

Job Name: _____ Engineer/Architect: _____
 Job Location: _____ Wholesaler: _____
 Submittal Date: _____ Contractor: _____

49 Series Flare x Male Iron Pipe Elbow

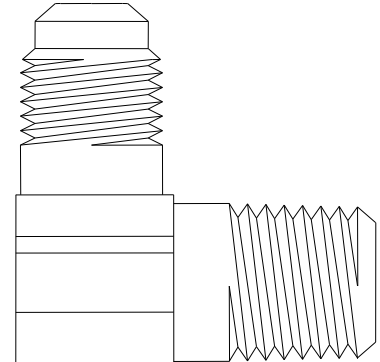
Use: For use with fuel, oil, liquefied petroleum (LP), and natural gas lines. Designed for use with aluminum, copper, brass, and welded steel tubing that can be flared.

Design Features:

- **Recommended for higher pressures** than those covered by compression fittings
- **Resist mechanical pull out**
- **Available in a broad range of sizes**

Operating Specifications:

Temperature: -65° - 250° F at maximum operating pressures
Working Pressure: See chart below
Vibration: Good vibration resistance*



*Recommend long flare nuts when greater vibration resistance is required

MAXIMUM WORKING PRESSURES														
Service Conditions	Tube O.D.	Type of Tubing and Wall Thickness (Inches)												
		Copper – Dead Soft (Seamless)					Copper – Half Hard (Seamless)							
		.030"	.032"	.035"	.049"	.065"	.032"	.035"	.042"	.049"	.065"			
Safety Factor 4-1	1/8	4300		5000			5000							
	3/16	2850		3300			3400							
	1/4	2100	2250	2500			2500							
	5/16		1800	2000			2000							
	3/8		1500	1650			1700	1850						
	1/2		1100	1250		2000	1250	1400					2600	
	5/8			1000	1400	1800	1000				1500		2000	
	3/4			850	1150	1500				1100			1700	
	7/8										1100		1500	
Safety Factor 6-1	1/8	2800		3350			3400							
	3/16	1900		2200			2250							
	1/4	1430	1500	1650			1700							
	5/16		1200	1300			1350							
	3/8		100	1100			1100	1200						
	1/2		750	825		1550	850	925					1750	
	5/8			650	930	1200	675				1000		1350	
	3/4			550	775	1000			725				1100	
	7/8										750		1000	

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FITTING MATERIAL SPECIFICATIONS

<i>Body</i>	<i>Brass</i>
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Part Listing:

<input type="checkbox"/>	49-3-2	3/16" OD flare x 1/8" MIP
<input type="checkbox"/>	49-3-2 B	3/16" OD flare x 1/8" MIP, bulk
<input type="checkbox"/>	49-3-2WN	3/16" OD flare x 1/8" MIP with flare nut - short
<input type="checkbox"/>	49-4-2	1/4" OD flare x 1/8" MIP
<input type="checkbox"/>	49-4-2 B	1/4" OD flare x 1/8" MIP, bulk
<input type="checkbox"/>	49-4-2WN	1/4" OD flare x 1/8" MIP with flare nut - short
<input type="checkbox"/>	49-4-4	1/4" OD flare x 1/4" MIP
<input type="checkbox"/>	49-4-4 B	1/4" OD flare x 1/4" MIP, bulk
<input type="checkbox"/>	49-4-4WN	1/4" OD flare x 1/4" MIP with flare nut - short
<input type="checkbox"/>	49-4-6	1/4" OD flare x 3/8" MIP
<input type="checkbox"/>	49-4-6 B	1/4" OD flare x 3/8" MIP, bulk
<input type="checkbox"/>	49-5-2	5/16" OD flare x 1/8" MIP
<input type="checkbox"/>	49-5-2 B	5/16" OD flare x 1/8" MIP, bulk
<input type="checkbox"/>	49-5-4	5/16" OD flare x 1/4" MIP
<input type="checkbox"/>	49-5-4 B	5/16" OD flare x 1/4" MIP, bulk
<input type="checkbox"/>	49-6-2	3/8" OD flare x 1/8" MIP
<input type="checkbox"/>	49-6-2 B	3/8" OD flare x 1/8" MIP, bulk
<input type="checkbox"/>	49-6-2WN	3/8" OD flare x 1/8" MIP with flare nut - short
<input type="checkbox"/>	49-6-4	3/8" OD flare x 1/4" MIP
<input type="checkbox"/>	49-6-4 B	3/8" OD flare x 1/4" MIP, bulk
<input type="checkbox"/>	49-6-4 CB	3/8" OD flare x 1/4" MIP, chrome plated, bulk
<input type="checkbox"/>	49-6-4WN	3/8" OD flare x 1/4" MIP, with flare nut - short
<input type="checkbox"/>	49-6-6	3/8" OD flare x 3/8" MIP
<input type="checkbox"/>	49-6-6 B	3/8" OD flare x 3/8" MIP, bulk
<input type="checkbox"/>	49-6-6WN	3/8" OD flare x 3/8" MIP with flare nut – short
<input type="checkbox"/>	49-6-6Z2	3/8" OD flare x 3/8" MIP (tapped 1/8" F.I.P.)
<input type="checkbox"/>	49-6-8	3/8" OD flare x 1/2" MIP
<input type="checkbox"/>	49-6-8 B	3/8" OD flare x 1/2" MIP, bulk
<input type="checkbox"/>	49-6-8WN	3/8" OD flare x 1/2" MIP with flare nut - short
<input type="checkbox"/>	49-8-4	1/2" OD flare x 1/4" MIP
<input type="checkbox"/>	49-8-4 B	1/2" OD flare x 1/4" MIP, bulk
<input type="checkbox"/>	49-8-4WN	1/2" OD flare x 1/4" MIP with flare nut - short
<input type="checkbox"/>	49-8-6	1/2" OD flare x 3/8" MIP
<input type="checkbox"/>	49-8-6 B	1/2" OD flare x 3/8" MIP, bulk
<input type="checkbox"/>	49-8-6WN	1/2" OD flare x 3/8" MIP with flare nut - short
<input type="checkbox"/>	49-8-8	1/2" OD flare x 1/2" MIP

