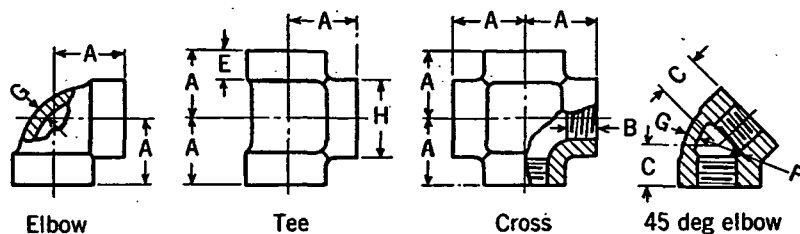


TABLE 6. AMERICAN STANDARD DIMENSIONS OF ELBOWS, 45-DEG ELBOWS, TEES, AND CROSSES (STRAIGHT SIZES) FOR CLASS 125 CAST-IRON SCREWED FITTINGS, A.S.A. B16a-1939



NOMINAL PIPE SIZE	A CENTER TO END, ELBOWS, TEES AND CROSSES	C CENTER TO END, 45 DEG ELBOWS	B LENGTH OF THREAD, MIN.	E WIDTH OF BAND, MIN.	F INSIDE DIAMETER OF FITTING		G METAL THICKNESS, MIN.	H OUTSIDE DIAMETER OF BAND, MIN.
					Min.	Max.		
1/4	0.81	0.73	0.32	0.38	0.540	0.584	0.110	0.93
3/8	0.95	0.80	0.36	0.44	0.675	0.719	0.120	1.12
1/2	1.12	0.88	0.43	0.50	0.840	0.897	0.130	1.34
3/4	1.31	0.98	0.50	0.56	1.050	1.107	0.155	1.63
1	1.50	1.12	0.58	0.62	1.315	1.385	0.170	1.95
1 1/4	1.75	1.29	0.67	0.69	1.660	1.730	0.185	2.39
1 1/2	1.94	1.43	0.70	0.75	1.900	1.970	0.200	2.68
2	2.25	1.68	0.75	0.84	2.375	2.445	0.220	3.28
2 1/2	2.70	1.95	0.92	0.94	2.875	2.975	0.240	3.86
3	3.08	2.17	0.98	1.00	3.500	3.600	0.260	4.62
3 1/2	3.42	2.39	1.03	1.06	4.000	4.100	0.280	5.20
4	3.79	2.61	1.08	1.12	4.500	4.600	0.310	5.79
5	4.50	3.05	1.18	1.18	5.563	5.663	0.380	7.05
6	5.13	3.46	1.28	1.28	6.625	6.725	0.430	8.28
8	6.56	4.28	1.47	1.47	8.625	8.725	0.550	10.63
10	8.08 ^b	5.16	1.68	1.68	10.750	10.850	0.690	13.12
12	9.50 ^b	5.97	1.88	1.88	12.750	12.850	0.800	15.47

All dimensions given in inches.

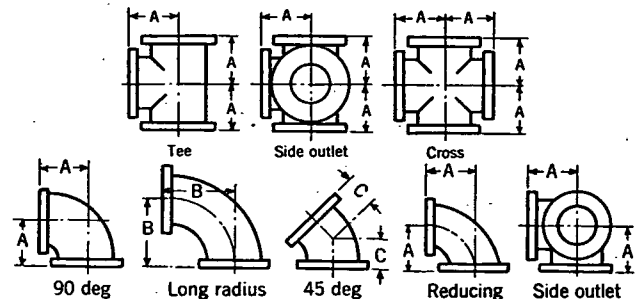
^aPatterns shall be designed to produce castings of metal thickness given in the table. Metal thickness at no point shall be less than 90 per cent of the thickness given in the table.

^bApplies to elbows and tees only.

used, particularly where the temperature exceeds 250 F. Jacketed asbestos and metallic gaskets may be used for any pressure and temperature conditions, but preferably only with a relatively narrow recessed facing.

