

Job Name:

Engineer/Architect:

Job Location:

Wholesaler:

Submittal Date:

Contractor:

149 Series Forged 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:

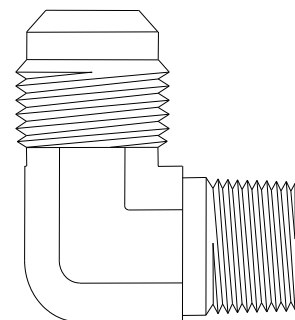
- **Recommended for higher pressures** than those covered by compression fittings
- **Resist mechanical pull out**
- **Available in a broad range of sizes**

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"
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
	3/4			850	1150	1500			1100	1700
	7/8									1100
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
	3/4			550	775	1000			725	1100
	7/8									750

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149 Series Forged Flare x Male Iron Pipe Elbow

FITTING MATERIAL SPECIFICATIONS

Body	Brass
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PART DIMENSIONS (Inches)

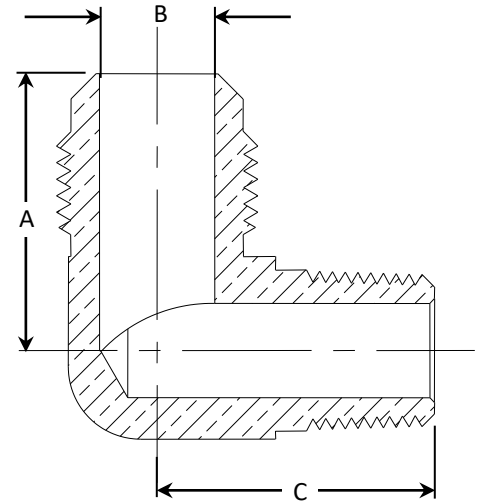
Model	Straight Threads	DIM. A	DIA. B	DIM. C
149-2-2	5/16-24	.69	.078	.75
149-3-2	3/8-24	.75	.125	.75
149-4-2	7/16-20	.83	.188	.78
149-4-4	7/16-20	.81	.188	.88
149-4-6	7/16-20	.91	.188	.91
149-4-8	7/16-20	1.03	.188	1.09
149-5-2	1/2-20	.91	.219	.78
149-5-4	1/2-20	.97	.219	.94
149-6-2	5/8-18	1.00	.281	.88
149-6-4	5/8-18	1.00	.281	.88
149-6-6	5/8-18	1.02	.281	.91
149-6-8	5/8-18	1.09	.281	1.09

PART DIMENSIONS (Inches)

Model	Straight Threads	DIM. A	DIA. B	DIM. C
149-6-12	5/8-18	1.31	.281	1.19
149-8-4	3/4-16	1.18	.406	1.00
149-8-6	3/4-16	1.18	.406	1.00
149-8-8	3/4-16	1.16	.344	1.13
149-8-12	3/4-16	1.41	.406	1.25
149-10-4	7/8-14	1.03	.344	1.13
149-10-6	7/8-14	1.34	.500	1.22
149-10-8	7/8-14	1.34	.500	1.22
149-10-12	7/8-14	1.44	.500	1.30
149-12-8	1-1/16-14	1.66	.625	1.50
149-12-12	1-1/16-14	1.66	.625	1.50
149-14-12	1-1/4-12	1.93	.750	1.70

Part Listing:

☐	149-2-2	1/8" OD tube x 1/8" MIP
☐	149-2-2 B	1/8" OD tube x 1/8" MIP, bulk
☐	149-3-2	3/16" OD tube x 1/8" MIP
☐	149-4-2	1/4" OD tube x 1/8" MIP
☐	149-4-2 B	1/4" OD tube x 1/8" MIP, bulk
☐	149-4-4	1/4" OD tube x 1/4" MIP
☐	149-4-6	1/4" OD tube x 3/8" MIP
☐	149-4-8	1/4" OD tube x 1/2" MIP
☐	149-5-2	5/16" OD tube x 1/8" MIP
☐	149-5-4	5/16" OD tube x 1/4" MIP
☐	149-5-4 B	5/16" OD tube x 1/4" MIP, bulk
☐	149-6-2	3/8" OD tube x 1/8" MIP
☐	149-6-4	3/8" OD tube x 1/4" MIP
☐	149-6-4 B	3/8" OD tube x 1/4" MIP, bulk
☐	149-6-6	3/8" OD tube x 3/8" MIP
☐	149-6-6 B	3/8" OD tube x 3/8" MIP, bulk
☐	149-6-8	3/8" OD tube x 1/2" MIP
☐	149-6-8 B	3/8" OD tube x 1/2" MIP, bulk
☐	149-6-12	3/8" OD tube x 3/4" MIP
☐	149-6-12 B	3/8" OD tube x 3/4" MIP, bulk
☐	149-8-4	1/2" OD tube x 1/4" MIP
☐	149-8-6	1/2" OD tube x 3/8" MIP



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149 Series

Forged Flare x Male Iron Pipe Elbow

Part Listing (con't):

☐	149-8-6 B	1/2" OD tube x 3/8" MIP, bulk
☐	149-8-8	1/2" OD tube x 1/2" MIP
☐	149-8-12	1/2" OD tube x 3/4" MIP
☐	149-8-12 B	1/2" OD tube x 3/4" MIP, bulk
☐	149-10-4	5/8" OD tube x 1/4" MIP
☐	149-10-6	5/8" OD tube x 3/8" MIP
☐	149-10-6 B	5/8" OD tube x 3/8" MIP, bulk
☐	149-10-8	5/8" OD tube x 1/2" MIP
☐	149-10-8 B	5/8" OD tube x 1/2" MIP, bulk
☐	149-10-12	5/8" OD tube x 3/4" MIP
☐	149-10-12 B	5/8" OD tube x 3/4" MIP, bulk
☐	149-12-8	3/4" OD tube x 1/2" MIP
☐	149-12-8 B	3/4" OD tube x 1/2" MIP, bulk
☐	149-12-12	3/4" OD tube x 3/4" MIP
☐	149-12-12 B	3/4" OD tube x 3/4" MIP, bulk
☐	149-14-12	1" OD tube x 3/4" MIP