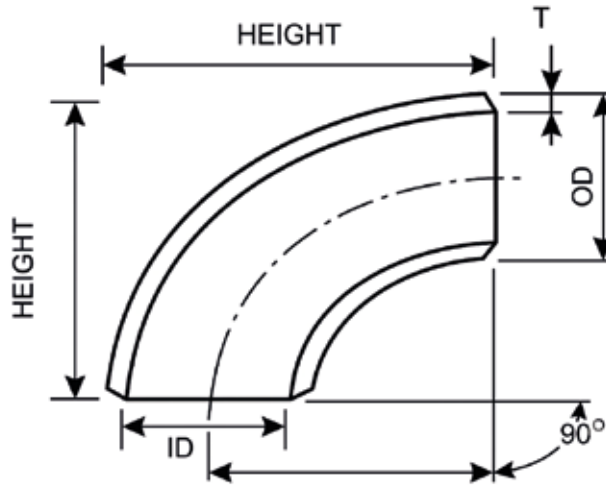
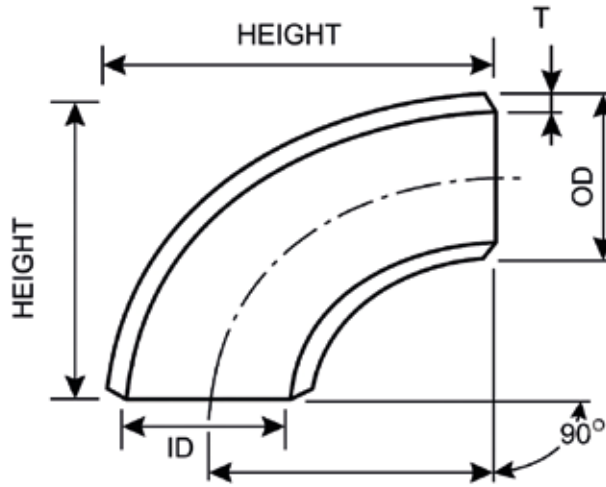


Dimension for 90° LR Elbow SCH10S - **ASTM A403**



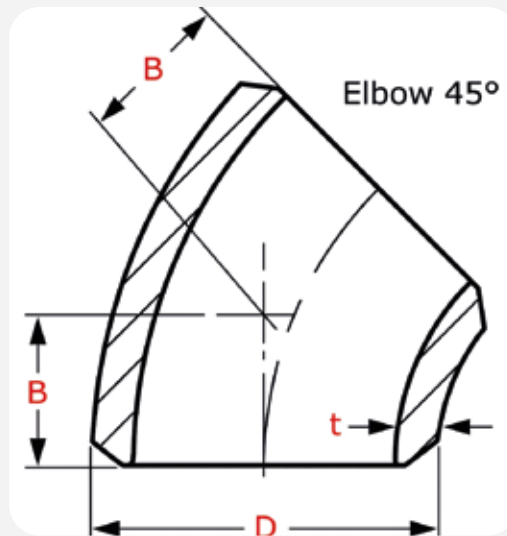
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	HEIGHT	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)	(mm)	(T)	(KG)
1/2"	21.3	17.1	48.8	2.11	0.04
3/4"	26.7	22.5	51.5	2.11	0.06
1"	33.4	27.9	54.8	2.77	0.12
1.1/4"	42.2	36.7	68.6	2.77	0.20
1.1/2"	48.3	42.8	81.2	2.77	0.29
2"	60.3	54.8	106.2	2.77	0.46
2.1/2"	73.0	66.9	131.5	3.05	0.81
3"	88.9	82.8	159.0	3.05	1.22
3.1/2"	101.6	95.5	184.3	3.05	1.57
4"	114.3	108.2	209.7	3.05	1.97
5"	141.3	134.5	261.2	3.40	3.40
6"	168.3	161.5	312.7	3.40	4.88
8"	219.1	211.6	414.6	3.76	9.40
10"	273.1	264.7	517.6	4.19	16.35
12"	323.8	314.7	618.9	4.57	25.41
14"	355.6	346.0	710.8	4.78	34.07
16"	406.4	396.8	813.2	4.78	44.58
18"	457.0	447.4	914.5	4.78	56.47
20"	508.0	496.9	1016.0	5.54	80.79
22"	559.0	547.9	1117.5	5.54	97.90
24"	610.0	597.3	1219.0	6.35	133.51

