

ASME B16.9

Butt-Weld Fittings

ASHBY SCOTT

PIPE SYSTEMS



90 Deg Elbow - Long Radius

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		CENTRE TO FACE	APPROX WEIGHT
		MM	SCHEDULE		
½"	21.3	2.78	STD	38.10	0.08
		3.73	XS		0.10
¾"	26.7	2.87	STD	28.60	0.08
		3.91	XS		0.11
1"	33.4	3.38	STD	38.10	0.15
		4.55	XS		0.19
1 ¼"	42.2	3.56	STD	47.60	0.28
		4.85	XS		0.39
1 ½"	48.3	3.68	STD	57.10	0.40
		5.08	XS		0.50
2"	60.3	3.91	STD	76.20	0.72
		5.54	XS		1.00
2 ½"	73.0	5.16	STD	95.20	1.46
		7.01	XS		1.82
3"	88.9	5.49	STD	114.30	2.18
		7.62	XS		2.86
4"	114.3	6.02	STD	152.40	4.20
		8.56	XS		5.70
5"	114.3	6.65	STD	190.00	6.80
		9.50	XS		10.00
6"	168.3	7.11	STD	229.00	10.10
		10.97	XS		15.30
8"	219.1	8.18	STD	305.00	20.40
		12.70	XS		30.90
		6.35	SCH20		16.74
		7.04	SCH30		18.50
10"	273.9	9.27	STD	381.00	36.10
		12.7	XS		48.80
		6.35	SCH20		26.22
12"	323.9	9.52	STD	457.00	53.10
		12.7	XS		70.00
		6.35	SCH20		37.46
14"	355.6	9.52	STD	553.00	68.10
		12.70	XS		90.00
		7.92	SCH20		59.70
16"	406.4	9.52	STD	610.00	90.00
		12.70	XS		118.00
		7.92	SCH20		78.20
18"	457.0	9.52	STD	686.00	113.00
		12.70	XS		150.00
		7.92	SCH20		99.20
20"	508.0	9.52	STD	762.00	85.00
		12.70	XS		112.50
22"	558.8	9.52	STD	838.00	174.60
		12.70	XS		230.40
24"	609.6	9.52	STD	914.00	203.00
		12.70	XS		269.00
26"	660.4	9.52	STD	991.00	306.00
		12.70	XS		406.00
28"	711.2	9.52	STD	1067.00	308.00
		12.70	XS		385.00
30"	762.0	9.52	STD	1143.00	326.60
		12.70	XS		470.00
32"	812.8	9.52	STD	1219.00	386.00
		12.70	XS		502.00
36"	914.4	9.52	STD	1372.00	426.00
		12.70	XS		626.00

45 Deg Elbow - Long Radius

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		CENTRE TO FACE	APPROX WEIGHT
		MM	SCHEDULE		
IN	MM	MM		MM	KG
½"	21.30	2.78	STD	15.90	0.04
		3.73	XS		0.05
¾"	26.70	2.87	STD	11.10	0.04
		3.91	XS		0.05
1"	33.40	3.38	STD	22.20	0.09
		4.55	XS		0.11
1 ¼"	42.20	3.56	STD	25.40	0.14
		4.85	XS		0.20
1 ½"	48.30	3.68	STD	28.60	0.20
		5.08	XS		0.25
2"	60.30	3.91	STD	34.90	0.36
		5.54	XS		0.50
2 ½"	73.00	5.16	STD	44.40	0.73
		7.01	XS		0.91
3"	88.90	5.49	STD	50.80	1.10
		7.62	XS		1.45
4"	114.30	6.02	STD	63.50	2.10
		8.56	XS		2.90
5"	114.30	6.65	STD	79.40	3.40
		9.50	XS		5.00
6"	168.30	7.11	STD	95.20	5.10
		10.97	XS		7.70
8"	219.10	8.18	STD	127.00	10.20
		12.70	XS		15.50
		6.35	SCH20		8.37
		7.04	SCH30		9.25
10"	273.90	9.27	STD	159.00	18.10
		12.7	XS		24.40
		6.35	SCH20		13.11
12"	323.90	9.52	STD	190.00	26.60
		12.7	XS		35.00
		6.35	SCH20		41.77
14"	355.60	9.52	STD	222.00	34.10
		12.70	XS		45.00
		7.92	SCH20		29.85
16"	406.40	9.52	STD	254.00	45.00
		12.70	XS		59.00
		7.92	SCH20		39.10
18"	457.00	9.52	STD	286.00	56.50
		12.70	XS		75.00
		7.92	SCH20		49.60
20"	508.00	9.52	STD	318.00	85.00
		12.70	XS		112.50
22"	558.80	9.52	STD	343.00	87.10
		12.70	XS		114.80
24"	609.60	9.52	STD	381.00	101.50
		12.70	XS		134.50
26"	660.40	9.52	STD	406.00	152.80
		12.70	XS		202.70
28"	711.20	9.52	STD	438.00	164.80
		12.70	XS		218.60
30"	762.00	9.52	STD	470.00	176.80
		12.70	XS		234.60
32"	812.80	9.52	STD	502.00	188.80
		12.70	XS		250.60
36"	914.40	9.52	STD	565.00	212.50
		12.70	XS		282.20

