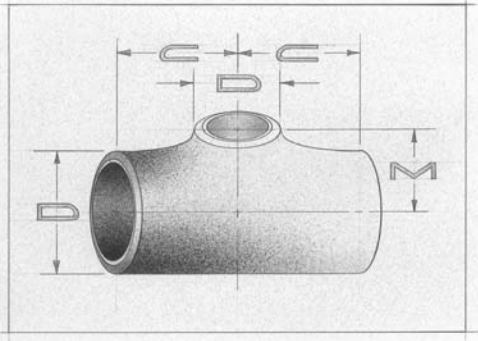


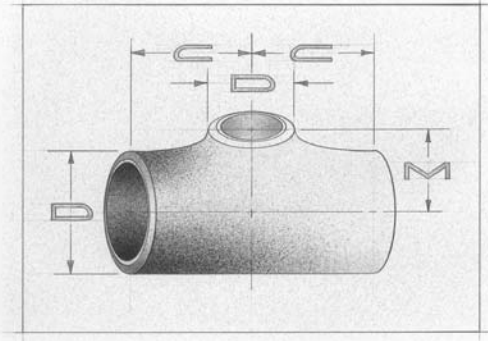
Reducing TEES



Key											
Reducing Sizes		Nominal Pipe Size		"D" Outside Diameter at Bevel				Center-to-End			
				Run		Outlet		"C" Run		"M" Outlet	
inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
½ x ½ x ¼	12.70 x 12.70 x 6.35	½	12.70	0.84	21.34	0.54	13.72	1.00	25.40	1.00	25.40
¾ x ¾ x ½	19.05 x 19.05 x 12.70	¾	19.05	1.05	26.67	0.84	21.34	1.12	28.45	1.12	28.45
1 x 1 x ¾ 1 x 1 x ½	25.40 x 25.40 x 19.05 25.40 x 25.40 x 12.70	1	25.40	1.32 1.32	33.53 33.53	1.05 0.84	26.67 21.34	1.50 1.50	38.10 38.10	1.50 1.50	38.10 38.10
1¼ x 1¼ x 1 1¼ x 1¼ x ¾ 1¼ x 1¼ x ½	31.75 x 31.75 x 25.40 31.75 x 31.75 x 19.05 31.75 x 31.75 x 12.70	1¼	31.75	1.66 1.66 1.66	42.17 42.17 42.17	1.32 1.05 0.84	33.53 26.67 21.34	1.88 1.88 1.88	47.75 47.75 47.75	1.88 1.88 1.88	47.75 47.75 47.75
1½ x 1½ x 1¼ 1½ x 1½ x 1 1½ x 1½ x ¾ 1½ x 1½ x ½	38.10 x 38.10 x 31.75 38.10 x 38.10 x 25.40 38.10 x 38.10 x 19.05 38.10 x 38.10 x 12.70	1½	38.10	1.90 1.90 1.90 1.90	48.26 48.26 48.26 48.26	1.66 1.32 1.05 0.84	42.17 33.53 26.67 21.34	2.25 2.25 2.25 2.25	57.15 57.15 57.15 57.15	2.25 2.25 2.25 2.25	57.15 57.15 57.15 57.15
2 x 2 x 1½ 2 x 2 x 1¼ 2 x 2 x 1 2 x 2 x ¾	50.80 x 50.80 x 38.10 50.80 x 50.80 x 31.75 50.80 x 50.80 x 25.40 50.80 x 50.80 x 19.05	2	50.80	2.38 2.38 2.38 2.38	60.45 60.45 60.45 60.45	1.90 1.66 1.32 1.05	48.26 42.17 33.53 26.67	2.50 2.50 2.50 2.50	63.50 63.50 63.50 63.50	2.38 2.25 2.00 1.75	60.45 57.15 50.80 44.45
2½ x 2½ x 2 2½ x 2½ x 1½ 2½ x 2½ x 1¼ 2½ x 2½ x 1	63.50 x 63.50 x 50.80 63.50 x 63.50 x 38.10 63.50 x 63.50 x 31.75 63.50 x 63.50 x 25.40	2½	63.50	2.88 2.88 2.88 2.88	73.15 73.15 73.15 73.15	2.38 1.90 1.66 1.32	60.45 48.26 42.17 33.53	3.00 3.00 3.00 3.00	76.20 76.20 76.20 76.20	2.75 2.62 2.50 2.25	69.85 66.55 63.50 57.15