Dimension for 90° LR Elbow SCH40S - **ASTM A403**



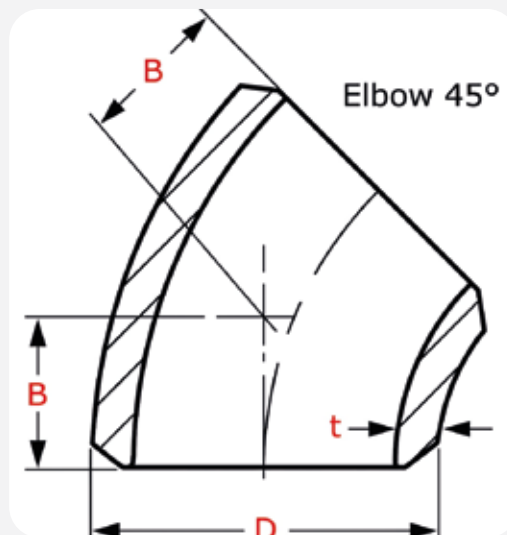
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	HEIGHT	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)	(mm)	(T)	(KG)
1/2"	21.3	15.8	48.8	2.77	0.04
3/4"	26.7	21.0	51.5	2.87	0.08
1"	33.4	26.6	54.8	3.38	0.15
1.1/4"	42.2	35.1	68.6	3.56	0.26
1.1/2"	48.3	40.9	81.2	3.68	0.38
2"	60.3	52.5	106.2	3.91	0.64
2.1/2"	73.0	62.7	131.5	5.16	1.32
3"	88.9	77.9	159.0	5.49	2.13
3.1/2"	101.6	90.1	184.3	5.74	2.87
4"	114.3	102.3	209.7	6.02	3.78
5"	141.3	128.2	261.2	6.55	6.40
6"	168.3	154.1	312.7	7.11	9.98
8"	219.1	202.7	414.6	8.18	20.03
10"	273.1	254.6	517.6	9.27	35.48
12"	323.8	304.7	618.9	9.56	52.16
14"	355.6	333.3	710.8	11.13	67.01
16"	406.4	381.0	813.2	12.70	87.82
18"	457.0	428.5	914.5	14.27	111.40
20"	508.0	477.8	1016.0	15.09	137.88
22"	559.0	539.9	1117.5	9.56 (STD)	167.19
24"	610.0	575.0	1219.0	17.48	199.31

Dimension for 45° LR Elbow SCH10S - **ASTM A403**



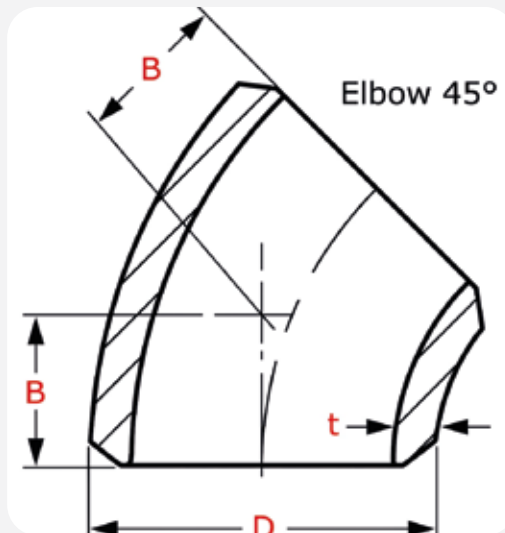
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	CENTER TO END	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)	(B)	(T)	(KG)
1/2"	21.3	17.1	16	2.11	0.02
3/4"	26.7	22.5	19	2.11	0.03
1"	33.4	27.9	22	2.77	0.06
1.1/4"	42.2	36.7	25	2.77	0.09
1.1/2"	48.3	42.8	29	2.77	0.13
2"	60.3	54.8	35	2.77	0.21
2.1/2"	73.0	66.9	44	3.05	0.36
3"	88.9	82.8	51	3.05	0.55
3.1/2"	101.6	95.5	57	3.05	0.71
4"	114.3	108.2	64	3.05	0.89
5"	141.3	134.5	79	3.40	1.53
6"	168.3	161.5	95	3.40	2.20
8"	219.1	211.6	127	3.76	4.23
10"	273.0	264.6	159	4.19	7.36
12"	323.8	314.7	190	4.57	11.43
14"	355.6	346.0	222	4.78	15.33
16"	406.4	396.8	254	4.78	20.06
18"	457.0	447.4	286	4.78	25.41
20"	508.0	496.9	318	5.54	36.36
22"	559.0	547.9	343	5.54	44.05
24"	610.0	597.3	381	6.35	60.08

