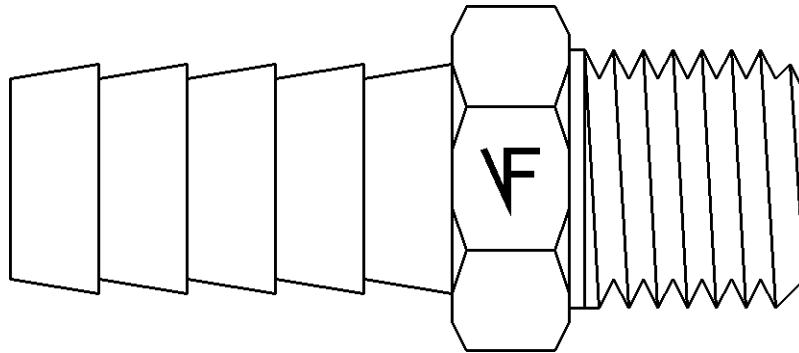


## ***BRASS HOSE BARBS***



### ***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

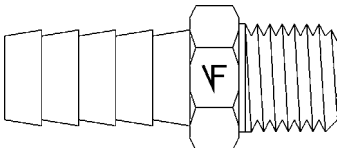
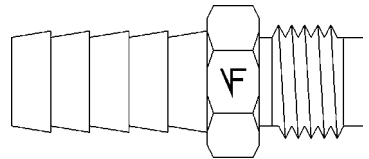
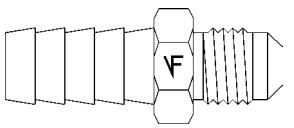
### ***Working Pressures***

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..

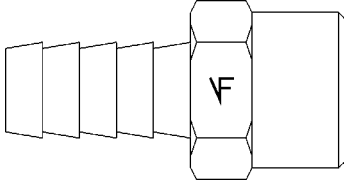
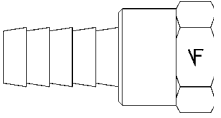
### ***Assembly Instructions***

- 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.

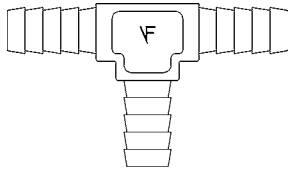
## BRASS HOSE BARBS

<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						

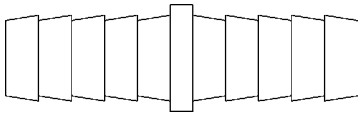
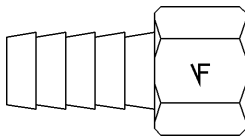
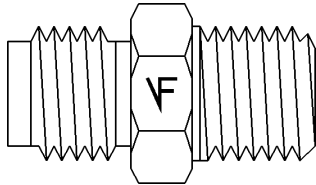
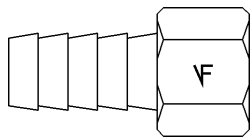
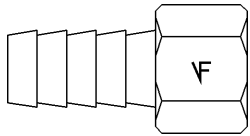
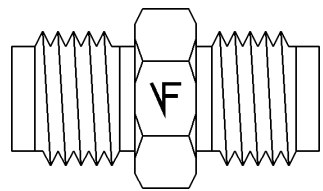
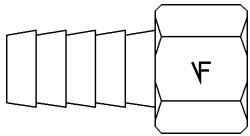
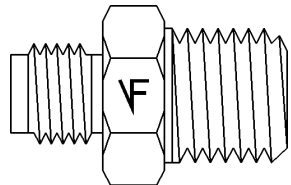
  

<b>Hose Barb x Female Pipe</b>			<b>Hose Barb x Female 45° Flare ( swivel )</b>		
					
<i>Part No</i>	<i>Hose I.D.</i>	<i>Pipe</i>	<i>Part No</i>	<i>Hose I.D.</i>	<i>Tube</i>
126-2A	1/8	1/8	128-3X4	3/16	1/4
126-3A	3/16	1/8	128-4X4	1/4	1/4
126-3B	3/16	1/4	128-4X5	1/4	5/16
126-4A	1/4	1/8	128-4X6	1/4	3/8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

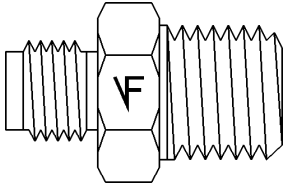
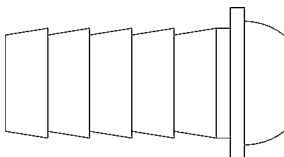
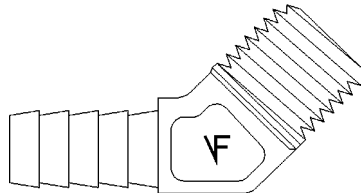
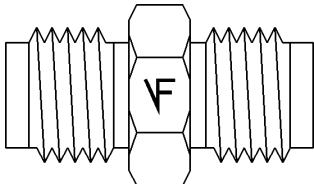
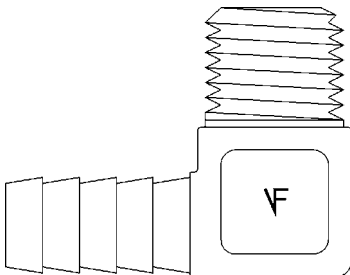
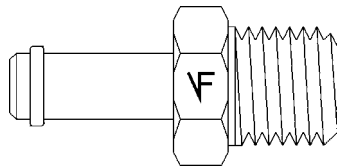
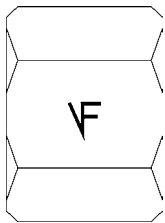
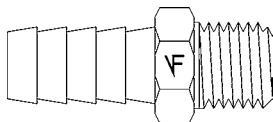
  

