



**Table 9 Dimensions of Reducing Outlet Tees and Reducing Outlet Crosses**

Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End		Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End	
	Run	Outlet	Run, C	Outlet, M [Note (1)]		Run	Outlet	Run, C	Outlet, M [Note (1)]
1/2 x 1/2 x 3/8	21.3	17.3	25	25	4 x 4 x 3 1/2	114.3	101.6	105	102
1/2 x 1/2 x 1/4	21.3	13.7	25	25	4 x 4 x 3	114.3	88.9	105	98
3/4 x 3/4 x 1/2	26.7	21.3	29	29	4 x 4 x 2 1/2	114.3	73.0	105	95
3/4 x 3/4 x 3/8	26.7	17.3	29	29	4 x 4 x 2	114.3	60.3	105	89
1 x 1 x 3/4	33.4	26.7	38	38	4 x 4 x 1 1/2	114.3	48.3	105	86
1 x 1 x 1/2	33.4	21.3	38	38					
					5 x 5 x 4	141.3	114.3	124	117
1 1/4 x 1 1/4 x 1	42.2	33.4	48	48	5 x 5 x 3 1/2	141.3	101.6	124	114
1 1/4 x 1 1/4 x 3/4	42.2	26.7	48	48	5 x 5 x 3	141.3	88.9	124	111
1 1/4 x 1 1/4 x 1/2	42.2	21.3	48	48	5 x 5 x 2 1/2	141.3	73.0	124	108
					5 x 5 x 2	141.3	60.3	124	105
1 1/2 x 1 1/2 x 1 1/4	48.3	42.2	57	57					
1 1/2 x 1 1/2 x 1	48.3	33.4	57	57	6 x 6 x 5	168.3	141.3	143	137
1 1/2 x 1 1/2 x 3/4	48.3	26.7	57	57	6 x 6 x 4	168.3	114.3	143	130
1 1/2 x 1 1/2 x 1/2	48.3	21.3	57	57	6 x 6 x 3 1/2	168.3	101.6	143	127
					6 x 6 x 3	168.3	88.9	143	124
					6 x 6 x 2 1/2	168.3	73.0	143	121
2 x 2 x 1 1/2	60.3	48.3	64	60					
2 x 2 x 1 1/4	60.3	42.2	64	57	8 x 8 x 6	219.1	168.3	178	168
2 x 2 x 1	60.3	33.4	64	51	8 x 8 x 5	219.1	141.3	178	162
2 x 2 x 3/4	60.3	26.7	64	44	8 x 8 x 4	219.1	114.3	178	156
					8 x 8 x 3 1/2	219.1	101.6	178	152
2 1/2 x 2 1/2 x 2	73.0	60.3	76	70					
2 1/2 x 2 1/2 x 1 1/2	73.0	48.3	76	67	10 x 10 x 8	273.0	219.1	216	203
2 1/2 x 2 1/2 x 1 1/4	73.0	42.2	76	64	10 x 10 x 6	273.0	168.3	216	194
2 1/2 x 2 1/2 x 1	73.0	33.4	76	57	10 x 10 x 5	273.0	141.3	216	191
					10 x 10 x 4	273.0	114.3	216	184
3 x 3 x 2 1/2	88.9	73.0	86	83					
3 x 3 x 2	88.9	60.3	86	76	12 x 12 x 10	323.8	273.0	254	241
3 x 3 x 1 1/2	88.9	48.3	86	73	12 x 12 x 8	323.8	219.1	254	229
3 x 3 x 1 1/4	88.9	42.2	86	70	12 x 12 x 6	323.8	168.3	254	219
					12 x 12 x 5	323.8	141.3	254	216
3 1/2 x 3 1/2 x 3	101.6	88.9	95	92					
3 1/2 x 3 1/2 x 2 1/2	101.6	73.0	95	89	14 x 14 x 12	355.6	323.8	279	270
3 1/2 x 3 1/2 x 2	101.6	60.3	95	83	14 x 14 x 10	355.6	273.0	279	257
3 1/2 x 3 1/2 x 1 1/2	101.6	48.3	95	79	14 x 14 x 8	355.6	219.1	279	248
					14 x 14 x 6	355.6	168.3	279	238

