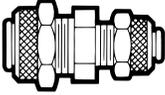
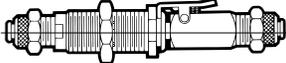
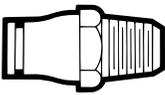
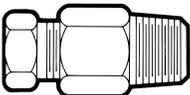
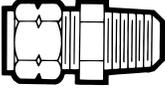
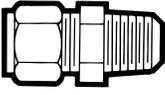
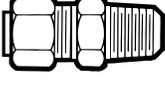




# General Information

## Fitting Descriptions

Style	Working Pressure		Construction	Application	Compatible Tubing
	Maximum	Nominal			
Poly-Flo® 	500 PSI	125 PSI	<ul style="list-style-type: none"> <li>• Three-piece: body, nut sleeve</li> <li>• Shapes: brass, forged SAE CA377 or equal</li> <li>• Straights: brass, SAE CA360 or equal</li> <li>• Sleeves: Celcon® or Brass</li> </ul>	<ul style="list-style-type: none"> <li>• Pneumatic instrumentation circuits</li> <li>• Fluid piping systems</li> </ul>	<ul style="list-style-type: none"> <li>• Polyethylene</li> <li>• Polypropylene</li> <li>• Nylon</li> <li>• Polyvinyl chloride</li> <li>• Polyallomar</li> <li>• Soft metal</li> <li>• Poly-Flo®</li> <li>• Nylo-Seal® (SN, NF)</li> <li>• Impolene</li> </ul>
Poly-Flo® Kwik-Connect 	500 PSI	125 PSI	<ul style="list-style-type: none"> <li>• Body and nuts: Chrome-plated brass or Type 316 stainless steel</li> <li>• Sleeves: Celcon®</li> <li>• Springs: Stainless steel</li> <li>• O-Rings: Buna N on brass couplings, Viton® on stainless steel couplings</li> </ul>	<ul style="list-style-type: none"> <li>• Low pressure instrumentation lines requiring frequent connecting and disconnecting</li> <li>• Medical and dental equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Polyethylene</li> <li>• Polypropylene</li> <li>• Nylon</li> <li>• Polyvinyl chloride</li> <li>• Polyallomar</li> <li>• Soft copper</li> <li>• Poly-Flo®</li> <li>• Nylo-Seal®</li> <li>• Impolene</li> </ul>
OmegaFlo™ 	300 PSI	125 PSI	<ul style="list-style-type: none"> <li>• One-piece unit</li> <li>• Shapes: brass, forged SAE CA377 or equal</li> <li>• Sleeves: SAE CA360 or equal</li> <li>• Straights: brass SAE CA360 or equal</li> </ul>	<ul style="list-style-type: none"> <li>• Pneumatic instrumentation circuits</li> <li>• Fluid piping systems</li> </ul>	<ul style="list-style-type: none"> <li>• Polyethylene</li> <li>• Nylon 11</li> <li>• Soft copper</li> <li>• Poly-Flo®</li> <li>• Nylo-Seal®</li> <li>• Impolene</li> </ul>
Hi-Duty® 	4,300 PSI <sup>A</sup>	800 PSI	<ul style="list-style-type: none"> <li>• Two piece: body and nut/sleeve</li> <li>• Shapes: brass, forged SAE CA360 or equal</li> <li>• Flareless compression design</li> </ul>	<ul style="list-style-type: none"> <li>• Instrumentation systems</li> <li>• Mobile farm and mobile construction equipment</li> <li>• Hydraulic and pneumatic controls</li> <li>• Process control systems</li> <li>• Laboratory equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Copper</li> <li>• Brass</li> <li>• Seamless steel</li> <li>• Thermoplastic</li> </ul>
Flex® 	1,000 PSI <sup>A</sup>	200 PSI	<ul style="list-style-type: none"> <li>• Three piece: body, nut and elastomeric sleeve</li> <li>• Shapes: brass, forged SAE CA377 or equal</li> <li>• Straights: brass, SAE CA360 or equal</li> <li>• Flareless</li> <li>• Special compound sleeves available to 450°F</li> </ul>	<ul style="list-style-type: none"> <li>• High vibration and shock conditions</li> <li>• Diesel engine fuel lines</li> <li>• Lubrication systems</li> <li>• Gasoline, air and water lines</li> </ul>	<ul style="list-style-type: none"> <li>• Copper</li> <li>• Brass</li> <li>• Aluminum</li> <li>• Steel</li> <li>• Glass</li> <li>• Thermoplastic</li> </ul>
Compression 	400 PSI <sup>A</sup>	250 PSI	<ul style="list-style-type: none"> <li>• Three-piece: body, nut and sleeve</li> <li>• Shapes: brass, forged SAE CA377 or equal</li> <li>• Straights: brass, SAE CA360 or equal</li> </ul>	<ul style="list-style-type: none"> <li>• Low pressure air, oil, water and gas piping</li> <li>• Meets SAE J512</li> </ul>	<ul style="list-style-type: none"> <li>• Copper</li> <li>• Brass</li> <li>• Aluminum</li> <li>• Thermoplastic</li> </ul>
CompresaMatic™ 	4,500 PSI <sup>A</sup>	850 PSI	<ul style="list-style-type: none"> <li>• Two-piece: body and nut/sleeve</li> <li>• Shapes: brass, forged SAE CA377 or equal</li> <li>• Straights: brass, SAE CA360 or equal</li> <li>• Nuts and sleeves interchangeable with standard compression bodies</li> </ul>	<ul style="list-style-type: none"> <li>• Air, oil, water and gas piping</li> <li>• Meets SAE J512 Except for the nut and sleeve</li> </ul>	<ul style="list-style-type: none"> <li>• Copper</li> <li>• Brass</li> <li>• Aluminum</li> <li>• Thermoplastic</li> <li>• Seamless steel</li> </ul>

