

Reducing Tees and Cross- ANSI B16.9



Nominal Pipes Size	Run OD		Outlet OD		Run		Outlet		Weight 40S/STD Lbs/piece
	OD at Bevel		OD at Bevel		Dimension		Dimension		
	in	mm	in	mm	in	mm	in	mm	
1/2 to 3/8	0.84	21.00	0.68	17.00	1.00	25.00	1.00	25	-
1/2 to 1/4	0.84	21.00	0.54	14.00	1.00	25.00	1.00	25	-
3/4 to 1/2	1.05	27.00	0.84	21.00	1.12	29.00	1.12	29	0.26
3/4 to 3/8	1.05	27.00	0.68	17.00	1.12	29.00	1.12	29	-
1 to 3/4	1.32	33.00	1.05	27.00	1.50	38.00	1.50	38	0.51
1 to 1/2	1.32	33.00	0.84	21.00	1.50	38.00	1.50	38	0.48
1 1/4 to 1	1.66	42.00	1.32	33.00	1.88	48.00	1.88	48	0.86
1 1/4 to 3/4	1.66	42.00	1.05	27.00	1.88	48.00	1.88	48	0.81
1 1/4 to 1/2	1.66	42.00	0.84	21.00	1.88	48.00	1.88	48	-
1 1/2 to 1 1/4	1.90	48.00	1.66	42.00	2.25	57.00	2.25	57	1.25
1 1/2 to 1	1.90	48.00	1.32	33.00	2.25	57.00	2.25	57	1.21
1 1/2 to 3/4	1.90	48.00	1.05	27.00	2.25	57.00	2.25	57	1.14
1 1/2 to 1/2	1.90	48.00	0.84	21.00	2.25	57.00	2.25	57	1.12
2 to 1 1/2	2.38	60.00	1.90	48.00	2.50	64.00	2.38	60	1.83
2 to 1 1/4	2.38	60.00	1.66	42.00	2.50	64.00	2.25	57	1.76
2 to 1	2.38	60.00	1.32	33.00	2.50	64.00	2.00	51	1.63
2 to 3/4	2.38	60.00	1.05	27.00	2.50	64.00	1.75	44	-
2 1/2 to 2	2.88	73.00	2.38	60.00	3.00	76.00	2.75	70	3.37
2 1/2 to 1 1/2	2.88	73.00	1.90	48.00	3.00	76.00	2.62	67	3.28
2 1/2 to 1 1/4	2.88	73.00	1.66	42.00	3.00	76.00	2.50	64	3.04
2 1/2 to 1	2.88	73.00	1.32	33.00	3.00	76.00	2.25	57	-
3 to 2 1/2	3.50	89.00	2.88	73.00	3.38	86.00	3.25	83	5.04
3 to 2	3.50	89.00	2.38	60.00	3.38	86.00	3.00	76	4.75
3 to 1 1/2	3.50	89.00	1.90	48.00	3.38	86.00	2.88	73	4.51
3 to 1 1/4	3.50	89.00	1.66	42.00	3.38	86.00	2.75	70	-
3 1/2 to 3	4.00	102.00	3.50	89.00	3.75	95.00	3.62	92	-
3 1/2 to 2 1/2	4.00	102.00	2.88	73.00	3.75	95.00	3.50	89	-
3 1/2 to 2	4.00	102.00	2.38	60.00	3.75	95.00	3.25	83	-
3 1/2 to 1 1/2	4.00	102.00	1.90	48.00	3.75	95.00	3.12	79	-
4 to 3 1/2	4.50	114.00	4.00	102.00	4.12	105.00	4.00	102	-
4 to 3	4.50	114.00	3.50	89.00	4.12	105.00	3.88	98	8.43
4 to 2 1/2	4.50	114.00	2.88	73.00	4.12	105.00	3.75	95	8.14
4 to 2	4.50	114.00	2.38	60.00	4.12	105.00	3.50	89	7.74
4 to 1 1/2	4.50	114.00	1.90	48.00	4.12	105.00	3.38	86	7.5
5 to 4	5.56	141.00	4.50	114.00	4.88	124.00	4.62	117	13.51
5 to 3 1/2	5.56	141.00	4.00	102.00	4.88	124.00	4.50	114	-

