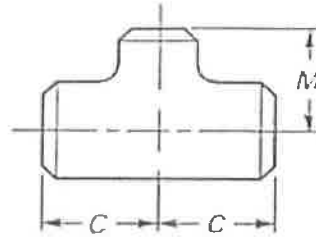


Tee

ASME/ASTM SA/A403-WP304/304L, WP316/316L

ASME B16.9

Reducing Tee



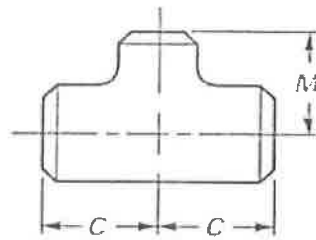
Size	Outside Diameter at Bevel (mm)		Center-to-End (mm)		Approximate Weight(kg)				
	Run	Outlet	Run (C)	Outlet (M)	10S	STD	40S/40	XS	80S/80
3/4"x 1/2"	26.70	21.30	29.00	29.00	0.12	0.12	0.12	0.20	0.20
1"x 3/4"	33.40	26.70	38.00	38.00	0.08	0.23	0.23	0.40	0.40
1"x 1/2"	33.40	21.30	38.00	38.00	0.08	0.10	0.10	0.39	0.39
1 1/4" x 1"	42.20	33.40	48.00	48.00	0.11	0.39	0.39	0.71	0.71
1 1/4" x 3/4"	42.20	26.70	48.00	48.00	0.11	0.37	0.37	0.67	0.67
1 1/4" x 1/2"	42.20	21.30	48.00	48.00	0.09	0.31	0.31	0.65	0.65
1 1/2" x 1 1/4"	48.30	42.20	57.00	57.00	0.43	0.57	0.57	1.10	1.10
1 1/2" x 1"	48.30	33.40	57.00	57.00	0.25	0.55	0.55	1.06	1.06
1 1/2" x 3/4"	48.30	26.70	57.00	57.00	0.25	0.52	0.52	1.00	1.00
1 1/2" x 1/2"	48.30	21.30	57.00	57.00	0.24	0.51	0.51	0.95	0.95
2" x 1 1/2"	60.30	48.30	64.00	60.00	0.59	0.83	0.83	1.63	1.63
2" x 1 1/4"	60.30	42.20	64.00	57.00	0.58	0.80	0.80	1.52	1.52
2" x 1"	60.30	33.40	64.00	51.00	0.45	0.74	0.74	1.46	1.46
2" x 3/4"	60.30	26.70	64.00	44.00	0.44	0.52	0.52	1.38	1.38
2 1/2" x 2"	73.00	60.30	76.00	70.00	0.73	1.53	1.53	2.81	2.81
2 1/2" x 1 1/2"	73.00	48.30	76.00	67.00	0.72	1.49	1.49	2.70	2.70
2 1/2" x 1 1/4"	73.00	42.20	76.00	64.00	0.61	1.38	1.38	2.64	2.64
2 1/2" x 1"	73.00	33.40	76.00	57.00	0.60	1.21	1.21	2.57	2.57
3" x 2 1/2"	88.90	73.00	86.00	83.00	1.24	2.29	2.29	4.19	4.19
3" x 2"	88.90	60.30	86.00	76.00	1.21	2.16	2.16	3.89	3.89
3" x 1-1/2"	88.90	48.30	86.00	73.00	1.19	2.05	2.05	3.78	3.78