<sup>A</sup>Maximum working pressure based on 1/8" O.D. dead soft copper tubing. Please consult Imperial Eastman for additional information.

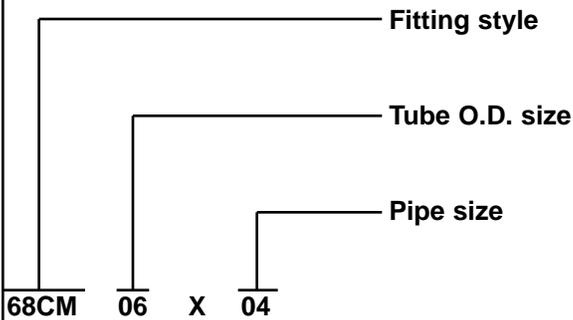
# General Information

## Part Number Designation Guide

### Part Numbers for Tube Fittings

To order Dayco-Imperial tube fittings, use the diagram below as a guide.

**Example:** CompresaMatic® fittings with 3/8" tube connection and 1/4" male pipe thread.

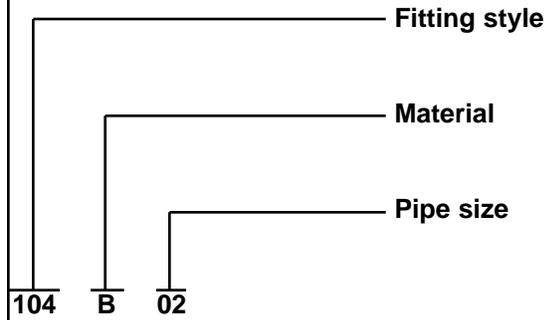


Part number = 68CM06X04

### Part Numbers for Pipe Fittings

To order Dayco-Imperial brass pipe fittings, use the diagram below as a guide.