<b>Hose Barb Tee</b>		
		
<i>Part No</i>	<i>Hose I.D.</i>	
123-4	1/4	
123-5	5/16	
123-6	3/8	

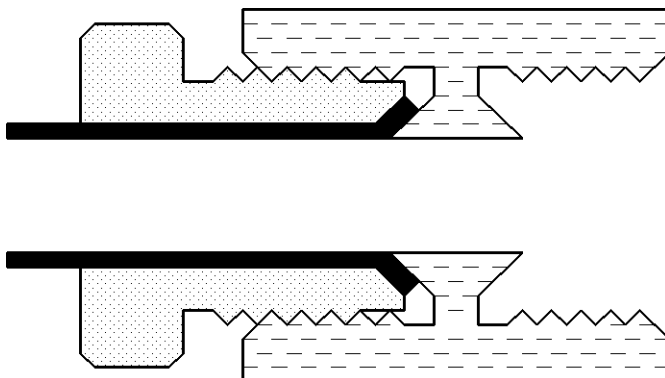
## BRASS HOSE BARBS & WELDING ADAPTORS

<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
Part No	Hose I.D.																																																																																														
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<p style="text-align: center;"><b>Swivel Hose Barb x Female N.P.S.M. ( gasket seal )</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>130-2A</td><td>1/8</td><td>1/8</td></tr> <tr><td>130-3A</td><td>3/16</td><td>1/8</td></tr> <tr><td>130-3B</td><td>3/16</td><td>1/4</td></tr> <tr><td>130-4A</td><td>1/4</td><td>1/8</td></tr> <tr><td>130-4B</td><td>1/4</td><td>1/4</td></tr> <tr><td>130-4C</td><td>1/4</td><td>3/8</td></tr> <tr><td>130-5B</td><td>5/16</td><td>1/4</td></tr> <tr><td>130-6B</td><td>3/8</td><td>1/4</td></tr> <tr><td>130-6C</td><td>3/8</td><td>3/8</td></tr> <tr><td>130-6D</td><td>3/8</td><td>1/2</td></tr> <tr><td>130-8C</td><td>1/2</td><td>3/8</td></tr> <tr><td>130-8D</td><td>1/2</td><td>1/2</td></tr> </tbody> </table>	Part No	Hose I.D.	NPSM	130-2A	1/8	1/8	130-3A	3/16	1/8	130-3B	3/16	1/4	130-4A	1/4	1/8	130-4B	1/4	1/4	130-4C	1/4	3/8	130-5B	5/16	1/4	130-6B	3/8	1/4	130-6C	3/8	3/8	130-6D	3/8	1/2	130-8C	1/2	3/8	130-8D	1/2	1/2	<p style="text-align: center;"><b>Hose Barb x 9/16-18 R.H. ( oxygen 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>132-3R</td><td>3/16</td></tr> <tr><td>132-4R</td><td>1/4</td></tr> <tr><td>132-5R</td><td>5/16</td></tr> <tr><td>132-6R</td><td>3/8</td></tr> </tbody> </table>	Part No	Hose I.D.	132-3R	3/16	132-4R	1/4	132-5R	5/16	132-6R	3/8	<p style="text-align: center;"><b>30° Ball Seat Hex Nipple ( N.P.S.M. 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;">NPSM</th> </tr> </thead> <tbody> <tr><td>134ST-BB</td><td>1/4</td></tr> <tr><td>134ST-CC</td><td>3/8</td></tr> <tr><td>134ST-DD</td><td>1/2</td></tr> <tr><td>134ST-EE</td><td>3/4</td></tr> </tbody> </table>	Part No	NPSM	134ST-BB	1/4	134ST-CC	3/8	134ST-DD	1/2	134ST-EE	3/4																																		
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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*