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Nominal Pipes Size	Run OD		Outlet OD		Run		Outlet		Weight 40S/STD Lbs/piece
	OD at Bevel		OD at Bevel		Dimension		Dimension		
	in	mm	in	mm	in	mm	in	mm	
5 to 3	5.56	141.00	3.50	89.00	4.88	124.00	4.38	111.00	12.87
5 to 2 1/2	5.56	141.00	2.88	73.00	4.88	124.00	4.25	108.00	12.56
5 to 2	5.56	141.00	2.38	60.00	4.88	124.00	4.12	105.00	-
6 to 5	6.62	168.00	5.56	141.00	5.62	143.00	5.38	137.00	20.26
6 to 4	6.62	168.00	4.50	114	5.62	143.00	5.12	130.00	19.38
6 to 3 1/2	6.62	168.00	4.00	102.00	5.62	143.00	5.00	127.00	-
6 to 3	6.62	168.00	3.50	89.00	5.62	143.00	4.88	124.00	18.74
6 to 2 1/2	6.62	168.00	2.88	73.00	5.62	143.00	4.75	121.00	-
8 to 6	8.62	219.00	6.62	168.00	7.00	178.00	6.62	168.00	36.96
8 to 5	8.62	219.00	5.56	141.00	7.00	178.00	6.38	162.00	35.86
8 to 4	8.62	219.00	4.50	114	7.00	178.00	6.12	156.00	34.98
8 to 3 1/2	8.62	219.00	4.00	102.00	7.00	178.00	6.00	152.00	-
10 to 8	10.75	273.00	8.62	219.00	8.50	216.00	8.00	203.00	63.58
10 to 6	10.75	273.00	6.62	168.00	8.50	216.00	7.62	194.00	60.72
10 to 5	10.75	273.00	5.56	141.00	8.50	216.00	7.50	191.00	59.62
10 to 4	10.75	273.00	4.50	114	8.50	216.00	7.25	184.00	-
12 to 10	12.75	324.00	10.75	273.00	10.00	254.00	9.50	241.00	93.06
12 to 8	12.75	324.00	8.62	219.00	10.00	254.00	9.00	229.00	88.66
12 to 6	12.75	324.00	6.62	168.00	10.00	254.00	8.62	219.00	86.02
12 to 5	12.75	324.00	5.56	140.00	10.00	254.00	8.50	216.00	-
14 to 12	14.00	356.00	12.75	324.00	11.00	279.00	10.62	270.00	114.84
14 to 10	14.00	356.00	10.75	273.00	11.00	279.00	10.12	257.00	110.44
14 to 8	14.00	356.00	8.63	219.00	11.00	279.00	9.75	248.00	106.48
14 to 6	14.00	356.00	6.62	168.00	11.00	279.00	9.38	238.00	-
16 to 14	16.00	406.00	14.00	356.00	12.00	305.00	12.00	305.00	143.22
16 to 12	16.00	406.00	12.75	324.00	12.00	305.00	11.62	295.00	139.92
16 to 10	16.00	406.00	10.75	273.00	12.00	305.00	11.12	283.00	135.52
16 to 8	16.00	406.00	8.62	219.00	12.00	305.00	10.75	273.00	-
16 to 6	16.00	406.00	6.62	168.00	12.00	305.00	10.38	264.00	-
18 to 16	18.00	457.00	16.00	406.00	13.50	343.00	13.00	330.00	179.30
18 to 14	18.00	457.00	14.00	356.00	13.50	343.00	13.00	330.00	176.66
18 to 12	18.00	457.00	12.75	324.00	13.50	343.00	12.62	321.00	173.58
18 to 10	18.00	457.00	10.75	273.00	13.50	343.00	12.12	308.00	-
18 to 8	18.00	457.00	8.62	219.00	13.50	343.00	11.75	298.00	-
20 to 18	20.00	508.00	18.00	457.00	15.00	381.00	14.50	368.00	222.20
20 to 16	20.00	508.00	16.00	406.00	15.00	381.00	14.00	356.00	216.92
20 to 14	20.00	508.00	14.00	356.00	15.00	381.00	14.00	356.00	214.28
20 to 12	20.00	508.00	12.75	321.00	15.00	381.00	13.62	346.00	-
20 to 10	20.00	508.00	10.75	273.00	15.00	381.00	13.12	333.00	-
20 to 8	20.00	508.00	8.62	219.00	15.00	381.00	12.75	324.00	-
22 to 20	22.00	559.00	20.00	508.00	16.50	419.00	16.00	406.00	270.60
22 to 18	22.00	559.00	18.00	457.00	16.50	419.00	15.50	394.00	264.00
22 to 16	22.00	559.00	16.00	406.00	16.50	419.00	15.00	381.00	118
22 to 14	22.00	559.00	14.00	356.00	16.50	419.00	15.00	381.00	-
22 to 12	22.00	559.00	12.75	324.00	16.50	419.00	14.62	371.00	-
22 to 10	22.00	559.00	10.75	273.00	16.50	419.00	14.12	359.00	-
24 to 22	24.00	610.00	22.00	559.00	17.00	432.00	17.00	432.00	303.60
24 to 20	24.00	610.00	20.00	508.00	17.00	432.00	17.00	432.00	301.40