3 x 3 x 2½ 3 x 3 x 2 3 x 3 x 1½ 3 x 3 x 1¼	76.20 x 76.20 x 63.50 76.20 x 76.20 x 50.80 76.20 x 76.20 x 38.10 76.20 x 76.20 x 31.75	3	76.20	3.50 3.50 3.50 3.50	88.90 88.90 88.90 88.90	2.88 2.38 1.90 1.66	73.15 60.45 48.26 42.17	3.38 3.38 3.38 3.38	85.85 85.85 85.85 85.85	3.25 3.00 2.88 2.75	82.55 76.20 73.15 69.85
3½ x 3½ x 3 3½ x 3½ x 2½ 3½ x 3½ x 2 3½ x 3½ x 1½	88.90 x 88.90 x 76.20 88.90 x 88.90 x 63.50 88.90 x 88.90 x 50.80 88.90 x 88.90 x 38.10	3½	88.90	4.00 4.00 4.00 4.00	101.60 101.60 101.60 101.60	3.50 2.88 2.38 1.90	88.90 73.15 60.45 48.26	3.75 3.75 3.75 3.75	95.25 95.25 95.25 95.25	3.62 3.50 3.25 3.12	91.95 88.90 82.55 79.25
4 x 4 x 3½ 4 x 4 x 3 4 x 4 x 2½ 4 x 4 x 2 4 x 4 x 1½	101.60 x 101.60 x 88.90 101.60 x 101.60 x 76.20 101.60 x 101.60 x 63.50 101.60 x 101.60 x 50.80 101.60 x 101.60 x 38.10	4	101.60	4.50 4.50 4.50 4.50 4.50	114.30 114.30 114.30 114.30 114.30	4.00 3.50 2.88 2.38 1.90	101.60 88.90 73.15 60.45 48.26	4.12 4.12 4.12 4.12 4.12	104.65 104.65 104.65 104.65 104.65	4.00 3.88 3.75 3.50 3.38	101.60 98.55 95.25 88.90 85.85
5 x 5 x 4 5 x 5 x 3½ 5 x 5 x 3 5 x 5 x 2½ 5 x 5 x 2	127.00 x 127.00 x 101.60 127.00 x 127.00 x 88.90 127.00 x 127.00 x 76.20 127.00 x 127.00 x 63.50 127.00 x 127.00 x 50.80	5	127.00	5.56 5.56 5.56 5.56 5.56	141.22 141.22 141.22 141.22 141.22	4.50 4.00 3.50 2.88 2.38	114.30 101.60 88.90 73.15 60.45	4.88 4.88 4.88 4.88 4.88	123.95 123.95 123.95 123.95 123.95	4.62 4.50 4.38 4.25 4.12	117.35 114.30 111.25 107.95 104.65
6 x 6 x 5 6 x 6 x 4 6 x 6 x 3½ 6 x 6 x 3 6 x 6 x 2½ 6 x 6 x 2	152.40 x 152.40 x 127.00 152.40 x 152.40 x 101.60 152.40 x 152.40 x 88.90 152.40 x 152.40 x 76.20 152.40 x 152.40 x 63.50 152.40 x 152.40 x 50.80	6	152.40	6.62 6.62 6.62 6.62 6.62 6.62	168.15 168.15 168.15 168.15 168.15 168.15	5.56 4.50 4.00 3.50 2.88 2.38	141.22 114.30 101.60 88.90 73.15 60.45	5.62 5.62 5.62 5.62 5.62 5.62	142.75 142.75 142.75 142.75 142.75 142.75	5.38 5.12 5.00 4.88 4.75 ***	136.65 130.05 127.00 123.95 120.65 ***