Dimension for 45° LR Elbow SCH40S - **ASTM A403**



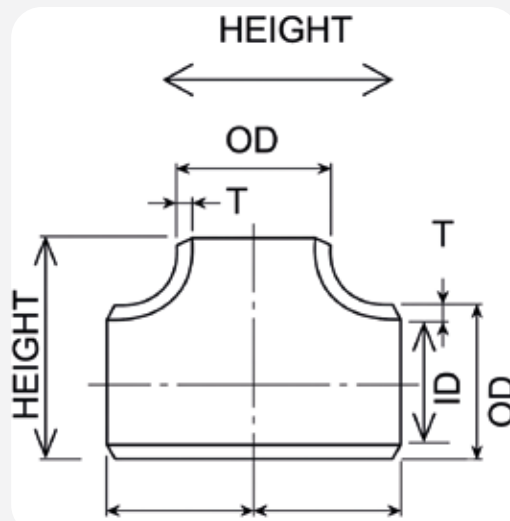
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	CENTER TO END	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)	(B)	(T)	(KG)
1/2"	21.3	15.8	16	2.77	0.02
3/4"	26.7	21.0	19	2.87	0.04
1"	33.4	26.6	22	3.38	0.07
1.1/4"	42.2	35.1	25	3.56	0.11
1.1/2"	48.3	40.9	29	3.68	0.17
2"	60.3	52.5	35	3.91	0.29
2.1/2"	73.0	62.7	44	5.16	0.59
3"	88.9	77.9	51	5.49	0.96
3.1/2"	101.6	90.1	57	5.74	1.29
4"	114.3	102.3	64	6.02	1.70
5"	141.3	128.2	79	6.55	2.88
6"	168.3	154.1	95	7.11	4.49
8"	219.1	202.7	127	8.18	9.01
10"	273.0	254.5	159	9.27	15.97
12"	323.8	303.2	190	10.31	23.47
14"	355.6	333.3	222	11.13	30.15
16"	406.4	381.0	254	12.70	39.52
18"	457.0	428.5	286	14.27	50.13
20"	508.0	477.8	318	15.09	62.05
22"	559.0	539.9(STD)	343	9.53(STD)	75.23
24"	610.0	575.0	381	17.48	89.69

Dimension for 45° LR Elbow SCH80S - **ASTM A403**



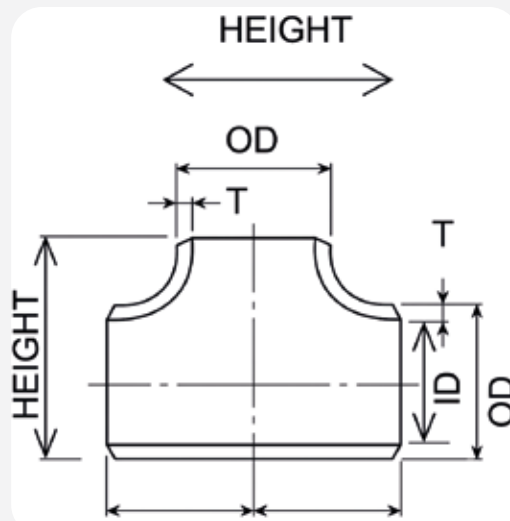
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	CENTER TO END	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)	(B)	(T)	(KG)
1/2"	21.3	13.8	16	3.73	0.03
3/4"	26.7	18.9	19	3.91	0.05
1"	33.4	24.3	22	4.55	0.09
1.1/4"	42.2	32.5	25	4.85	0.15
1.1/2"	48.3	38.1	29	5.08	0.23
2"	60.3	49.2	35	5.54	0.40
2.1/2"	73.0	59.0	44	7.01	0.79
3"	88.9	73.7	51	7.62	1.29
3.1/2"	101.6	85.4	57	8.08	1.78
4"	114.3	97.2	64	8.56	2.36
5"	141.3	122.2	79	9.53	4.10
6"	168.3	146.4	95	10.97	6.76
8"	219.1	193.7	127	12.70	13.69
10"	273.0	242.8	159	15.09	21.59
12"	323.8	288.8	190	17.48	30.96
14"	355.6	317.5	222	19.05	39.82
16"	406.4	363.5	254	21.44	52.24
18"	457.0	409.2	286	23.88	66.33
20"	508.0	455.6	318	26.19	82.16
22"	559.0	501.8	343	28.58	99.68
24"	610.0	548.1	381	30.95	118.89