3" x 1-1/4"	88.90	42.20	86.00	70.00	0.76	1.85	1.85	3.73	3.73
3 1/2" x 3"	101.60	88.90	95.00	92.00	1.52	2.85	2.85	5.66	5.66
3 1/2" x 2 1/2"	101.60	73.00	95.00	89.00	1.50	2.81	2.81	5.47	5.47
3 1/2" x 2"	101.60	60.30	95.00	83.00	1.48	2.78	2.78	5.18	5.18
3 1/2" x 1 1/2"	101.60	48.30	95.00	79.00	1.27	1.98	1.98	5.07	5.07
4" x 3 1/2"	114.30	101.60	105.00	102.00	2.35	4.07	4.07	7.26	7.26
4" x 3"	114.30	88.90	105.00	98.00	2.29	3.83	3.83	7.03	7.03
4" x 2 1/2"	114.30	73.00	105.00	95.00	2.26	3.70	3.70	6.73	6.73
4" x 2"	114.30	60.30	105.00	89.00	1.59	3.52	3.52	6.62	6.62
4" x 1 1/2"	114.30	48.30	105.00	86.00	1.56	3.41	3.41	6.51	6.51
5" x 4"	141.30	114.30	124.00	117.00	3.04	6.14	6.14	11.80	11.80
5" x 3 1/2"	141.30	101.60	124.00	114.00	2.98	6.05	6.05	11.40	11.40
5" x 3"	141.30	88.90	124.00	111.00	2.94	5.85	5.85	11.20	11.20
5" x 2 1/2"	141.30	73.00	124.00	108.00	2.90	5.71	5.71	10.90	10.90
5" x 2"	141.30	60.30	124.00	105.00	2.40	5.53	5.53	10.70	10.70
6" x 5"	168.30	141.30	143.00	137.00	5.37	9.21	9.21	18.50	18.50
6" x 4"	168.30	114.30	143.00	130.00	5.24	8.81	8.81	17.70	17.70
6" x 3 1/2"	168.30	101.60	143.00	127.00	5.18	8.63	8.63	17.40	17.40
6" x 3"	168.30	88.90	143.00	124.00	5.12	8.52	8.52	17.20	17.20
6" x 2 1/2"	168.30	73.00	143.00	121.00	3.11	8.32	8.32	16.90	16.90
8" x 6"	219.10	168.30	178.00	168.00	7.10	16.80	16.80	30.20	30.20
8" x 5"	219.10	141.30	178.00	162.00	6.94	16.30	16.30	29.30	29.30
8" x 4"	219.10	114.30	178.00	156.00	6.86	15.90	15.90	28.50	28.50
8" x 3 1/2"	219.10	101.60	178.00	152.00	6.78	15.64	15.64	27.90	27.90