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Nominal Pipes Size	Run OD		Outlet OD		Run		Outlet		Weight 40S/STD Lbs/piece
	OD at Bevel		OD at Bevel		Dimension		Dimension		
	in	mm	in	mm	in	mm	in	mm	
24 to 18	24.00	610.00	18.00	457.00	17.00	432.00	16.50	419.00	294.80
24 to 16	24.00	610.00	16.00	406.00	17.00	432.00	16.00	406.00	-
24 to 14	24.00	610.00	14.00	356.00	17.00	432.00	16.00	406.00	-
24 to 12	24.00	610.00	12.75	324.00	17.00	432.00	15.62	397.00	-
24 to 10	24.00	610.00	10.75	273.00	17.00	432.00	15.12	384.00	-
26 to 24	26.00	660.00	24.00	610.00	19.50	495.00	19.00	483.00	-
26 to 22	26.00	660.00	22.00	559.00	19.50	495.00	18.50	470.00	-
26 to 20	26.00	660.00	20.00	508.00	19.50	495.00	18.00	457.00	-
26 to 18	26.00	660.00	18.00	457.00	19.50	495.00	17.50	444.00	-
28 to 26	28.00	711.00	26.00	660.00	20.50	521.00	20.50	521.00	-
28 to 24	28.00	711.00	24.00	610.00	20.50	521.00	20.00	508.00	-
28 to 22	28.00	711.00	22.00	559.00	20.50	521.00	19.50	495.00	-
28 to 20	28.00	711.00	20.00	508.00	20.50	521.00	19.00	483.00	-
28 to 18	28.00	711.00	18.00	457.00	20.50	521.00	18.50	470.00	-
30 to 28	30.00	762.00	28.00	711.00	22.00	559.00	21.50	546.00	-
30 to 26	30.00	762.00	26.00	660.00	22.00	559.00	21.50	546.00	-
30 to 24	30.00	762.00	24.00	610.00	22.00	559.00	21.00	533.00	-
30 to 22	30.00	762.00	22.00	559.00	22.00	559.00	20.50	521.00	-
30 to 20	30.00	762.00	20.00	508.00	22.00	559.00	20.00	508.00	-
32 to 26	32.00	813.00	30.00	762.00	23.50	597.00	23.00	584.00	-
32 to 28	32.00	813.00	28.00	711.00	23.50	597.00	22.50	572.00	-
32 to 26	32.00	813.00	26.00	660.00	23.50	597.00	22.50	572.00	-
32 to 24	32.00	813.00	24.00	610.00	23.50	597.00	22.00	559.00	-
34 to 32	34.00	864.00	32.00	813.00	25.00	635.00	24.50	622.00	-
34 to 30	34.00	864.00	30.00	762.00	25.00	635.00	24.00	610.00	-
34 to 28	34.00	864.00	28.00	711.00	25.00	635.00	23.50	597.00	-
34 to 26	34.00	864.00	26.00	660.00	25.00	635.00	23.50	597.00	-
34 to 24	34.00	864.00	24.00	610.00	25.00	635.00	23.00	584.00	-
36 to 34	36.00	914.00	34.00	864.00	26.50	673.00	26.00	660.00	-
36 to 32	36.00	914.00	32.00	813.00	26.50	673.00	25.50	648.00	-
36 to 30	36.00	914.00	30.00	762.00	26.50	673.00	25.00	635.00	-
36 to 28	36.00	914.00	28.00	711.00	26.50	673.00	24.50	622.00	-
36 to 26	36.00	914.00	26.00	660.00	26.50	673.00	24.50	622.00	-
36 to 24	36.00	914.00	24.00	610.00	26.50	673.00	24.00	610.00	-
38 to 36	38.00	965.00	36.00	914.00	28.00	711.00	28.00	711.00	-
38 to 34	38.00	965.00	34.00	864.00	28.00	711.00	27.50	698.00	-
38 to 32	38.00	965.00	32.00	813.00	28.00	711.00	27.00	686.00	-
38 to 30	38.00	965.00	30.00	762.00	28.00	711.00	26.50	673.00	-
38 to 28	38.00	965.00	28.00	711.00	28.00	711.00	25.50	648.00	-
38 to 26	38.00	965.00	26.00	660.00	28.00	711.00	25.50	648.00	-
40 to 38	40.00	1016.00	38.00	965.00	29.50	749.00	29.50	749.00	-
40 to 36	40.00	1016.00	36.00	914.00	29.50	749.00	29.00	737.00	-
40 to 34	40.00	1016.00	34.00	864.00	29.50	749.00	28.50	724.00	-
40 to 32	40.00	1016.00	32.00	813.00	29.50	749.00	28.00	711.00	-
40 to 30	40.00	1016.00	30.00	762.00	29.50	749.00	27.50	698.00	-