**Call factory for Nominal Wall Thickness and Inside Diameter measurements on ¼"
***Call factory for dimensions.

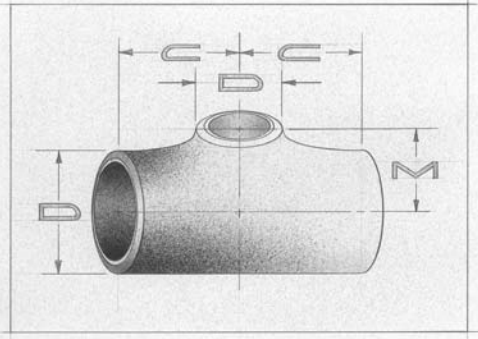
Reducing TEES



Key		Nominal Wall Thickness: inches mm Inside Diameter: inches mm Weight: Call factory for weights														
		Reducing Sizes		Schedule												
inches	mm	L.W.G.	10	20	30	40	STD WT	60	XS	80	100	120	140	160	XXS	
½ x ½ x ¾	12.70 x 12.70 x 6.35	-	-	-	-	.109	.109	-	.147	.147	-	-	-	.188	.294	
		-	-	-	-	2.769	2.769	-	3.734	3.734	-	-	-	4.775	7.468	
		-	-	-	-	.622	.622	-	.546	.546	-	-	-	.464	.252	
		-	-	-	-	15.799	15.799	-	13.868	13.868	-	-	-	11.786	6.401	
¾ x ¾ x 1½	19.05 x 19.05 x 12.70	-	-	-	-	.113	.113	-	.154	.154	-	-	-	.219	.308	
		-	-	-	-	2.870	2.870	-	3.912	3.912	-	-	-	5.563	7.823	
		-	-	-	-	.824	.824	-	.742	.742	-	-	-	.612	.434	
		-	-	-	-	20.930	20.930	-	18.847	18.847	-	-	-	15.545	11.024	
1 x 1 x ¾ 1 x 1 x ½	25.40 x 25.40 x 19.05 25.40 x 25.40 x 12.70	-	-	-	-	.133	.133	-	.179	.179	-	-	-	.250	.358	
		-	-	-	-	3.378	3.378	-	4.547	4.547	-	-	-	6.350	9.093	
		-	-	-	-	1.049	1.049	-	.957	.957	-	-	-	.815	.599	
		-	-	-	-	26.645	26.645	-	24.308	24.308	-	-	-	20.701	15.215	
1¼ x 1¼ x 1 1¼ x 1¼ x ¾ 1¼ x 1¼ x ½	31.75 x 31.75 x 25.40 31.75 x 31.75 x 19.05 31.75 x 31.75 x 12.70	-	-	-	-	.140	.140	-	.191	.191	-	-	-	.250	.382	
		-	-	-	-	3.556	3.556	-	4.851	4.851	-	-	-	6.350	9.703	
		-	-	-	-	1.380	1.380	-	1.278	1.278	-	-	-	1.160	.896	
		-	-	-	-	35.052	35.052	-	32.461	32.461	-	-	-	29.464	22.758	
1½ x 1½ x 1¼ 1½ x 1½ x 1 1½ x 1½ x ¾ 1½ x 1½ x ½	38.10 x 38.10 x 31.75 38.10 x 38.10 x 25.40 38.10 x 38.10 x 19.05 38.10 x 38.10 x 12.70	-	-	-	-	.145	.145	-	.200	.200	-	-	-	.281	.400	
		-	-	-	-	3.683	3.683	-	5.080	5.080	-	-	-	7.137	10.160	
		-	-	-	-	1.610	1.610	-	1.500	1.500	-	-	-	1.338	1.100	
		-	-	-	-	40.894	40.894	-	38.100	38.100	-	-	-	33.985	27.940	
2 x 2 x 1½ 2 x 2 x 1¼ 2 x 2 x 1 2 x 2 x ¾	50.80 x 50.80 x 38.10 50.80 x 50.80 x 31.75 50.80 x 50.80 x 25.40 50.80 x 50.80 x 19.05	-	-	-	-	.154	.154	-	.218	.218	-	-	-	.344	.436	
		-	-	-	-	3.912	3.912	-	5.537	5.537	-	-	-	8.738	11.074	
		-	-	-	-	2.067	2.067	-	1.939	1.939	-	-	-	1.687	1.503	
		-	-	-	-	52.502	52.502	-	49.251	49.251	-	-	-	42.850	38.176	
2½ x 2½ x 2 2½ x 2½ x 1½ 2½ x 2½ x 1¼ 2½ x 2½ x 1	63.50 x 63.50 x 50.80 63.50 x 63.50 x 38.10 63.50 x 63.50 x 31.75 63.50 x 63.50 x 25.40	-	-	-	-	.203	.203	-	.276	.276	-	-	-	.375	.552	
		-	-	-	-	5.156	5.156	-	7.010	7.010	-	-	-	9.525	14.021	