180 Degree Return Bend - Long Radius

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		CENTRE TO FACE	APPROX WEIGHT
		MM	SCHEDULE		
½"	21.3	2.78	STD	47.60	0.16
		3.73	XS		0.20
¾"	26.7	2.87	STD	42.90	0.16
		3.91	XS		0.20
1"	33.4	3.38	STD	55.60	0.31
		4.55	XS		0.39
1 ¼"	42.2	3.56	STD	69.90	0.53
		4.85	XS		0.69
1 ½"	48.3	3.68	STD	82.60	0.76
		5.08	XS		1.00
2"	60.3	3.91	STD	106.40	1.36
		5.54	XS		1.85
2 ½"	73.0	5.16	STD	131.80	2.67
		7.01	XS		3.50
3"	88.9	5.49	STD	158.80	4.19
		7.62	XS		5.62
3 ½"	114.3	6.02	STD	184.20	5.90
		8.56	XS		7.98
4"	114.3	6.02	STD	209.60	7.94
		8.56	XS		11.00
5"	114.3	6.65	STD	261.90	13.50
		9.50	XS		19.00
6"	168.3	7.11	STD	312.70	20.90
		10.97	XS		31.30
8"	219.1	8.18	STD	414.30	41.90
		12.70	XS		63.50
10"	273.9	9.27	STD	517.50	74.40
		12.7	XS		100.20
12"	323.9	9.52	STD	619.10	109.30
		12.70	XS		143.80
14"	355.6	9.52	STD	711.20	140.20
		12.70	XS		184.60
16"	406.4	9.52	STD	812.80	183.70
		12.70	XS		242.20
18"	457.0	9.52	STD	914.40	233.10
		12.70	XS		308.00
20"	508.0	9.52	STD	1016.00	288.90
		12.70	XS		371.50
22"	558.8	9.52	STD	1117.60	349.70
		12.70	XS		462.70
24"	609.6	9.52	STD	1219.20	417.30
		12.70	XS		553.40
26"	660.4	9.52	STD	1320.80	490.30
		12.70	XS		648.60
30"	762.0	9.52	STD	1524.00	635.6
		12.70	XS		866.40

90 Deg Elbow - Short Radius

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		CENTRE TO FACE	APPROX WEIGHT
		MM	SCHEDULE		
½"	-	-	-	-	-
¾"	27.0	2.87	STD	19.00	0.05
		3.91	XS		0.07
1"	33.4	3.38	STD	25.40	0.10
		4.55	XS		0.13
1 ¼"	42.2	3.56	STD	31.75	0.17
		4.85	XS		0.23
1 ½"	48.3	3.68	STD	38.10	0.25
		5.08	XS		0.33
2"	60.3	3.91	STD	50.80	0.45
		5.54	XS		0.60
2 ½"	73.0	5.16	STD	63.50	0.87
		7.01	XS		1.14
3"	88.9	5.49	STD	76.20	1.38
		7.62	XS		1.83
4"	114.3	6.02	STD	101.60	2.62
		8.56	XS		3.58
5"	114.3	6.65	STD	127.00	4.42
		9.50	XS		6.21
6"	168.3	7.11	STD	152.40	6.89
		10.97	XS		10.30
8"	219.1	8.18	STD	203.00	13.80
		12.70	XS		20.70
		6.35	SCH20		11.16
		7.04	SCH30		12.34
10"	273.9	9.27	STD	254.00	18.10
		12.7	XS		24.40
		6.35	SCH20		17.48
12"	323.9	9.52	STD	305.00	26.60
		12.7	XS		35.00
		6.35	SCH20		41.77
14"	355.6	9.52	STD	355.60	34.10
		12.70	XS		45.00
		7.92	SCH20		39.80
16"	406.4	9.52	STD	406.40	45.00
		12.70	XS		59.00
		7.92	SCH20		52.14
18"	457.0	9.52	STD	457.00	56.50
		12.70	XS		75.00
		7.92	SCH20		66.13
20"	508.0	9.52	STD	508.00	85.00
		12.70	XS		112.50
22"	558.8	9.52	STD	559.00	117.00
		12.70	XS		154.20
24"	609.6	9.52	STD	609.60	138.30
		12.70	XS		183.30
26"	660.4	9.52	STD	660.40	163.30
		12.70	XS		216.80
28"	711.2	9.52	STD	711.20	206.80
		12.70	XS		258.60
30"	762.0	9.52	STD	762.00	217.70
		12.70	XS		287.60
32"	812.8	9.52	STD	812.80	236.80
		12.70	XS		342.00
36"	914.4	9.52	STD	914.40	313.90
		12.70	XS		414.10

180 Degree Return Bend - Short Radius

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		CENTRE TO FACE	APPROX WEIGHT
		MM	SCHEDULE		
1"	33.4	3.38	STD	41.30	0.21
		4.55	XS		0.27
1 ¼"	42.2	3.56	STD	52.40	0.35
		4.85	XS		0.46
1 ½"	48.3	3.68	STD	61.90	0.50
		5.08	XS		0.66
2"	60.3	3.91	STD	81.00	0.90
		5.54	XS		1.23
2 ½"	73.0	5.16	STD	100.00	1.78
		7.01	XS		2.32
3"	88.9	5.49	STD	120.70	2.78
		7.62	XS		3.72
3 ½"	114.3	6.02	STD	139.70	3.90
		8.56	XS		5.31
4"	114.3	6.02	STD	158.80	5.26
		8.56	XS		7.30
5"	114.3	6.65	STD	196.90	8.94
		9.50	XS		12.60
6"	168.3	7.11	STD	236.50	13.90
		10.97	XS		20.70
8"	219.1	8.18	STD	312.70	27.90
		12.70	XS		42.00
10"	273.9	9.27	STD	390.50	49.40
		12.7	XS		66.70
12"	323.9	9.52	STD	466.70	72.60
		12.70	XS		95.30
14"	355.6	9.52	STD	553.40	93.00
		12.70	XS		122.90
16"	406.4	9.52	STD	610.00	155.10
		12.70	XS		204.60
18"	457.0	9.52	STD	686.00	192.30
		12.70	XS		254.00
20"	508.0	9.52	STD	762.00	277.60
		12.70	XS		367.40
24"	609.6	9.52	STD	914.00	435.40
		12.70	XS		577.00
30"	762.0	9.52	STD	1143.00	629.10
		12.70	XS		833.70