Dimension for Straight Tee SCH10S - **ASTM A403**



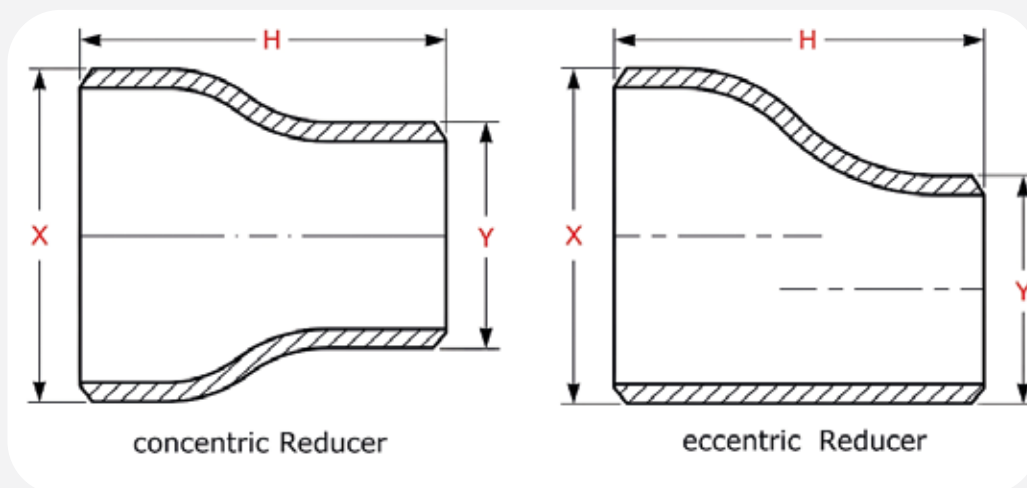
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	HEIGHT	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)	(mm)	(T)	(KG)
1/2"	21.3	17.1	35.7	2.11	0.06
3/4"	26.7	22.5	42.4	2.11	0.09
1"	33.4	27.9	54.7	2.77	0.20
1.1/4"	42.2	36.7	69.1	2.77	0.33
1.1/2"	48.3	42.8	81.1	2.77	0.45
2"	60.3	54.8	94.2	2.77	0.64
2.1/2"	73.0	66.9	112.5	3.05	1.02
3"	88.9	82.8	130.5	3.05	1.41
3.1/2"	101.6	95.5	145.8	3.05	1.79
4"	114.3	108.2	162.2	3.05	2.24
5"	141.3	134.5	194.7	3.40	3.65
6"	168.3	161.5	227.1	3.40	5.03
8"	219.1	211.6	287.6	3.76	9.04
10"	273.1	264.6	352.5	4.19	15.27
12"	323.8	314.7	415.9	4.57	23.25
14"	355.6	346.0	456.8	4.78	29.36
16"	406.4	396.8	508.2	4.78	36.74
18"	457.0	447.4	571.5	4.78	46.52
20"	508.0	496.9	635.0	5.54	66.55
22"	559.0	547.9	698.5	5.54	80.62
24"	610.0	597.3	737.0	6.35	103.91

