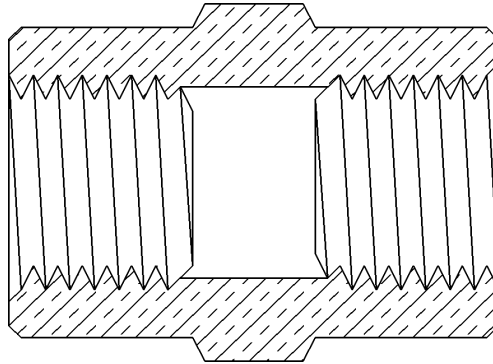


BRASS PIPE FITTINGS



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.

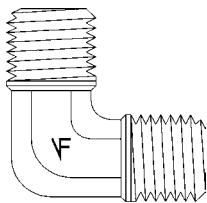
Pressure and Temperature Range

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

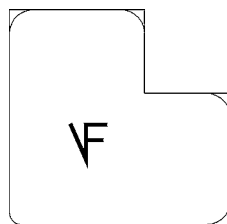


Part No	Pipe
99-A	1/8
99-B	1/4
99-C	3/8
99-D	1/2

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

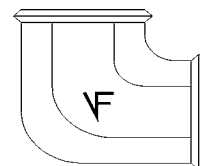
90° Female Elbow



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

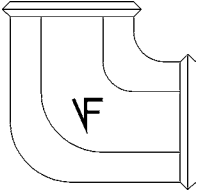
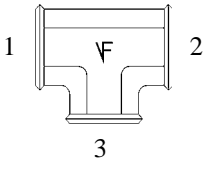
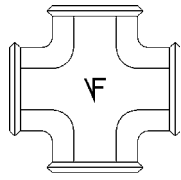
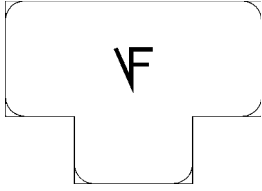
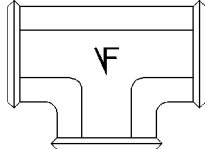
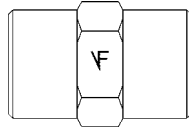
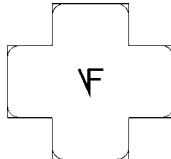
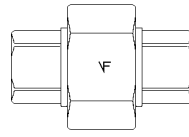
90° Reducing Female Elbow (Cast Brass)



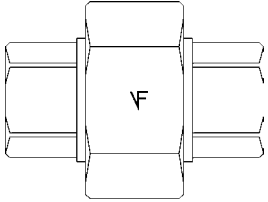
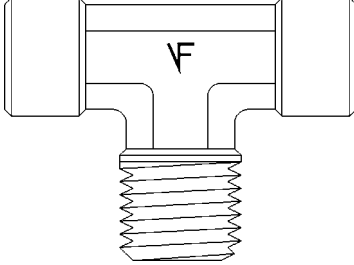
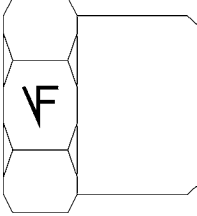
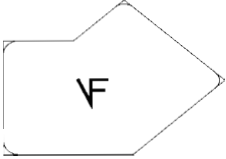
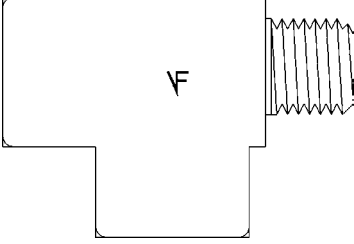
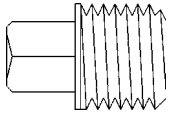
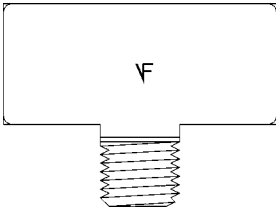
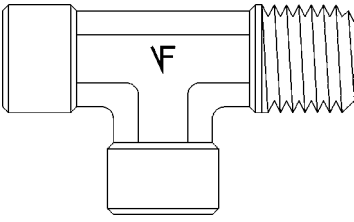
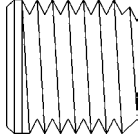
Part No	Pipe	Pipe
* C100-BA	1/4	1/8
* C100-CB	3/8	1/4
* C100-DC	1/2	3/8
* C100-ED	3/4	1/2
C100-FD	1	1/2
C100-FE	1	3/4