Equal Tees

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		CENTRE TO END	APPROX WEIGHT
		MM	SCHEDULE		
½"	21.3	2.78	STD	25.40	0.11
		3.73	XS		0.13
¾"	26.7	2.87	STD	28.60	0.16
		3.91	XS		0.21
1"	33.4	3.38	STD	38.10	0.35
		4.55	XS		0.42
1 ¼"	42.2	3.56	STD	47.60	0.60
		4.85	XS		0.74
1 ½"	48.3	3.68	STD	57.20	0.92
		5.08	XS		1.12
2"	60.3	3.91	STD	63.50	1.34
		5.54	XS		1.69
2 ½"	73.0	5.16	STD	76.20	2.36
		7.01	XS		2.92
3"	88.9	5.49	STD	85.70	3.37
		7.62	XS		4.29
3 ½"	101.6	5.74	STD	95.30	4.47
		8.08	XS		5.72
4"	114.3	6.02	STD	104.80	5.72
		8.56	XS		7.44
5"	114.3	6.65	STD	123.80	8.98
		9.50	XS		12.00
6"	168.3	7.11	STD	142.80	13.33
		10.97	XS		19.10
8"	219.1	8.18	STD	177.80	24.40
		12.70	XS		34.70
		6.30	SCH20		23.00
10"	273.9	9.27	STD	216.00	41.40
		12.7	XS		53.50
		6.35	SCH20		34.70
12"	323.9	9.52	STD	254.00	59.90
		12.7	XS		75.70
		6.35	SCH20		43.40
14"	355.6	9.52	STD	279.00	72.10
		12.70	XS		92.10
		7.92	SCH20		84.00
16"	406.4	9.52	STD	304.80	99.30
		12.70	XS		122.90
		7.92	SCH20		100.00
18"	457.0	9.52	STD	342.90	127.90
		12.70	XS		159.20
		7.92	SCH20		128.00
20"	508.0	9.52	STD	381.00	160.60
		12.70	XS		200.50
		9.53	SCH20		168.00
22"	558.8	9.52	STD	419.00	198.20
		12.70	XS		248.60
		8.53	SCH20		220.00
24"	609.6	9.52	STD	431.90	223.60
		12.70	XS		275.30
		9.53	SCH20		240.00
26"	660.4	9.52	STD	495.30	287.60
		12.70	XS		360.20
		12.70	SCH20		308.00

Equal Tees

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		CENTRE TO END	APPROX WEIGHT
		MM	SCHEDULE		
28"	711.2	9.52	STD	520.70	337.00
		12.70	XS		421.00
		12.70	SCH20		360.20
30"	762.0	9.52	STD	558.80	387.80
		12.70	XS		483.10
		12.70	SCH20		421.00
32"	812.8	9.52	STD	569.90	451.00
		12.70	XS		559.00
		12.70	SCH20		483.10
36"	914.4	9.52	STD	673.10	515.30
		12.70	XS		664.10
		12.70	SCH20		644.10
38"	965.0	9.53	STD	711.20	638.00
		12.70	XS		812.00
40"	1016.0	9.53	STD	749.30	690.00
		12.70	XS		895.00
42"	1067.0	9.53	STD	762.00	795.00
		12.70	XS		1045.00
44"	1118.0	9.53	STD	800.00	899.00
		12.70	XS		1194.00
46"	1168.0	9.53	STD	818.00	1007.00
		12.70	XS		1346.00
48"	1219.0	9.53	STD	838.20	1113.00
		12.70	XS		1499.00

