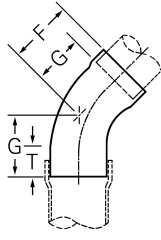
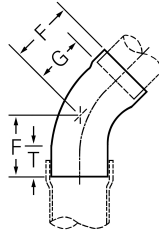


Copper-Nickel Belled End Fittings

45° Long Radius Street Elbows - NAVSEA 802-5959353 App.B, MSS SP-119



NAVSEA



MSS

- UNS Designation Numbers: 90-10 (UNS C70600) and 70-30 (UNS C71500).
- Nominal Chemicals 90-10: Copper 88.6%, Nickel 10.0%, Iron 1.4%.
- Nominal Chemicals 70-30: Copper 69.5%, Nickel 30.0%, Iron 0.5%.

Nominal Pipe Size	OD	Minimum Wall	NAVSEA				Weight	MSS			NAVSEA		MSS	
			F	G	T (Tangent)	F		G	T (Tangent)	90-10 Part Number	70-30 Part Number	90-10 Part Number	70-30 Part Number	
1/4	.540	.065	1.02	0.70	0.28	.2	1.24	0.92	0.62	478180	478198			
3/8	.675	.065	1.20	0.89	0.38	.3	1.24	0.92	0.62	478203	478229			
1/2	.840	.065	1.38	1.06	0.44	.5	1.38	1.06	0.75	478253	478261			
3/4	1.050	.065	1.25	0.94	0.47	.6	1.38	1.06	0.75	478295	478318			
1	1.315	.065	1.50	1.12	0.50	.7	1.50	1.12	0.88	478334	478368	494356		
1 1/4	1.660	.072	1.78	1.34	0.56	1	1.78	1.34	1.00	478384	478415			
1 1/2	1.900	.072	2.19	1.62	0.69	1	2.19	1.62	1.25	478449	478457			
2	2.375	.083	2.53	1.97	0.72	2	2.53	1.97	1.28	474283	478473			
2 1/2	2.875	.083	3.19	2.44	0.88	4	3.19	2.44	1.63	469961	478499	494623	497273	
3	3.500	.095	3.52	2.76	0.91	5	3.52	2.76	1.67	469995	478520	494380		
3 1/2*	4.000	.095	3.96	3.17	0.93	8	3.96	3.17	1.73					
4	4.500	.109	4.27	3.45	0.97	10	4.27	3.45	1.78	471706	478546	494364	496984	
5	5.563	.125	5.14	4.20	1.09	16.5	5.14	4.20	2.03	470001	478562			
6	6.625	.134	5.91	4.91	1.17	26.5	5.91	4.91	2.17	470019	478588			
8	8.625	.151	7.59	6.34	1.38	21	7.59	6.34	2.62	467260	478601			
10	10.75	.187	9.22	7.78	1.56	36.5	9.22	7.78	3.00	470027	478627			
12	12.75	.250	10.70	9.14	1.69	76	10.70	9.14	3.25	474291	478643			

Dimension G is center to end of fitting for street end and center of fitting to end of adjoining pipe for socket end.

Dimension F is center to end of the fitting.

Dimension T is the tangent length of the street end.

Dimensions are in inches.

Sizes not shown may be available upon request.

**3 1/2" size is not included in NAVSEA or MSS, dimensions per Alaskan standards.