**Example:** Brass 1/8" NPTF female union.



Part number = 104B02

## Fitting Selector Guide

FITTING STYLE	FITTING MATERIAL	MAXIMUM RECOMMENDED WORKING PRESSURE (PSI)									
		"Dash No."									
		- 02	- 03	- 04	- 05	- 06	- 08	- 10	- 12	- 14	
Hi-Duty <sup>®1</sup>	Brass	4,300	2,850	2,100	1,800	1,500	1,150	1,000	550	400	
45° Flare <sup>1</sup>	Brass		2,850	2,100	1,800	1,500	1,100	1,000	850	750	
CompresaMatic <sup>™1</sup>	Brass	4,500	2,500	1,750	1,800	1,150	950	750	1,000		
Compression <sup>1</sup>	Brass	400	400	300	300	200	200	150	100	75	
Flex <sup>®</sup> — Belled Tubing <sup>1</sup>	Brass	2,000	1,500	1,000	900	700	500	400	350	300	
Flex <sup>®</sup> — Non-Belled Tubing <sup>1</sup>	Brass	1,000	750	500	450	350	200				
OmegaFlo <sup>™</sup>	Brass	300 PSI MAXIMUM									
PolyFlo <sup>®</sup>	Brass	500 PSI MAXIMUM									
Brass Pipe Fittings	Brass	3,000 PSI MAXIMUM <sup>2</sup>					2,000 PSI MAXIMUM <sup>3</sup>				

Maximum working pressures depend on tubing material, tube O.D., wall thickness and fitting size. The pressures listed above reflect static pressures at 72°F with the following material and "Dash No." wall thickness.

<sup>1</sup>TUBING MATERIAL: Copper dead soft seamless, ASTM B75, ANSI H23.3, -02/.030, -03/.030, -04/.030, -05/.032, -06/.032, -08/.032, -10/.035, -12/.035, -14/.035

<sup>2</sup>Exceptions: 101B = 2500 PSI; 102B = 2500 PSI; 104B = 1500 PSI

<sup>3</sup>Exceptions: 102B = 1000 PSI; 104B = 625 PSI; 108B = 1500 PSI; 116B = 1500 PSI; 122B = 1500 PSI

# General Information

## Thread Size Chart

Use this chart to determine fitting thread sizes per tube O.D. size.

**For example:** Thread sizes for a Hi-Duty® 1/8" fitting, with Part No. 88LB02X02 are: .5/16-24 tube thread size x 1/8-27 pipe thread size, as below:

**PART NUMBER = 88LB02X02**

### TUBE SIZE (O.D.)

	"Dash" No.	- 02	- 03	- 04	- 05	- 06	- 07	- 08	- 10	- 12	- 14	- 16
FITTINGS	Size	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"

### TUBE END THREADS

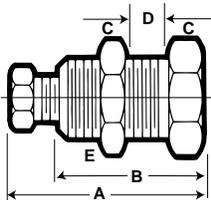
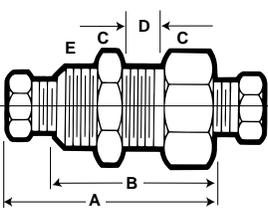
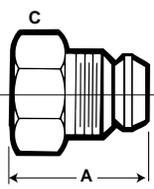
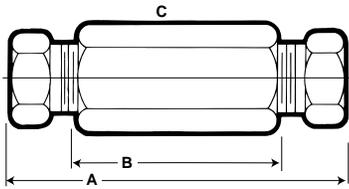
Hi-Duty®	5/16-24	3/8-24	7/16-24	1/2-20	9/16-20		11/16-16	7/8-18	1-18	1 1/4-18	
45° Flare	5/16-24	3/8-24	7/16-20	1/2-20	5/8-18	11/16-16	3/4-16	7/8-14	1 1/16-14	1 1/4-12	
CompresaMatic®	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18		
Compression	5/16-24	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24	11/16-20	13/16-18	1-18		
Flex®	3/8-24	7/16-24	1/2-24	9/16-24	5/8-24		13/16-18	1-18	1 1/8-18		
Poly-Flo® and Kwik-Connect	5/16-24	3/8-24	3/8-24	7/16-24	1/2-24		11/16-20				