* ALSO AVAILABLE IN FORGED

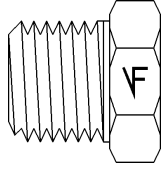
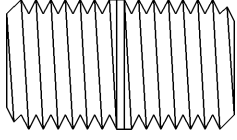
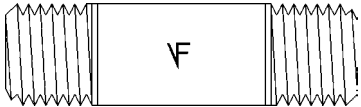
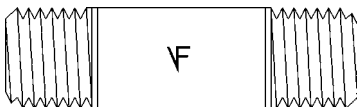

BRASS PIPE FITTINGS

<p style="text-align: center;">90° Forged Female Elbow</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;">Reducing Female Tee (Cast Brass)</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;">Forged Female Cross</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
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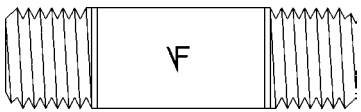
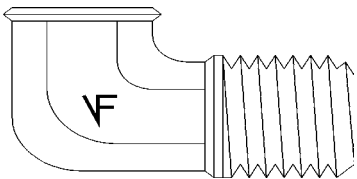
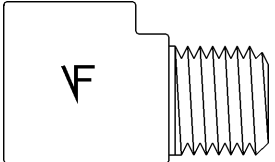
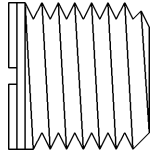
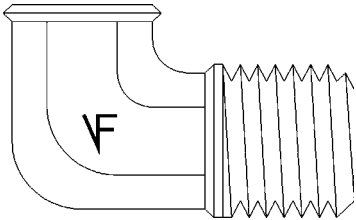
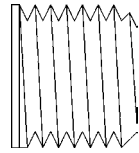
BRASS PIPE FITTINGS