Reducing Tees

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	SCH STD MM / KG		SCH XS MM / KG		SCH 20 MM / KG		CENTRE TO END RUN	CENTRE TO END BRANCH
		WT	WEIGHT	WT	WEIGHT	WT	WEIGHT		
IN	MM							MM	MM
3/4 x 1/2	27 x 21	2.87 x 2.77	-	3.91 x 3.73	-	-	-	29.0	29.0
1 x 1/2	33 x 21	3.38 x 2.77	0.34	4.55 x 3.73	0.45	-	-	38.0	38.0
1 x 3/4	33 x 27	3.38 x 2.87	0.34	4.55 x 3.91	0.45	-	-	38.0	38.0
1 1/4 x 1/2	42 x 21	3.56 x 2.77	0.63	4.85 x 3.73	0.85	-	-	48.0	48.0
1 1/4 x 3/4	42 x 27	3.56 x 2.87	0.63	7.85 x 3.91	0.85	-	-	48.0	48.0
1 1/4 x 1	42 x 33	3.56 x 3.38	0.63	4.85 x 4.55	0.85	-	-	48.0	48.0
1 1/2 x 1/2	48 x 21	3.68 x 2.77	0.92	5.08 x 3.73	1.27	-	-	57.0	57.0
1 1/2 x 3/4	48 x 27	3.68 x 2.87	0.92	5.08 x 3.91	1.27	-	-	57.0	57.0
1 1/2 x 1	48 x 33	3.68 x 3.38	0.92	5.08 x 4.55	1.27	-	-	57.0	57.0
1 1/2 x 1 1/4	48 x 42	3.68 x 3.56	0.92	5.08 x 4.85	1.27	-	-	57.0	57.0
2 x 3/4	60 x 27	3.91 x 2.87	1.49	5.54 x 3.91	2.15	-	-	64.0	44.0
2 x 1	60 x 33	3.91 x 3.38	1.49	5.54 x 4.55	2.15	-	-	64.0	51.0
2 x 1 1/4	60 x 42	3.91 x 3.56	1.49	5.54 x 4.85	2.15	-	-	64.0	57.0
2 x 1 1/2	60 x 48	3.91 x 3.68	1.49	5.54 x 5.08	2.15	-	-	64.0	60.0
2 1/2 x 1	73 x 33	5.16 x 3.38	2.68	7.01 x 4.55	3.00	-	-	76.0	57.0
2 1/2 x 1 1/4	73 x 42	5.16 x 3.56	2.68	7.01 x 4.85	3.00	-	-	76.0	64.0
2 1/2 x 1 1/2	73 x 48	5.16 x 3.68	2.68	7.01 x 5.08	3.00	-	-	76.0	67.0
2 1/2 x 2	73 x 60	5.16 x 3.91	2.68	7.01 x 5.54	3.00	-	-	76.0	70.0
3 x 1 1/4	89 x 42	5.49 x 3.56	3.75	7.62 x 4.85	4.29	-	-	86.0	70.0
3 x 1 1/2	89 x 48	5.49 x 3.68	3.75	7.62 x 5.08	4.29	-	-	86.0	73.0
3 x 2	89 x 60	5.49 x 3.91	3.75	7.62 x 5.54	4.29	-	-	86.0	76.0
3 x 2 1/2	89 x 73	5.49 x 5.16	3.75	7.62 x 7.01	4.29	-	-	86.0	83.0
3 1/2 x 1 1/2	102 x 48	5.74 x 3.68	5.00	8.08 x 5.08	6.15	-	-	95.0	79.0
3 1/2 x 2	102 x 60	5.74 x 3.91	5.00	8.08 x 5.54	6.15	-	-	95.0	83.0
3 1/2 x 2 1/2	102 x 73	5.74 x 5.16	5.00	8.08 x 7.01	6.15	-	-	95.0	89.0
3 1/2 x 3	102 x 89	5.74 x 5.49	5.00	8.08 x 7.62	6.15	-	-	95.0	92.0
4 x 1 1/2	114 x 48	6.02 x 3.68	6.50	8.56 x 5.08	7.65	-	-	105.0	86.0
4 x 2	114 x 60	6.02 x 3.91	6.50	8.56 x 5.54	7.65	-	-	105.0	89.0
4 x 2 1/2	114 x 73	6.02 x 5.16	6.50	8.56 x 7.01	7.65	-	-	105.0	95.0
4 x 3	114 x 89	6.02 x 5.49	6.50	8.56 x 7.62	7.65	-	-	105.0	98.0
4 x 3 1/2	114 x 102	6.02 x 5.74	6.50	8.56 x 8.08	7.65	-	-	105.0	102.0
5 x 2	141 x 60	6.55 x 3.91	10.00	9.53 x 5.54	13.50	-	-	124.0	105.0
5 x 2 1/2	141 x 73	6.56 x 5.16	10.00	9.53 x 7.01	13.50	-	-	124.0	108.0
5 x 3	141 x 89	6.56 x 5.49	10.00	9.53 x 7.62	13.50	-	-	124.0	111.0
5 x 3 1/2	141 x 102	6.56 x 5.74	10.00	9.53 x 8.08	13.50	-	-	124.0	114.0
5 x 4	141 x 114	6.56 x 6.02	10.00	9.53 x 8.56	13.50	-	-	124.0	117.0
6 x 2 1/2	168 x 73	7.11 x 5.16	14.00	10.97 x 7.01	19.30	-	-	143.0	121.0
6 x 3	168 x 89	7.11 x 5.49	14.00	10.97 x 7.62	19.30	-	-	143.0	124.0
6 x 3 1/2	168 x 102	7.11 x 5.74	14.00	10.97 x 8.08	19.30	-	-	143.0	127.0
6 x 4	168 x 114	7.11 x 6.02	14.00	10.97 x 8.56	19.30	-	-	143.0	130.0
6 x 5	168 x 141	7.11 x 6.56	14.00	10.97 x 9.53	19.30	-	-	143.0	137.0
8 x 4	219 x 114	8.18 x 6.02	27.00	12.70 x 8.56	33.00	-	-	178.00	158.0
8 x 5	219 x 141	8.18 x 6.56	27.00	12.70 x 9.53	33.00	-	-	178.00	162.0
8 x 6	219 x 168	8.18 x 7.11	27.00	12.70 x 10.97	33.00	-	-	178.00	168.0
10 x 4	273 x 114	9.27 x 6.02	39.63	12.70 x 8.56	53.53	-	-	216.00	184.0
10 x 5	273 x 141	9.27 x 6.56	39.63	12.70 x 9.53	53.53	-	-	216.00	191.0
10 x 6	273 x 168	9.27 x 7.11	39.63	12.70 x 10.97	53.53	-	-	216.00	194.0
10 x 8	273 x 219	9.27 x 8.18	39.63	12.70 x 12.70	53.53	6.35 x 6.35	33.15	216.00	203.0
12 x 5	324 x 140	9.53 x 6.56	63.00	12.70 x 9.53	74.82	-	-	254.00	216.0
12 x 6	324 x 168	9.53 x 7.11	63.00	12.70 x 10.97	74.82	-	-	254.00	219.0
12 x 8	324 x 219	9.53 x 8.18	63.00	12.70 x 12.70	74.82	6.35 x 6.35	41.20	254.00	229.0
12 x 10	324 x 273	9.53 x 9.27	63.00	12.70 x 12.70	74.82	6.35 x 6.35	43.40	254.00	241.0