WELDING

Erection of piping in heating and ventilating installations by means of fusion welding has been commonly accepted in the past few years as an alternate method to the screwed and flanged joint. Since the question of economy of welding as against the use of screwed and flanged fittings

TABLE 7. AMERICAN STANDARD DIMENSIONS OF TEES, CROSSES^a (STRAIGHT SIZES), AND ELBOWS FOR CLASS 125 CAST-IRON FLANGED FITTINGS, A.S.A. B16a-1939

NOMINAL PIPE SIZE ^a	A CENTER TO FACE TEES, CROSSES ^d AND ELBOWS	AA FACE TO FACE TEES AND CROSSES ^d	B CENTER TO FACE LONG RADIUS ELBOWS ^{e,f,g}	C CENTER TO FACE 45 DEG ELBOWS	DIAMETER OF FLANGE	THICKNESS OF FLANGE, MIN.	METAL ^h THICKNESS OF BODY
1	3 1/4	7	5	1 3/4	4 1/4	3/16	5/16
1 1/4	3 3/4	7 1/2	5 1/2	2	4 5/8	3/16	5/16
1 1/2	4	8	6	2 1/4	5	3/16	5/16
2	4 1/2	9	6 1/2	2 1/2	6	3/8	5/16
2 1/2	5	10	7	3	7	11/16	5/8
3	5 1/2	11	7 3/4	3	7 1/2	3/4	5/8
3 1/2	6	12	8 1/2	3 1/2	8 1/2	13/16	5/8
4	6 1/2	13	9	4	9	15/16	1
5	7 1/2	15	10 1/4	4 1/2	10	15/16	1
6	8	16	11 1/2	5	11	1	1 1/8
8	9	18	14	5 1/2	13 1/2	1 1/8	1 1/8
10	11	22	16 1/2	6 1/2	16	1 1/8	1 1/8
12	12	24	19	7 1/2	19	1 1/4	1 1/8
14 O.D.	14	28	21 1/2	7 1/2	21	1 3/8	1 1/8
16 O.D.	15	30	24	8	23 1/2	1 7/8	1 1/8
18 O.D.	16 1/2	33	26 1/2	8 1/2	25	1 7/8	1 1/8
20 O.D.	18	36	29	9 1/2	27 1/2	1 7/8	1 1/8
24 O.D.	22	44	34	11	32	1 7/8	1 1/8
30 O.D.	25	50	41 1/2	15	38 3/4	2 1/8	1 1/8
36 O.D.	28	56	49	18	46	2 3/8	1 1/8
42 O.D.	31	62	56 1/2	21	53	2 5/8	1 1/8
48 O.D.	34	68	64	24	59 1/2	2 5/8	2

All dimensions given in inches.

^aCrosses both straight and reducing sizes 18 in. and larger shall be reinforced to compensate for the inherent weakness in the casting design.

^bSize of all fittings listed indicates nominal inside diameter of port.

^cTees, side outlet tees, and crosses, 18 in. and smaller, reducing on the outlet, have the same dimensions center to face, and face to face as straight size fittings corresponding to the size of the larger opening. Sizes 18 in. and larger, reducing on the outlet, are made in two lengths, depending on the size of the outlet.

^dTees and crosses, reducing on run only, carry same dimensions center to face and face to face as a straight size fitting of the larger opening.

^eReducing elbows and side outlet elbows carry same dimensions center to face as straight size elbows corresponding to the size of the larger opening.

^fSpecial degree elbows, ranging from 1 to 45 deg, inclusive, have the same center to face dimensions as given for 45-deg elbows and those over 45 deg and up to 90 deg, inclusive, shall have the same center to face dimensions as given for 90-deg elbows. The angle designation of an elbow is its deflection from straight line flow and is the angle between the flange faces.

^gSide outlet elbows shall have all openings on intersecting center-lines.

^hBody thickness at no point shall be less than 87 1/2 per cent of the dimensions given in the table.