		-	-	-	-	2.469	2.469	-	2.323	2.323	-	-	-	2.125	1.771	
		-	-	-	-	62.713	62.713	-	59.004	59.004	-	-	-	53.975	44.983	
3 x 3 x 2½ 3 x 3 x 2 3 x 3 x 1½ 3 x 3 x 1¼	76.20 x 76.20 x 63.50 76.20 x 76.20 x 50.80 76.20 x 76.20 x 38.10 76.20 x 76.20 x 31.75	-	-	-	-	.216	.216	-	.300	.300	-	-	-	.438	.600	
		-	-	-	-	5.486	5.486	-	7.620	7.620	-	-	-	11.125	15.240	
		-	-	-	-	3.068	3.068	-	2.900	2.900	-	-	-	2.624	2.300	
		-	-	-	-	77.927	77.927	-	73.660	73.660	-	-	-	66.650	58.420	
3½ x 3½ x 3 3½ x 3½ x 2½ 3½ x 3½ x 2 3½ x 3½ x 1½	88.90 x 88.90 x 76.20 88.90 x 88.90 x 63.50 88.90 x 88.90 x 50.80 88.90 x 88.90 x 38.10	-	-	-	-	.226	.226	-	.318	.318	-	-	-	-	.636*	
		-	-	-	-	5.740	5.740	-	8.077	8.077	-	-	-	-	16.154	
		-	-	-	-	3.548	3.548	-	3.364	3.364	-	-	-	-	2.728	
		-	-	-	-	90.119	90.119	-	85.446	85.446	-	-	-	-	69.291	
4 x 4 x 3½ 4 x 4 x 3 4 x 4 x 2½ 4 x 4 x 2 4 x 4 x 1½	101.60 x 101.60 x 88.90 101.60 x 101.60 x 76.20 101.60 x 101.60 x 63.50 101.60 x 101.60 x 50.80 101.60 x 101.60 x 38.10	.188	-	-	-	.237	.237	-	.337	.337	-	.438	-	.531	.674	
		4.775	-	-	-	6.020	6.020	-	8.560	8.560	-	11.125	-	13.487	17.120	
		4.124	-	-	-	4.026	4.026	-	3.826	3.826	-	3.624	-	3.438	3.152	
		104.749	-	-	-	102.260	102.260	-	97.180	97.180	-	92.050	-	87.325	80.061	
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 x 5 x 4 5 x 5 x 3½ 5 x 5 x 3 5 x 5 x 2½ 5 x 5 x 2	127.00 x 127.00 x 101.60 127.00 x 127.00 x 88.90 127.00 x 127.00 x 76.20 127.00 x 127.00 x 63.50 127.00 x 127.00 x 50.80	-	-	-	-	.258	.258	-	.375	.375	-	.500	-	.625	.750	
		-	-	-	-	6.553	6.553	-	9.525	9.525	-	12.700	-	15.875	19.050	
		-	-	-	-	5.047	5.047	-	4.813	4.813	-	4.563	-	4.313	4.063	
		-	-	-	-	128.194	128.194	-	122.250	122.250	-	115.900	-	109.550	103.200	
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6 x 6 x 5 6 x 6 x 4 6 x 6 x 3½ 6 x 6 x 3 6 x 6 x 2½ 6 x 6 x 2	152.40 x 152.40 x 127.00 152.40 x 152.40 x 101.60 152.40 x 152.40 x 88.90 152.40 x 152.40 x 76.20 152.40 x 152.40 x 63.50 152.40 x 152.40 x 50.80	.219	-	-	-	.280	.280	-	.432	.432	-	.562	-	.719	.864	
		5.563	-	-	-	7.112	7.112	-	10.973	10.973	-	14.275	-	18.263	21.946	
		6.187	-	-	-	6.065	6.065	-	5.761	5.761	-	5.501	-	5.187	4.897	
		157.150	-	-	-	154.051	154.051	-	146.329	146.329	-	139.725	-	131.750	124.384	
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

*Not given in ASME B36.10

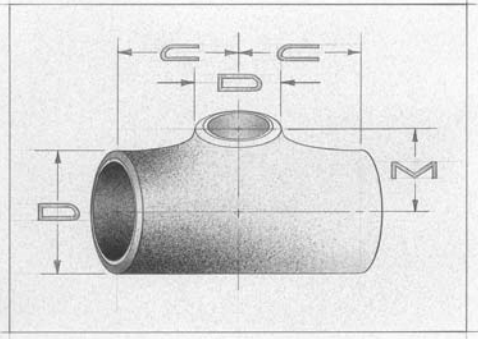
Reducing TEES



Key											