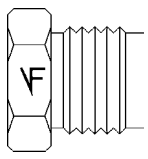
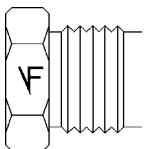
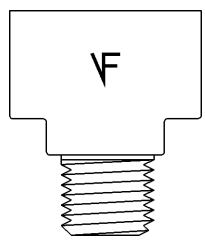
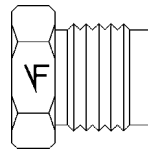
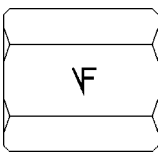
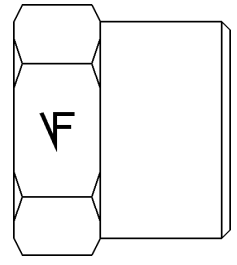
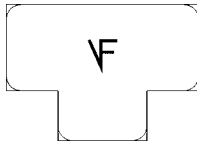
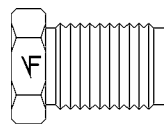
The table to the right shows maximum recommended working pressures at 73°F, using Seamless Copper Tubing ASTM-B-75 ( 30,000 P.S.I. Tensile Strength ). This table is intended to be used as a guide only.

<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>2,800</i>
<i>3/16</i>	<i>0.030</i>	<i>1,900</i>
<i>1/4</i>	<i>0.030</i>	<i>1,400</i>
<i>5/16</i>	<i>0.032</i>	<i>1,200</i>
<i>3/8</i>	<i>0.032</i>	<i>1,000</i>
<i>1/2</i>	<i>0.032</i>	<i>750</i>
<i>5/8</i>	<i>0.035</i>	<i>650</i>
<i>3/4</i>	<i>0.035</i>	<i>550</i>
<i>7/8</i>	<i>0.035</i>	<i>450</i>

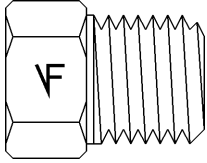
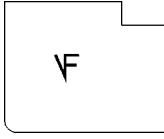
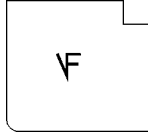
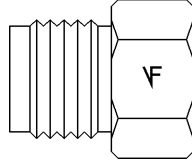
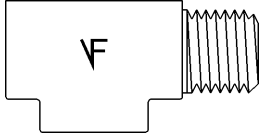
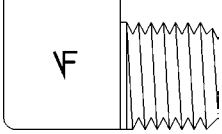
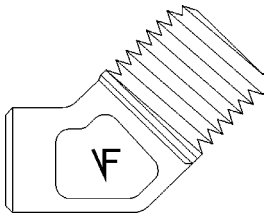
### *Assembly Instructions*

- 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.

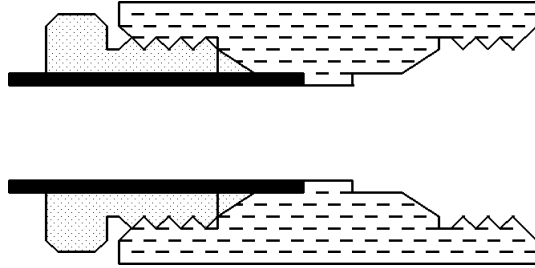
## 45° INVERTED FLARE FITTINGS

<p style="text-align: center;"><b>Nut (brass)</b></p>  <table style="width: 100%; border-collapse: collapse;"> <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-collapse: collapse;"> <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-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>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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145-8C	1/2	3/8																																																																				
<p style="text-align: center;"><b>Nut (steel)</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>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-collapse: collapse;"> <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-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>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>	
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						
148-7B	7/16	1/4						
148-8B	1/2	1/4						
148-8C	1/2	3/8						
148-8D	1/2	1/2						
148-10D	5/8	1/2						
148-12D	3/4	1/2						
148-12E	3/4	3/4						
<b>90° Male Elbow ( tube x male pipe )</b>						<b>Part No</b>		
						<b>Male Inverted Exceptions</b>		
						<b>Female Inverted Noted</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	151-3A	3/16	1/8	1074*	5/16	5/16
149-3A	3/16	1/8	151-4A	1/4	1/8	7727*	5/16	1/4
149-4A	1/4	1/8	151-5A	5/16	1/8	7732*	7/16-20	1/4
149-4B	1/4	1/4	151-6B	3/8	1/4	7771	3/8MPT	5/16
149-5A	5/16	1/8	151-8C	1/2	3/8	7781	1/4MPT	1/4
149-5B	5/16	1/4				7817*	5/16	3/16
149-5C	5/16	3/8				7818	1/4	3/16
149-6A	3/8	1/8				7828*	3/16	1/4
149-6B	3/8	1/4				7829	5/16	1/4
149-6C	3/8	3/8				7908	9/16-18	1/4
149-8B	1/2	1/4				7909	5/16	3/16
149-8C	1/2	3/8				7910	9/16-20	3/16
149-8D	1/2	1/2				7911	9/16-18	3/16
149-10C	5/8	3/8				7912	5/16	9/16-18
149-10D	5/8	1/2				7913	9/16-18	1/2-20
149-12D	3/4	1/2				7915	5/16	3/8
149-12E	3/4	3/4				7916	3/8	5/16
149-14E	7/8	3/4				* SEALS ON HEX FACE		
			<b>45° Male Elbow ( tube x male pipe )</b>					
								
