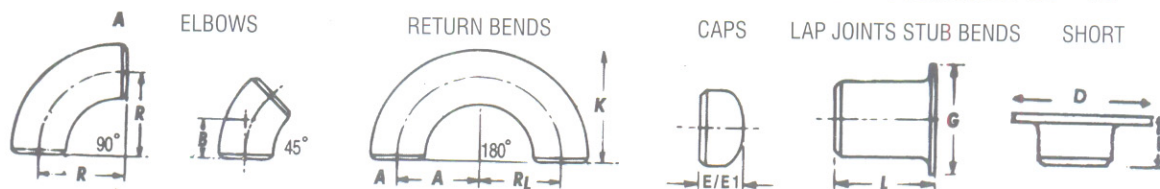




DIMENSIONS OF BUTT WELDING FITTINGS TO ANSI B 16.9/MSS SP 43

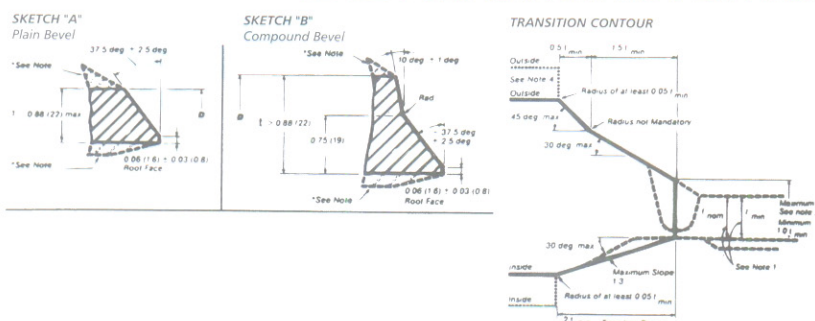


NOM BORE	PIPE OD	RADIUS 'R'		B	K	E/E1	G	LENGTH 'L'		D	h
		1 D	1.5 D					MSS SP 43	ANSI B 16.9		
1/2	21.3	12.7	38.1	15.9	48	25.4	34.9	50.8	76.2	45	8
3/4	26.7	19.05	38.1	19.0	51	25.4	42.8	50.8	76.2	54	8
1	33.4	25.4	38.1	22.2	56	38.1	50.8	50.8	101.6	64	10
1 1/4	42.1	31.75	47.6	25.0	70	38.1	63.5	50.8	101.6	74	12
1 1/2	48.3	38.1	57.15	28.6	83	38.1	73.0	50.8	101.6	84	12
2	60.3	50.8	76.2	35.0	106	44*	92.0	63.5	152.4	102	16
2 1/2	73.0	63.5	95.25	44.0	132	51*	106	63.5	152.4	122	16
3	88.9	76.2	114.3	50.8	159	64*	127.0	63.5	152.4	138	18
3 1/2	101.6	88.9	133.35	57.2	184	76*	139.7	76.2	152.4	148	18
4	114.3	101.3	152.4	63.5	210	76*	157.2	76.2	152.4	158	20
5	141.3	127.0	190.5	79.4	262	89*	185.7	76.2	208.2	188	20
6	168.3	152.4	228.6	95.3	313	102*	218	88.9	203.2	212	25
8	219.1	203.2	304.8	127.0	414	127*	270.0	101.6	203.2	270	30
10	373.1	254.0	381.0	158.7	518	152*	324.0	127.0	254.0	325	30
12	323.9	304.8	457.2	190.5	619	178*	381.0	152.4	254.0	380	35
14	355.6	355.6	533.4	222.2	711	191*	412.8	152.4	305.0	415	40
16	406.4	406.4	609.6	254.0		203*	470.0	152.4	305.0	470	40

* All dimensions are in mm

NOM BORE	PIPE OD	RADIUS 'R'		B	K	E/E1	G	LENGTH 'L'		D	h
		1 D	1.5 D					MSS SP 43	ANSI B 16.9		
18	457.2	457.2	685.8	285.7	914	229*	533.4	152.4	305.0	535	40
20	508.0	508.0	762.0	317.6	1016	254*	584.2	152.4	305.0	585	40
22	558.8	558.8	838.2	343.0	1118	254*	641.4	152.4	305.0	642	40
24	609.6	609.6	914.4	381.0	1219	305*	692.2	152.4	305.0	693	40
26	660.0	660.0	991.0	405.0	---	267.0	---	---	---	---	---
28	711.0	711.0	1067.0	438.0	---	267.0	---	---	---	---	---
30	762.0	762.0	1143.0	470.0	---	267.0	---	---	---	---	---
32	813.0	813.0	1219.0	502.0	---	267.0	---	---	---	---	---
34	864.0	864.0	1295.0	533.0	---	267.0	---	---	---	---	---
36	914.0	914.0	1372.0	565.0	---	267.0	---	---	---	---	---
38	965.0	965.0	1448.0	600.0	---	305.0	---	---	---	---	---
40	1016.0	1016.0	1524.0	632.0	---	305.0	---	---	---	---	---
42	1067.0	1067.0	1600.0	660.0	---	305.0	---	---	---	---	---
44	1118.0	1118.0	1676.0	695.0	---	343.0	---	---	---	---	---
46	1168.0	1168.0	1753.0	727.0	---	343.0	---	---	---	---	---
48	1219.0	1219.0	1829.0	759.0	---	343.0	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---

EDGE PREPARATION AS PER ANSI B16.9 - B 16.25



- The value 1 min is whichever of the following is applicable :
(a) the min ordered wall thickness of the pipe;
(b) 0.875 times the nominal wall thickness of pipe ordered to a pipe schedule wall thickness which has a tolerance of 12.5%
 - The maximum thickness at the end of the component is :
(a) the greater of 1 min, +0.15 in, (4mm) or 1.15 t min, when ordered on a minium wall basis
(b) the greater of t min, +0.15 in, (4 mm) or 1.10 t nom. When ordered on a nominal wall basis
 - Weld bevel is shown for illustrations only.
 - Where transitions using maximum slope do not intersect outside surface, as shown by phantom outline, maximum slopes shown or alternate radii shown in phantom outlines shall be used.
 - Dimension in parenthesis are in millimeters. Other are in inches.
- Note : 2. The shape of cap shall be ellipsoidal
- Note : 2. Of specification ANSI b 16.9 for cap E1 & E2 to be consider
Length E1 applies for thickness greater than that given in column "Limiting Wall Thickness" for NPS 24 (DIN 600) & smaller, For NPS 26 (DN 650) and larger, length E1 shall be by agreement between manufacturer and purchaser

* E1 Height

Normal Wall Thickness	End Preparation
Less than x*	Cut square or slightly chamfer, at mrfs option
X* to 0.88 incl (22)	Plain bevel as in sketch "A" above
More than 0.88 (22)	Compound bevel as in sketch "B" above
X* = 0.19 (5) for Carbon Steel or Ferritic Alloy Steel and 0.12 (4) for Austenitic Alloy Steel	