5/16	1/8
3049-5B	5/16	1/4
3049-6B	3/8	1/4

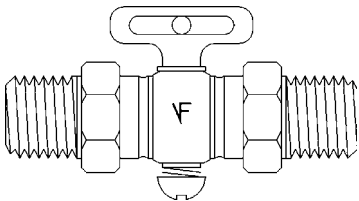
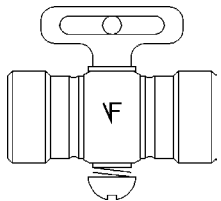
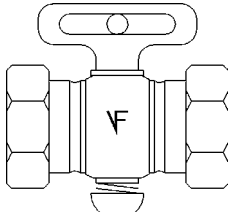
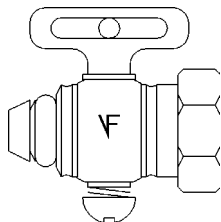
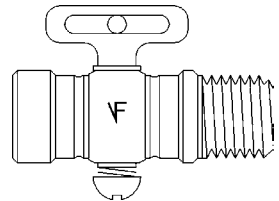
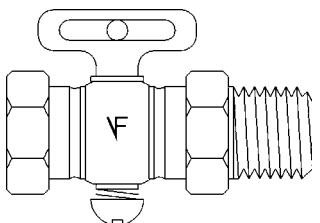
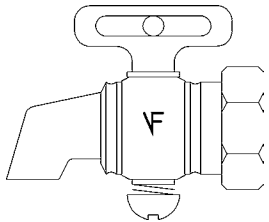
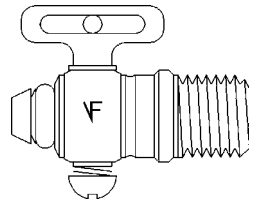
## VALVES

<p style="text-align: center;"><b>Compression Union (tube both ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>3062-3</td><td>3/16</td></tr> <tr><td>3062-4</td><td>1/4</td></tr> <tr><td>3062-5</td><td>5/16</td></tr> <tr><td>3062-6</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	3062-3	3/16	3062-4	1/4	3062-5	5/16	3062-6	3/8	<p style="text-align: center;"><b>Humidifier Valve (tube x male pipe with extension)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>3069-4T</td> <td>1/4</td> <td>1/8</td> </tr> </tbody> </table>	Part No	Tube	Pipe	3069-4T	1/4	1/8	<p style="text-align: center;"><b>Self-Piercing Humidifier Valve Kit (for 1/2" copper pipe)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr> <td>S3069-ST-4</td> <td>1/4</td> </tr> </tbody> </table>	Part No	Tube	S3069-ST-4	1/4																
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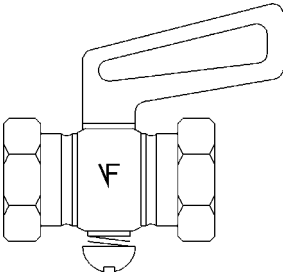
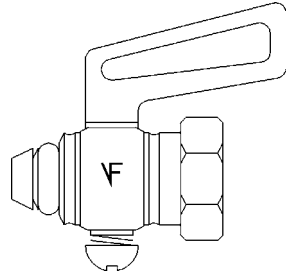
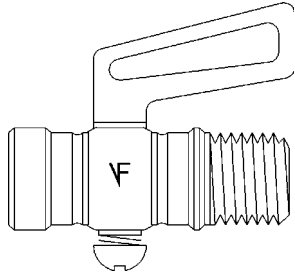
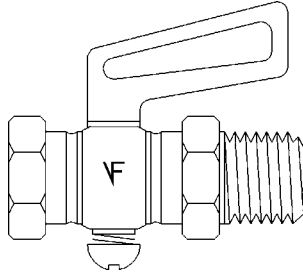
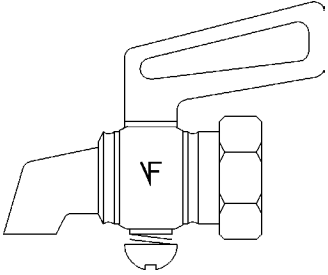
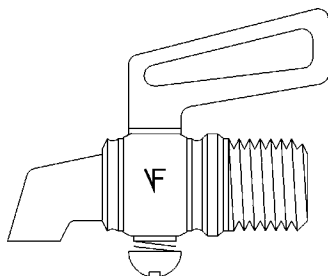
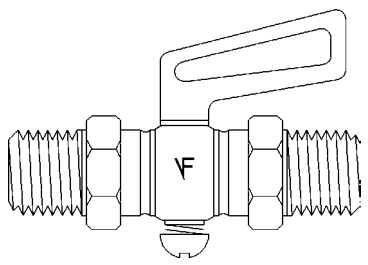
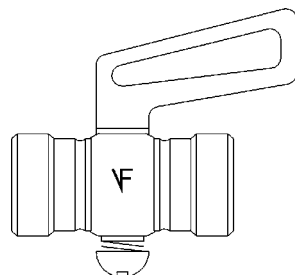
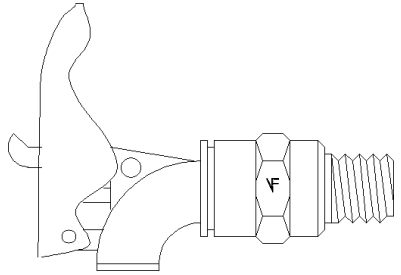
## VALVES

<p style="text-align: center;"><b>Male Pipe Connector (pipe both ends)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr> <td>3122-A</td> <td>1/8</td> </tr> <tr> <td>3122-B</td> <td>1/4</td> </tr> </tbody> </table>	Part No	Pipe	3122-A	1/8	3122-B	1/4	<p style="text-align: center;"><b>Flare x Male Pipe Connector (tube x male pipe)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>5048-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>5048-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>5048-5A</td><td>5/16</td><td>1/8</td></tr> <tr><td>5048-5B</td><td>5/16</td><td>1/4</td></tr> <tr><td>5048-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>5048-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>5048-6D</td><td>3/8</td><td>1/2</td></tr> <tr><td>5048-8C</td><td>1/2</td><td>3/8</td></tr> </tbody> </table>	Part No	Tube	Pipe	5048-4A	1/4	1/8	5048-4B	1/4	1/4	5048-5A	5/16	1/8	5048-5B	5/16	1/4	5048-6B	3/8	1/4	5048-6C	3/8	3/8	5048-6D	3/8	1/2	5048-8C	1/2	3/8	<p style="text-align: center;"><b>Female Connector (female pipe both ends)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>5103-A</td><td>1/8</td></tr> <tr><td>5103-B</td><td>1/4</td></tr> <tr><td>5103-C</td><td>3/8</td></tr> </tbody> </table>	Part No	Pipe	5103-A	1/8	5103-B	1/4	5103-C	3/8
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<p style="text-align: center;"><b>Special Duty Valves</b></p> <p>These solid bottom, O-ring sealed plug valves are designed to have a maximum working pressure of 30 P.S.I.. Used in applications involving gasoline or kerosene or in air systems.</p>	<p style="text-align: center;"><b>Compression Union (tube both ends)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Tube</th> </tr> </thead> <tbody> <tr><td>5062-4</td><td>1/4</td></tr> <tr><td>5062-6</td><td>3/8</td></tr> <tr><td>5062-8</td><td>1/2</td></tr> </tbody> </table>	Part No	Tube	5062-4	1/4	5062-6	3/8	5062-8	1/2	<p style="text-align: center;"><b>Pipe Adaptor (female x male pipe)</b></p>  <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Part No</th> <th style="text-align: left;">Pipe</th> </tr> </thead> <tbody> <tr><td>5120-A</td><td>1/8</td></tr> <tr><td>5120-B</td><td>1/4</td></tr> <tr><td>5120-C</td><td>3/8</td></tr> </tbody> </table>	Part No	Pipe	5120-A	1/8	5120-B	1/4	5120-C	3/8																									
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## VALVES

