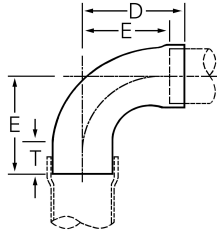
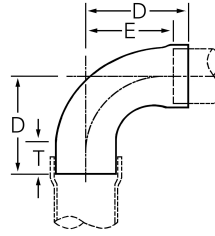


Copper-Nickel Belled End Fittings

90° 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	
			D	E	T (Tangent)	D		E	T (Tangent)	90-10 Part Number	70-30 Part Number	90-10 Part Number	70-30 Part Number	
1/4	.540	.065	1.59	1.28	.28	.2	2.12	1.80	.62	479144	479160			
3/8	.675	.065	1.94	1.62	.38	.3	2.12	1.80	.62	479225	479233			
1/2	.840	.065	2.25	1.94	.44	.5	2.25	1.94	.75	479291	479314			
3/4	1.050	.065	1.91	1.59	.47	.6	2.25	1.94	.75	479372	479380			
1	1.315	.065	2.38	2.00	.50	.7	2.38	2.00	.88	479411	479437			
1 1/4	1.660	.072	2.88	2.44	.56	1	2.88	2.44	1.00	479487	479500			
1 1/2	1.900	.072	3.50	2.94	.69	1	3.50	2.94	1.25	479550	479576			
2	2.375	.083	4.28	3.72	.72	2	4.28	3.72	1.28	474267	478847			
2 1/2	2.875	.083	5.38	4.62	.88	4	5.38	4.62	1.63	469898	478863	494479	494607	
3	3.500	.095	6.17	5.41	.91	5	6.17	5.41	1.67	469903	478871	494453	494445	
3 1/2*	4.00	.095	6.98	6.18	.94	8	6.98	6.18	1.73					
4	4.500	.109	7.78	6.97	.97	9.6	7.78	6.97	1.78	469911	478897	494500		
5	5.563	.125	9.53	8.59	1.09	16.5	9.53	8.59	2.03	469929	478910			
6	6.625	.134	11.17	10.17	1.17	27	11.17	10.17	2.17	469945	478936			
8	8.625	.151	14.62	13.38	1.38	35	14.62	13.38	2.62	467236	478952	587086		
10	10.75	.187	18.00	16.56	1.56	65.5	18.00	16.56	3.00	474275	478960			
12	12.75	.250	21.25	19.69	1.69	116	21.25	19.69	3.25	479021	479039			

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

Dimension D 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.