Reducing Tees

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	SCH STD MM / KG		SCH XS MM / KG		SCH 20 MM / KG		CENTRE TO END RUN MM	CENTRE TO END BRANCH MM
		WT	WEIGHT	WT	WEIGHT	WT	WEIGHT		
14 x 6	356 x 168	9.53 x 7.11	97.60	12.70 x 10.97	109.55	-	-	279.0	238.0
14 x 8	356 x 219	9.53 x 8.18	97.60	12.70 x 12.70	109.55	7.92 x 6.35	80.50	279.0	248.0
14 x 10	356 x 273	9.53 x 9.27	97.60	12.70 x 12.70	109.55	7.92 x 6.35	80.50	279.0	257.0
14 x 12	356 x 324	9.53 x 9.53	102.00	12.70 x 12.70	115.00	7.92 x 6.35	84.00	279.0	270.0
16 x 6	406 x 168	9.53 x 7.11	106.50	12.70 x 10.97	160.00	-	-	305.0	264.0
16 x 8	406 x 219	9.53 x 8.18	106.50	12.70 x 12.70	160.00	7.92 x 6.35	98.00	305.0	273.0
16 x 10	406 x 273	9.53 x 9.27	106.50	12.70 x 12.70	160.00	7.92 x 6.35	98.00	305.0	283.0
16 x 12	406 x 324	9.53 x 9.53	110.00	12.70 x 12.70	164.00	7.92 x 6.35	100.00	305.0	295.0
16 x 14	406 x 356	9.53 x 9.53	110.00	12.70 x 12.70	16.00	7.92 x 7.92	100.00	305.0	305.0
18 x 8	457 x 219	9.53 x 8.18	129.00	12.70 x 12.70	154.00	7.92 x 6.35	123.00	343.0	298.0
18 x 10	457 x 273	9.53 x 9.27	129.00	12.70 x 12.70	154.00	7.92 x 6.35	123.00	343.0	308.0
18 x 12	457 x 324	9.53 x 9.53	135.00	12.70 x 12.70	164.00	7.92 x 6.35	127.00	343.0	321.0
18 x 14	457 x 356	9.53 x 9.53	135.00	12.70 x 12.70	190.00	7.92 x 7.92	127.00	343.0	330.0
18 x 16	457 x 406	9.53 x 9.53	135.00	12.70 x 12.70	190.00	7.92 x 7.92	127.00	343.0	330.0
20 x 8	508 x 219	9.53 x 8.18	163.50	12.70 x 12.70	214.00	9.53 x 6.35	163.50	381.0	324.0
20 x 10	508 x 273	9.53 x 9.27	163.50	12.70 x 12.70	214.00	9.53 x 6.35	163.50	381.0	333.0
20 x 12	508 x 324	9.53 x 9.53	163.50	12.70 x 12.70	214.00	9.53 x 6.35	163.50	381.0	346.0
20 x 14	508 x 356	9.53 x 9.53	163.50	12.70 x 12.70	214.00	9.53 x 7.92	163.50	381.0	356.0
20 x 16	508 x 406	9.53 x 9.53	168.00	12.70 x 12.70	218.00	9.53 x 7.92	168.00	381.0	356.0
20 x 18	508 x 457	9.53 x 9.53	168.00	12.70 x 12.70	218.00	9.53 x 7.92	168.00	381.0	368.0
22 x 10	559 x 273	9.53 x 9.27	172.50	12.70 x 12.70	245.00	9.53 x 6.35	170.00	419.0	359.0
22 x 12	559 x 324	9.53 x 9.53	172.50	12.70 x 12.70	245.00	9.53 x 6.35	170.00	419.0	371.0
22 x 14	559 x 356	9.53 x 9.53	172.50	12.70 x 12.70	245.00	9.53 x 7.92	170.00	419.0	381.0
22 x 16	559 x 406	9.53 x 9.53	209.00	12.70 x 12.70	260.00	9.53 x 7.92	170.00	419.0	381.0
22 x 18	559 x 457	9.53 x 9.53	209.00	12.70 x 12.70	260.00	9.53 x 7.92	220.00	419.0	394.0
22 x 20	559 x 508	9.53 x 9.53	220.00	12.70 x 12.70	260.00	9.53 x 9.53	220.00	419.0	406.0
24 x 10	610 x 273	9.53 x 9.27	204.00	12.70 x 12.70	300.00	9.53 x 6.35	204.00	432.0	384.0
24 x 12	610 x 324	9.53 x 9.53	218.00	12.70 x 12.70	300.00	9.53 x 6.35	218.00	432.0	397.0
24 x 14	610 x 356	9.53 x 9.53	222.00	12.70 x 12.70	300.00	9.53 x 7.92	222.00	432.0	406.0
24 x 16	610 x 406	9.53 x 9.53	222.00	12.70 x 12.70	320.00	9.53 x 7.92	222.00	432.0	406.0
24 x 18	610 x 457	9.53 x 9.53	227.00	12.70 x 12.70	320.00	9.53 x 7.92	227.00	432.0	419.0
24 x 20	610 x 508	9.53 x 9.53	227.00	12.70 x 12.70	350.00	9.53 x 9.53	227.00	432.0	432.0
24 x 22	610 x 559	9.53 x 9.53	237.00	12.70 x 12.70	350.00	9.53 x 9.53	237.00	432.0	432.0
26 x 12	660 x 324	9.53 x 9.53	234.10	12.70 x 12.70	294.40	12.70 x 6.35	294.40	495.0	422.0
26 x 14	660 x 356	9.53 x 9.53	239.00	12.70 x 12.70	300.30	12.70 x 7.92	300.30	495.0	432.0
26 x 16	660 x 406	9.53 x 9.53	246.80	12.70 x 12.70	310.30	12.70 x 7.92	310.30	495.0	432.0
26 x 18	660 x 457	9.53 x 9.53	254.90	12.70 x 12.70	320.20	12.70 x 7.92	320.20	495.0	444.0
26 x 20	660 x 508	9.53 x 9.53	263.50	12.70 x 12.70	330.20	12.70 x 9.53	330.20	495.0	457.0
26 x 22	660 x 559	9.53 x 9.53	271.20	12.70 x 12.70	339.70	12.70 x 9.53	339.70	495.0	470.0
26 x 24	660 x 610	9.53 x 9.53	279.40	12.70 x 12.70	349.70	12.70 x 9.53	349.70	495.0	483.0
28 x 14	711 x 356	9.53 x 9.53	274.00	12.70 x 12.70	346.00	12.70 x 7.92	346.00	521.0	457.0
28 x 16	711 x 406	9.53 x 9.53	283.00	12.70 x 12.70	357.00	12.70 x 7.92	357.00	521.0	457.0
28 x 18	711 x 457	9.53 x 9.53	292.10	12.70 x 12.70	368.80	12.70 x 7.92	368.80	521.0	470.0
28 x 20	711 x 508	9.53 x 9.53	301.60	12.70 x 12.70	380.00	12.70 x 9.53	380.00	521.0	483.0
28 x 22	771 x 559	9.53 x 9.53	310.70	12.70 x 12.70	390.00	12.70 x 9.53	390.00	521.0	495.0
28 x 24	771 x 610	9.53 x 9.53	319.80	12.70 x 12.70	400.50	12.70 x 9.53	400.50	521.0	508.0
28 x 26	771 x 660	9.53 x 9.53	325.20	12.70 x 12.70	410.50	12.70 x 12.70	410.50	521.0	521.0