Reducing Sizes		Nominal Pipe Size		"D" Outside Diameter at Bevel				Center-to-End			
				Run		Outlet		"C" Run		"M" Outlet	
inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm
8 x 8 x 6	203.20 x 203.20 x 152.40	8	203.20	8.62	218.95	6.62	168.15	7.00	177.80	6.62	168.15
8 x 8 x 5	203.20 x 203.20 x 127.00			8.62	218.95	5.56	141.22	7.00	177.80	6.38	162.05
8 x 8 x 4	203.20 x 203.20 x 101.60			8.62	218.95	4.50	114.30	7.00	177.80	6.12	155.45
8 x 8 x 3½	203.20 x 203.20 x 88.90			8.62	218.95	4.00	101.60	7.00	177.80	6.00	152.40
8 x 8 x 3	203.20 x 203.20 x 76.20			8.62	218.95	3.50	88.90	7.00	177.80	***	***
10 x 10 x 8	254.00 x 254.00 x 203.20	10	254.00	10.75	273.05	8.62	218.95	8.50	215.90	8.00	203.20
10 x 10 x 6	254.00 x 254.00 x 152.40			10.75	273.05	6.62	168.15	8.50	215.90	7.62	193.55
10 x 10 x 5	254.00 x 254.00 x 127.00			10.75	273.05	5.56	141.22	8.50	215.90	7.50	190.50
10 x 10 x 4	254.00 x 254.00 x 101.60			10.75	273.05	4.50	114.30	8.50	215.90	7.25	184.15
12 x 12 x 10	304.80 x 304.80 x 254.00	12	304.80	12.75	323.85	10.75	273.05	10.00	254.00	9.50	241.30
12 x 12 x 8	304.80 x 304.80 x 203.20			12.75	323.85	8.62	218.95	10.00	254.00	9.00	228.60
12 x 12 x 6	304.80 x 304.80 x 152.40			12.75	323.85	6.62	168.15	10.00	254.00	8.62	218.95
12 x 12 x 5	304.80 x 304.80 x 127.00			12.75	323.85	5.56	141.22	10.00	254.00	8.50	215.90
12 x 12 x 4	304.80 x 304.80 x 101.60			***	***	***	***	***	***	***	***
14 x 14 x 12	355.60 x 355.60 x 304.80	14	355.60	14.00	355.60	12.75	323.85	11.00	279.40	10.62	269.75
14 x 14 x 10	355.60 x 355.60 x 254.00			14.00	355.60	10.75	273.05	11.00	279.40	10.12	257.05
14 x 14 x 8	355.60 x 355.60 x 203.20			14.00	355.60	8.62	218.95	11.00	279.40	9.75	247.65
14 x 14 x 6	355.60 x 355.60 x 152.40			14.00	355.60	6.62	168.15	11.00	279.40	9.38	238.25
16 x 16 x 14	406.40 x 406.40 x 355.60	16	406.40	16.00	406.40	14.00	355.60	12.00	304.80	12.00	304.80
16 x 16 x 12	406.40 x 406.40 x 304.80			16.00	406.40	12.75	323.85	12.00	304.80	11.62	295.15
16 x 16 x 10	406.40 x 406.40 x 254.00			16.00	406.40	10.75	273.05	12.00	304.80	11.12	282.45
16 x 16 x 8	406.40 x 406.40 x 203.20			16.00	406.40	8.62	218.95	12.00	304.80	10.75	273.05
16 x 16 x 6	406.40 x 406.40 x 152.40			16.00	406.40	6.62	168.15	12.00	304.80	10.38	263.65
18 x 18 x 16	457.20 x 457.20 x 406.40	18	457.20	18.00	457.20	16.00	406.40	13.50	342.90	13.00	330.20
18 x 18 x 14	457.20 x 457.20 x 355.60			18.00	457.20	14.00	355.60	13.50	342.90	13.00	330.20