Tee

ASME/ASTM SA/A403-WP304/304L, WP316/316L

ASME B16.9

Reducing Tee



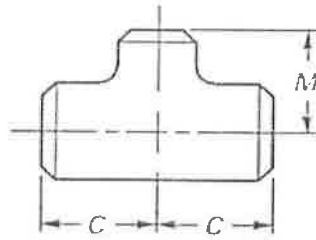
Size	Outside Diameter at Bevel (mm)		Center-to-End (mm)		Approximate Weight(kg)				
	Run	Outlet	Run (C)	Outlet (M)	10S	STD	40S/40	XS	80S/80
10" x 8"	273.10	219.10	216.00	203.00	13.46	28.90	28.90	58.00	71.00
10" x 6"	273.10	168.30	216.00	194.00	13.30	27.60	27.60	52.00	54.00
10" x 5"	273.10	141.30	216.00	191.00	13.15	27.10	27.10	52.00	53.00
10" x 4"	273.10	114.30	216.00	184.00	7.27	26.87	26.87	52.00	53.00
12" x 10"	323.90	273.10	254.00	241.00	23.02	63.00	67.00	85.00	103.00
12" x 8"	323.90	219.10	254.00	229.00	22.75	63.00	64.00	68.00	82.00
12" x 6"	323.90	168.30	254.00	219.00	14.08	63.00	64.00	68.00	82.00
12" x 5"	323.90	141.30	254.00	216.00	13.77	63.00	64.00	68.00	82.00
14" X 12"	355.60	323.90	279.00	270.00	33.94	110.00	114.00	127.00	143.00
14" X 10"	355.60	273.10	279.00	257.00	33.54	107.00	109.00	127.00	141.00
14" X 8"	355.60	219.10	279.00	248.00	24.09	107.00	109.00	122.00	122.00
14" X 6"	355.60	168.30	279.00	238.00	23.55	107.00	109.00	122.00	122.00
16" X 14"	406.40	355.60	305.00	305.00	42.71	119.00	167.00	167.00	200.00
16" X 12"	406.40	323.90	305.00	295.00	41.74	119.00	167.00	167.00	181.00
16" X 10"	406.40	273.10	305.00	283.00	41.25	116.00	160.00	160.00	163.00
16" X 8"	406.40	219.10	305.00	273.00	35.52	116.00	160.00	160.00	163.00
16" X 6"	406.40	168.30	305.00	264.00	34.73	116.00	160.00	160.00	163.00
18" X 16"	457.20	406.40	343.00	330.00	51.71	135.00	238.00	190.00	279.00
18" X 14"	457.20	355.60	343.00	330.00	50.80	135.00	194.00	190.00	258.00
18" X 12"	457.20	323.90	343.00	321.00	49.90	135.00	194.00	164.00	234.00
18" X 10"	457.20	273.10	343.00	308.00	49.44	129.00	194.00	164.00	225.00
18" X 8"	457.20	219.10	343.00	298.00	43.68	129.00	194.00	154.00	205.00
20"X 18"	508.00	457.20	381.00	368.00	68.95	168.00	265.00	218.00	410.00
20"X 16"	508.00	406.40	381.00	356.00	67.13	168.00	230.00	218.00	335.00
20"X 14"	508.00	355.60	381.00	356.00	65.77	163.00	224.00	214.00	324.00
20"X 12"	508.00	323.90	381.00	346.00	64.86	163.00	224.00	214.00	324.00
20"X 10"	508.00	273.10	381.00	333.00	64.41	163.00	220.00	214.00	293.00
20"X 8"	508.00	219.10	381.00	324.00	53.07	163.00	220.00	214.00	228.00
22"X 20"	558.80	508.00	419.00	406.00	92.10	220.00	-	280.00	513.00
22"X 18"	558.80	457.20	419.00	394.00	86.57	209.00	-	260.00	415.00
22"X 16"	558.80	406.40	419.00	381.00	78.77	209.00	-	260.00	415.00
22"X 14"	558.80	355.60	419.00	381.00	70.10	172.00	-	245.00	374.00
22"X 12"	558.80	323.90	419.00	371.00	67.53	172.00	-	245.00	374.00
22"X 10"	558.80	273.10	419.00	359.00	63.50	172.00	-	245.00	374.00
24"X 22"	609.60	558.80	432.00	432.00	95.34	227.00	390.00	350.00	675.00
24"X 20"	609.60	508.00	432.00	432.00	92.99	227.00	390.00	350.00	606.00
24"X 18"	609.60	457.20	432.00	419.00	90.72	227.00	390.00	320.00	533.00
24"X 16"	609.60	406.40	432.00	406.00	88.90	222.00	349.50	320.00	490.00
24"X 14"	609.60	355.60	432.00	406.00	87.54	222.00	309.00	300.00	490.00
24"X 12"	609.60	323.90	432.00	397.00	86.64	218.00	308.00	300.00	452.00
24"X 10"	609.60	273.10	432.00	384.00	85.73	204.00	308.00	300.00	452.00
26"X 24"	660.40	609.60	495.00	483.00	-	280.00	-	350.00	-
26"X 22"	660.40	558.80	495.00	470.00	-	272.00	-	340.00	-
26"X 20"	660.40	508.00	495.00	457.00	-	264.00	-	330.00	-
26"X 18"	660.40	457.20	495.00	444.00	-	253.00	-	323.00	-