			<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>			
			154-2A	1/8	1/8			
			154-3A	3/16	1/8			
			154-4A	1/4	1/8			
			154-5A	5/16	1/8			
			154-5B	5/16	1/4			
			154-6A	3/8	1/8			
			154-6B	3/8	1/4			
			154-8C	1/2	3/8			
			154-10D	5/8	1/2			

## BRASS THREADED SLEEVE FITTING



### Characteristics

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

### Applications

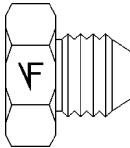
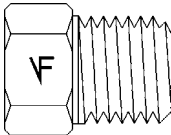
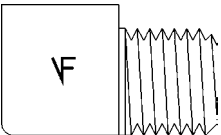
Used with copper, aluminum, nylon and soft plastic tubing ( soft tubing requires internal tube support ).

### Temperature Range

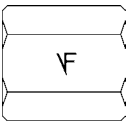
From -65°F to + 250°F

### 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.

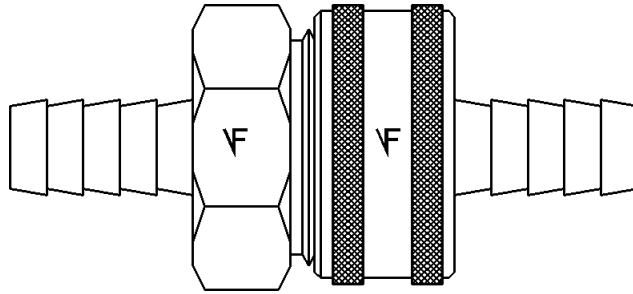
<b>Sleeve Nut</b>		<b>Male Connector ( tube x male pipe )</b>			<b>90° Male Elbow ( tube x male pipe )</b>		
							
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>	<i>Part No</i>	<i>Tube</i>	<i>Pipe</i>
181-2	1/8	188-2X1	1/8	1/16	189-2X1	1/8	1/16
181-3	3/16	188-2A	1/8	1/8	189-2A	1/8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

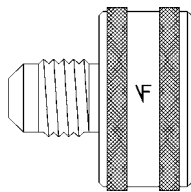
### **Applications**

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

### **Temperature and Pressure Ranges**

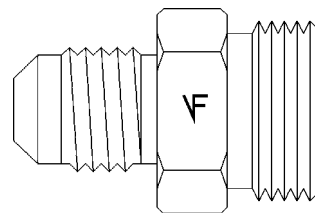
The maximum design working pressure for this series of fittings is 150 P.S.I. at 73°F or the maximum working pressure of the hose you will be using whichever is less. The temperature range is from +35°F to +100°F.

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



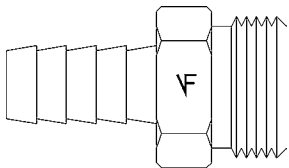
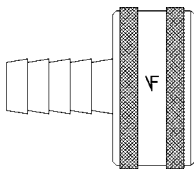
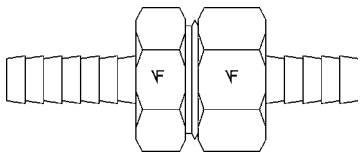
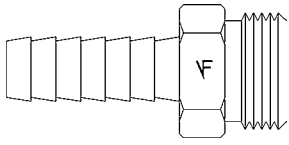
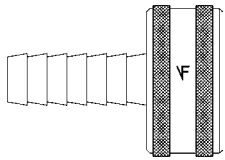
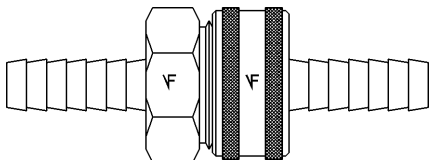
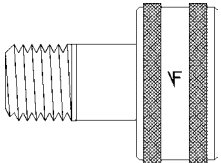
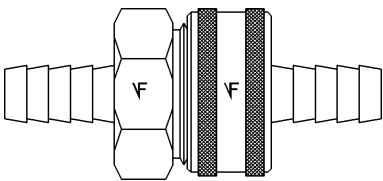
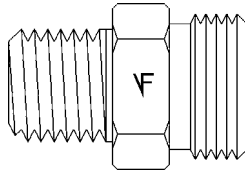
<i>Part No</i>	<i>Flare Hose Thread</i>	
191-6	3/8	3/4-11½NH
191-8	1/2	3/4-11½NH
191-10	5/8	3/4-11½NH