<p style="text-align: center;">Forged 3 Piece Union Coupling</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;">Forged Male Branch Tee</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;">Pipe Cap</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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<p style="text-align: center;">45° Female Elbow</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>105-A</td> <td>1/8</td> </tr> <tr> <td>105-B</td> <td>1/4</td> </tr> <tr> <td>* C105-C</td> <td>3/8</td> </tr> <tr> <td>* C105-D</td> <td>1/2</td> </tr> <tr> <td>* C105-E</td> <td>3/4</td> </tr> <tr> <td>* C105-F</td> <td>1</td> </tr> <tr> <td>* C105-G</td> <td>1-1/4</td> </tr> <tr> <td>* C105-H</td> <td>1-1/2</td> </tr> <tr> <td>* C105-I</td> <td>2</td> </tr> <tr> <td colspan="2">* AVAILABLE ONLY IN CAST BRASS</td> </tr> </table>	<i>Part No</i>	<i>Pipe</i>	105-A	1/8	105-B	1/4	* C105-C	3/8	* C105-D	1/2	* C105-E	3/4	* C105-F	1	* C105-G	1-1/4	* C105-H	1-1/2	* C105-I	2	* AVAILABLE ONLY IN CAST BRASS		<p style="text-align: center;">Street Tee</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>107-A</td> <td>1/8</td> </tr> <tr> <td>107-B</td> <td>1/4</td> </tr> <tr> <td>107-C</td> <td>3/8</td> </tr> <tr> <td>107-D</td> <td>1/2</td> </tr> <tr> <td>107-E</td> <td>3/4</td> </tr> </table>	<i>Part No</i>	<i>Pipe</i>	107-A	1/8	107-B	1/4	107-C	3/8	107-D	1/2	107-E	3/4	<p style="text-align: center;">Square Head Plug</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>109-A</td> <td>1/8</td> </tr> <tr> <td>109-B</td> <td>1/4</td> </tr> <tr> <td>109-C</td> <td>3/8</td> </tr> <tr> <td>109-D</td> <td>1/2</td> </tr> <tr> <td>109-E</td> <td>3/4</td> </tr> <tr> <td>* C109-F</td> <td>1</td> </tr> <tr> <td>* C109-G</td> <td>1-1/4</td> </tr> <tr> <td>* C109-H</td> <td>1-1/2</td> </tr> <tr> <td>* C109-I</td> <td>2</td> </tr> <tr> <td>* C109-J</td> <td>2-1/2</td> </tr> <tr> <td colspan="2">* AVAILABLE ONLY IN CAST BRASS</td> </tr> </table>	<i>Part No</i>	<i>Pipe</i>	109-A	1/8	109-B	1/4	109-C	3/8	109-D	1/2	109-E	3/4	* C109-F	1	* C109-G	1-1/4	* C109-H	1-1/2	* C109-I	2	* C109-J	2-1/2	* AVAILABLE ONLY IN CAST BRASS	
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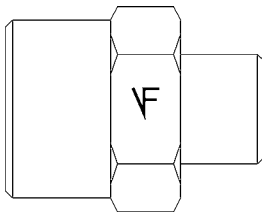
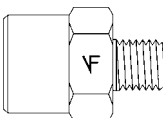
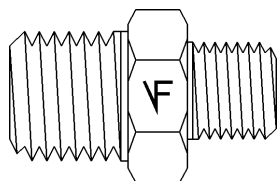
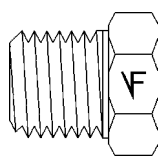
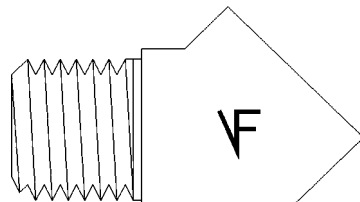
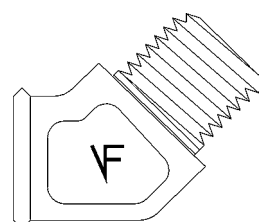
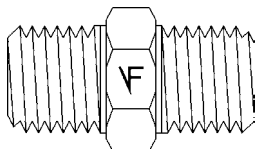
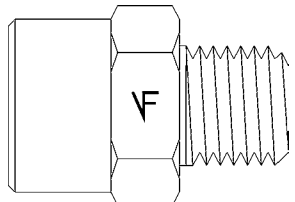
BRASS PIPE FITTINGS

Pipe Bushing (female x male pipe)			Close Nipple			Long Nipple		
								
<i>Part No</i>	<i>Male</i>	<i>Female</i>	<i>Part No</i>	<i>Pipe</i>		3/8-18 N.P.T.		
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		113-C1½	3/8	1-1/2
110-BA	1/4	1/8	112-C	3/8		113-C2	3/8	2
110-CA	3/8	1/8	112-D	1/2		113-C2½	3/8	2-1/2
110-CB	3/8	1/4	112-E	3/4		113-C3	3/8	3
110-DA	1/2	1/8	112-F	1		113-C3½	3/8	3-1/2
110-DB	1/2	1/4	112-G	1-1/4		113-C4	3/8	4
110-DC	1/2	3/8	112-H	1-1/2		113-C4½	3/8	4-1/2
110-EA	3/4	1/8	112-I	2		113-C5	3/8	5
110-EB	3/4	1/4	Long Nipple			113-C5½	3/8	5-1/2
110-EC	3/4	3/8				113-C6	3/8	6
110-ED	3/4	1/2	1/8-27 N.P.T.			1/2-14 N.P.T.		
110-FA	1	1/8	<i>Part No</i>	<i>Pipe</i>	<i>Length</i>	<i>Part No</i>	<i>Pipe</i>	<i>Length</i>
110-FB	1	1/4	113-A1½	1/8	1-1/2	113-D1½	1/2	1-1/2
110-FC	1	3/8	113-A2	1/8	2	113-D2	1/2	2
110-FD	1	1/2	113-A2½	1/8	2-1/2	113-D2½	1/2	2-1/2
110-FE	1	3/4	113-A3	1/8	3	113-D3	1/2	3
* C110-GD	1-1/4	1/2	113-A3½	1/8	3-1/2	113-D3½	1/2	3-1/2
* C110-GE	1-1/4	3/4	113-A4	1/8	4	113-D4	1/2	4
* C110-GF	1-1/4	1	113-A4½	1/8	4 1/2	113-D4½	1/2	4-1/2
* C110-HF	1-1/2	1	113-A5	1/8	5	113-D5	1/2	5
* C110-HG	1-1/2	1-1/4	113-A5½	1/8	5-1/2	113-D5½	1/2	5-1/2
* C110-IG	2	1-1/4	113-A6	1/8	6	113-D6	1/2	6
* C110-IH	2	1-1/2	1/4-18 N.P.T.			3/4-14 N.P.T.		
* 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>
Locknut (NPSL thread)			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