Reducing Tees and Cross- ANSI B16.9

Nominal Pipes Size	Run OD		Outlet OD		Run		Outlet		Weight 40S/STD Lbs/piece
	OD at Bevel		OD at Bevel		Dimension		Dimension		
	in	mm	in	mm	in	mm	in	mm	
42 to 40	42.00	1067.00	40.00	1016.00	30.00	762.00	28.00	711.00	-
42 to 38	42.00	1067.00	38.00	968.00	30.00	762.00	28.00	711.00	-
42 to 36	42.00	1067.00	36.00	914.00	30.00	762.00	28.00	711.00	-
42 to 34	42.00	1067.00	34.00	864.00	30.00	762.00	28.00	711.00	-
42 to 32	42.00	1067.00	32.00	813.00	30.00	762.00	28.00	711.00	-
42 to 30	42.00	1067.00	30.00	762.00	30.00	762.00	28.00	711.00	-
44 to 42	44.00	1118.00	42.00	1067.00	32.00	813.00	30.00	762.00	-
44 to 40	44.00	1118.00	40.00	1016.00	32.00	813.00	29.50	749.00	-
44 to 38	44.00	1118.00	38.00	965.00	32.00	813.00	29.00	737.00	-
44 to 36	44.00	1118.00	36.00	914.00	32.00	813.00	28.50	724.00	-
46 to 44	46.00	1168.00	44.00	1118.00	33.50	851.00	31.50	800.00	-
46 to 42	46.00	1168.00	42.00	1067.00	33.50	851.00	31.00	787.00	-
46 to 40	46.00	1168.00	40.00	1016.00	33.50	851.00	30.50	775.00	-
46 to 38	46.00	1168.00	38.00	965.00	33.50	851.00	30.00	762.00	-
48 to 46	48.00	1219.00	46.00	1168.00	35.00	889.00	33.00	838.00	-
48 to 44	48.00	1219.00	44.00	1118	35.00	889.00	33.00	838.00	-
48 to 42	48.00	1219.00	42.00	1067.00	35.00	889.00	32.00	813.00	-
48 to 40	48.00	1219.00	40.00	1016.00	35.00	889.00	32.00	813.00	-

Note:

For run size NPS 14 and larger, outlet dimension B is recommended but not required.
 Dimensions quoted in mm are 'Nominal' values from B16.9 (i.e. rounded equivalents of the inch dimensions). Refer to B16.9 for additional 'Max' and 'Min' metric dimensions.
 The run and outlet NPS sizes are as shown in the left hand column. The corresponding size designation for a reducing tee is, for example, for the tee shown as 4 to 3 : 4 x 4 x 3, and for the tee shown as 44 to 36 : 44 x 44 x 36.
 Weights are approximate and based on manufacturers' data (where available) for Schedule 40S/Standard fittings.

FITTINGS THROUGH 100" PIPE SIZE ARE AVAILABLE

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