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

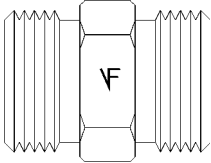
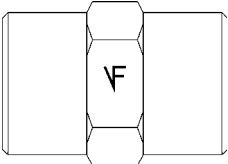
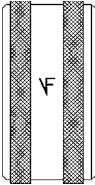
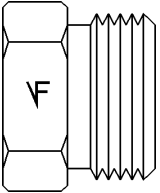
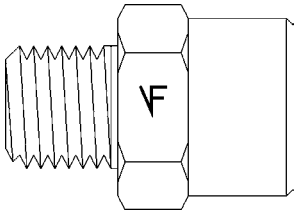
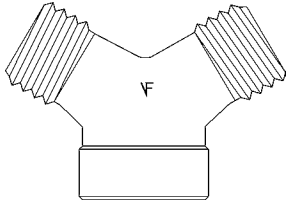
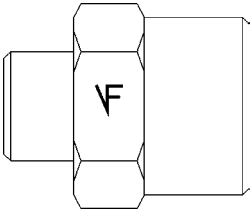
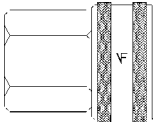
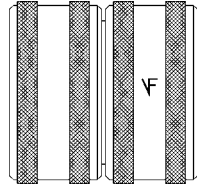
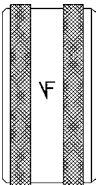
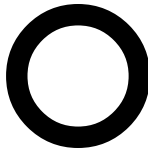


<i>Part No</i>	<i>Flare Hose Thread</i>	
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192-8	1/2	3/4-11½NH
192-10	5/8	3/4-11½NH

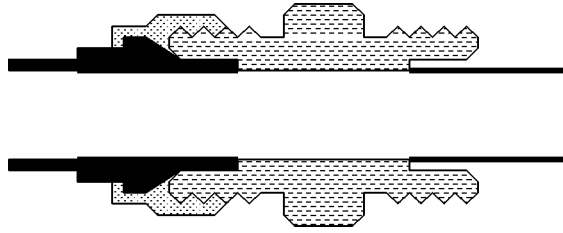
## GARDEN HOSE FITTINGS

<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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199S-D	1/2	3/4-11½NH																																		
199S-E	3/4	3/4-11½NH																																		
Part No	Hose Thread																																			
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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

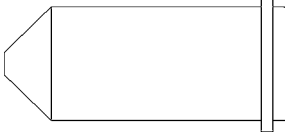
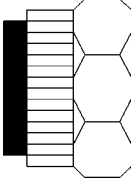
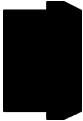
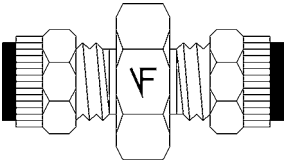
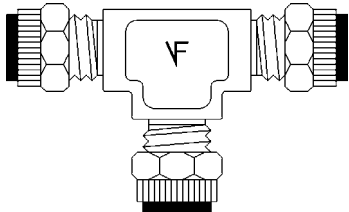
Designed for use with polyethylene tubing in instrumentation, lubrication and coolant systems.

### Temperature Range

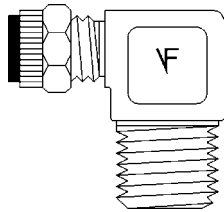
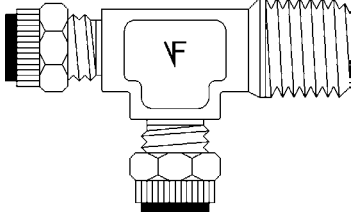
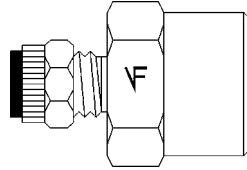
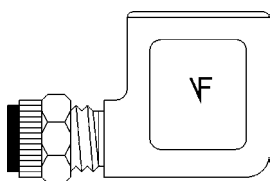
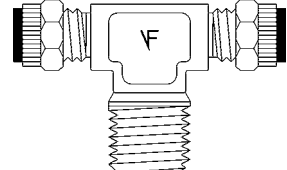
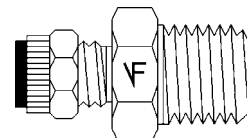
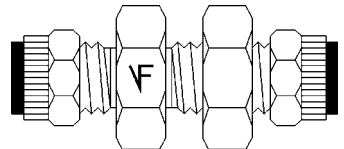
From 0°F to +175°F

### Working Pressures

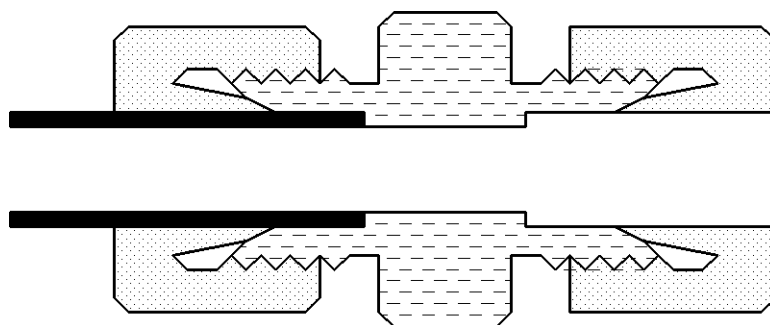
Up to 150 P.S.I. depending on the maximum recommended working pressure of the tubing used.