18 x 18 x 12	457.20 x 457.20 x 304.80			18.00	457.20	12.75	323.85	13.50	342.90	12.62	320.55
18 x 18 x 10	457.20 x 457.20 x 254.00			18.00	457.20	10.75	273.05	13.50	342.90	12.12	307.85
18 x 18 x 8	457.20 x 457.20 x 203.20			18.00	457.20	8.62	218.95	13.50	342.90	11.75	298.45
20 x 20 x 18	508.00 x 508.00 x 457.20	20	508.00	20.00	508.00	18.00	457.20	15.00	381.00	14.50	368.30
20 x 20 x 16	508.00 x 508.00 x 406.40			20.00	508.00	16.00	406.40	15.00	381.00	14.00	355.60
20 x 20 x 14	508.00 x 508.00 x 355.60			20.00	508.00	14.00	355.60	15.00	381.00	14.00	355.60
20 x 20 x 12	508.00 x 508.00 x 304.80			20.00	508.00	12.75	323.85	15.00	381.00	13.62	345.95
20 x 20 x 10	508.00 x 508.00 x 254.00			20.00	508.00	10.75	273.05	15.00	381.00	13.12	333.25
20 x 20 x 8	508.00 x 508.00 x 203.20			20.00	508.00	8.62	218.95	15.00	381.00	12.75	323.85
22 x 22 x 20	558.80 x 558.80 x 508.00			22	558.80	22.00	558.80	20.00	508.00	16.50	419.10
22 x 22 x 18	558.80 x 558.80 x 457.20	22.00	558.80			18.00	457.20	16.50	419.10	15.50	393.70
22 x 22 x 16	558.80 x 558.80 x 406.40	22.00	558.80			16.00	406.40	16.50	419.10	15.00	381.00
22 x 22 x 14	558.80 x 558.80 x 355.60	22.00	558.80			14.00	355.60	16.50	419.10	15.00	381.00
22 x 22 x 12	558.80 x 558.80 x 304.80	22.00	558.80			12.75	323.85	16.50	419.10	14.62	371.35
22 x 22 x 10	558.80 x 558.80 x 254.00	22.00	558.80			10.75	273.05	16.50	419.10	14.12	358.65
24 x 24 x 22	609.60 x 609.60 x 558.80	24	609.60			24.00	609.60	22.00	558.80	17.00	431.80
24 x 24 x 20	609.60 x 609.60 x 508.00			24.00	609.60	20.00	508.00	17.00	431.80	17.00	431.80
24 x 24 x 18	609.60 x 609.60 x 457.20			24.00	609.60	18.00	457.20	17.00	431.80	16.50	419.10
24 x 24 x 16	609.60 x 609.60 x 406.40			24.00	609.60	16.00	406.40	17.00	431.80	16.00	406.40
24 x 24 x 14	609.60 x 609.60 x 355.60			24.00	609.60	14.00	355.60	17.00	431.80	16.00	406.40
24 x 24 x 12	609.60 x 609.60 x 304.80			24.00	609.60	12.75	323.85	17.00	431.80	15.62	396.75
24 x 24 x 10	609.60 x 609.60 x 254.00			24.00	609.60	10.75	273.05	17.00	431.80	15.12	384.05
30 x 30 x 24	762.00 x 762.00 x 609.60			30	762.00	30.00	762.00	24.00	609.60	22.00	558.80
30 x 30 x 20	762.00 x 762.00 x 508.00	30.00	762.00			20.00	508.00	22.00	558.80	20.00	508.00
30 x 30 x 18	762.00 x 762.00 x 457.20	30.00	762.00			18.00	457.20	22.00	558.80	19.50	493.30
30 x 30 x 16	762.00 x 762.00 x 406.40	30.00	762.00			16.00	406.40	22.00	558.80	19.00	482.60