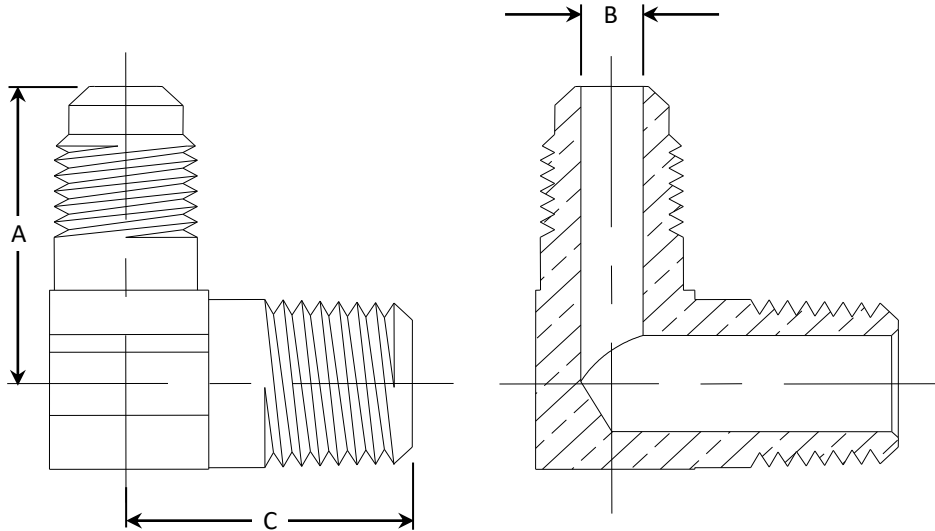
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Part Listing (con't):

- 49-8-8 B 1/2" OD flare x 1/2" MIP, bulk
- 49-8-8WN 1/2" OD flare x 1/2" MIP with flare nut - short
- 49-10-8 5/8" OD flare x 1/2" MIP
- 49-10-8 B 5/8" OD flare x 1/2" MIP, bulk
- 49-10-8WN 5/8" OD flare x 1/2" MIP with flare nut - short



PART DIMENSIONS (Inches)				
Model	Straight Threads	DIM. A	DIA. B	DIM. C
49-3-2	3/8-24	.73	.125	.69
49-4-2	7/16-20	.86	.188	.72
49-4-4	7/16-20	.89	.188	.86
49-4-6	7/16-20	.94	.188	.95
49-5-2	1/2-20	.89	.219	.80
49-5-4	1/2-20	.97	.219	.94
49-6-2	5/8-18	1.04	.281	.92
49-6-4	5/8-18	1.00	.281	1.06

PART DIMENSIONS (Inches)				
Model	Straight Threads	DIM. A	DIA. B	DIM. C
49-6-6	5/8-18	1.04	.281	1.01
49-6-6Z2	5/8-18	1.04	.281	1.05
49-6-8	5/8-18	1.14	.281	1.18
49-8-4	3/4-16	1.22	.406	1.19
49-8-6	3/4-16	1.22	.406	1.12
49-8-8	3/4-16	1.26	.406	1.36
49-10-8	7/8-14	1.42	.500	1.38

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