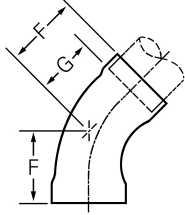


Copper-Nickel Belled End Fittings

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



- 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		MSS		Weight	NAVSEA/MSS*	
			F	G	F	G		90-10 Part Number	70-30 Part Number
1/4	.540	.065	1.02	0.70	1.24	0.92	.1	477778	477794
3/8	.675	.065	1.20	0.89	1.24	0.92	.1	477825	477841
1/2	.840	.065	1.38	1.06	1.38	1.06	.4	477875	477930
3/4	1.050	.065	1.25	0.94	1.38	1.06	.6	477980	478017
1	1.315	.065	1.50	1.12	1.50	1.12	.7	474259	478041
1 1/4	1.660	.072	1.78	1.34	1.78	1.34	.9	478067	478083
1 1/2	1.900	.072	2.19	1.62	2.19	1.62	1	478106	478122
2	2.375	.083	2.53	1.97	2.53	1.97	2	476926	476730
2 1/2	2.875	.083	3.19	2.44	3.19	2.44	2	469814	478148
3	3.500	.095	3.52	2.76	3.52	2.76	4	469822	471756
3 1/2**	4.000	.095	3.96	3.17	3.96	3.17	6	564509	512853
4	4.500	.109	4.27	3.45	4.27	3.45	7	469830	476748
5	5.563	.125	5.14	4.20	5.14	4.20	11	469848	476756
6	6.625	.134	5.91	4.91	5.91	4.91	17	469856	471764
8	8.625	.151	7.59	6.34	7.59	6.34	22	467252	478172
10	10.75	.187	9.22	7.78	9.22	7.78	39	467286	467309
12	12.75	.250	10.70	9.14	10.70	9.14	80	478677	478693

Dimension G is center of fitting to end of adjoining pipe.

Dimension F is center to end of the fitting.

Dimensions are in inches.

Sizes not shown may be available upon request.

*Part numbers shown for sizes 1/4", 3/8" and 3/4" are NAVSEA, MSS also available.

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