***Call factory for dimensions.

Reducing TEES



Key		Nominal Wall Thickness: inches mm Inside Diameter: inches mm Weight: Call factory for weights													
		Reducing Sizes		Schedule											
inches	mm	L.W.G.	10	20	30	40	STD WT	60	XS	80	100	120	140	160	XXS
8 x 8 x 6	203.20 x 203.20 x 152.40	.219	-	.250	.277	.322	.322	.406	.500	.500	.594	.719	.812	.906	.875
8 x 8 x 5	203.20 x 203.20 x 127.00	5.563	-	6.350	7.036	8.179	8.179	10.312	12.700	12.700	15.088	18.263	20.625	23.012	22.225
8 x 8 x 4	203.20 x 203.20 x 101.60	8.187	-	8.125	8.071	7.981	7.981	7.813	7.625	7.625	7.437	7.187	7.001	6.813	6.875
8 x 8 x 3½	203.20 x 203.20 x 88.90	207.949	-	206.375	205.003	202.717	202.717	198.450	193.675	193.675	188.900	182.550	177.825	173.050	174.625
8 x 8 x 3	203.20 x 203.20 x 76.20														
10 x 10 x 8	254.00 x 254.00 x 203.20	.219	-	.250	.307	.365	.365	.500	.500	.594	.719	.844	1.000	1.125	1.000
10 x 10 x 6	254.00 x 254.00 x 152.40	5.563	-	6.350	7.798	9.271	9.271	12.700	12.700	15.088	18.263	21.438	25.400	28.575	25.400
10 x 10 x 5	254.00 x 254.00 x 127.00	10.312	-	10.250	10.136	10.020	10.020	9.750	9.750	9.562	9.312	9.062	8.750	8.500	8.750
10 x 10 x 4	254.00 x 254.00 x 101.60	261.925	-	260.350	257.454	254.508	254.508	247.650	247.650	242.875	236.525	230.175	222.250	215.900	222.250
12 x 12 x 10	304.80 x 304.80 x 254.00	.250	-	.250	.330	.406	.375	.562	.500	.688	.844	1.000	1.125	1.312	1.000
12 x 12 x 8	304.80 x 304.80 x 203.20	6.350	-	6.350	8.382	10.312	9.525	14.275	12.700	17.475	21.438	25.400	28.575	33.325	25.400
12 x 12 x 6	304.80 x 304.80 x 152.40	12.250	-	12.250	12.090	11.938	12.000	11.626	11.750	11.374	11.062	10.750	10.500	10.126	10.750
12 x 12 x 5	304.80 x 304.80 x 127.00	311.150	-	311.150	307.086	303.225	304.800	295.300	298.450	288.900	280.975	273.050	266.700	257.200	273.050
12 x 12 x 4	304.80 x 304.80 x 101.60														
14 x 14 x 12	355.60 x 355.60 x 304.80	.250	.250	.312	.375	.438	.375	.594	.500	.750	.938	1.094	1.250	1.406	-
14 x 14 x 10	355.60 x 355.60 x 254.00	6.350	6.350	7.925	9.525	11.125	9.525	15.088	12.700	19.050	23.825	27.788	31.750	35.712	-
14 x 14 x 8	355.60 x 355.60 x 203.20	13.500	13.500	13.376	13.250	13.124	13.250	12.812	13.000	12.500	12.124	11.812	11.500	11.188	-
14 x 14 x 6	355.60 x 355.60 x 152.40	342.900	342.900	339.750	336.550	333.350	336.550	325.425	330.200	317.500	307.950	300.025	292.100	284.175	-
16 x 16 x 14	406.40 x 406.40 x 355.60	.250	.250	.312	.375	.500	.375	.656	.500	.844	1.031	1.219	1.438	1.594	-
16 x 16 x 12	406.40 x 406.40 x 304.80	6.350	6.350	7.925	9.525	12.700	9.525	16.662	12.700	21.438	26.187	30.963	36.525	40.488	-
16 x 16 x 10	406.40 x 406.40 x 254.00	15.500	15.500	15.376	15.250	15.000	15.250	14.688	15.000	14.312	13.938	13.562	13.124	12.812	-
16 x 16 x 8	406.40 x 406.40 x 203.20	393.700	393.700	390.550	387.350	381.000	387.350	373.075	381.000	363.525	354.025	344.475	333.350	325.425	-