Tee

ASME/ASTM SA/A403-WP304/304L, WP316/316L

ASME B16.9

Reducing Tee



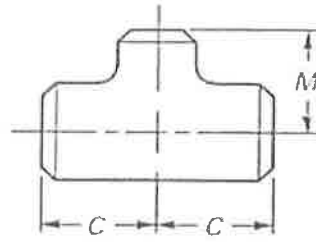
Size	Outside Diameter at Bevel (mm)		Center-to-End (mm)		Approximate Weight(kg)				
	Run	Outlet	Run (C)	Outlet (M)	10S	STD	40S/40	XS	80S/80
26"X 16"	660.40	406.40	495.00	432.00	-	247.00	-	309.00	-
26"X 14"	660.40	355.60	495.00	432.00	-	239.00	-	300.00	-
26"X 12"	660.40	323.90	495.00	422.00	-	231.00	-	293.00	-
28"X 26"	711.20	660.40	521.00	521.00	-	325.00	-	410.00	-
28"X 24"	711.20	609.60	521.00	508.00	-	320.00	-	400.00	-
28"X 22"	711.20	558.80	521.00	495.00	-	311.00	-	390.00	-
28"X 20"	711.20	508.00	521.00	483.00	-	302.00	-	380.00	-
28"X 18"	711.20	457.20	521.00	470.00	-	292.00	-	369.00	-
28"X 16"	711.20	406.40	521.00	457.00	-	283.00	-	357.00	-
28"X 14"	711.20	355.60	521.00	457.00	-	274.00	-	346.00	-
28"X 12"	711.20	323.90	521.00	448.00	-	260.75	-	346.00	-
30"X 28"	762.00	711.20	559.00	546.00	215.00	380.00	-	475.00	-
30"X 26"	762.00	660.40	559.00	546.00	211.00	372.00	-	463.00	-
30"X 24"	762.00	609.60	559.00	533.00	208.00	361.00	-	452.00	-
30"X 22"	762.00	558.80	559.00	521.00	205.00	351.00	-	441.00	-
30"X 20"	762.00	508.00	559.00	508.00	202.00	340.00	-	429.00	-
30"X 18"	762.00	457.20	559.00	495.00	199.00	330.00	-	417.00	-
30"X 16"	762.00	406.40	559.00	483.00	196.00	321.00	-	405.00	-
30"X 14"	762.00	355.60	559.00	483.00	193.00	312.00	-	395.00	-
30"X 12"	762.00	323.90	559.00	473.00	190.00	304.00	-	385.00	-
30"X 10"	762.00	273.10	559.00	460.00	187.00	296.00	-	377.00	-
32"X 30"	812.80	762.00	597.00	584.00	-	506.00	-	628.00	-
32"X 28"	812.80	711.20	597.00	572.00	-	493.00	-	616.00	-
32"X 26"	812.80	660.40	597.00	572.00	-	482.00	-	605.00	-
32"X 24"	812.80	609.60	597.00	559.00	-	472.00	-	591.00	-
32"X 22"	812.80	558.80	597.00	546.00	-	460.00	-	577.00	-
32"X 20"	812.80	508.00	597.00	533.00	-	448.00	-	562.00	-
32"X 18"	812.80	457.20	597.00	521.00	-	436.00	-	547.00	-
32"X 16"	812.80	406.40	597.00	508.00	-	425.00	-	535.00	-
32"X 14"	812.80	355.60	597.00	508.00	-	415.00	-	523.00	-
34"X 32"	863.60	812.80	635.00	622.00	-	506.00	-	628.00	-
34"X 30"	863.60	762.00	635.00	610.00	-	493.00	-	616.00	-
34"X 28"	863.60	711.20	635.00	597.00	-	482.00	-	605.00	-
34"X 26"	863.60	660.40	635.00	597.00	-	472.00	-	591.00	-
34"X 24"	863.60	609.60	635.00	584.00	-	460.00	-	577.00	-
34"X 22"	863.60	558.80	635.00	572.00	-	448.00	-	562.00	-
34"X 20"	863.60	508.00	635.00	559.00	-	436.00	-	547.00	-
34"X 18"	863.60	457.20	635.00	546.00	-	425.00	-	535.00	-
34"X 16"	863.60	406.40	635.00	533.00	-	415.00	-	523.00	-
36"X 34"	914.40	863.60	673.00	660.00	-	574.00	-	715.00	-
36"X 32"	914.40	812.80	673.00	648.00	-	561.00	-	700.00	-
36"X 30"	914.40	762.00	673.00	635.00	-	548.00	-	658.00	-
36"X 28"	914.40	711.20	673.00	622.00	-	537.00	-	670.00	-
36"X 26"	914.40	660.40	673.00	622.00	-	526.00	-	654.00	-
36"X 24"	914.40	609.60	673.00	610.00	-	513.00	-	643.00	-

