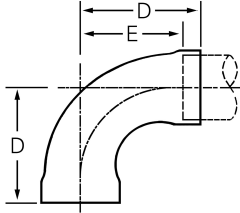


## Copper-Nickel Belled End Fittings

### 90° 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	
			D	E	D	E		90-10 Part Number	70-30 Part Number
1/4	.540	.065	1.88	1.56	2.12	1.80	.2	479071**	479097**
3/8	.675	.065	1.94	1.62	2.12	1.80	.3	479186**	479209**
1/2	.840	.065	2.25	1.94	2.25	1.94	.5	479259	479275
3/4	1.050	.065	1.91	1.59	2.25	1.94	.6	479348**	479364**
1	1.315	.065	2.38	2.00	2.38	2.00	.7	479398	476691
1 1/4	1.660	.072	2.88	2.44	2.88	2.44	1	479453	479479
1 1/2	1.900	.072	3.50	2.94	3.50	2.94	1.	479526	476706
2	2.375	.083	4.28	3.72	4.28	3.72	2	469791	470603
2 1/2	2.875	.083	5.38	4.62	5.38	4.62	4	467456	471722
3	3.500	.095	6.17	5.41	6.17	5.41	5	469806	470629
3 1/2*	4.000	.095	6.98	6.18	6.98	6.18	8	508448	494487
4	4.500	.109	7.78	6.97	7.78	6.97	10	467464	471730
5	5.563	.125	9.53	8.59	9.53	8.59	16.5	468240	478790
6	6.625	.134	11.17	10.17	11.17	10.17	26.5	468258	476714
8	8.625	.151	14.62	13.38	14.62	13.38	36	467228	478821
10	10.75	.187	18.00	16.56	18.00	16.56	68	467278	467294
12	12.75	.250	21.25	19.69	21.25	19.69	120	478986	479005

Dimension E is center of fitting to end of adjoining pipe.  
Dimension D is center to end of the fitting.

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.

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