16 x 16 x 6	406.40 x 406.40 x 152.40														
18 x 18 x 16	457.20 x 457.20 x 406.40	.250	.250	.312	.438	.562	.375	.750	.500	.938	1.156	1.375	1.562	1.781	-
18 x 18 x 14	457.20 x 457.20 x 355.60	6.350	6.350	7.925	11.125	14.275	9.525	19.050	12.700	23.825	29.362	34.925	39.675	45.237	-
18 x 18 x 12	457.20 x 457.20 x 304.80	17.500	17.500	17.376	17.124	16.876	17.250	16.500	17.000	16.124	15.688	15.250	14.876	14.438	-
18 x 18 x 10	457.20 x 457.20 x 254.00	444.500	444.500	441.350	434.950	428.650	438.150	419.100	431.800	409.550	398.475	387.350	377.850	366.725	-
18 x 18 x 8	457.20 x 457.20 x 203.20														
20 x 20 x 18	508.00 x 508.00 x 457.20	.250	.250	.375	.500	.594	.375	.812	.500	1.031	1.281	1.500	1.750	1.969	-
20 x 20 x 16	508.00 x 508.00 x 406.40	6.350	6.350	9.525	12.700	15.088	9.525	20.625	12.700	26.187	32.537	38.100	44.450	50.013	-
20 x 20 x 14	508.00 x 508.00 x 355.60	19.500	19.500	19.250	19.000	18.812	19.250	18.376	19.000	17.938	17.438	17.000	16.500	16.062	-
20 x 20 x 12	508.00 x 508.00 x 304.80	495.300	495.300	488.950	482.600	477.825	488.950	466.750	482.600	455.625	442.925	431.800	419.100	407.975	-
20 x 20 x 10	508.00 x 508.00 x 254.00														
20 x 20 x 8	508.00 x 508.00 x 203.20														
22 x 22 x 20	558.80 x 558.80 x 508.00	-	.250	.375	.500	-	.375	.875	.500	1.125	1.375	1.625	1.875	2.125	-
22 x 22 x 18	558.80 x 558.80 x 457.20	-	6.350	9.525	12.700	-	9.525	22.225	12.700	28.575	34.925	41.275	47.625	53.975	-
22 x 22 x 16	558.80 x 558.80 x 406.40	-	21.500	21.250	21.000	-	21.250	20.250	21.000	19.750	19.250	18.750	18.250	17.750	-
22 x 22 x 14	558.80 x 558.80 x 355.60	-	546.100	539.750	533.400	-	539.750	514.350	533.400	501.650	488.950	476.250	463.550	450.850	-
22 x 22 x 12	558.80 x 558.80 x 304.80														
22 x 22 x 10	558.80 x 558.80 x 254.00														
24 x 24 x 22	609.60 x 609.60 x 558.80	.250	.250	.375	.562	.688	.375	.969	.500	1.219	1.531	1.812	2.062	2.344	-
24 x 24 x 20	609.60 x 609.60 x 508.00	6.350	6.350	9.525	14.275	17.475	9.525	24.613	12.700	30.963	38.887	46.025	52.375	59.538	-
24 x 24 x 18	609.60 x 609.60 x 457.20	23.500	23.500	23.250	22.876	22.624	23.250	22.062	23.000	21.562	20.938	20.376	19.876	19.312	-
24 x 24 x 16	609.60 x 609.60 x 406.40	596.900	596.900	590.500	581.050	574.650	590.550	560.375	584.200	547.675	531.825	517.550	504.850	490.525	-
24 x 24 x 14	609.60 x 609.60 x 355.60														
24 x 24 x 12	609.60 x 609.60 x 304.80														
24 x 24 x 10	609.60 x 609.60 x 254.00														
30 x 30 x 24	762.00 x 762.00 x 609.60	-	.312	.500	.625	-	.375	-	.500	-	-	-	-	-	-
30 x 30 x 20	762.00 x 762.00 x 508.00	-	7.925	12.700	15.875	-	9.525	-	12.700	-	-	-	-	-	-
30 x 30 x 18	762.00 x 762.00 x 457.20	-	29.376	29.000	28.750	-	29.250	-	29.000	-	-	-	-	-	-
30 x 30 x 16	762.00 x 762.00 x 406.40	-	746.150	736.600	730.250	-	742.950	-	736.600	-	-	-	-	-	-