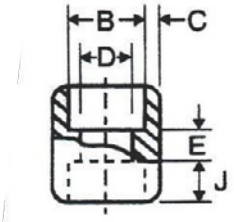
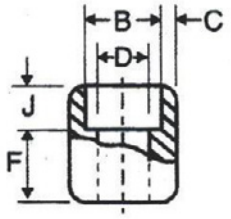
Socket-Welding Fittings

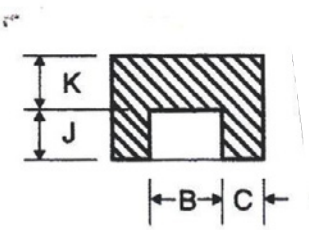
ASME B16-11



Coupling



Half Coupling



Cap

DN	Nom. Pipe Size	Centre to Bottom of Socket – A						Laying Lengths		Tolerances +/-			End Wall Thickness K Min.		
		90° Elbows, Tess, Crosses			45°Elbows			C-Lings	Half C-Lings	A	E	F			
		Class Designation			Class Designation								Class Designation		
		3000	6000	9000	3000	6000	9000	E	F				3000	6000	9000
3	1/8	11.0	11.0		8.0	8.0		6.5	16.0	1.0	1.5	1.0		6.4	
6	1/4	11.0	13.5		8.0	8.0		6.5	16.0	1.0	1.5	1.0		6.4	
10	3/8	13.5	15.5		8.0	11.0		6.5	17.5	1.5	3.0	1.5		6.4	
15	1/2	15.5	19.0	25.5	11.0	12.5	15.5	9.5	22.5	1.5	3.0	1.5		7.9	11.2
20	3/4	19.0	20.5	28.5	13.0	14.0	19.0	9.5	24.0	1.5	3.0	1.5		7.9	12.7
25	1	22.5	27.0	32.0	14.0	17.5	20.5	12.5	28.5	2.0	4.0	2.0		11.2	14.2
32	1-1/4	27.0	32.0	35.0	17.5	20.5	22.5	12.5	30.0	2.0	4.0	2.0		11.2	14.2
40	1-1/2	32.0	38.0	38.0	20.5	25.5	25.5	12.5	32.0	2.0	4.0	2.0		12.7	15.7
50	2	38.0	41.0	54.0	25.5	28.5	28.5	19.0	41.0	2.0	4.0	2.0		15.7	19.0
65	2-1/2	41.0			28.5			19.0	43.0	2.5	5.0	2.5		19.0	
80	3	57.0			32.0			19.0	44.5	2.5	5.0	2.5		22.4	
100	4	66.5			41.0			19.0	48.0	2.5	5.0	2.5		28.4	

Notes:
1. Average of Socket Wall Thickness around periphery shall be no less than listed values. The minimum valves are permitted in localized areas.
2. Upper and lower values for each size are the respective maximum and minimum dimensions.

Socket-Welding Fittings

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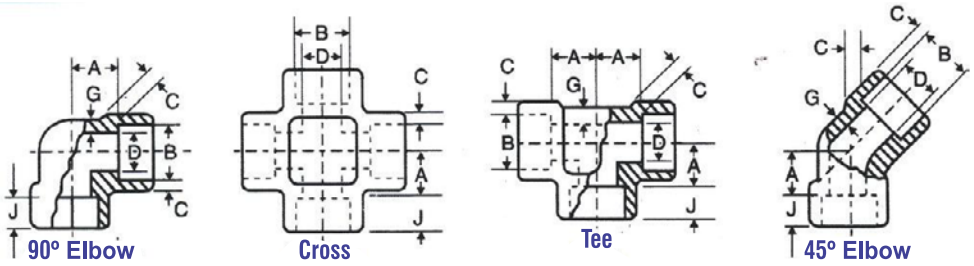

Dimensions in mm

DN	Nom. Pipe Size	Socket Bore Dia. (2) B	Bore Diameter of Fitting (2) D			Socket Wall Thickness (1) C						Body Wall Thickness G			Depth of Socket Min. J
			Class Designation			Class Designation						Class Designation			
						3000		6000		9000		3000	6000	9000	
			3000	6000	9000	Ave.	Min.	Ave.	Min.	Ave.	Min.	Min.	Min.	Min.	
3	1/8	11.2 10.8	7.6 6.1	4.8 3.2		3.18	3.18	3.96	3.43			2.41	3.15		9.5
6	1/4	14.6 14.2	10.0 8.5	7.1 5.6		3.78	3.30	4.60	4.01			3.02	3.68		9.5
10	3/8	18.0 17.6	13.3 11.8	9.9 8.4		4.01	3.50	5.03	4.37			3.20	4.01		9.5
15	1/2	22.2 21.8	16.6 15.0	12.5 11.0	7.2 5.6	4.67	4.09	5.97	5.18	9.35	8.18	3.73	4.78	7.47	9.5
20	3/4	27.6 37.2	21.7 20.2	16.3 14.8	11.8 10.3	4.90	4.27	6.96	6.04	9.78	8.56	3.91	5.56	7.82	12.5
25	1	34.3 33.9	27.4 25.9	21.5 19.9	16.0 14.5	5.69	4.98	7.92	6.93	11.38	9.96	4.55	6.35	9.09	12.5
32	1-1/4	43.1 42.7	35.8 34.3	30.2 28.7	23.5 22.0	6.07	5.28	7.92	6.93	12.14	10.62	4.85	6.35	9.70	12.5
40	1-1/2	49.2 48.8	41.6 40.1	34.7 33.2	28.27 27.2	6.35	5.54	8.92	7.80	12.70	11.12	5.08	7.14	10.15	12.5
50	2	61.7 61.2	53.3 51.7	43.6 42.1	38.9 37.4	6.93	6.04	10.92	9.50	13.84	12.12	5.54	8.74	11.07	16.0
65	2-1/2	74.4 73.9	64.2 61.2			8.76	7.67					7.01			16.0
80	3	90.3 89.8	79.4 76.4			9.52	8.30					7.62			16.0
100	4	115.7 115.2	103.8 100.7			10.69	9.35					8.56			19.0

Notes:
1. Average of Socket Wall Thickness around periphery shall be no less than listed values. The minimum valves are permitted in localized areas.
2. Upper and lower values for each size are the respective maximum and minimum dimensions.