<p><b>Air Cocks</b></p> <p>Recommended for air service at up to 100 P.S.I. at 73° F. The series descriptions are as follows:</p> <p>6000 series all have Tee Handles and Hex Shoulders.</p> <p>7000 series all have Tee Handles and Round Shoulders.</p> <p>8000 series all have Lever Handles and Hex Shoulders.</p> <p>9000 series all have Lever Handles and Round Shoulders.</p>	<p style="text-align: center;"><b>Male Coupling ( male pipe both ends )</b></p> <div style="text-align: center;">  </div> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Pipe</i></th> </tr> </thead> <tbody> <tr><td>6122-A</td><td>1/8</td></tr> <tr><td>6122-B</td><td>1/4</td></tr> <tr><td>6122-C</td><td>3/8</td></tr> <tr><td>6122-D</td><td>1/2</td></tr> </tbody> </table>	<i>Part No</i>	<i>Pipe</i>	6122-A	1/8	6122-B	1/4	6122-C	3/8	6122-D	1/2	<p style="text-align: center;"><b>Female Coupling ( female pipe both ends )</b></p> <div style="text-align: center;">  </div> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Pipe</i></th> </tr> </thead> <tbody> <tr><td>7103-A</td><td>1/8</td></tr> <tr><td>7103-B</td><td>1/4</td></tr> <tr><td>7103-C</td><td>3/8</td></tr> </tbody> </table>	<i>Part No</i>	<i>Pipe</i>	7103-A	1/8	7103-B	1/4	7103-C	3/8						
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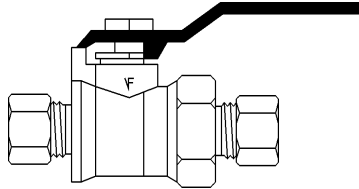
## VALVES

<p style="text-align: center;"><b>Female Coupling (female pipe both ends)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 50%;">Part No</th> <th style="text-align: left; width: 50%;">Pipe</th> </tr> </thead> <tbody> <tr><td>8103-A</td><td>1/8</td></tr> <tr><td>8103-B</td><td>1/4</td></tr> <tr><td>8103-C</td><td>3/8</td></tr> <tr><td>8103-D</td><td>1/2</td></tr> </tbody> </table>	Part No	Pipe	8103-A	1/8	8103-B	1/4	8103-C	3/8	8103-D	1/2	<p style="text-align: center;"><b>Male Drain Type (pipe one end)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 50%;">Part No</th> <th style="text-align: left; width: 50%;">Pipe</th> </tr> </thead> <tbody> <tr><td>8125-A</td><td>1/8</td></tr> <tr><td>8125-B</td><td>1/4</td></tr> <tr><td>8125-C</td><td>3/8</td></tr> <tr><td>8125-D</td><td>1/2</td></tr> </tbody> </table>	Part No	Pipe	8125-A	1/8	8125-B	1/4	8125-C	3/8	8125-D	1/2	<p style="text-align: center;"><b>Pipe Adaptor (female x male pipe)</b></p>  <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 50%;">Part No</th> <th style="text-align: left; width: 50%;">Pipe</th> </tr> </thead> <tbody> <tr><td>9120-A</td><td>1/8</td></tr> <tr><td>9120-B</td><td>1/4</td></tr> <tr><td>9120-C</td><td>3/8</td></tr> </tbody> </table>	Part No	Pipe	9120-A	1/8	9120-B	1/4	9120-C	3/8
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9103-B	1/4																													
9103-C	3/8																													
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G261	3/4																													

## BALL VALVES

### Standard Port Ball Valve

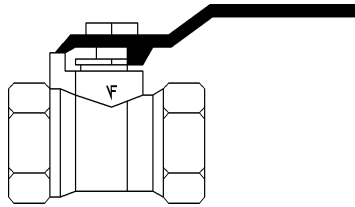
With compression type ends for copper pipe, blow-out proof stem. Pressure rated at 400 P.S.I. WOG up to 250° F. and 150 P.S.I. saturated steam. With lever handle.



Part No	Copper Pipe
BV2062-10	1/2" NOM. (5/8 O.D.)
BV2062-14	3/4" NOM. (7/8 O.D.)
BV2062-18	1" NOM. (1 1/8 O.D.)

### Standard Port Ball Valve (with female pipe ends)

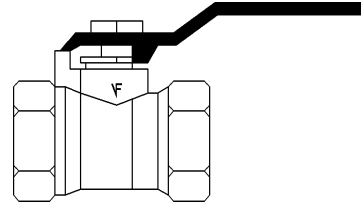
Pressure rated at 400 P.S.I. WOG up to 250°F and 150 P.S.I. saturated steam. With lever handle.



Part No	Pipe
BV2103-B	1/4
BV2103-C	3/8
BV2103-D	1/2
BV2103-E	3/4
BV2103-F	1
BV2103-G	1-1/4
BV2103-H	1-1/2
BV2103-I	2
BV2103-J	2-1/2
BV2103-K	3
BV2103-L	4

### Full Port Ball Valve (with female pipe ends)

Pressure rated at 600 P.S.I. WOG up to 250°F and 150 P.S.I. saturated steam. With lever handle.

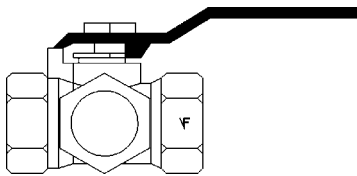


Part No	Pipe
BV2103-B-FP	1/4
BV2103-C-FP	3/8
* BV2103-D-FP	1/2
* BV2103-E-FP	3/4
* BV2103-F-FP	1
* BV2103-G-FP	1-1/4
* BV2103-H-FP	1-1/2
* BV2103-I-FP	2
* BV2103-J-FP	2-1/2
* BV2103-K-FP	3
BV2103-L-FP	4

\* ALSO AVAILABLE IN 400 W.O.G.

### Standard Port Three Way Ball Valve (with female pipe ends)

Rated at 200 P.S.I. W.O.G. and 150 P.S.I. saturated steam. With lever handle.



Part No	Pipe
BV2101-D	1/2
BV2101-E	3/4
BV2101-F	1

### Standard Port Ball Valve (with solder ends)

Rated at 400 P.S.I. W.O.G. up to 250°F and 150 P.S.I. saturated steam. With lever handle.

Part No	Copper Pipe
SWBV2103-D	1/2
SWBV2103-E	3/4
SWBV2103-F	1
SWBV2103-G	1-1/4
SWBV2103-H	1-1/2
SWBV2103-I	2
SWBV2103-J	2-1/2
SWBV2103-K	3
SWBV2103-L	4

### Full Port Ball Valve (with solder ends)

Rated at 600 P.S.I. W.O.G. up to 250°F and 150 P.S.I. saturated steam. With lever handle.

Part No	Copper Pipe
* SWBV2103-D-FP	1/2
* SWBV2103-E-FP	3/4
* SWBV2103-F-FP	1
* SWBV2103-G-FP	1-1/4
* SWBV2103-H-FP	1-1/2
* SWBV2103-I-FP	2
* SWBV2103-J-FP	2-1/2
* SWBV2103-K-FP	3
SWBV2103-L-FP	4

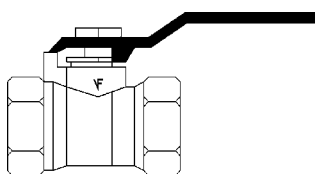
\* ALSO AVAILABLE IN 400 W.O.G.

## BALL VALVES

**A.G.A./C.G.A. Approved  
Gas Ball Valve  
Factory Mutual Approved**

Tested to ensure compliance with Standard CGA 3.16. These lever handled ball valves are pressure rated for use with gas at 125 P.S.I. and have a working temperature range of from -30°C to +65°C.