Reducing Tees

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	SCH STD MM / KG		SCH XS MM / KG		SCH 20 MM / KG		CENTRE TO END RUN MM	CENTRE TO END BRANCH MM
		WT	WEIGHT	WT	WEIGHT	WT	WEIGHT		
30 x 14	762 x 356	9.53 x 9.53	308.90	12.70 x 12.70	392.40	12.70 x 7.92	392.40	559.0	483.0
30 x 16	762 x 406	9.53 x 9.53	319.30	12.70 x 12.70	403.70	12.70 x 7.92	403.70	559.0	483.0
30 x 18	762 x 457	9.53 x 9.53	329.80	12.70 x 12.70	417.30	12.70 x 7.92	417.30	559.0	495.0
30 x 20	762 x 508	9.53 x 9.53	339.70	12.70 x 12.70	428.60	12.70 x 9.53	428.60	559.0	508.0
30 x 22	762 x 559	9.53 x 9.53	350.20	12.70 x 12.70	440.00	12.70 x 9.53	440.00	559.0	521.0
30 x 24	762 x 610	9.53 x 9.53	360.60	12.70 x 12.70	451.30	12.70 x 9.53	451.30	559.0	533.0
30 x 26	762 x 660	9.53 x 9.53	370.60	12.70 x 12.70	462.70	12.70 x 12.70	462.70	559.0	546.0
30 x 28	762 x 711	9.53 x 9.53	387.30	12.70 x 12.70	471.70	12.70 x 12.70	471.70	559.0	546.0
32 x 16	813 x 406	9.53 x 9.53	381.00	12.70 x 12.70	461.00	12.70 x 7.92	461.00	597.0	508.0
32 x 18	813 x 457	9.53 x 9.53	390.00	12.70 x 12.70	475.00	12.70 x 7.92	475.00	597.0	521.0
32 x 20	813 x 508	9.53 x 9.53	406.00	12.70 x 12.70	487.60	12.70 x 9.53	487.60	597.0	533.0
32 x 24	813 x 610	9.53 x 9.53	410.00	12.70 x 12.70	513.50	12.70 x 9.53	513.50	597.0	559.0
32 x 26	813 x 660	9.53 x 9.53	420.50	12.70 x 12.70	526.20	12.70 x 12.70	526.20	597.0	572.0
32 x 28	813 x 711	9.53 x 9.53	429.10	12.70 x 12.70	536.20	12.70 x 12.70	536.20	597.0	572.0
32 x 30	813 x 762	9.53 x 9.53	441.40	12.70 x 12.70	543.40	12.70 x 12.70	543.40	597.0	584.0
34 x 16	864 x 406	9.53 x 9.53	411.40	12.70 x 12.70	519.40	12.70 x 7.92	519.40	635.0	533.0
34 x 18	864 x 457	9.53 x 9.53	423.20	12.70 x 12.70	532.90	12.70 x 7.92	532.90	635.0	546.0
34 x 20	864 x 508	9.53 x 9.53	435.40	12.70 x 12.70	546.60	12.70 x 9.53	546.60	635.0	559.0
34 x 22	864 x 559	9.53 x 9.53	447.20	12.70 x 12.70	562.50	12.70 x 9.53	562.50	635.0	52.0
34 x 24	864 x 610	9.53 x 9.53	459.50	12.70 x 12.70	576.10	12.70 x 9.53	576.10	635.0	584.0
34 x 26	864 x 660	9.53 x 9.53	471.30	12.70 x 12.70	589.70	12.70 x 12.70	589.70	635.0	597.0
34 x 28	864 x 711	9.53 x 9.53	480.40	12.70 x 12.70	601.00	12.70 x 12.70	601.00	635.0	597.0
34 x 30	864 x 762	9.53 x 9.53	492.10	12.70 x 12.70	614.60	12.70 x 12.70	614.60	635.0	610.0
34 x 32	864 x 813	9.53 x 9.53	503.90	12.70 x 12.70	630.50	12.70 x 12.70	630.50	635.0	622.0
36 x 16	914 x 406	9.53 x 9.53	460.40	12.70 x 12.70	580.60	12.70 x 7.92	580.60	673.0	559.0
36 x 18	914 x 457	9.53 x 9.53	473.60	12.70 x 12.70	596.50	12.70 x 7.92	596.50	673.0	572.0
36 x 20	914 x 408	9.53 x 9.53	486.30	12.70 x 12.70	610.10	12.70 x 9.53	610.10	673.0	584.0
36 x 22	914 x 559	9.53 x 9.53	499.00	12.70 x 12.70	626.00	12.70 x 9.53	626.00	673.0	597.0
36 x 24	914 x 610	9.53 x 9.53	512.10	12.70 x 12.70	641.80	12.70 x 9.53	641.80	673.0	610.0
36 x 26	914 x 660	9.53 x 9.53	525.30	12.70 x 12.70	653.20	12.70 x 12.70	653.20	673.0	622.0
36 x 28	914 x 711	9.53 x 9.53	535.70	12.70 x 12.70	669.00	12.70 x 12.70	669.00	673.0	622.0
36 x 30	914 x 762	9.53 x 9.53	547.50	12.70 x 12.70	684.90	12.70 x 12.70	684.90	673.0	635.0
36 x 32	914 x 813	9.53 x 9.53	561.10	12.70 x 12.70	698.50	12.70 x 12.70	698.50	673.0	648.0
36 x 34	914 x 864	9.53 x 9.53	573.30	12.70 x 12.70	714.40	12.70 x 12.70	714.40	673.0	660.0