### PIPE END THREADS

Pipe Fittings	1/8-27		1/4-18		3/8-18		1/2-14		3/4-14		1-11 1/2
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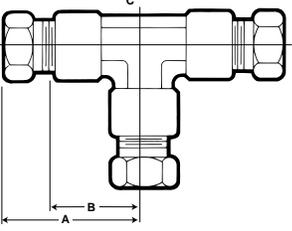
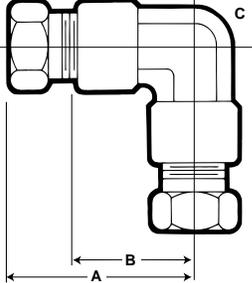
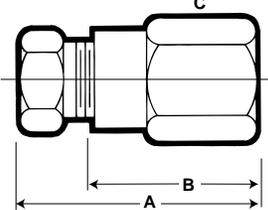
# Tube Fittings

Hi-Duty® Flareless Material: Brass

Style	Part No.	Tube O.D.	Pipe Thread	Min. Orifice Size	A	B	Wrench Pad/Hex C	D	Bulkhead Thread E
<b>STYLE 66LB</b> <b>Bulkhead Female Connector</b> 	66LB04X04	1/4	1/4	0.187	1.437	1.031	0.875	0.625	3/4-18
<b>STYLE 72LB</b> <b>Bulkhead Union</b> 	72LB02	1/8		0.093	1.781	1.156	0.562	0.625	7/16-24
	72LB04	1/4		0.187	1.968	1.156	0.687	0.625	9/16-24
	72LB06	3/8		0.312	2.125	1.312	0.812	0.625	11/16-24
<b>STYLE 81LB</b> <b>Nut</b> 	81LB02	1/8			0.656		0.312		
	81LB03	3/16			0.687		0.375		
	81LB04	1/4			0.734		0.437		
	81LB05	5/16			0.765		0.500		
	81LB06	3/8			0.843		0.562		
	81LB08	1/2			0.921		0.688		
	81LB10	5/8			1.078		0.875		
	81LB12	3/4			1.140		1.000		
	81LB16	1			1.218		1.250		
<b>STYLE 82LB</b> <b>Union</b> 	82LB02	1/8			0.093	1.687	1.062	0.375	
	82LB03	3/16			0.125	1.781	1.031	0.437	
	82LB04	1/4			0.187	1.906	1.093	0.562	
	82LB05	5/16			0.250	2.000	1.187	0.562	
	82LB06	3/8			0.312	2.187	1.375	0.625	
	82LB08	1/2			0.437	2.437	1.562	0.812	
	82LB10	5/8			0.500	2.937	1.812	1.062	

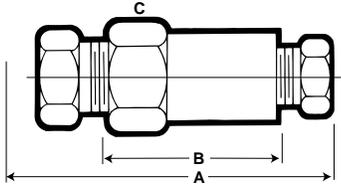
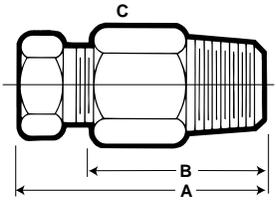
# Tube Fittings

