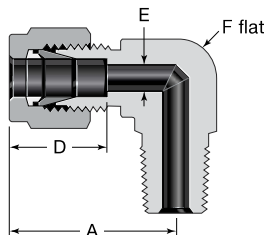


## 90° Elbows

### Male



See page 9 for thread specifications.

### NPT

Tube OD	NPT Size	Basic Ordering Number	Dimensions			
			A	D	E <sup>①</sup>	F
<b>Dimensions, in.</b>						
1/16	1/16 1/8	-100-2-1 -100-2-2	0.75	0.34	0.05	7/16
1/8	1/16	-200-2-1	0.93	0.50	0.09	7/16
	1/8	-200-2-2	0.93			7/16
	1/4	-200-2-4	0.97			1/2
3/16	1/8	-300-2-2	1.00	0.54	0.12	1/2
	1/4	-300-2-4				
1/4	1/16	-400-2-1	1.06	0.60	0.12	1/2
	1/8	-400-2-2	1.06		0.19	1/2
	1/4	-400-2-4	1.06		0.19	1/2
	3/8	-400-2-6	1.17		0.19	11/16
	1/2	-400-2-8	1.25		0.19	13/16
5/16	1/8	-500-2-2	1.13	0.64	0.19	9/16
	1/4	-500-2-4	1.13		0.25	9/16
	3/8	-500-2-6	1.20		0.25	11/16
3/8	1/8	-600-2-2	1.20	0.66	0.19	5/8
	1/4	-600-2-4	1.20		0.28	5/8
	3/8	-600-2-6	1.23		0.28	11/16
	1/2	-600-2-8	1.31		0.28	13/16
	3/4	-600-2-12	1.46		0.28	1 1/16
1/2	1/4	-810-2-4	1.42	0.90	0.28	13/16
	3/8	-810-2-6	1.42		0.38	13/16
	1/2	-810-2-8	1.42		0.41	13/16
	3/4	-810-2-12	1.57		0.41	1 1/16
5/8	3/8	-1010-2-6	1.50	0.96	0.38	15/16
	1/2	-1010-2-8	1.50		0.47	15/16
	3/4	-1010-2-12	1.57		0.50	1 1/16
3/4	1/2	-1210-2-8	1.57	0.96	0.47	1 1/16
	3/4	-1210-2-12			0.62	
7/8	3/4	-1410-2-12	1.76	1.02	0.62	1 3/8
1	3/4	-1610-2-12	1.93	1.23	0.62	1 3/8
	1	-1610-2-16			0.88	
1 1/4	1 1/4	-2000-2-20	2.67	1.62	1.09	1 11/16
1 1/2	1 1/2	-2400-2-24	3.10	1.97	1.34	2
2	2	-3200-2-32	4.22	2.66	1.81	2 3/4

① The E dimension is the minimum nominal opening. These fittings may have a larger opening at the pipe/straight thread end.

Tube OD	NPT Size in.	Basic Ordering Number	Dimensions			
			A	D	E <sup>①</sup>	F, in.
<b>Dimensions, mm</b>						
3	1/8	-3M0-2-2	23.6	12.9	2.4	7/16
	1/4	-3M0-2-4	24.6			1/2
4	1/8	-4M0-2-2	25.4	13.7	2.4	1/2
	1/4	-4M0-2-4				
6	1/8	-6M0-2-2	27.0	15.3	4.8	1/2
	1/4	-6M0-2-4	27.0			1/2
	3/8	-6M0-2-6	29.8			11/16
	1/2	-6M0-2-8	31.8			13/16
8	1/8	-8M0-2-2	28.8	16.2	4.8	9/16
	1/4	-8M0-2-4	28.8		6.4	9/16
	3/8	-8M0-2-6	30.6		6.4	11/16
	1/2	-8M0-2-8	32.6		6.4	13/16
10	1/8	-10M0-2-2	31.5	17.2	4.8	11/16
	1/4	-10M0-2-4	31.5		7.1	11/16
	3/8	-10M0-2-6	31.5		7.9	11/16
	1/2	-10M0-2-8	33.5		7.9	13/16
12	1/4	-12M0-2-4	36.0	22.8	7.1	13/16
	3/8	-12M0-2-6	36.0		9.5	13/16
	1/2	-12M0-2-8	36.0		9.5	13/16
	3/4	-12M0-2-12	39.8		9.5	1 1/16
14	1/2	-14M0-2-8	38.0	24.4	11.1	15/16
15	1/2	-15M0-2-8	38.0	24.4	11.9	15/16
16	3/8	-16M0-2-6	38.0	24.4	9.5	15/16
	1/2	-16M0-2-8	38.0		11.9	15/16
	3/4	-16M0-2-12	39.8		12.7	1 1/16
18	1/2	-18M0-2-8	39.8	24.4	11.9	1 1/16
	3/4	-18M0-2-12			15.1	
20	1/2	-20M0-2-8	44.6	26.0	11.9	1 3/8
	3/4	-20M0-2-12			15.9	
22	3/4	-22M0-2-12	44.6	26.0	15.9	1 3/8
	1	-22M0-2-16			18.3	
25	3/4	-25M0-2-12	49.1	31.3	15.9	1 3/8
	1	-25M0-2-16			21.8	
30	1 1/4	-30M0-2-20	69.9	39.6	26.2	46 mm
32	1 1/4	-32M0-2-20	72.3	42.0	27.8	46 mm
38	1 1/2	-38M0-2-24	84.0	49.4	33.7	55 mm

① The E dimension is the minimum nominal opening. These fittings may have a larger opening at the pipe/straight thread end.

Refer to Installation Instructions, beginning on page 69.