Concentric & Eccentric Reducers

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		LENGTH	APPROX WEIGHT (KG)	
		STD	XS		STD	XS
IN	MM			MM		
¾ X ½	27 X 21	2.87 X 2.77	3.91 X 3.73	38.00	-	0.14
1 X ½	33 X 21	3.38 X 2.77	4.55 X 3.73	51.00	0.14	0.16
1 X ¾	33 X 27	3.38 X 2.87	4.55 X 3.91		0.14	0.17
1 ¼ X ½	42 X 21	3.56 X 2.77	4.85 X 3.73	51.00	0.19	0.22
1 ¼ X ¾	42 X 27	3.56 X 2.87	4.85 X 3.91		0.20	0.23
1 ¼ X 1	42 X 33	3.56 X 3.38	4.85 X 4.55			0.24
1 ½ X ½	48 X 21	3.68 X 2.77	5.08 X 3.73	64.00	0.20	0.28
1 ½ X ¾	48 X 27	3.68 X 2.87	5.08 X 3.91		0.22	0.27
1 ½ X 1	48 X 33	3.68 X 3.38	5.08 X 4.55		0.24	0.31
1 ½ X 1 ¼	48 X 42	3.68 X 3.56	5.08 X 4.85		0.26	0.33
2 X ¾	60 X 27	3.91 X 2.87	5.54 X 3.91	76.00	0.33	0.46
2 X 1	60 X 33	3.91 X 3.38	5.54 X 4.55		0.37	0.45
2 X 1 ¼	60 X 42	3.91 X 3.56	5.54 X 4.85		0.39	0.53
2 X 1 ½	60 X 48	3.91 X 3.68	5.54 X 5.08		0.41	0.54
2 ½ X 1	73 X 33	5.16 X 3.38	7.01 X 4.55	89.00	0.59	0.79
2 ½ X 1 ¼	73 X 42	5.16 X 3.56	7.01 X 4.85		0.67	
2 ½ X 1 ½	73 X 48	5.16 X 3.68	7.01 X 5.08		0.68	0.86
2 ½ X 2	73 X 60	5.16 X 3.91	7.01 X 5.54		0.73	0.94
3 X 1 ¼	89 X 42	5.49 X 3.56	7.62 X 4.85	89.00	0.77	1.04
3 X 1 ½	89 X 48	5.49 X 3.68	7.62 X 5.08		0.86	
3 X 2	89 X 60	5.49 X 3.91	7.62 X 5.54		0.91	1.18
3 X 2 ½	89 X 73	5.49 X 5.16	7.62 X 7.01		0.98	1.29
3 ½ X 1 ½	102 X 48	5.74 X 3.68	8.08 X 5.08	102.00	1.14	1.43
3 ½ X 2	102 X 60	5.74 X 3.91	8.08 X 5.54		1.23	1.61
3 ½ X 2 ½	102 X 73	5.74 X 5.16	8.08 X 7.01		1.34	1.75
3 ½ X 3	102 X 89	5.74 X 5.49	8.08 X 7.62		1.38	1.85
4 X 1 ½	114 X 48	6.02 X 3.68	8.56 X 5.08	102.00	1.24	1.73
4 X 2	114 X 60	6.02 X 3.91	8.56 X 5.54		1.44	1.78
4 X 2 ½	114 X 73	6.02 X 5.16	8.56 X 7.01		1.54	2.01
4 X 3	114 X 89	6.02 X 5.49	8.56 X 7.62		1.59	2.13
4 X 3 ½	114 X 102	6.02 X 5.74	8.56 X 8.08		1.64	2.21
5 X 2	141 X 60	6.55 X 3.91	9.53 X 5.54	127.00	2.29	3.00
5 X 2 ½	141 X 73	6.55 X 5.16	9.53 X 7.01		2.51	3.30
5 X 3	141 X 89	6.55 X 5.49	9.53 X 7.62		2.60	3.55
5 X 3 ½	141 X 102	6.55 X 5.74	9.53 X 8.08		2.66	3.65
5 X 4	141 X 114	6.55 X 6.02	9.53 X 8.56		2.72	3.78
6 X 2 ½	168 X 73	7.11 X 5.16	10.97 X 7.01	140.00	3.45	4.52
6 X 3	168 X 89	7.11 X 5.49	10.97 X 7.62		3.63	5.04
6 X 3 ½	168 X 102	7.11 X 5.74	10.97 X 8.08		3.69	5.27
6 X 4	168 X 114	7.11 X 6.02	10.97 X 8.56		3.72	5.45
6 X 5	168 X 141	7.11 X 6.55	10.97 X 9.53		3.93	5.72
8 X 4	219 X 114	8.18 X 6.02	12.70 X 8.56	152.00	5.95	8.44
8 X 5	219 X 141	8.18 X 6.55	12.70 X 9.53		6.08	8.85
8 X 6	219 X 168	8.18 X 7.11	12.70 X 10.97		6.31	9.26
10 X 4	273 X 114	9.27 X 6.02	12.70 X 8.56	178.00	9.58	11.50
10 X 5	273 X 141	9.27 X 6.55	12.70 X 9.53		9.90	13.00
10 X 6	273 X 168	9.27 X 7.11	12.70 X 10.97		10.10	13.50
10 X 8	273 X 219	9.27 X 8.18	12.70 X 12.70		10.50	14.20
12 X 5	324 X 141	9.53 X 6.55	12.70 X 9.53	203.00	13.80	17.70
12 X 6	324 X 168	9.53 X 7.11	12.70 X 10.97		14.10	18.40
12 X 8	324 X 219	9.53 X 8.18	12.70 X 12.70		14.60	19.08
12 X 10	324 X 273	9.53 X 9.27			15.20	19.80