Hi-Duty® Flareless Material: Brass

Style	Part No.	Tube O.D.	Pipe Thread	Min. Orifice Size	A	B	Wrench Pad/Hex C
<b>STYLE 84LB</b> <b>Union Tee</b> 	84LB02	1/8		0.093	1.031	0.718	0.312
	84LB03	3/16		0.125	1.093	0.718	0.312
	84LB04	1/4		0.187	1.093	0.687	0.437
	84LB06	3/8		0.312	1.343	0.937	0.562
	84LB08	1/2		0.437	1.468	1.031	0.687
	84LB10	5/8		0.500	1.843	1.281	1.000
<b>STYLE 85LB</b> <b>Union Elbow</b> 	85LB04	1/4		0.187	1.093	0.687	0.437
	85LB06	3/8		0.312	1.343	0.937	0.562
	85LB08	1/2		0.437	1.562	1.125	0.687
	85LB10	5/8		0.500	1.968	1.406	1.000
<b>STYLE 86LB</b> <b>Female Connector</b> 	86LB02X02	1/8	1/8	0.093	1.312	1.000	0.500
	86LB03X02	3/16	1/8	0.125	1.375	1.000	0.500
	86LB04X02	1/4	1/8	0.187	1.406	1.000	0.562
	86LB04X04	1/4	1/4	0.187	1.593	1.187	0.687
	86LB06X02	3/8	1/8	0.312	1.531	1.125	0.625
	86LB06X04	3/8	1/4	0.312	1.718	1.312	0.625
	86LB06X06	3/8	3/8	0.312	1.750	1.343	0.812
	86LB06X08	3/8	1/2	0.312	1.968	1.562	1.000
	86LB08X06	1/2	3/8	0.437	2.250	1.812	0.812
	86LB08X08	1/2	1/2	0.437	2.062	1.625	1.000

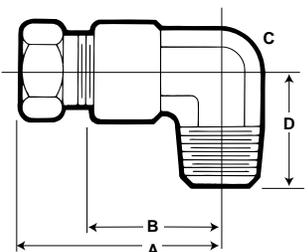
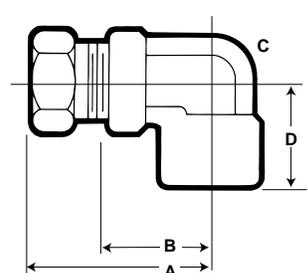
# Tube Fittings

Hi-Duty® Flareless Material: Brass

Style	Part No.	Tube O.D.	Pipe Thread	Min. Orifice Size	A	B	Wrench Pad/Hex C
<b>STYLE 87LB</b> <b>Reducing Union</b> 	87LB04X03	1/4 x 3/16		0.125	1.812	1.031	0.562
	87LB06X04	3/8 x 1/4		0.187	2.000	1.187	0.625
	87LB08X04	1/2 x 1/4		0.187	2.125	1.281	0.812
	87LB08X06	1/2 x 3/8		0.312	2.656	1.406	0.812
<b>STYLE 88LB</b> <b>Male Connector</b> 	88LB02X02	1/8	1/8	0.093	1.062	0.750	0.406
	88LB03X02	3/16	1/8	0.125	1.140	0.765	0.437
	88LB04X02	1/4	1/8	0.187	1.343	0.937	0.562
	88LB04X04	1/4	1/4	0.187	1.468	1.062	0.562
	88LB04X06	1/4	3/8	0.187	1.343	0.937	0.687
	88LB04X08	1/4	1/2	0.187	1.531	1.125	0.875
	88LB05X02	5/16	1/8	0.218	1.406	1.000	0.562
	88LB05X04	5/16	1/4	0.218	1.500	1.093	0.562
	88LB06X02	3/8	1/8	0.218	1.531	1.125	0.625
	88LB06X04	3/8	1/4	0.312	1.656	1.250	0.625
	88LB06X06	3/8	3/8	0.312	1.531	1.125	0.687
	88LB06X08	3/8	1/2	0.312	1.531	1.125	0.875
	88LB08X04	1/2	1/4	0.312	1.813	1.375	0.812
	88LB08X06	1/2	3/8	0.406	1.750	1.312	0.812
	88LB08X08	1/2	1/2	0.437	1.812	1.375	0.875
	88LB08X12	1/2	3/4	0.437	1.625	1.187	1.062
	88LB10X06	5/8	3/8	0.406	2.031	1.468	1.062
	88LB10X08	5/8	1/2	0.500	2.156	1.593	1.062
	88LB10X12	5/8	3/4	0.500	1.812	1.250	1.062
	88LB12X08	3/4	1/2	0.562	2.343	1.750	1.250
	88LB12X12	3/4	3/4	0.625	2.218	1.625	1.250
	88LB16X16	1	1	0.875	2.843	2.187	1.500