**Female Pipe Ball Valve  
(female pipe both ends)**

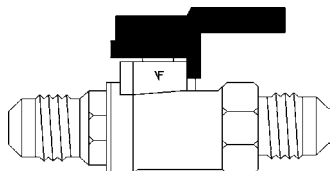


Part No	Pipe
BV2103-D-CGA	1/2
BV2103-E-CGA	3/4
BV2103-F-CGA	1
BV2103-G-CGA	1-1/4
BV2103-H-CGA	1-1/2
BV2103-I-CGA	2

**A.G.A./C.G.A. Approved  
Gas Appliance Ball Valve**

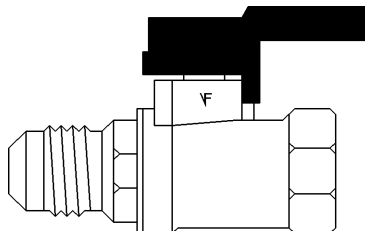
Tested to ensure compliance with Standard CAN1-9.1. Certified for use at room temperature only and at a maximum pressure of 1/2 P.S.I..

**Flare Union  
(tube both ends)**



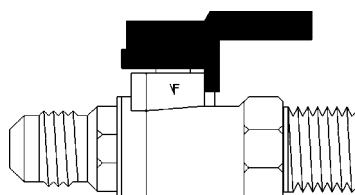
Part No	Tube
BV4042-6	3/8
BV4042-8	1/2
BV4042-10	5/8

**A.G.A./C.G.A. Approved  
Gas Appliance Ball Valve  
(flare x female pipe)**



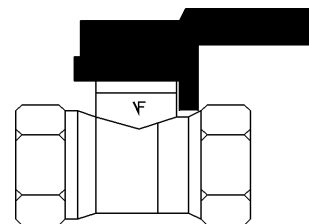
Part No	Tube	Pipe
BV4046-6D	3/8	1/2
BV4046-8D	1/2	1/2

**A.G.A./C.G.A. Approved  
Gas Appliance Ball Valve  
(flare x male pipe)**



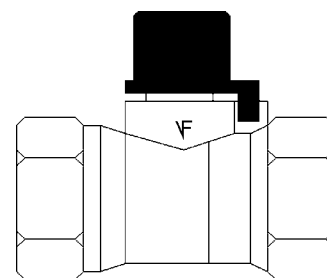
Part No	Tube	Pipe
BV4048-6D	3/8	1/2
BV4048-8D	1/2	1/2

**A.G.A./C.G.A. Approved  
Gas Appliance Ball Valve  
(lever handle  
female pipe both ends)**



Part No	Pipe
BV4103-C	3/8
BV4103-D	1/2
BV4103-E	3/4
BV4103-F	1

**A.G.A./C.G.A. Approved  
Gas Appliance Ball Valve  
(square handle  
female pipe both ends)**



Part No	Pipe
BV5103-C	3/8
BV5103-D	1/2
BV5103-E	3/4
BV5103-F	1

*NOTES*

A large, empty rectangular box with a thin black border, occupying most of the page. It is intended for the user to write their notes.

## *HOSE*

<i>LOK ON RUBBER HOSE</i>	<i>PAGE 78</i>
<i>SELF-COILING</i>	<i>PAGES 78-79</i>
<i>WEED SPRAY</i>	<i>PAGE 80</i>
<i>CONTRACTORS HOSE</i>	<i>PAGE 80</i>
<i>DISHWASHER DISCHARGE</i>	<i>PAGE 81</i>
<i>GARDEN HOSE</i>	<i>PAGE 81</i>
<i>CLEAR BRAIDED P.V.C.</i>	<i>PAGE 82</i>
<i>RUBBER AIR HOSE</i>	<i>PAGE 83</i>
<i>THERMOPLASTIC AIR HOSE</i>	<i>PAGE 84</i>

# HOSE

## *Lok On Rubber Hose*

### *Characteristics*

Durable, lightweight hose designed for use in applications where abrasion and oil resistance are required.

### *Fittings*

No clamps are required when used with Lok-On Hose Fittings which are listed on pages 50 & 51 of this catalogue.

### *Temperature Range and Working Pressure*

From -40°F to +200°F.  
Working Pressure is 250 P.S.I. at +70°F for all sizes.

### *Rubber Lok-On Hose*

<i>Part No</i>	<i>Hose</i>
761-4	1/4
761-6	3/8
761-8	1/2
761-10	5/8
761-12	3/4

## *SELF-COILING AIR HOSE AND FITTINGS*

### *Characteristics*

Self-Coiling air hose is light weight to reduce operator fatigue. This hose has good resistance to oil, chemicals and solvents.

### *Applications*

Commonly used with air tools in industrial assembly plants, gas stations and automotive plants.

### *Temperature Range and Working Pressure*

From -60°F to +250°F. Rated at 200 P.S.I. at 70°F.


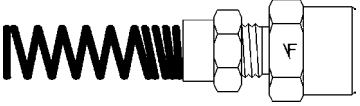
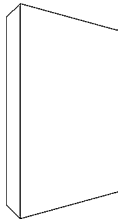


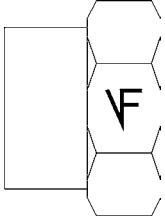
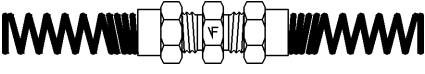
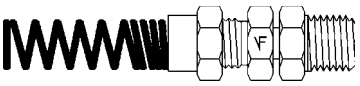
### *Fittings*

See page 79 for fittings designed for use with self coiling air hose.

### *Bulk Hose*

<i>Part No</i>	<i>Hose</i>
1985-4	1/4
1985-6	3/8
1985-8	1/2

# HOSE

<b>Hose Assemblies (supplied assembled with working swivel male pipe fittings on each end)</b>	<b>Fittings for Self-Coiling Air Hose</b>	<b>Female Rigid Pipe Adaptor (hose x female pipe)</b>																																																																								
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## ***HOSE***

### ***Weed Spray Hose***

#### ***Hose Construction***

This hose is manufactured with a highly abrasion resistant ribbed yellow cover, synthetic braid and a specially blended core.

#### ***Applications***

Designed to be used with aromatic hydrocarbon based chemicals such as xylene, for agricultural applications

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>WP P.S.I. *</i>	<i>Braids</i>
1366-6	3/8	.65	600	1
1366-8	1/2	.84	600	1

### ***Contractors Water Discharge Hose***

#### ***Hose Construction***

Black weather and abrasion resistant synthetic rubber cover, with synthetic yarn reinforcement and a black synthetic rubber core tube.

#### ***Applications***

For general water and air service and for use on construction sites.

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>W.P. PSI*</i>	<i>Braids</i>
BCH-8	1/2	.81	150	1
BCH-8/2	1/2	.88	250	2
BCH-10	5/8	.94	150	1
BCH-10/2	5/8	1.00	250	2
BCH-12	3/4	1.13	150	1
BCH-12/2	3/4	1.16	250	2
BCH-16	1	1.38	150	1
BCH-16/2	1	1.50	250	2
BCH-20	1-1/4	1.54	100	1
BCH-24	1-1/2	1.80	100	1
BCH-32	2	2.32	100	1

\* WORKING PRESSURE AT +70° F.

# HOSE

## *Dishwasher Discharge Hose*

### ***Thermoplastic Hose Construction***

Black P.V.C. cover with a synthetic weave and black P.V.C. core.

### ***Applications***

Designed for use as a discharge hose in residential dishwashers.

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>WP P.S.I.*</i>	<i>Braids</i>
DWH-10	5/8	.845	20	1

### ***Rubber Hose Construction***

Black heat and weather resistant EPDM rubber cover, with two layers of synthetic textile yarn and a black EPDM rubber core that is resistant to heat and antifreeze solutions.

### ***Applications***

May be used as a heavy duty dishwasher discharge hose or as automotive heater hose.

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>WP P.S.I.*</i>	<i>Braids</i>
DWH-8R	1/2	.80	60	2
DWH-10R	5/8	.92	60	2
DWH-12R	3/4	1.05	50	2

## *Standard Duty Garden Hose*

### ***Hose Construction***

Smooth green P.V.C. cover, with a high strength synthetic yarn braid and a black P.V.C. core.