Tee

ASME/ASTM SA/A403-WP304/304L, WP316/316L

ASME B16.9

Reducing Tee



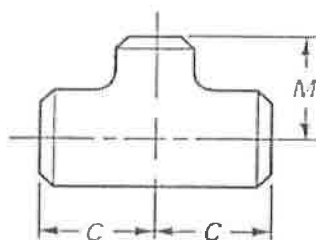
Size	Outside Diameter at Bevel (mm)		Center-to-End (mm)		Approximate Weight(kg)				
	Run	Outlet	Run (C)	Outlet (M)	10S	STD	40S/40	XS	80S/80
36"X 22"	914.40	558.80	673.00	597.00	-	502.00	-	622.00	-
36"X 20"	914.40	508.00	673.00	584.00	-	493.00	-	621.00	-
36"X 18"	914.40	457.20	673.00	572.00	-	483.00	-	611.00	-
36"X 16"	914.40	406.40	673.00	559.00	-	472.00	-	602.00	-
38"X 36"	965.20	914.40	711.00	711.00	-	600.00	-	700.00	-
38"X 34"	965.20	863.60	711.00	698.00	-	600.00	-	700.00	-
38"X 32"	965.20	812.80	711.00	686.00	-	600.00	-	700.00	-
38"X 30"	965.20	762.00	711.00	673.00	-	600.00	-	700.00	-
38"X 28"	965.20	711.20	711.00	648.00	-	600.00	-	700.00	-
38"X 26"	965.20	660.40	711.00	648.00	-	600.00	-	700.00	-
38"X 24"	965.20	609.60	711.00	635.00	-	600.00	-	700.00	-
38"X 22"	965.20	558.80	711.00	622.00	-	600.00	-	700.00	-
38"X 20"	965.20	508.00	711.00	610.00	-	600.00	-	700.00	-
38"X 18"	965.20	457.20	711.00	597.00	-	600.00	-	700.00	-
40"X 38"	1016.00	965.20	749.00	749.00	-	664.00	-	875.00	-
40"X 36"	1016.00	914.40	749.00	737.00	-	659.00	-	840.00	-
40"X 34"	1016.00	863.60	749.00	724.00	-	659.00	-	840.00	-
40"X 32"	1016.00	812.80	749.00	711.00	-	643.00	-	802.00	-
40"X 30"	1016.00	762.00	749.00	698.00	-	627.00	-	763.00	-
40"X 28"	1016.00	711.20	749.00	673.00	-	611.00	-	740.00	-
40"X 26"	1016.00	660.40	749.00	673.00	-	595.00	-	723.00	-
40"X 24"	1016.00	609.60	749.00	660.00	-	580.00	-	700.00	-
40"X 22"	1016.00	558.80	749.00	648.00	-	565.00	-	682.00	-
40"X 20"	1016.00	508.00	749.00	635.00	-	552.00	-	665.00	-
40"X 18"	1016.00	457.20	749.00	622.00	-	540.00	-	650.00	-
42"X 40"	1066.80	1016.00	762.00	711.00	-	920.00	-	1200.00	-
42"X 38"	1066.80	965.20	762.00	711.00	-	870.00	-	1100.00	-
42"X 36"	1066.80	914.40	762.00	711.00	-	818.00	-	1045.00	-
42"X 34"	1066.80	863.60	762.00	711.00	-	772.00	-	999.00	-
42"X 32"	1066.80	812.80	762.00	711.00	-	772.00	-	999.00	-
42"X 30"	1066.80	762.00	762.00	711.00	-	772.00	-	999.00	-
42"X 28"	1066.80	711.20	762.00	698.00	-	750.00	-	955.00	-
42"X 26"	1066.80	660.40	762.00	698.00	-	750.00	-	955.00	-
42"X 24"	1066.80	609.60	762.00	660.00	-	728.00	-	915.00	-
42"X 22"	1066.80	558.80	762.00	660.00	-	728.00	-	915.00	-
42"X 20"	1066.80	508.00	762.00	660.00	-	708.00	-	875.00	-
42"X 18"	1066.80	457.20	762.00	648.00	-	708.00	-	875.00	-
42"X 16"	1066.80	406.40	762.00	635.00	-	700.00	-	847.00	-
44"X 42"	1117.80	1066.80	813.00	762.00	-	750.00	-	1100.00	-
44"X 40"	1117.80	1016.00	813.00	749.00	-	750.00	-	1100.00	-
44"X 38"	1117.80	965.20	813.00	737.00	-	750.00	-	1100.00	-
44"X 36"	1117.80	914.40	813.00	724.00	-	750.00	-	1100.00	-
44"X 34"	1117.80	863.60	813.00	724.00	-	750.00	-	1100.00	-
44"X 32"	1117.80	812.80	813.00	711.00	-	750.00	-	1100.00	-
44"X 30"	1117.80	762.00	813.00	711.00	-	750.00	-	1100.00	-