**Table 9 Dimensions of Reducing Outlet Tees and Reducing Outlet Crosses (Cont'd)**

Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End		Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End	
	Run	Outlet	Run, C	Outlet, M [Note (1)]		Run	Outlet	Run, C	Outlet, M [Note (1)]
16 × 16 × 14	406.4	355.6	305	305	28 × 28 × 26	711	660	521	521
16 × 16 × 12	406.4	323.8	305	295	28 × 28 × 24	711	610	521	508
16 × 16 × 10	406.4	273.0	305	283	28 × 28 × 22	711	559	521	495
16 × 16 × 8	406.4	219.1	305	273	28 × 28 × 20	711	508	521	483
16 × 16 × 6	406.4	168.3	305	264					
					28 × 28 × 18	711	457	521	470
18 × 18 × 16	457	406.4	343	330	28 × 28 × 16	711	406.4	521	457
18 × 18 × 14	457	355.6	343	330	28 × 28 × 14	711	355.6	521	457
18 × 18 × 12	457	323.8	343	321	28 × 28 × 12	711	323.8	521	448
18 × 18 × 10	457	273.0	343	308					
18 × 18 × 8	457	219.1	343	298	30 × 30 × 28	762	711	559	546
					30 × 30 × 26	762	660	559	546
20 × 20 × 18	508	457	381	368	30 × 30 × 24	762	610	559	533
20 × 20 × 16	508	406.4	381	356	30 × 30 × 22	762	559	559	521
20 × 20 × 14	508	355.6	381	356	30 × 30 × 20	762	508	559	508
20 × 20 × 12	508	323.8	381	346					
20 × 20 × 10	508	273.0	381	333	30 × 30 × 18	762	457	559	495
20 × 20 × 8	508	219.1	381	324	30 × 30 × 16	762	406.4	559	483
					30 × 30 × 14	762	355.6	559	483
22 × 22 × 20	559	508	419	406	30 × 30 × 12	762	323.8	559	473
22 × 22 × 18	559	457	419	394	30 × 30 × 10	762	273.0	559	460
22 × 22 × 16	559	406.4	419	381					
22 × 22 × 14	559	355.6	419	381	32 × 32 × 30	813	762	597	584
22 × 22 × 12	559	323.8	419	371	32 × 32 × 28	813	711	597	572
22 × 22 × 10	559	273.0	419	359	32 × 32 × 26	813	660	597	572
					32 × 32 × 24	813	610	597	559
24 × 24 × 22	610	559	432	432					
24 × 24 × 20	610	508	432	432	32 × 32 × 22	813	559	597	546
24 × 24 × 18	610	457	432	419	32 × 32 × 20	813	508	597	533
					32 × 32 × 18	813	457	597	521
24 × 24 × 16	610	406.4	432	406	32 × 32 × 16	813	406.4	597	508
24 × 24 × 14	610	355.6	432	406	32 × 32 × 14	813	355.6	597	508
24 × 24 × 12	610	323.8	432	397					
24 × 24 × 10	610	273.0	432	384	34 × 34 × 32	864	813	635	622
					34 × 34 × 30	864	762	635	610
26 × 26 × 24	660	610	495	483	34 × 34 × 28	864	711	635	597
26 × 26 × 22	660	559	495	470	34 × 34 × 26	864	660	635	597
26 × 26 × 20	660	508	495	457					
					34 × 34 × 24	864	610	635	584
26 × 26 × 18	660	457	495	444	34 × 34 × 22	864	559	635	572
26 × 26 × 16	660	406.4	495	432	34 × 34 × 20	864	508	635	559
26 × 26 × 14	660	355.6	495	432	34 × 34 × 18	864	457	635	546
26 × 26 × 12	660	323.8	495	422	34 × 34 × 16	864	406.4	635	533

Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End		Nominal Pipe Size (NPS)	Outside Diameter at Bevel		Center-to-End	
	Run	Outlet	Run, C	Outlet, M [Note (1)]		Run	Outlet	Run, C	Outlet, M [Note (1)]
36 x 36 x 34	914	864	673	660	42 x 42 x 24	1 067	610	762	660
36 x 36 x 32	914	813	673	648	42 x 42 x 22	1 067	559	762	660
36 x 36 x 30	914	762	673	635	42 x 42 x 20	1 067	508	762	660
36 x 36 x 28	914	711	673	622	42 x 42 x 18	1 067	457	762	648
36 x 36 x 26	914	660	673	622	42 x 42 x 16	1 067	406.4	762	635
36 x 36 x 24	914	610	673	610	44 x 44 x 42	1 118	1 067	813	762
36 x 36 x 22	914	559	673	597	44 x 44 x 40	1 118	1 016	813	749
36 x 36 x 20	914	508	673	584	44 x 44 x 38	1 118	965	813	737
36 x 36 x 18	914	457	673	572	44 x 44 x 36	1 118	914	813	724
36 x 36 x 16	914	406.4	673	559	44 x 44 x 34	1 118	864	813	724
					44 x 44 x 32	1 118	813	813	711
38 x 38 x 36	965	914	711	711	44 x 44 x 30	1 118	762	813	711
38 x 38 x 34	965	864	711	698	44 x 44 x 28	1 118	711	813	698
38 x 38 x 32	965	813	711	686	44 x 44 x 26	1 118	660	813	698
38 x 38 x 30	965	762	711	673	44 x 44 x 24	1 118	610	813	698
38 x 38 x 28	965	711	711	648	44 x 44 x 22	1 118	559	813	686
					44 x 44 x 20	1 118	508	813	686
38 x 38 x 26	965	660	711	648	46 x 46 x 44	1 168	1 118	851	800
38 x 38 x 24	965	610	711	635	46 x 46 x 42	1 168	1 067	851	787
38 x 38 x 22	965	559	711	622	46 x 46 x 40	1 168	1 016	851	775
38 x 38 x 20	965	508	711	610	46 x 46 x 38	1 168	965	851	762
38 x 38 x 18	965	457	711	597	46 x 46 x 36	1 168	914	851	762
					46 x 46 x 34	1 168	864	851	749
40 x 40 x 38	1 016	965	749	749	46 x 46 x 32	1 168	813	851	749
40 x 40 x 36	1 016	914	749	737	46 x 46 x 30	1 168	762	851	737
40 x 40 x 34	1 016	864	749	724	46 x 46 x 28	1 168	711	851	737
40 x 40 x 32	1 016	813	749	711	46 x 46 x 26	1 168	660	851	737
40 x 40 x 30	1 016	762	749	698	46 x 46 x 24	1 168	610	851	724
					46 x 46 x 22	1 168	559	851	724
40 x 40 x 28	1 016	711	749	673	48 x 48 x 46	1 219	1 168	889	838
40 x 40 x 26	1 016	660	749	673	48 x 48 x 44	1 219	1 118	889	838
40 x 40 x 24	1 016	610	749	660	48 x 48 x 42	1 219	1 067	889	813
40 x 40 x 22	1 016	559	749	648	48 x 48 x 40	1 219	1 016	889	813
40 x 40 x 20	1 016	508	749	635	48 x 48 x 38	1 219	965	889	813
40 x 40 x 18	1 016	457	749	622	48 x 48 x 36	1 219	914	889	787
					48 x 48 x 34	1 219	864	889	787
42 x 42 x 40	1 067	1 016	762	711	48 x 48 x 32	1 219	813	889	787
42 x 42 x 38	1 067	968	762	711	48 x 48 x 30	1 219	762	889	762
42 x 42 x 36	1 067	914	762	711	48 x 48 x 28	1 219	711	889	762
42 x 42 x 34	1 067	864	762	711	48 x 48 x 26	1 219	660	889	762
					48 x 48 x 24	1 219	610	889	737
42 x 42 x 32	1 067	813	762	711	48 x 48 x 22	1 219	559	889	737
42 x 42 x 30	1 067	762	762	711					
42 x 42 x 28	1 067	711	762	698					
42 x 42 x 26	1 067	660	762	698					

GENERAL NOTE: All dimensions are in millimeters.

NOTE:

(1) Outlet dimension M for run sizes NPS 14 and larger is recommended but not required.

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