### ***Applications***

Used as lawn and garden hose, nursery water supply hose and light duty wash down hose.

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>WP P.S.I.*</i>	<i>Braids</i>
GH-8	1/2	.70	125	1
GH-10	5/8	.80	125	1
GH-12	3/4	1.00	100	1
GH-16	1	1.31	125	1

\* WORKING PRESSURE AT +70° F.

# ***HOSE***

## ***Clear Braided P.V.C. Hose***

### ***Hose Construction***

Cover is food grade clear P.V.C., Braid is of high tensile strength yarn and core is manufactured from clear food grade P.V.C..

### ***Applications***

Used in applications where a clear hose is required also used in pneumatic, beverage, carpet cleaning systems and lubrication lines.

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>WP P.S.I.*</i>	<i>Braids</i>
PVC-63	3/16	.375	250	1
PVC-84	1/4	.460	250	1
PVC-95	5/16	.525	250	1
PVC-106	3/8	.600	225	1
PVC-128	1/2	.750	200	1
PVC-1410	5/8	.875	200	1
PVC-1712	3/4	1.030	150	1
PVC-2116	1	1.312	125	1
PVC-2820	1-1/4	1.687	100	1
PVC-3224	1-1/2	1.937	100	1
PVC-4032	2	2.500	75	1

\* WORKING PRESSURE AT +68° F.

# HOSE

## *Red Rubber Air Hose*

### ***Hose Construction***

Smooth red abrasion resistant EPDM rubber cover, with high tensile strength synthetic yarn braid and oil mist resistant smooth EPDM core.

### ***Applications***

Used in a wide variety of applications that require excellent resistance to heat and weathering, such as service stations, air tools, water and mild chemical transfer lines.

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>WP P.S.I.*</i>	<i>Braids</i>
RH-3	3/16	.44	250	1
RH-4	1/4	.50	150	1
RH-4/2	1/4	.59	250	2
RH-5	5/16	.63	150	1
RH-5/2	5/16	.66	250	2
RH-6	3/8	.69	150	1
RH-6/2	3/8	.72	250	2
RH-8	1/2	.81	150	1
RH-8/2	1/2	.88	250	2
RH-10/2	5/8	1.00	250	2
RH-12	3/4	1.12	150	1
RH-12/2	3/4	1.16	250	2
RH-16	1	1.38	150	1
RH-16/2	1	1.50	250	2
RH-20/2	1-1/4	1.78	200	2
RH-24/2	1-1/2	2.00	200	2

\*WORKING PRESSURE AT +70° F.

# *HOSE*

## *Braided Red P.V.C. Hose*

### *Hose Construction*

Cover is constructed from red abrasion resistant P.V.C., with a high tensile strength synthetic yarn braid and a black P.V.C. inner core.

### *Applications*

Designed for in-plant transfer of air, water and mild chemicals. This flexible hose is used in many applications including pneumatics, water coolant lines and as lubrication lines.

<i>Part No</i>	<i>Hose I.D.</i>	<i>Hose O.D.</i>	<i>WP P.S.I. *</i>	<i>Braids</i>
RVH-4	1/4	.500	250	1
RVH-5	5/16	.530	250	1
RVH-6	3/8	.625	250	1
RVH-8	1/2	.750	250	1
RVH-12	3/4	1.030	175	1

\* WORKING PRESSURE AT +68° F.

## ***TUBING***

<b><i>POLYETHYLENE</i></b>	<b><i>PAGE 87</i></b>
<b><i>NYLON</i></b>	<b><i>PAGE 88</i></b>
<b><i>NYLON AIR BRAKE</i></b>	<b><i>PAGE 89</i></b>
<b><i>ALUMINUM</i></b>	<b><i>PAGE 90</i></b>
<b><i>COPPER</i></b>	<b><i>PAGE 91</i></b>
<b><i>CLEAR P.V.C.</i></b>	<b><i>PAGE 92</i></b>

*NOTES*

A large, empty rectangular box with a thin black border, occupying most of the page. It is intended for the user to write their notes.

# TUBING

## *Polyethylene Tubing*



### **Characteristics**

Polyethylene tubing has good chemical resistance and is manufactured from F.D.A. approved resins. It is available in both low and high density. Natural (milky white ) color is standard. Low density is available in black in all sizes and black is recommended for outdoor use to improve durability in sunlight (ultraviolet rays ). The 1/4" O.D. size of low density is also available in blue, green, red and yellow.

#### **High Density Polyethylene Tubing**

<i>Part No</i>	<i>Tube O.D</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
359-4	1/4	.170	.040	250
359-4H	1/4	.125	.062	280
359-5	5/16	.187	.062	250
359-6	3/8	.250	.062	250
359-8	1/2	.375	.062	200

#### **Low Density Polyethylene Tubing**

<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
360-5/32-BLACK	5/32	.096	.030	120
360-4	1/4	.170	.040	140
360-4H	1/4	.125	.062	200
360-5	5/16	.187	.062	155
360-6	3/8	.250	.062	125
360-8	1/2	.375	.062	100
360-10	5/8	.500	.062	75
360-12	3/4	.625	.062	50

#### **Flame Retardent Linear Low Density Polyethylene Tubing Tested to UL94-V2**

<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
FR360-5/32	5/32	.096	.030	120
FR360-4	1/4	.170	.040	140
FR360-6	3/8	.250	.062	125
FR360-8	1/2	.375	.062	100

Standard color on FR series is black, 1/4" O.D. also available in blue, green, yellow, white and red.

\*Working pressure at +70° F.

# TUBING

## Nylon Tubing



### Characteristics

Nylon tubing has a wide range of uses because of its good chemical resistance and higher working pressures. Common applications include instrumentation, lubrication and air lines.

#### Nylon 11 Flexible Tubing ( 1000# burst )

<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
485-2	1/8	.096	.015	250
485-3	3/16	.138	.025	250
485-4	1/4	.190	.030	250
485-5	5/16	.242	.035	250
485-6	3/8	.295	.040	250
485-8	1/2	.375	.062	250

#### Nylon 6 Semi-Rigid Tubing ( 1500# burst )

<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
486-2	1/8	.096	.015	375
486-3	3/16	.138	.025	375
486-4	1/4	.190	.030	375
486-5	5/16	.242	.035	375
486-6	3/8	.295	.040	375
486-8	1/2	.375	.062	375

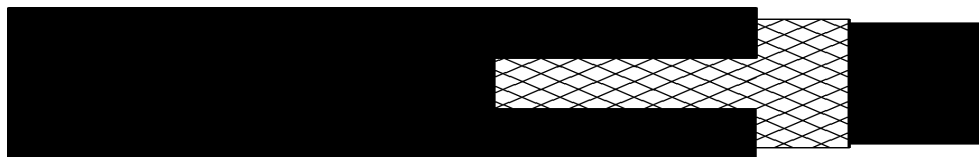
#### Nylon 6 High Pressure Tubing ( 2000# burst )

<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
487-2	1/8	.079	.023	500
487-4	1/4	.170	.040	500
487-6	3/8	.265	.055	500

\*Working pressure at +70° F.

# TUBING

## *Nylon Air Brake Tubing*



### ***Characteristics***

Meets all requirements of S.A.E. J844 Type A & Type B and D.O.T. FMVSS 571.106. Developed specifically for air brake applications. Is also used in a wide range of instrumentation and secondary air systems. Sizes 3/8 and larger have a Polyamide fiber reinforcement.

### ***Temperature Range***

From -40°F to +200°F.

### ***Colors***

Standard color in all sizes is black. The 1/4" and 3/8" sizes are also stocked in red, blue, green and yellow. The 1/2" size is also stocked in red and green.

<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
1485-2	1/8	.079	.023	250
1485-4	1/4	.170	.040	300
1485-5	5/16	.232	.040	250
1485-6	3/8	.250	.062	350
1485-8	1/2	.375	.062	240
1485-10	5/8	.441	.092	225
1485-12	3/4	.566	.092	200

\*Working pressure at +70° F.