<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> <div style="text-align: center;">  </div> <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> <div style="text-align: center;">  </div> <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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## **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:

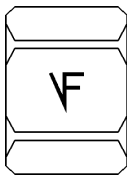
Celcon= C  
Polypropylene= P  
Kynar= K.

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 (-):

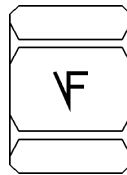
Stainless Steel Gripper Nut= SG  
Plastic Gripper Nut= PG.

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.

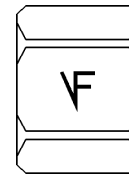
#### **Ferrule Nut**



#### **Plastic Gripper Nut**



#### **Stainless Gripper Nut**



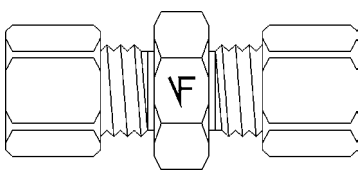
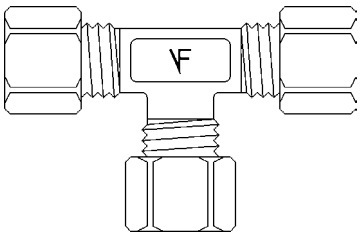
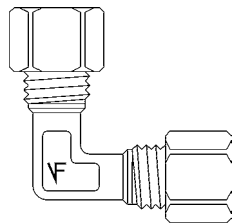
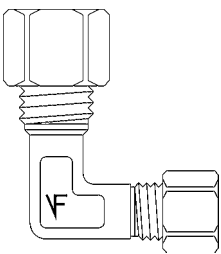
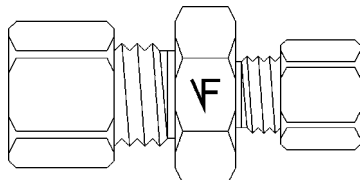
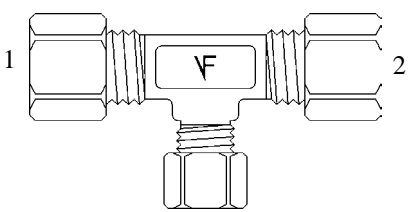
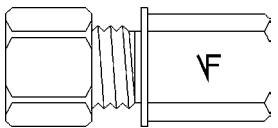
<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>	<i>Part No</i>	<i>Tube</i>
361-2	1/8	361PG-4	1/4	361SG-4	1/4
361-4	1/4	361PG-5	5/16	361SG-5	5/16
361-5	5/16	361PG-6	3/8	361SG-6	3/8
361-6	3/8	361PG-8	1/2	361SG-8	1/2
361-8	1/2	361PG-10	5/8	361SG-10	5/8
		361PG-12	3/4	361SG-12	3/4
		361PG-14	7/8	361SG-14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

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.

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.

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.

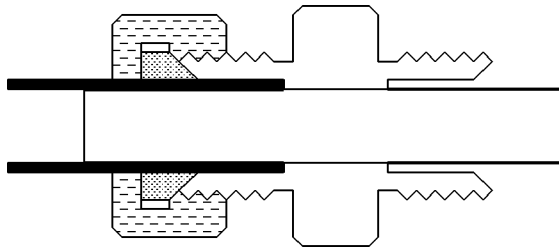
## VIBRA-PRUF THERMOPLASTIC COMPRESSION FITTINGS

<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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366-8C	1/2	3/8																																																																									
366-8D	1/2	1/2																																																																									
366SG-10D	5/8	1/2																																																																									





## **BRASS COMPRESSION FITTINGS FOR POLYETHYLENE TUBING**



### **Characteristics**

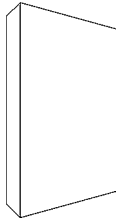
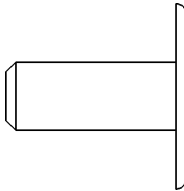
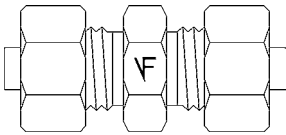
Available in a wide range of sizes and configurations, this economical fitting uses our standard brass compression fitting bodies and nuts. A staked in brass insert and a delrin compression sleeve are added, to create a fitting ideally suited for use with our standard wall polyethylene tubing ( series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

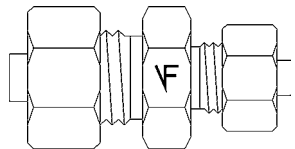
### **Temperature and Pressure Ranges**

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		

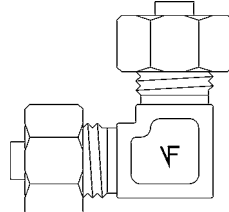
## BRASS COMPRESSION FITTINGS FOR POLYETHYLENE TUBING

