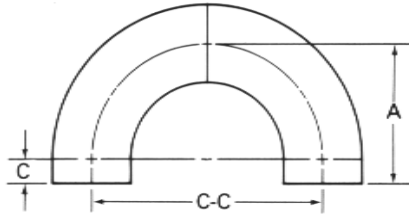


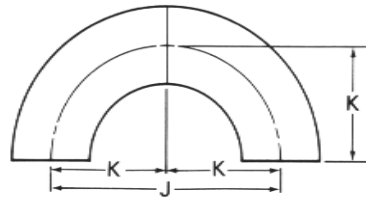
Copper-Nickel Butt Welding Fittings

180° Long Radius Return Bends - NAVSEA 810-1385880, Revision D

NAVSEA



ANSI B16.9



- 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	C-C (Min)	C (Min)	A (Min)	J	K*	Class 200 Nom. Wall	Weight	90-10 Part Number	70-30 Part Number
1	1.315	3	1/2	2	3	1 1/2	.065	.4	293572	477891
1 1/4	1.660	3 3/4	9/16	2 7/16	3 3/4	1 7/8	.072	.6	113756	477906
1 1/2	1.900	4 1/2	11/16	2 15/16	4 1/2	2 1/4	.072	.9	113780	477914
2	2.375	6	23/32	3 23/32	6	3	.083	1.5	113811	477922
2 1/2	2.875	7 1/2	7/8	4 5/8	7 1/2	3 3/4	.083	2.5	113845	477948
3	3.500	9	29/32	5 13/32	9	4 1/2	.095	4	113586	447545
3 1/2	4.000	10 1/2	15/16	6 1/4	10 1/2	5 1/4	.095	6.5	431950	477956
4	4.500	12	31/32	6 31/32	12	6	.109	10	113617	477964
5	5.563	15	1 3/32	8 19/32	15	7 1/2	.125	18	113641	477972
6	6.625	18	1 11/64	10 11/64	18	9	.134	30	113675	477998
8	8.625	24	1 3/8	13 3/8	24	12	.148	54	113706	478009
10	10.75	30	1 9/16	16 9/16	30	15	.187	106		
12	12.75	36	1 11/16	19 11/16	36	18	.250	192		
14	14.00	42	1/2	21 1/2	42	21	.250	240		
16	16.00	48	1/2	24 1/2	48	24	.250	314		
18	18.00	54	1/2	27 1/2	54	27	.250	394		
20	20.00	60	1/2	30 1/2	60	30	.250	486		
22	22.00	66	1/2	33 1/2	66	33	.250	588		
24	24.00	72	1/2	36 1/2	72	36	.250	698		
30	30.00	90	1/2	45 1/2	90	45	.250	1088		
36	36.00	108	1/2	54 1/2	108	54	.250	1562		

180° return bends are also available in short radius configurations (radii dimensions per ANSI B 16.28).
 Dimensions are in inches. All weights are approximate.
 Specifications: pg. 60. Tolerances: pg. 58.

* ANSI B16.9 dimensions up to and including 24" size. Sizes larger than 24" are manufactured to Alaskan dimensional standards.
 Sizes not shown may be available upon request.
 Available in "regular" thickness (similar to Schedule 40s).