# TUBING

## Aluminum Tubing



### Advantages

Manufactured from aluminum alloy UNS A1435 to meet or exceed ASTM B-491 specifications. Tubing is soft annealed and available from stock in 50 foot coils.

### Applications

Used extensively in air, alcohol, ammonia, chemical, gasoline, heating systems, kerosene, natural gas, oil, petroleum products, propane, vacuum lines and water systems.

### Temperature Range

From -250°F to +250°F.

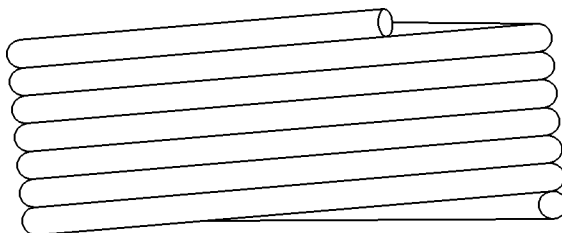
<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
ALT-2X50	1/8	.055	.035	1,500
ALT-3X50	3/16	.118	.035	937
ALT-4X50	1/4	.180	.035	625
ALT-4XREEL**	1/4	.186	.032	625
ALT-5X50	5/16	.243	.035	500
ALT-6X50	3/8	.340	.035	437
ALT-7X50	7/16	.403	.035	375
ALT-8X50	1/2	.430	.035	312
ALT-10X50	5/8	.590	.035	250

*\* Working pressure at +70°F. using 4 to 1 safety factor*

*\*\* Reel lengths vary, please check with our order desk for actual lengths in stock.*

# TUBING

## Copper Tubing



<i>Automotive Copper Tubing</i>					<i>Heavy Wall Copper Tubing</i>					
<i>Part No</i>	<i>Tube O.D.</i>	<i>Wall Thick.</i>	<i>Coil Length</i>	<i>WP P.S.I.*</i>	<i>Part No</i>	<i>Tube O.D.</i>	<i>Type K size</i>	<i>Wall Thick.</i>	<i>Coil Length</i>	<i>WP PSI</i>
CT-2X25	1/8	.030	25'	2,400	CT-4.049X50	1/4		.049	50	1,400
CT-3X25	3/16	.030	25'	1,600	CT-6.049X50	3/8		.049	50	1,050
CT-4X25	1/4	.030	25'	1,200	CT-8.049X60	1/2	3/8	.049	60	980
CT-5X25	5/16	.032	25'	1,020	CT-8.049X66	1/2	3/8	.049	66	980
CT-6X25	3/8	.032	25'	850	CT-8.049X100	1/2	3/8	.049	100	980
CT-7X25	7/16	.032	25'	730	CT-10.049X60	5/8	1/2	.049	60	780
CT-8X25	1/2	.032	25'	640	CT-10.049X66	5/8	1/2	.049	66	780
CT-10X25	5/8	.035	25'	560	CT-10.049X100	5/8	1/2	.049	100	780
CT-12X25	3/4	.035	25'	470	CT-12.049X60	3/4	5/8	.049	60	650
					CT-12.049X66	3/4	5/8	.049	66	650
					CT-12.049X100	3/4	5/8	.049	100	650
					CT-14.065X60	7/8	3/4	.065	60	740
					CT-14.065X66	7/8	3/4	.065	66	740
					CT-16.049X50	1		.049	50	420
<i>Refrigeration Copper Tubing</i>					<i>Type L Copper Tubing</i>					
<i>Part No</i>	<i>Tube O.D.</i>	<i>Wall Thick.</i>	<i>Coil Length</i>	<i>WP P.S.I.*</i>	<i>Part No</i>	<i>Tube O.D.</i>	<i>Type L size</i>	<i>Wall Thick.</i>	<i>Coil Length</i>	<i>WP PSI</i>
CT-2X50	1/8	.030	50	2,400	CTL-6X60	3/8	1/4	.030	60	800
CT-2X100	1/8	.030	100	2,400	CTL-6X100	3/8	1/4	.030	100	800
CT-5/32X50	5/32	.030	50	2,000	CTL-6XREEL**	3/8	1/4	.030	**	800
CT-3X50	3/16	.030	50	1,600	CTL-8X60	1/2	3/8	.035	60	700
CT-3X100	3/16	.030	100	1,600	CTL-10X60	5/8	1/2	.040	60	600
CT-4X50	1/4	.030	50	1,200	CTL-12X60	3/4	5/8	.042	60	500
CT-4X100	1/4	.030	100	1,200						
CT-5X50	5/16	.032	50	1,020						
CT-5X100	5/16	.032	100	1,020						
CT-6X50	3/8	.032	50	850						
CT-6X100	3/8	.032	100	850						
CT-7X50	7/16	.032	50	730						
CT-8X50	1/2	.032	50	640						
CT-8X100	1/2	.032	100	640						
CT-10X50	5/8	.035	50	560						
CT-12X50	3/4	.035	50	470						
CT-14X50	7/8	.035	50	350						

\* Working pressure @ 70° F.

\*\* Reel lengths vary, please check with our order desk for actual lengths in stock.

Third Party Certified Plumbing Tubing is available. Please contact our order department for price and availability.

## TUBING

### *Clear Food Grade P.V.C. Tubing*



### *Characteristics*

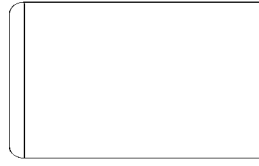
This clear flexible P.V.C. tubing is abrasion resistant and has good chemical resistance.  
Made from F.D.A. approved resins and found extensively in the food and beverage industry.

<i>Part No</i>	<i>Tube O.D.</i>	<i>Tube I.D.</i>	<i>Wall Thickness</i>	<i>WP P.S.I.*</i>
JFT-42	1/4	.125	.062	65
JFT-53	5/16	.187	.062	55
JFT-63	3/8	.187	.094	65
JFT-64	3/8	.250	.062	55
JFT-74	7/16	.250	.094	60
JFT-75	7/16	.312	.062	50
JFT-84	1/2	.250	.125	70
JFT-85	1/2	.312	.094	60
JFT-86	1/2	.375	.062	45
JFT-96	9/16	.375	.094	55
JFT-106	5/8	.375	.125	60
JFT-108	5/8	.500	.062	30
JFT-118	11/16	.500	.094	35
JFT-128	3/4	.500	.125	45
JFT-1210	3/4	.625	.062	20
JFT-1310	13/16	.625	.094	30
JFT-1410	7/8	.625	.125	40
JFT-1612	1	.750	.125	35
JFT-1814	1-1/16	.875	.094	25
JFT-2016	1-1/4	1.000	.125	25
JFT-2218	1-3/8	1.125	.125	20
JFT-2420	1-1/2	1.250	.125	20
JFT-3224	2	1-1/2	.250	25
JFT-4032	2-1/2	2	.250	20

\* Working pressure at + 70° F.