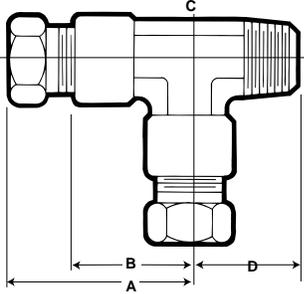
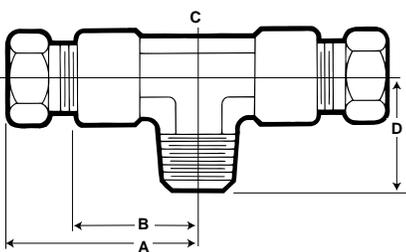
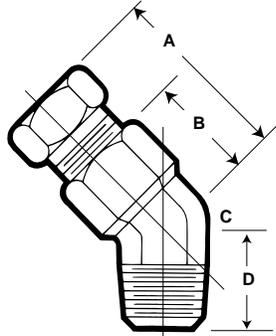
# Tube Fittings

Hi-Duty® Flareless Material: Brass

Style	Part No.	Tube O.D.	Pipe Thread	Min. Orifice Size	A	B	Wrench Pad/Hex C	D
<b>STYLE 89LB</b> <b>Male Elbow</b> 	89LB02X02	1/8	1/8	0.093	0.968	0.656	0.375	0.687
	89LB03X02	3/16	1/8	0.125	1.062	0.687	0.437	0.750
	89LB04X02	1/4	1/8	0.187	1.093	0.687	0.437	0.750
	89LB04X04	1/4	1/4	0.187	1.156	0.750	0.500	0.937
	89LB04X06	1/4	3/8	0.187	1.187	0.781	0.562	1.000
	89LB05X02	5/16	1/8	0.218	1.093	0.687	0.500	0.781
	89LB05X04	5/16	1/4	0.250	1.218	0.812	0.500	1.062
	89LB06X02	3/8	1/8	0.218	1.250	0.843	0.562	0.875
	89LB06X04	3/8	1/4	0.312	1.250	0.843	0.562	1.000
	89LB06X06	3/8	3/8	0.312	1.343	0.937	0.562	1.031
	89LB06X08	3/8	1/2	0.312	1.375	0.968	0.687	1.250
	89LB08X04	1/2	1/4	0.312	1.437	1.000	0.687	1.062
	89LB08X06	1/2	3/8	0.406	1.437	1.000	0.687	1.062
	89LB08X08	1/2	1/2	0.437	1.468	1.031	0.687	1.312
	89LB10X06	5/8	3/8	0.406	1.750	1.187	0.875	1.343
	89LB10X08	5/8	1/2	0.500	1.750	1.187	0.875	1.375
89LB12X12	3/4	3/4	0.625	1.937	1.343	1.000	1.468	
<b>STYLE 90LB</b> <b>Female Elbow</b> 	90LB02X02	1/8	1/8	0.093	1.031	0.718	0.375	0.718
	90LB04X02	1/4	1/8	0.187	1.093	0.687	0.437	0.750
	90LB04X04	1/4	1/4	0.187	1.250	0.843	0.500	0.875
	90LB06X02	3/8	1/8	0.312	1.250	0.843	0.562	0.937
	90LB06X04	3/8	1/4	0.312	1.343	0.937	0.562	1.093
	90LB06X06	3/8	3/8	0.312	1.468	1.062	0.625	0.937
	90LB08X06	1/2	3/8	0.437	1.500	1.062	0.687	1.281
	90LB08X08	1/2	1/2	0.437	1.656	1.218	0.875	1.188