**Reducing Union  
(tube both ends)**



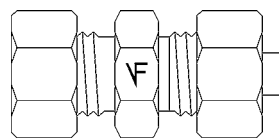
Part No	Tube	Tube
462-6-4	3/8	1/4
462-6-5	3/8	5/16
462-8-6	1/2	3/8

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



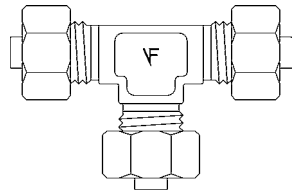
Part No	Tube
465-4	1/4
465-5	5/16
465-6	3/8
465-8	1/2

**Copper x Poly Adaptor  
(tube both ends)**



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

**Union Tee  
(tube all ends)**

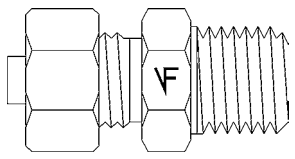


Part No	Tube
464-4	1/4
464-5	5/16
464-6	3/8
464-8	1/2

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

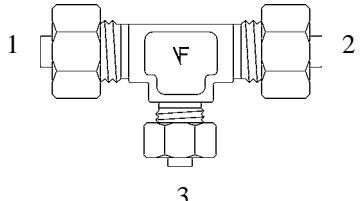
Part No	Tube	Tube
465-6-4	3/8	1/4
465-8-6	1/2	3/8

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



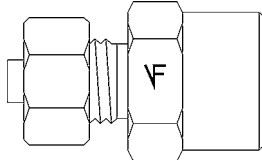
Part No	Tube	Pipe
468-4A	1/4	1/8
468-4B	1/4	1/4
468-4C	1/4	3/8
468-4D	1/4	1/2
468-5A	5/16	1/8
468-5B	5/16	1/4
468-5C	5/16	3/8
468-5D	5/16	1/2
468-6A	3/8	1/8
468-6B	3/8	1/4
468-6C	3/8	3/8
468-6D	3/8	1/2
468-6E	3/8	3/4
468-8B	1/2	1/4
468-8C	1/2	3/8
468-8D	1/2	1/2
468-8E	1/2	3/4

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



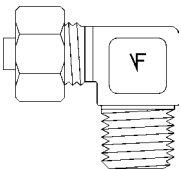
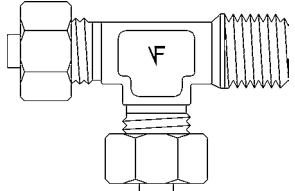
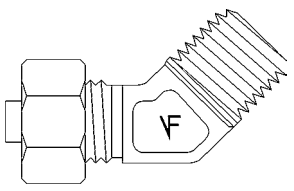
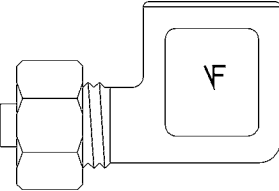
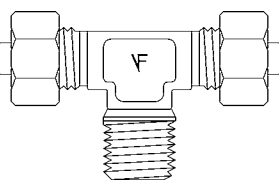
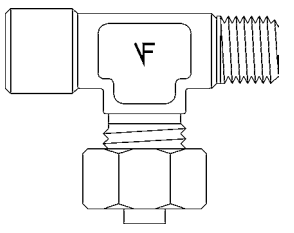
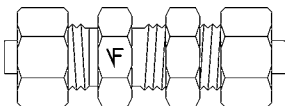
Part No	Tube Size		
	1	2	3
464-6-4	3/8	3/8	1/4
464-6-4-4	3/8	1/4	1/4
464-8-4	1/2	1/2	1/4
464-8-6	1/2	1/2	3/8

**Female Connector  
(tube x female pipe)**

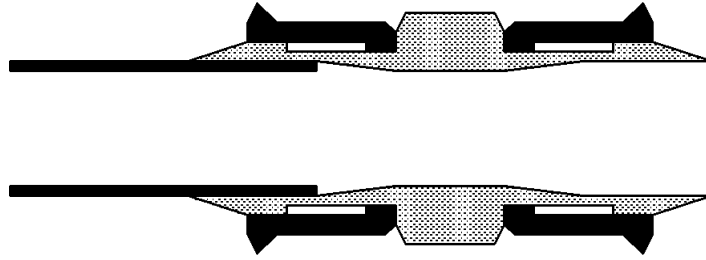


Part No	Tube	Pipe
466-4A	1/4	1/8
466-4B	1/4	1/4
466-4C	1/4	3/8
466-4D	1/4	1/2
466-5A	5/16	1/8
466-5B	5/16	1/4
466-6A	3/8	1/8
466-6B	3/8	1/4
466-6C	3/8	3/8
466-6D	3/8	1/2
466-6E	3/8	3/4
466-8B	1/2	1/4
466-8C	1/2	3/8
466-8D	1/2	1/2
466-8E	1/2	3/4

## 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***

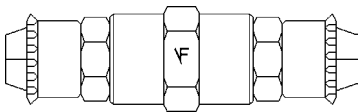
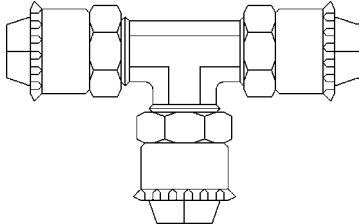
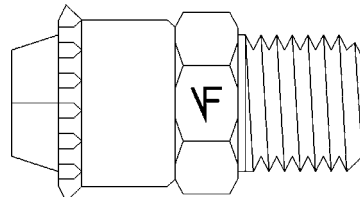
Designed to be used in many applications using standard poly tube.