Dimension for Straight Tee SCH40S - **ASTM A403**



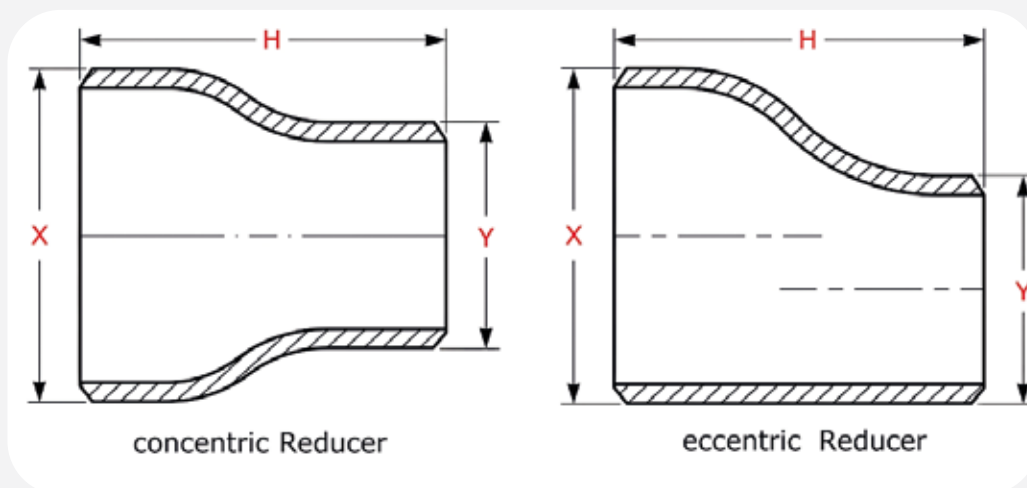
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	HEIGHT	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)		(T)	(KG)
1/2"	21.3	15.8	35.7	2.77	0.08
3/4"	26.7	21.0	42.4	2.87	0.12
1"	33.4	26.6	54.7	3.38	0.24
1.1/4"	42.2	35.1	69.1	3.56	0.41
1.1/2"	48.3	40.9	81.1	3.68	0.59
2"	60.3	52.5	94.2	3.91	0.89
2.1/2"	73.0	62.7	112.5	5.16	1.67
3"	88.9	77.9	130.5	5.49	2.47
3.1/2"	101.6	90.1	145.8	5.74	3.28
4"	114.3	102.3	162.2	6.02	4.29
5"	141.3	128.2	194.7	6.55	6.87
6"	168.3	154.1	227.1	7.11	10.28
8"	219.1	202.7	287.6	8.18	19.27
10"	273.1	254.6	352.5	9.27	33.14
12"	323.8	304.7	415.9	9.56	47.74
14"	355.6	333.3	456.8	11.13	57.74
16"	406.4	381.0	508.2	12.70	72.39
18"	457.0	428.5	571.5	14.27	91.78
20"	508.0	477.8	635.0	15.09	113.57
22"	559.0	539.9	698.5	9.53 (STD)	137.68
24"	610.0	575.0	737.0	17.48	155.12

Dimension for Concentric Reducer and Eccentric Reducer SCH10S - **ASTM A403**



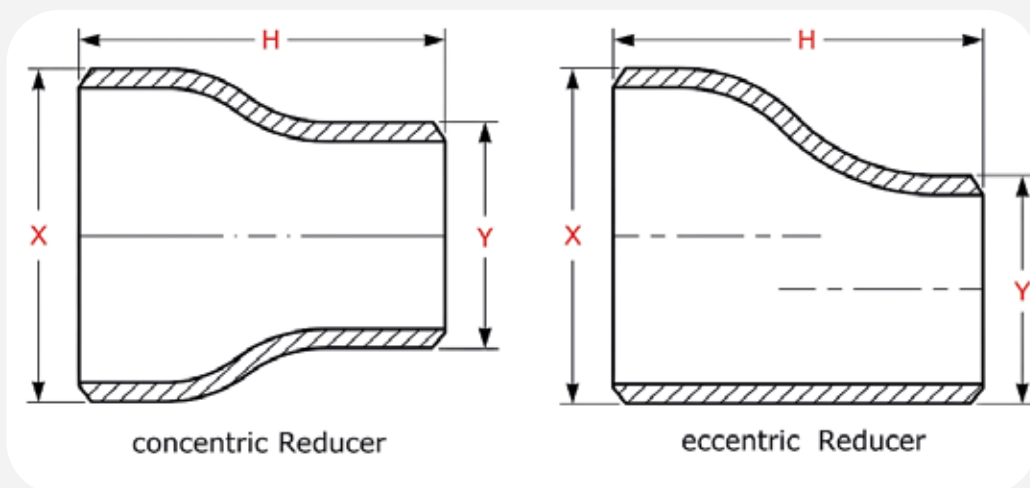
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y	H	X	Y	
3/4"X1/2"	26.7	21.3	38	2.11	2.11	0.05
3/4"X3/8"	26.7	17.3	38	2.11	1.65	0.05
1"X3/4"	33.4	26.7	51	2.77	2.11	0.11
1"X1/2"	33.4	21.3	51	2.77	2.11	0.11
1.1/4"X1"	42.2	33.4	51	2.77	2.77	0.14
1.1/4"X3/4"	42.2	26.7	51	2.77	2.11	0.14
1.1/4"X1/2"	42.2	21.3	51	2.77	2.11	0.14
1.1/2"X1.1/4"	48.3	42.2	64	2.77	2.77	0.20
1.1/2"X1"	48.3	33.4	64	2.77	2.77	0.20
1.1/2"X3/4"	48.3	26.7	64	2.77	2.11	0.20
1.1/2"X1/2"	48.3	21.3	64	2.77	2.11	0.20
2"X1.1/2"	60.3	48.3	76	2.77	2.77	0.30
2"X1.1/4"	60.3	42.2	76	2.77	2.77	0.30
2"X1"	60.3	33.4	76	2.77	2.77	0.30
2"X3/4"	60.3	26.7	76	2.77	2.11	0.30
2.1/2"X2"	73.0	60.3	89	3.05	2.77	0.48
2.1/2"X1.1/2"	73.0	48.3	89	3.05	2.77	0.48
2.1/2"X1.1/4"	73.0	42.2	89	3.05	2.77	0.48
2.1/2"X1"	73.0	33.4	89	3.05	2.77	0.48
3"X2.1/2"	88.9	73.0	89	3.05	3.05	0.58
3"X2"	88.9	60.3	89	3.05	2.77	0.58
3"X1.1/2"	88.9	48.3	89	3.05	2.77	0.58
3"X1.1/4"	88.9	42.2	89	3.05	2.77	0.58
3"X1"	88.9	33.4	89	3.05	2.77	0.58

