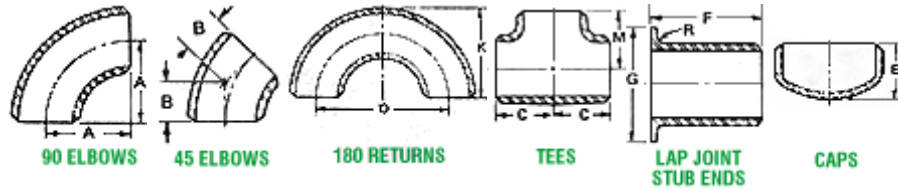


Dimensions for Straight Fittings



Nom. Pipe Size	90° Elbows			45° Elbows		180° Returns				Tees		Lap Joint Stub Ends			Caps		
	Long Rad.	Short Rad.	3 Rad.	LR	3 Rad	Long Rad.	Short Rad.	O	K	O	K	C	M	F	G	R	E
	A	A	A	B	B	O	K	O	K	C	M	F	G	R	E		
½	1.50			0.62		3.00	1.88			1.00	1.00	3.00	1.38	0.12	1.00		
¾	1.50			0.75		3.00	2.00			1.12	1.12	3.00	1.69	0.12	1.00		
1	1.50	1.00		0.88		3.00	2.19	2.00	1.62	1.50	1.50	4.00	2.00	0.12	1.50		
1¼	1.88	1.25		1.00		3.75	2.75	2.50	2.06	1.88	1.88	4.00	2.50	0.19	1.50		
1½	2.25	1.50		1.12		4.50	3.25	3.00	2.44	2.25	2.25	4.00	2.88	0.25	1.50		
2	3.00	2.00	6.00	1.38	2.50	6.00	4.19	4.00	3.19	2.50	2.50	6.00	3.62	0.31	1.50		
2½	3.75	2.50	7.50	1.75	3.12	7.50	5.19	5.00	3.94	3.00	3.00	6.00	4.12	0.31	1.50		
3	4.50	3.00	9.00	2.00	3.75	9.00	6.25	6.00	4.75	3.38	3.38	6.00	5.00	0.38	2.00		
3½	5.25	3.50	10.50	2.25	-	10.50	7.25	7.00	5.50	3.75	3.75	6.00	5.50	0.38	2.50		
4	6.00	4.00	12.00	2.50	5.00	12.00	8.25	8.00	6.25	4.12	4.12	6.00	6.19	0.44	2.50		
5	7.50	5.00	15.00	3.12	-	15.00	10.31	10.00	7.75	4.88	4.88	8.00	7.31	0.44	3.00		
6	9.00	6.00	18.00	3.75	7.44	18.00	12.31	12.00	9.31	5.62	5.62	8.00	8.50	0.50	3.50		
8	12.00	8.00	24.00	5.00	9.94	24.00	16.31	16.00	12.31	7.00	7.00	8.00	10.62	0.50	4.00		
10	15.00	10.00	30.00	6.25	12.44	30.00	20.38	20.00	15.38	8.50	8.50	10.00	12.75	0.50	5.00		
12	18.00	12.00	36.00	7.50	14.88	36.00	24.38	24.00	18.38	10.00	10.00	10.00	15.00	0.50	6.00		
14	21.00	14.00	42.00	8.75	17.38	42.00	28.00	28.00	21.00	11.00	11.00	12.00	16.25	0.50	6.50		
16	24.00	16.00	48.00	10.00	19.88	48.00	32.00	32.00	24.00	12.00	12.00	12.00	18.50	0.50	7.00		
18	27.00	18.00	54.00	11.25	22.38	54.00	36.00	36.00	27.00	13.50	13.50	12.00	21.00	0.5	8.00		
20	30.00	20.00	60.00	12.50	24.88	60.00	40.00	40.00	30.00	15.00	15.00	12.00	23.00	0.50	9.00		
22	33.00	22.00	66.00	13.50	27.31	66.00	44.00	44.00	33.00	16.50	16.50	12.00	25.25	0.50	10.00		
24	36.00	24.00	72.00	15.00	29.81	72.00	48.00	48.00	36.00	17.00	17.00	12.00	27.25	0.50	10.50		
26	39.00		78.00	16.00	32.31					19.50	19.50				10.50		
28	42.00		84.00	17.25	34.75					20.50	20.50				10.50		
30	45.00		90.00	18.50	37.25					22.00	22.00				10.50		
32	48.00		-	19.75	-					23.50	23.50				10.50		
34	51.00		102.00	21.00	42.25					25.00	25.00				10.50		
36	54.00		108.00	22.25	44.69					26.50	26.50				10.50		
38	57.00		114.00	23.62	47.25					28.00	28.00				12.00		
40	60.00		120.00	24.88	49.75					29.50	29.50				12.00		
42	63.00		126.00	26.00	52.18					30.00	28.00				12.00		
44	66.00		132.00	27.38	54.69					32.00	30.00				13.50		
46	69.00		138.00	28.62	57.19					33.50	31.50				13.50		
48	72.00		144.00	29.88	59.69					35.00	33.00				13.50		

All dimensions given in inches. For common diameters and wall thicknesses.
 Dimensions in accordance with ANSI B16.9 and B16.28.
 Other sizes, schedules and wall thicknesses also available.