## ***CLAMPS AND CLIPS***

***HOSE FERRULES***

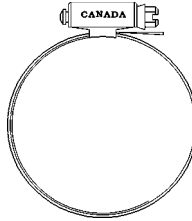


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***WORM GEAR CLAMPS***

***PAGES 95-96***

***EXTENDED BAND CLAMPS***



***PAGE 97***

***" O " CLAMPS***

***PAGE 98***

***ACCESSORIES***

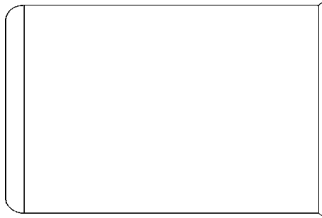
***PAGE 99***

***TUBE CLIPS***

***PAGE 100***

## HOSE FERRULES

### *Crimp Type Hose Ferrules*



### *Brass Hose Ferrules*

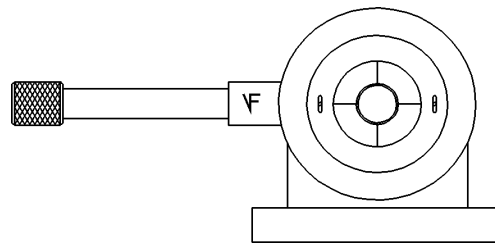
<i>Part No</i>	<i>I.D.</i>	<i>Length</i>	<i>Hole Size</i>
FBL-400	.400	.718	.265
FBL-425	.425	.718	.265
FBL-450	.450	.718	.328
FBL-475	.475	.718	.328
FBL-500	.500	.718	.328
FBL-525	.525	.718	.406
FBL-550	.550	.718	.406
FBL-575	.575	.968	.406
FBL-600	.600	.968	.453
FBL-625	.625	.968	.453
FBL-650	.650	.968	.453
FBL-675	.675	.968	.500
FBL-700	.700	.968	.500
FBL-725	.725	.968	.500
FBL-750	.750	.968	.500
FBL-775	.775	.968	.593
FBL-800	.800	.968	.593
FBL-825	.825	.968	.687
FBL-850	.850	.968	.687
FBL-875	.875	.968	.750
FBL-900	.900	.968	.750
FBL-925	.925	.968	.750
FBL-950	.950	.968	.750
FBL-975	.975	.968	.875
FBL-1000	1.000	.968	.875
FBL-1025	1.025	.968	.875
FBL-1050	1.050	.968	.875
FBL-1075	1.075	.968	.875
FBL-1100	1.100	.968	.875
FBL-1125	1.125	.968	.875
FBL-1150	1.150	.968	.875
FBL-1175	1.175	.968	.875
FBL-1200	1.200	.968	1.000
FBL-1225	1.225	.968	1.000
FBL-1250	1.250	.968	1.000
FBL-1350	1.350	.968	1.125

Aluminum and short ferrules are also available. Please contact our order department for information.

### *Characteristics*

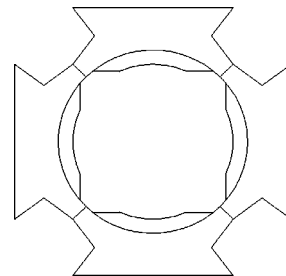
Available in a broad range of sizes to fit a wide variety of low pressure hose. When used with ribbed dies and standard hose barb fittings, working pressures of up to 400 P.S.I. have been achieved without fitting blowout. Each application will differ and testing is recommended.

### *Hose Crimper And Ribbed Dies*



<i>Part No</i>	<i>Description</i>
J660	HAND OPERATED CRIMPER

### *Ribbed Die Sets*



Ribbed die sets are available in all sizes that correspond to our FBL series ferrules. Our product code for this series of dies is J664-. The size codes are the same as the dash codes for the ferrules. Eg. if you wish to crimp an FBL-600 ferrule, you would order Ribbed Die part number J664-600. Die sets are available in increments of .025". For a more secure crimp, it is recommended that you order a die set slightly smaller than the ferrule you are crimping for instance, to crimp the same FBL-600 with a more secure crimp, you would order either a set of J664-575 or J664-550 Dies.

# CLAMPS

## *Worm Gear Hose Clamps*

### ***Characteristics***

Worm gear hose clamps are available in a wide range of sizes up to 14" nominal. For applications where corrosion is a factor, the all stainless steel HC5 series should be specified. In applications, such as automotive where a more economical clamp is required our HC6 series which is all stainless steel except for the screw may be used.

### ***Note***

The size ranges listed are intended to be used as a guide only. Sizes may vary depending on the clamp manufacturer. For specific information on a particular clamp, please contact our order desk.

<b><i>All Stainless Steel Mini Clamp</i></b> <b><i>1/4" slotted hex head 400 series stainless screw</i></b> <b><i>with stainless steel band and housing</i></b>				<b><i>Plated Carbon Steel Screw Mini Clamp</i></b> <b><i>1/4" slotted hex head double plated carbon steel screw</i></b> <b><i>with stainless steel band and housing</i></b>			
<i>Part No</i>	<i>Nominal</i>	<i>Min.</i>	<i>Max</i>	<i>Part No</i>	<i>Nominal</i>	<i>Min.</i>	<i>Max</i>
HC5-4	1/4	1/4	5/8	HC6-4	1/4	1/4	5/8
HC5-6	3/8	5/16	7/8	HC6-6	3/8	5/16	7/8

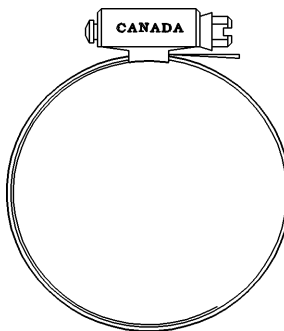
## CLAMPS

### *Worm Gear Hose Clamps*

<i>All Stainless Steel Wide Band Clamp 5/16" slotted hex head 305 series stainless steel screw with stainless steel band and housing</i>				<i>Plated Carbon Steel ScrewWide Band Clamp 5/16" slotted hex head double plated carbon steel screw with stainless steel band and housing</i>			
<i>Part No</i>	<i>Nominal</i>	<i>Min.</i>	<i>Max.</i>	<i>Part No</i>	<i>Nominal</i>	<i>Min.</i>	<i>Max.</i>
HC5-6W	3/8"	3/8	35/32	HC6-6W	3/8"	3/8	35/32
HC5-8	1/2"	1/2	1	HC6-8	1/2"	1/2	1
HC5-10	5/8"	9/16	1-1/8	HC6-10	5/8"	9/16	1-1/8
HC5-12	3/4"	11/16	1-1/4	HC6-12	3/4"	11/16	1-1/4
HC5-16	1"	5/8	1-1/2	HC6-16	1"	5/8	1-1/2
HC5-20	1-1/4"	13/16	1-3/4	HC6-20	1-1/4"	13/16	1-3/4
HC5-24	1-1/2"	1-1/16	2	HC6-24	1-1/2"	1-1/16	2
HC5-28	1-3/4"	1-7/16	2-3/8	HC6-28	1-3/4"	1-7/16	2-3/8
HC5-32	2"	1-9/16	2-1/2	HC6-32	2"	1-9/16	2-1/2
HC5-36	2-1/4"	1-13/16	2-3/4	HC6-36	2-1/4"	1-13/16	2-3/4
HC5-40	2-1/2"	2-1/16	3	HC6-40	2-1/2"	2-1/16	3
HC5-44	2-3/4"	2-5/16	3-1/4	HC6-44	2-3/4"	2-5/16	3-1/4
HC5-48	3"	2-9/16	3-1/2	HC6-48	3"	2-9/16	3-1/2
HC5-52	3-1/4"	2-13/16	3-3/4	HC6-52	3-1/4"	2-13/16	3-3/4
HC5-54	3-1/2"	3	3-13/16	HC6-54	3-1/2"	3	3-13/16
HC5-56	3-1/2"	3	4	HC6-56	3-1/2"	3	4
HC5-60	3-3/4"	3-5/16	4-1/4	HC6-60	3-3/4"	3-5/16	4-1/4
HC5-64	4"	3-9/16	4-1/2	HC6-64	4"	3-9/16	4-1/2
HC5-72	4-1/2"	4-1/8	5	HC6-72	4-1/2"	4-1/8	5
HC5-80	5"	4-5/8	5-1/2	HC6-80	5"	4-5/8	5-1/2
HC5-84	5-1/4"	4-3/8	5-11/16	HC6-84	5-1/4"	4-3/8	5-11/16
HC5-88	5-1/2"	5-1/8	6	HC6-88	5-1/2"	5-1/8	6
HC5-96	6"	5-5/8	6-1/2	HC6-96	6"	5-5/8	6-1/2
HC5-104	6-1/2"	6-1/8	7	HC6-104	6-1/2"	6-1/8	7
HC5-116	7-1/4"	6-7/8	7-3/4	HC6-116	7-1/4"	6-7/8	7-3/4
HC5-120	7-1/2"	6-5/8	7-7/8	HC6-120	7-1/2"	6-5/8	7-7/8
HC5-124	7-3/4"	6-7/8	7-3/4	HC6-124	7-3/4"	6-7/8	7-3/4
HC5-128	8"	7-5/8	8-1/2	HC6-128	8"	7-5/8	8-1/2
HC5-140	8-3/4"	7-7/8	9-1/4	HC6-140	8-3/4"	7-7/8	9-1/4
HC5-152	9-1/2"	9-1/8	10	HC6-152	9-1/2"	9-1/8	10
HC5-156	9-3/4"	8-7/8	10-1/4	HC6-156	9-3/4"	8-7/8	10-1/4
HC5-160	10"	9-1/8	10-1/2	HC6-160	10"	9-1/8	10-1/2
HC5-180	11-1/4"	10-7/8	11-3/4	HC6-180	11-1/4"	10-7/8	11-3/4
HC5-190	11-3/4"	10-7/8	12-1/4	HC6-190	11-3/4"	10-7/8	12-1/4
HC5-212	13-1/8"	12-5/16	13-5/8	HC6-212	13-1/8"	12-5/16	13-5/8
HC5-224	14"	13-1/4	14-1/2	HC6-224	14"	13-1/4	14-1/2