Dimension for Concentric Reducer and Eccentric Reducer SCH10S - **ASTM A403**



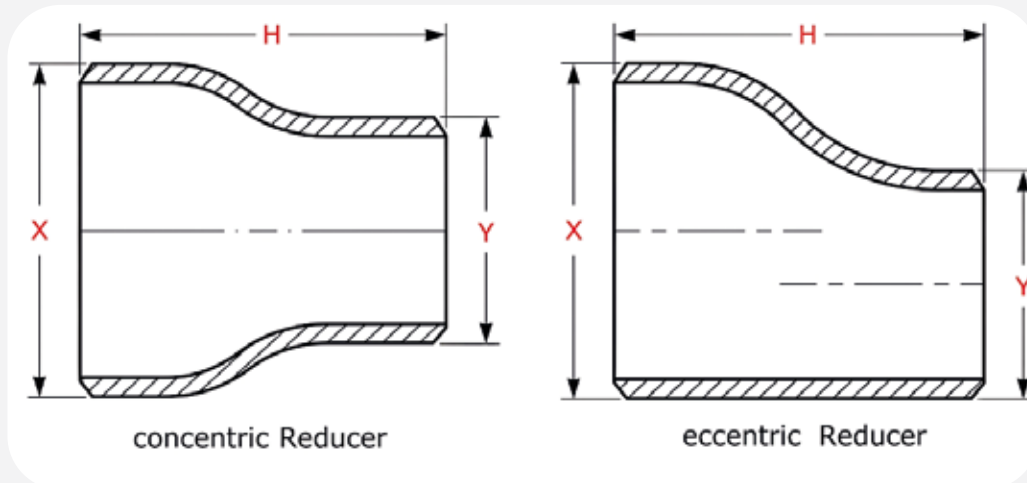
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
4"X3.1/2"	114.3	101.6	102	3.05	3.05	0.87
4"X3"	114.3	88.9	102	3.05	3.05	0.87
4"X2.1/2"	114.3	73.0	102	3.05	3.05	0.87
4"X2"	114.3	60.3	102	3.05	2.77	0.87
4"X1.1/2"	114.3	48.3	102	3.05	2.77	0.87
5"X4"	141.3	114.3	127	3.40	3.05	1.49
5"X3.1/2"	141.3	101.6	127	3.40	3.05	1.49
5"X3"	141.3	88.9	127	3.40	3.05	1.49
5"X2.1/2"	141.3	73.0	127	3.40	3.05	1.49
5"X2"	141.3	60.3	127	3.40	2.77	1.49
6"X5"	168.3	141.3	140	3.40	3.40	1.97
6"X4"	168.3	114.3	140	3.40	3.05	1.97
6"X3.1/2"	168.3	101.6	140	3.40	3.05	1.97
6"X3"	168.3	88.9	140	3.40	3.05	1.97
6"X2.1/2"	168.3	73.0	140	3.40	3.05	1.97
8"X6"	219.1	168.3	152	3.76	3.40	3.09
8"X5"	219.1	141.3	152	3.76	3.40	3.09
8"X4"	219.1	114.3	152	3.76	3.05	3.09
8"X3.1/2"	219.1	101.6	152	3.76	3.05	3.09
10"X8"	273.0	219.1	178	4.19	3.76	5.03
10"X6"	273.0	168.3	178	4.19	3.40	5.03
10"X5"	273.0	141.3	178	4.19	3.40	5.03
10"X4"	273.0	114.3	178	4.19	3.05	5.03