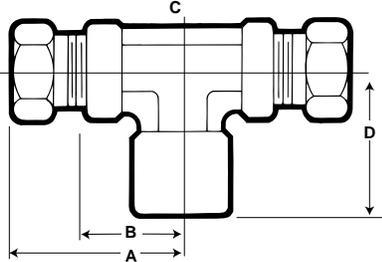
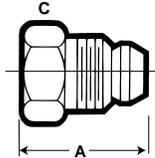
# Tube Fittings

Hi-Duty® Flareless Material: Brass

Style	Part No.	Tube O.D.	Pipe Thread	Min. Orifice Size	A	B	Wrench Pad/Hex C	D
<b>STYLE 91LB</b> <b>Male Run Tee</b> 	91LB03X02	3/16	1/8	0.125	1.093	0.718	0.312	0.718
	91LB04X02	1/4	1/8	0.187	1.156	0.750	0.375	0.750
	91LB04X04	1/4	1/4	0.187	1.218	0.812	0.437	0.937
	91LB06X04	3/8	1/4	0.312	1.343	0.937	0.562	1.000
	91LB06X06	3/8	3/8	0.312	1.406	1.000	0.625	1.125
<b>STYLE 92LB</b> <b>Male Branch Tee</b> 	92LB02X02	1/8	1/8	0.093	1.031	0.718	0.312	0.718
	92LB03X02	3/16	1/8	0.125	1.093	0.718	0.312	0.718
	92LB04X02	1/4	1/8	0.187	1.093	0.687	0.437	0.750
	92LB04X04	1/4	1/4	0.187	1.281	0.875	0.437	0.937
	92LB06X04	3/8	1/4	0.312	1.343	0.937	0.562	1.000
	92LB06X06	3/8	3/8	0.312	1.406	1.000	0.625	1.125
	92LB08X06	1/2	3/8	0.406	1.468	1.031	0.687	1.031
<b>STYLE 94LB</b> <b>45° Male Elbow</b> 	94LB02X02	1/8	1/8	0.093	1.000	0.687	0.437	0.687
	94LB03X02	3/16	1/8	0.125	1.062	0.687	0.437	0.687
	94LB04X02	1/4	1/8	0.187	1.093	0.687	0.437	0.687
	94LB04X04	1/4	1/4	0.187	1.093	0.687	0.562	0.843
	94LB06X04	3/8	1/4	0.312	1.187	0.781	0.562	0.843
	94LB06X06	3/8	3/8	0.312	1.281	0.875	0.500	0.875
	94LB08X06	1/2	3/8	0.406	1.375	0.937	0.812	1.062

# Tube Fittings

Hi-Duty® Flareless Material: Brass

Style	Part No.	Tube O.D.	Pipe Thread	Min. Orifice Size	A	B	Wrench Pad/Hex C	D
<b>STYLE 95LB</b> <b>Female Branch Tee</b> 	95LB04X02	1/4	1/8	0.187	1.093	0.687	0.437	0.750
	95LB04X04	1/4	1/4	0.187	1.156	0.750	0.562	1.093
	95LB06X04	3/8	1/4	0.312	1.343	0.937	0.562	1.093
	95LB06X06	3/8	3/8	0.312	1.406	1.000	0.625	1.187
	95LB08X06	1/2	3/8	0.437	1.468	1.031	0.687	1.031
	95LB10X08	5/8	1/2	0.500	1.843	1.281	1.000	1.250
	95LB12X08	3/4	1/2	0.625	1.906	1.312	1.093	1.437
<b>STYLE 99LB</b> <b>Plug</b> 	99LB02	1/8			0.656		0.375	
	99LB04	1/4			0.734		0.437	
	99LB06	3/8			0.843		0.625	
	99LB08	1/2			0.921		0.750	



INSTRUMENTATION & FILTRATION