# CLAMPS

## Extended Band Clamps



### Characteristics

Extended band clamps retain all of the features of the carbon steel screw gear clamp, while providing an inner shield to protect soft hose from the notches in the band.

**Plated Carbon Steel Screw Extended Band Clamp  
5/16" slotted hex head plated carbon steel screw  
with all stainless steel band and housing**

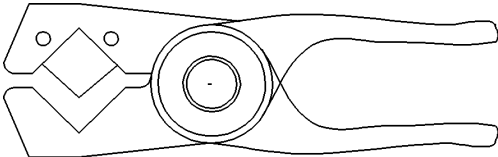
<i>Part No</i>	<i>Nominal</i>	<i>Min.</i>	<i>Max.</i>
HC7-10	5/8"	9/16	1-1/8
HC7-12	3/4"	11/16	1-1/4
HC7-16	1"	13/16	1-1/2
HC7-20	1-1/4"	1-1/16	1-15/16
HC7-24	1-1/2"	1-1/16	2
HC7-28	1-3/4"	1-5/16	2-1/4
HC7-32	2"	1-9/16	2-1/2
HC7-36	2-1/4"	1-13/16	2-3/4
HC7-40	2-1/2"	2-1/16	3
HC7-44	2-3/4"	2-5/16	3-1/4
HC7-48	3"	2-9/16	3-1/2
HC7-52	3-1/4"	2-13/16	3-3/4
HC7-56	3-1/2"	3-1/16	4
HC7-60	3-3/4"	3-5/16	4-1/4
HC7-64	4"	3-9/16	4-1/2
HC7-68	4-1/4"	3-7/8	4-3/4
HC7-72	4-1/2"	4-1/16	5
HC7-76	4-3/4"	4-3/8	5-1/4
HC7-80	5"	4-9/16	5-1/2
HC7-84	5-1/4"	4-7/8	5-3/4
HC7-88	5-1/2"	5-1/16	6

# CLAMPS




## "O" Clamps

<i>One-Ear Galvanized Steel Clamps</i>				<i>Two-Ear Zinc Plated Clamps</i>			
<i>Part No</i>	<i>Nominal</i>	<i>Min.</i>	<i>Max.</i>	<i>Part No</i>	<i>Nominal</i>	<i>Min.</i>	<i>Max.</i>
HC8-6	3/8"	.343	.414	HC9-2-1/2	5/32"	.122	.161
HC8-7	7/16"	.381	.444	HC9-2-3/4	11/64"	.138	.177
HC8-7½	15/32"	.394	.486	HC9-3	3/16"	.118	.197
HC8-8	1/2"	.453	.524	HC9-4	1/4"	.197	.276
HC8-8½	35/64"	.472	.551	HC9-5	5/16"	.276	.354
HC8-9	9/16"	.496	.571	HC9-6	3/8"	.315	.433
HC8-10	5/8"	.543	.618	HC9-7	7/16"	.354	.433
HC8-11	11/16"	.594	.669	HC9-8	1/2"	.433	.512
HC8-11½	23/32"	.618	.728	HC9-9	9/16"	.512	.591
HC8-12	3/4"	.669	.779	HC9-9-1/2	19-32"	.591	.669
HC8-13	13/16"	.716	.827	HC9-10	5/8"	.591	.708
HC8-14	7/8"	.779	.890	HC9-12	3/4"	.669	.787
HC8-15	15/16"	.839	.949	HC9-13	13/16"	.748	.866
HC8-16	1"	.898	1.008	HC9-14	7/8"	.787	.905
HC8-17	1-1/16"	.945	1.067	HC9-15	15/16"	.866	.984
HC8-18	1-1/8"	1.004	1.126	HC9-16	1"	.905	1.063
HC8-19	1-3/16"	1.063	1.185	HC9-17	1-1/16"	.984	1.102
HC8-20	1-1/4"	1.122	1.244	HC9-18	1-1/8"	1.063	1.220
HC8-21	1-5/16"	1.181	1.303	HC9-19	1-3/16"	1.102	1.220
HC8-22	1-3/8"	1.240	1.362	HC9-21	1-5/16"	1.220	1.339
HC8-23	1-7/16"	1.299	1.421	HC9-23	1-7/16"	1.339	1.457
HC8-24	1-1/2"	1.378	1.500	HC9-24	1-1/2"	1.457	1.575
HC8-25	1-9/16"	1.437	1.559	HC9-26	1-5/8"	1.575	1.693
HC8-26	1-5/8"	1.492	1.614	HC9-28	1-3/4"	1.693	1.811
HC8-28	1-3/4"	1.669	1.791				
HC8-30	1-7/8"	1.787	1.909				
HC8-32	2"	1.905	2.028				
HC8-36	2-1/4"	2.142	2.264				
HC8-40	2-1/2"	2.378	2.500				
HC8-44	2-3/4"	2.673	2.795				
HC8-48	3"	2.909	3.031				
HC8-52	3-1/4"	3.146	3.268				
HC8-62	3-7/8"	3.795	3.917				

## "O" CLAMPS AND ACCESSORIES

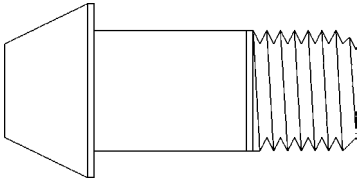
<i>Crimping Pincers</i>		<i>Service Kits</i> <i>a handy item for any tool box, each plastic kit box contains the following</i>	
<i>Part No</i>	<i>Description</i>		
HC9-R	STRAIGHT JAW PINCER		
HC9-RH	HEAVY DUTY STRAIGHT JAW		
HC9-S	SIDE JAW PINCER		
 <i>Multi Cutter</i>			
			
<i>Part No</i>	<i>Description</i>	<i>Quantity</i>	<i>Part No</i> <i>Description</i>
MULTI CUTTER	1-1/8 MAX. HOSE DIA.	15	HC9-5      5/16" 2-EAR CLAMP
		15	HC9-7      7/16" 2-EAR CLAMP
		15	HC9-8      1/2" 2-EAR CLAMP
		15	HC9-9      9/16" 2-EAR CLAMP
		15	HC9-10     5/8" 2-EAR CLAMP
		12	HC9-12     3/4" 2-EAR CLAMP
		12	HC9-14     7/8" 2-EAR CLAMP
		12	HC9-15     15/16" 2-EAR CLAMP
		12	HC9-16     1" 2-EAR CLAMP
		1	PINCERS AS SHOWN BELOW
 <i>Field Kits</i> <i>A handy item for any tool box, each plastic kit box contains the following:</i>			
<i>Quantity</i>	<i>Part No</i>	<i>Description</i>	
20	HC9-9	9/16" 2-EAR CLAMP	
20	HC9-10	5/8" 2-EAR CLAMP	
20	HC9-12	3/4" 2-EAR CLAMP	
20	HC9-14	7/8" 2-EAR CLAMP	
20	HC9-18	1-1/8" 2-EAR CLAMP	
5	406R	1/4" S.S. HOSE MENDER	
5	408R	5/16" SS HOSE MENDER	
5	410R	3/8" S.S. HOSE MENDER	
5	413R	1/2" S.S. HOSE MENDER	
5	416R	5/8" S.S. HOSE MENDER	
1		PINCERS AS SHOWN BELOW	
<i>Part No</i>	<i>Description</i>	<i>Part No</i>	<i>Description</i>
FK1097	WITH STRAIGHT JAW PINCER	SK1097	WITH STRAIGHT JAW PINCER
FK1098	WITH HEAVY STRAIGHT JAW PINCER	SK1098	WITH HEAVY STRAIGHT JAW PINCER
FK1099	WITH SIDE JAW PINCER	SK1099	WITH SIDE JAW PINCER

