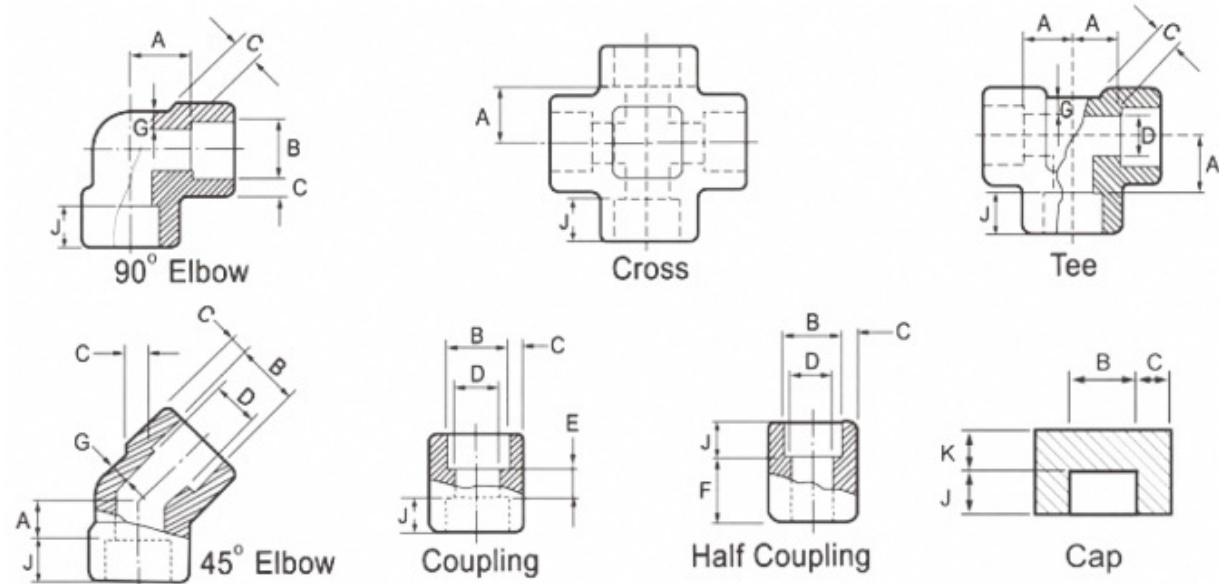


SPECIFICATION

90-deg Elbow, 45-deg Elbow, Tee, Cross, Coupling & Cap



ASME B16.11

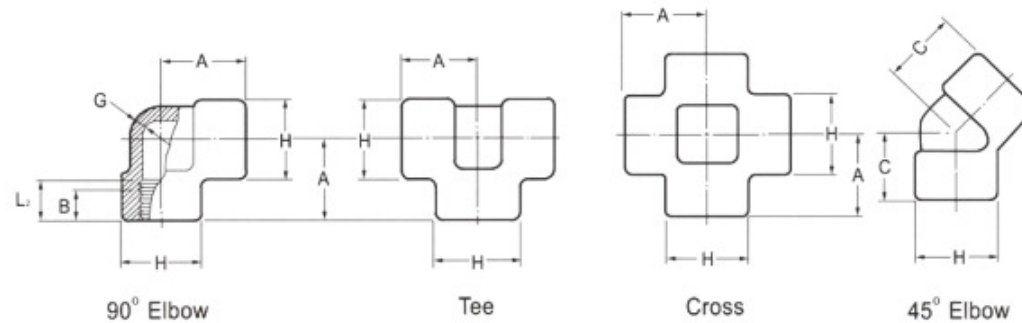
Nominal Pipe Size		Socket Bore Diameter B	Bore Diameter of Fittings, D[Note(2)]			Socket Wall Thickness, C[Note(3)]						Body Wall, G			Min. Depth of Socket, J	Center to Bottom of Socket, A						Laying Lengths			Tolerances, +			End Wall Thickness, Kmin.		
			Class Designation			Class Designation						Class Designation				90-deg Elbow, Tee, and Crosses			45-deg Elbow			Couplings		A	E	F	Class Designation			
DN	NPS		3000	6000	9000	3000		6000		9000		3000	6000	9000	Class Designation			Couplings		E	F	A	E				F	Class Designation		
						Avg.	Min.	Avg.	Min.	Avg.	Min.	Min.	Min.	Min.	3000	6000	9000	3000	6000					9000	E	F				
80	3"	90.3	79.4	-	-	9.52	8.3	-	-	-	-	7.62	-	-	16	57	-	-	32	-	-	19	44.5	2.5	5	2.5	19	22.4	-	
		89.8	76.4	-	-																									
100	4"	116	104	-	-	10.7	9.35	-	-	-	-	8.56	-	-	19	67	-	-	41	-	-	19	48	2.5	5	2.5	22.4	28.4	-	
		115	101	-	-																									

Note:

- All dimensions are in millimeters
- Upper and lower values for each size are the respective maximum and minimum dimensions.
- Average of socket wall thickness around periphery shall be no less than listed values. The minimum values are permitted in localized areas.

SPECIFICATION

Threaded Fittings-90-deg Elbow 、 45-deg Elbow 、 Tee 、 Cross



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Nominal Pipe Size		Center-to End Elbows, Tees, Crosses, A			Center-to End 45-deg Elbow, C			Outside Diameter of Band, H			Min. Wall Thickness, G			Min. Length of Thread [Note(2)]	
DN	NPS	2000	3000	6000	2000	3000	6000	2000	3000	6000	2000	3000	6000	B	L2
6	1/8"	21	21	25	17	17	19	22	22	25	3.18	3.18	6.35	6.4	6.7
8	1/4"	21	25	28	17	19	22	22	25	33	3.18	3.3	6.6	8.1	10.2
10	3/8"	25	28	33	19	22	25	25	33	38	3.18	3.51	6.98	9.1	10.4
15	1/2"	28	33	38	22	25	28	33	38	46	3.18	4.09	8.15	10.9	13.6
20	3/4"	33	38	44	25	28	33	38	46	56	3.18	4.32	8.53	12.7	13.9
25	1"	38	44	51	28	33	35	46	56	62	3.68	4.98	9.93	14.7	17.3
32	1-1/4"	44	51	60	33	35	43	56	62	75	3.89	5.28	10.59	17	18
40	1-1/2"	51	60	64	35	43	44	62	75	84	4.01	5.56	11.07	17.8	18.4
50	2"	60	64	83	43	44	52	75	84	102	4.27	7.14	12.09	19	19.2
65	2-1/2"	76	83	95	52	52	64	92	102	121	5.61	7.65	15.29	23.6	28.9
80	3"	86	95	106	64	64	79	109	121	146	5.99	8.84	16.64	25.9	30.5
100	4"	106	114	114	79	79	79	146	152	152	6.55	11.18	18.67	27.7	33

Note:

- All dimensions are in millimeters
- Dimension B is minimum length of perfect thread. The length of useful thread (B plus threads with fully formed roots and flat crests) shall not be less than L₂ (effective length of external thread) required by American National Standard for Pipe Threads (ASME B1.20.1)