Concentric & Eccentric Reducers

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		LENGTH	APPROX WEIGHT (KG)	
		STD	XS		STD	XS
IN	MM	STD	XS	MM	STD	XS
14 X 6	356 X 168	9.53 X 7.11	12.70 X 12.70	330.00	25.30	33.70
14 X 8	356 X 219	9.53 X 8.18			26.00	34.90
14 X 10	356 X 273	9.53 X 9.27			27.40	36.10
14 X 12	356 X 324	9.53 X 9.53			28.80	37.70
16 X 6	406 X 168	9.53 X 7.11	12.70 X 12.70	356.00	21.90	42.60
16 X 8	406 X 219	9.53 X 8.18				
16 X 10	406 X 273	9.53 X 9.27			33.10	43.70
16 X 12	406 X 324	9.53 X 9.53			34.30	45.00
16 X 14	406 X 356				35.20	46.30
18 X 8	457 X 219	9.53 X 8.18	12.70 X 12.70	381.00	39.40	51.80
18 X 10	457 X 273	9.53 X 9.27				
18 X 12	457 X 324	9.53 X 9.53			40.50	53.60
18 X 14	457 X 356				41.30	54.50
18 X 16	457 X 406				42.70	55.80
20 X 8	508 X 219	9.53 X 8.18	12.70 X 12.70	508.00	60.80	79.90
20 X 10	508 X 273	9.53 X 9.27				
20 X 12	508 X 324	9.53 X 9.53				
20 X 14	508 X 356				61.30	81.30
20 X 16	508 X 406				62.60	82.60
20 X 18	508 X 457				64.50	84.40
22 X 10	559 X 273	9.53 X 9.27	12.70 X 12.70	508.00	67.20	88.50
22 X 12	559 X 324	9.53 X 9.53				
22 X 14	559 X 356					
22 X 16	559 X 406				68.50	89.90
22 X 18	559 X 457				69.90	91.70
22 X 20	559 X 508				71.30	94.00
24 X 10	610 X 273	9.53 X 9.27	12.70 X 12.70	508.00	72.60	95.80
24 X 12	610 X 324	9.53 X 9.53				
24 X 14	610 X 356					
24 X 16	610 X 406					
24 X 18	610 X 457				74.00	97.60
24 X 20	610 X 508				75.80	99.90
24 X 22	610 X 559					

Caps

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		LENGTH	APPROX WEIGHT
		MM	SCHEDULE		
½"	21.3	2.78	STD	25.40	0.03
		3.73	XS		0.04
¾"	26.7	2.87	STD	28.60	0.06
		3.91	XS		0.07
1"	33.4	3.38	STD	38.10	0.10
		4.55	XS		0.13
1 ¼"	42.2	3.56	STD	47.60	0.14
		4.85	XS		0.18
1 ½"	48.3	3.68	STD	57.20	0.17
		5.08	XS		0.22
2"	60.3	3.91	STD	63.50	0.23
		5.54	XS		0.30
2 ½"	73.0	5.16	STD	76.20	0.37
		7.01	XS		0.45
3"	88.9	5.49	STD	85.70	0.64
		7.62	XS		0.84
3 ½"	101.6	5.74	STD	95.30	0.96
		8.08	XS		1.28
4"	114.3	6.02	STD	104.80	1.16
		8.56	XS		1.55
5"	114.3	6.65	STD	123.80	1.19
		9.50	XS		2.61
6"	168.3	7.11	STD	142.80	2.91
		10.97	XS		4.19
8"	219.1	8.18	STD	177.80	5.13
		12.70	XS		7.40
		6.30	SCH20		4.50
10"	273.9	9.27	STD	216.00	9.08
		12.7	XS		11.90
		6.35	SCH20		6.00
12"	323.9	9.52	STD	254.00	13.40
		12.7	XS		17.30
		6.35	SCH20		10.00
14"	355.6	9.52	STD	279.00	16.00
		12.70	XS		20.80
		7.92	SCH20		14.00
16"	406.4	9.52	STD	304.80	20.10
		12.70	XS		26.10
		7.92	SCH20		18.00
18"	457.0	9.52	STD	342.90	25.90
		12.70	XS		33.90
		7.92	SCH20		22.00
20"	508.0	9.52	STD	381.00	32.50
		12.70	XS		42.60
		9.53	SCH20		32.00
22"	558.8	9.52	STD	419.00	39.30
		12.70	XS		52.20
		8.53	SCH20		39.00
24"	609.6	9.52	STD	431.90	46.30
		12.70	XS		60.80
		9.53	SCH20		46.00
26"	660.4	9.52	STD	495.30	50.80
		12.70	XS		65.80
		12.70	SCH20		66.10

Caps

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	WALL THICKNESS		LENGTH	APPROX WEIGHT
		MM	SCHEDULE		
28"	711.2	9.52	STD	520.70	56.00
		12.70	XS		75.30
		12.70	SCH20		74.81
30"	762.0	9.52	STD	558.80	56.70
		12.70	XS		79.40
		12.70	SCH20		82.80
32"	812.8	9.52	STD	569.90	65.80
		12.70	XS		93.40
		12.70	SCH20		93.40
36"	914.4	9.52	STD	673.10	79.40
		12.70	XS		107.00
		12.70	SCH20		96.61
38"	965.0	9.53	STD	711.20	86.20
		12.70	XS		124.70
40"	1016.0	9.53	STD	749.30	95.30
		12.70	XS		129.30
42"	1067.0	9.53	STD	762.00	104.00
		12.70	XS		136.00
44"	1118.0	9.53	STD	800.00	120.20
		12.70	XS		167.80
46"	1168.0	9.53	STD	818.00	136.00
		12.70	XS		186.00
48"	1219.0	9.53	STD	838.20	159.00
		12.70	XS		215.50