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

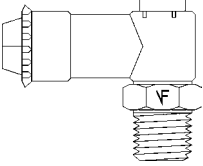
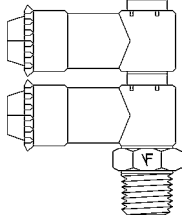
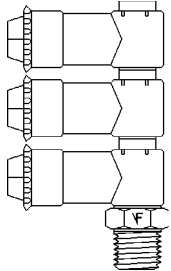
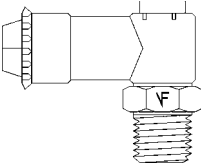
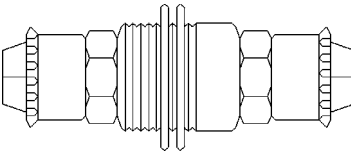
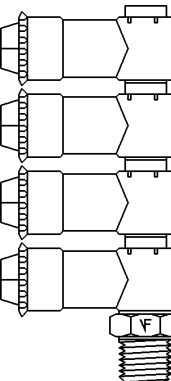
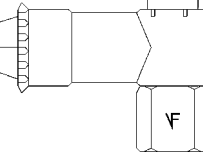
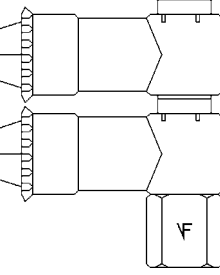
Rated for vacuum to 150 P.S.I. depending on pressure rating of tubing.

### ***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.

<b><i>Union ( tube both ends )</i></b>	<b><i>Union Tee ( tube all ends )</i></b>	<b><i>Male Connector ( tube x male pipe )</i></b>																																						
																																								
<table style="width: 100%; border: none;"> <tr> <td style="border: none;"><i>Part No</i></td> <td style="border: none;"><i>Tube</i></td> </tr> <tr> <td style="border: none;">562V-4</td> <td style="border: none;">1/4</td> </tr> <tr> <td style="border: none;">562V-6</td> <td style="border: none;">3/8</td> </tr> </table>	<i>Part No</i>	<i>Tube</i>	562V-4	1/4	562V-6	3/8	<table style="width: 100%; border: none;"> <tr> <td style="border: none;"><i>Part No</i></td> <td style="border: none;"><i>Tube</i></td> </tr> <tr> <td style="border: none;">564V-5/32</td> <td style="border: none;">5/32</td> </tr> <tr> <td style="border: none;">564V-4</td> <td style="border: none;">1/4</td> </tr> <tr> <td style="border: none;">564V-6</td> <td style="border: none;">3/8</td> </tr> </table>	<i>Part No</i>	<i>Tube</i>	564V-5/32	5/32	564V-4	1/4	564V-6	3/8	<table style="width: 100%; border: none;"> <tr> <td style="border: none;"><i>Part No</i></td> <td style="border: none;"><i>Tube</i></td> <td style="border: none;"><i>Pipe</i></td> </tr> <tr> <td style="border: none;">568V-5/32X10/32</td> <td style="border: none;">5/32</td> <td style="border: none;">10/32</td> </tr> <tr> <td style="border: none;">568V-5/32A</td> <td style="border: none;">5/32</td> <td style="border: none;">1/8</td> </tr> <tr> <td style="border: none;">568V-4X10/32</td> <td style="border: none;">1/4</td> <td style="border: none;">10/32</td> </tr> <tr> <td style="border: none;">568V-4A</td> <td style="border: none;">1/4</td> <td style="border: none;">1/8</td> </tr> <tr> <td style="border: none;">568V-4B</td> <td style="border: none;">1/4</td> <td style="border: none;">1/4</td> </tr> <tr> <td style="border: none;">568V-6B</td> <td style="border: none;">3/8</td> <td style="border: none;">1/4</td> </tr> <tr> <td style="border: none;">568V-6C</td> <td style="border: none;">3/8</td> <td style="border: none;">3/8</td> </tr> </table>	<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
<i>Part No</i>	<i>Tube</i>																																							
562V-4	1/4																																							
562V-6	3/8																																							
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564V-5/32	5/32																																							
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568V-5/32X10/32	5/32	10/32																																						
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568V-6C	3/8	3/8																																						
<b><i>Reducing Union ( tube both ends )</i></b>																																								
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<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
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