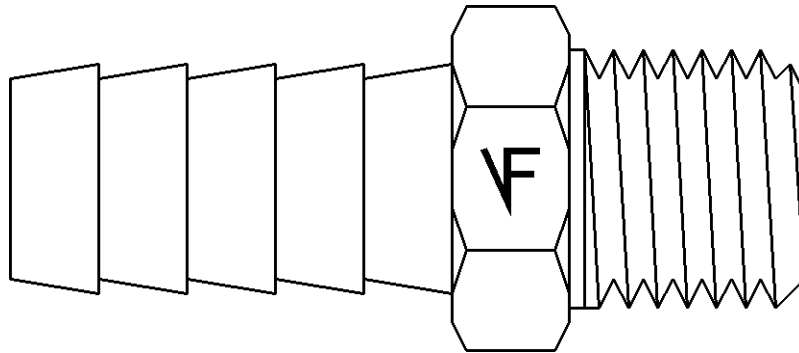
BRASS PIPE FITTINGS

<p style="text-align: center;">Long Nipple</p>  <p style="text-align: center;">1-11½ N.P.T.</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;">90° Forged Reducing Street Elbow</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

Reducing Pipe Coupling			Reducing Pipe Adaptor			Reducing Hex Pipe Nipple		
								
<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	Hex Head Pipe Plug		
* C119-FB	1	1/4				45° Extruded Street Elbow		
* C119-FD	1	1/2	<i>Part No</i>					
* C119-FE	1	3/4	<i>Pipe</i>			<i>Part No</i>		
* C119-GC	1-1/4	3/8	121-1/16			<i>Pipe</i>		
* C119-GD	1-1/4	1/2	121-A			124-A		
* C119-GE	1-1/4	3/4	121-B			124-B		
* C119-GF	1-1/4	1	121-C			124-C		
* C119-HE	1-1/2	3/4	121-D			124-D		
* C119-HF	1-1/2	1	121-E			45° Forged Street Elbow		
* C119-IH	2	1-1/2	121-F					
* AVAILABLE ONLY IN CAST BRASS			Hex Pipe Nipple			<i>Part No</i>		
Pipe Adaptor						<i>Pipe</i>		
			<i>Part No</i>			<i>Pipe</i>		
<i>Part No</i>	<i>Female</i>	<i>Male</i>	122-A			122-A		
120-AA	1/8	1/8	122-B			122-B		
120-BB	1/4	1/4	122-C			122-C		
120-CC	3/8	3/8	122-D			122-D		
120-DD	1/2	1/2	122-E			122-E		
120-EE	3/4	3/4	122-F			122-F		
			122-G			122-G		
						122-A		
						122-B		
						122-C		
						122-D		
						122-E		
						122-F		
						122-G		
						FO124-A		
						FO124-B		
						FO124-C		

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.