## TUBE CLIPS

<b>2 Hole Tube Clips (copper coated)</b>	<b>Steel Duplex Clips (zinc plated)</b>	<b>Steel Single Clips (zinc plated)</b>																																																					
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Tube</i></th> </tr> </thead> <tbody> <tr> <td>TS14C-6</td> <td>3/8</td> </tr> <tr> <td>TS14C-8</td> <td>1/2</td> </tr> <tr> <td>TS14C-14</td> <td>7/8</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Tube</i>	TS14C-6	3/8	TS14C-8	1/2	TS14C-14	7/8	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Tube</i></th> <th style="text-align: left;"><i>Tube</i></th> </tr> </thead> <tbody> <tr> <td>TS19-22</td> <td>1/8</td> <td>1/8</td> </tr> <tr> <td>TS19-44</td> <td>1/4</td> <td>1/4</td> </tr> <tr> <td>TS19-46</td> <td>1/4</td> <td>3/8</td> </tr> <tr> <td>TS19-66</td> <td>3/8</td> <td>3/8</td> </tr> <tr> <td>TS19-88</td> <td>1/2</td> <td>1/2</td> </tr> <tr> <td>TS19-1010</td> <td>5/8</td> <td>5/8</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Tube</i>	<i>Tube</i>	TS19-22	1/8	1/8	TS19-44	1/4	1/4	TS19-46	1/4	3/8	TS19-66	3/8	3/8	TS19-88	1/2	1/2	TS19-1010	5/8	5/8	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><i>Part No</i></th> <th style="text-align: left;"><i>Tube</i></th> </tr> </thead> <tbody> <tr> <td>TS20-2</td> <td>1/8</td> </tr> <tr> <td>TS20-3</td> <td>3/16</td> </tr> <tr> <td>TS20-4</td> <td>1/4</td> </tr> <tr> <td>TS20-5</td> <td>5/16</td> </tr> <tr> <td>TS20-6</td> <td>3/8</td> </tr> <tr> <td>TS20-8</td> <td>1/2</td> </tr> <tr> <td>TS20-10</td> <td>5/8</td> </tr> <tr> <td>TS20-12</td> <td>3/4</td> </tr> <tr> <td>TS20-14</td> <td>7/8</td> </tr> <tr> <td>TS20-16</td> <td>1</td> </tr> </tbody> </table>	<i>Part No</i>	<i>Tube</i>	TS20-2	1/8	TS20-3	3/16	TS20-4	1/4	TS20-5	5/16	TS20-6	3/8	TS20-8	1/2	TS20-10	5/8	TS20-12	3/4	TS20-14	7/8	TS20-16	1		
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## PLUMBING PRODUCTS

### Faucet Tailpiece Stem



<i>Part No</i>	<i>Pipe</i>
700-05	1/4

### Faucet Tailpiece Locknut



<i>Part No</i>	<i>Pipe</i>
700-06	1/2

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33	10	65	18	112	25	149	34	262VF	39	472	47
34	10					150	34	264VF	39-40	474	47
35	10	65P	104	113	25-26	151	34	266VF	40	476	47
						154	34	268VF	40	477	47
35C	101	66	19	113	105	155	34	269VF	40		
35N	101							270VF	40	480	45
		66BS	104	115	26	161	17	271VF	40	481	45
36	10			116	26			272VF	40		
		67	19	117	26	181	35	277VF	40	485	88
36C	101-102	68	19	118	26	182	35			486	88
36N	102					188	35	293	67	487	88
		68BS	104	119	27	189	35				
37	10			120	27			359	87	562V	48
38	10	68P	105	121	27	191	36	360	87	564V	48
						192	36			568V	48
39	11	69	19	121	105			361	42		
40	11					193	37	361PG	42	569F	49
41	11	69P	105	122	27	193L	37	361SG	42	569V	49
41S	11					193-195	37			570V	49
42	11	70	20	123	29	193-195H	37	362	43	572V	49
		71	20			193-195L	37	362SG	43	577V	49
43	12	72	20	124	27	194	37	364	43	578V	49
44	12	74	20			195	37	364SG	43	580V	49
45	12	76	20	125	29	195L	37	365	43	581V	49
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48	13	78	21	127	29	197	38	366SG	43		
48S	13	79	21	128	29	198	38			725	50
49	13	81	21			199	38	368	44	726	50
				129	30	199S	38	368SG	44	727	50
50	14	99	22	130	30	200	38	369	44		
51	14	100	22	131	30	201	38	369SG	44	728	51
52	14			132	30			370	44	729	51
53	14	101	23	133	30	201	105	370SG	44	731	51
54	14	102	23	134	30			371	44	732	51
55	14-15	103	23	134ST	30	202	38	371SG	44	735	51
		104	23	135	30-31	203	38	372	44	736	51
56	15							372SG	44	737	51
57	15	104BS	104	136	31	217	66	377	44	738	51
58	15			137	31	224	66	377SG	44	739	51
59	15	105	24	138	31	239	66	381	44		
		106	24	139	31	240	66			750	52
60	17	107	24	140	31	241	66	462	45-46	751	52
61	17	108	24			242	66			752	52
				141	33			464	46	753	52
61P	104	108BS	104	142	33	243	67	465	46		
						245	67	466	46	761	78
62	17-18	109	24	143	31			467	46		
						259VF	39	468	46	860	53
62P	104	110	25	144	33					861	53
				145	33	260	17	469	47	862	53
63	18	110FB	24	146	33			470	47	868	53
						260VF	39			869	53

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962BH	54	1472	61			B36C	101-102			TS14C	100
963	54	1474	61	3062	70			HC7	97	TS17P	100
964	54	1477	61	3068	70	B36N	102			TS18	100
965	54	1481	61	3069	70			HC8	98	TS19	100
966	54			3103	70	BCH	80	HC9	98-99	TS19C	100
		1485	89	3120	70					TS20	100
967	55					BV2062	74	J660	94	TS20C	100
968	55	1490	63	3122	71			J664	94	TS21	100
969	55	1491	63	5042	71	BV2101	74			TS22	100
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971	55			5062	71						
972	55	1493	64	5068	71	BV4042	75	K1	15		
977	55			5103	71	BV4046	75				
978	55	1494	63	5120	71	BV4048	75	MAU1	103		
		1494N	63	5122	71	BV4103	75	MAU2	103		
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		1961	79	7817	34	FBL	94	S3069	70		
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1170	58	1961S	79	7828	34	FK1097	99	SK1097	99		
1171	58	1962	79	7829	34	FK1098	99	SK1098	99		
1172	58	1966	79	7908	34	FK1099	99	SK1099	99		
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				7913	34			SSC22	103		
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1462	60	2068	68	8120	73	FO124	27	SW125	31		
1463	60	2101	68	8122	73						
1464	60	2102	68	8125	73	FR360	87	SW217	66		
1465	60			8139	73						
1466	60	2103	69	9103	73	G261	73	SWBV2103	74		
1467	60	2120	69	9120	73						
		2122	69	9139	73	GH	81	T241-B	66		
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1469	61	3042	69	ALT	90	GHW	38	T6	15		