Tee

ASME/ASTM SA/A403-WP304/304L, WP316/316L

ASME B16.9

Reducing Tee



Size	Outside Diameter at Bevel (mm)		Center-to-End (mm)		Approximate Weight(kg)				
	Run	Outlet	Run (C)	Outlet (M)	10S	STD	40S/40	XS	80S/80
44"X 28"	1117.80	711.20	813.00	698.00	-	750.00	-	1100.00	-
44"X 26"	1117.80	660.40	813.00	698.00	-	750.00	-	1100.00	-
44"X 24"	1117.80	609.60	813.00	698.00	-	750.00	-	1100.00	-
44"X 22"	1117.80	558.80	813.00	686.00	-	750.00	-	1100.00	-
44"X 20"	1117.80	508.00	813.00	686.00	-	750.00	-	1100.00	-
46"X 44"	1168.40	1117.80	851.00	800.00	-	800.00	-	1200.00	-
46"X 42"	1168.40	1066.80	851.00	787.00	-	800.00	-	1200.00	-
46"X 40"	1168.40	1016.00	851.00	775.00	-	800.00	-	1200.00	-
46"X 38"	1168.40	965.20	851.00	762.00	-	800.00	-	1200.00	-
46"X 36"	1168.40	914.40	851.00	762.00	-	800.00	-	1200.00	-
46"X 34"	1168.40	863.60	851.00	749.00	-	800.00	-	1200.00	-
46"X 32"	1168.40	812.80	851.00	749.00	-	800.00	-	1200.00	-
46"X 30"	1168.40	762.00	851.00	737.00	-	800.00	-	1200.00	-
46"X 28"	1168.40	711.20	851.00	737.00	-	800.00	-	1200.00	-
46"X 26"	1168.40	660.40	851.00	737.00	-	800.00	-	1200.00	-
46"X 24"	1168.40	609.60	851.00	724.00	-	800.00	-	1200.00	-
46"X 22"	1168.40	558.80	851.00	724.00	-	800.00	-	1200.00	-
48"X 46"	1219.20	1168.40	889.00	838.00	-	1090.00	-	1307.00	-
48"X 44"	1219.20	1117.80	889.00	838.00	-	1090.00	-	1307.00	-
48"X 42"	1219.20	1066.80	889.00	813.00	-	1067.00	-	1272.00	-
48"X 40"	1219.20	1016.00	889.00	813.00	-	1067.00	-	1272.00	-
48"X 38"	1219.20	965.20	889.00	813.00	-	1044.00	-	1238.00	-
48"X 36"	1219.20	914.40	889.00	787.00	-	1022.00	-	1203.00	-
48"X 34"	1219.20	863.60	889.00	787.00	-	1022.00	-	1203.00	-
48"X 32"	1219.20	812.80	889.00	787.00	-	1000.00	-	1170.00	-
48"X 30"	1219.20	762.00	889.00	762.00	-	1000.00	-	1170.00	-
48"X 28"	1219.20	711.20	889.00	762.00	-	980.00	-	1140.00	-
48"X 26"	1219.20	660.40	889.00	762.00	-	980.00	-	1140.00	-
48"X 24"	1219.20	609.60	889.00	737.00	-	960.00	-	1115.00	-
48"X 22"	1219.20	558.80	889.00	737.00	-	960.00	-	1115.00	-
General Notes: 1) All dimensions are in mm 2) Dimension tolerance are as per ASME B16.9									