Dimension for Concentric Reducer and Eccentric Reducer SCH10S - **ASTM A403**



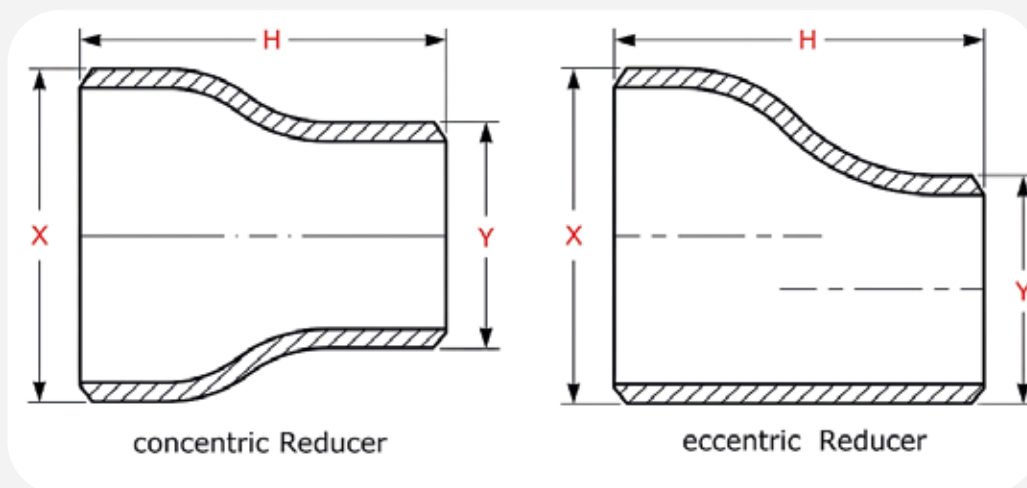
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
12"X10"	323.8	273.0	203	4.57	4.19	7.43
12"X8"	323.8	219.1	203	4.57	3.76	7.43
12"X6"	323.8	168.3	203	4.57	3.40	7.43
12"X5"	323.8	141.3	203	4.57	3.40	7.43
14"X12"	355.6	323.8	330	4.78	4.57	13.89
14"X10"	355.6	273.0	330	4.78	4.19	13.89
14"X8"	355.6	219.1	330	4.78	3.76	13.89
14"X6"	355.6	168.3	330	4.78	3.40	13.89
16"X14"	406.4	355.6	356	4.78	4.78	17.15
16"X12"	406.4	323.8	356	4.78	4.57	17.15
16"X10"	406.4	273.0	356	4.78	4.19	17.15
16"X8"	406.4	219.1	356	4.78	3.76	17.15
18"X16"	457.0	406.4	381	4.78	4.78	20.67
18"X14"	457.0	355.6	381	4.78	4.78	20.67
18"X12"	457.0	323.8	381	4.78	4.57	20.67
18"X10"	457.0	273.0	381	4.78	4.19	20.67
20"X18"	508.0	457.0	508	5.54	4.78	35.49
20"X16"	508.0	406.4	508	5.54	4.78	35.49
20"X14"	508.0	355.6	508	5.54	4.78	35.49
20"X12"	508.0	323.8	508	5.54	4.57	35.49
24"X20"	610.0	508.0	508	6.35	5.54	48.88
24"X18"	610.0	457.0	508	6.35	4.78	48.88
24"X16"	610.0	406.4	508	6.35	4.78	48.88

Dimension for Concentric Reducer and Eccentric Reducer SCH40S - **ASTM A403**



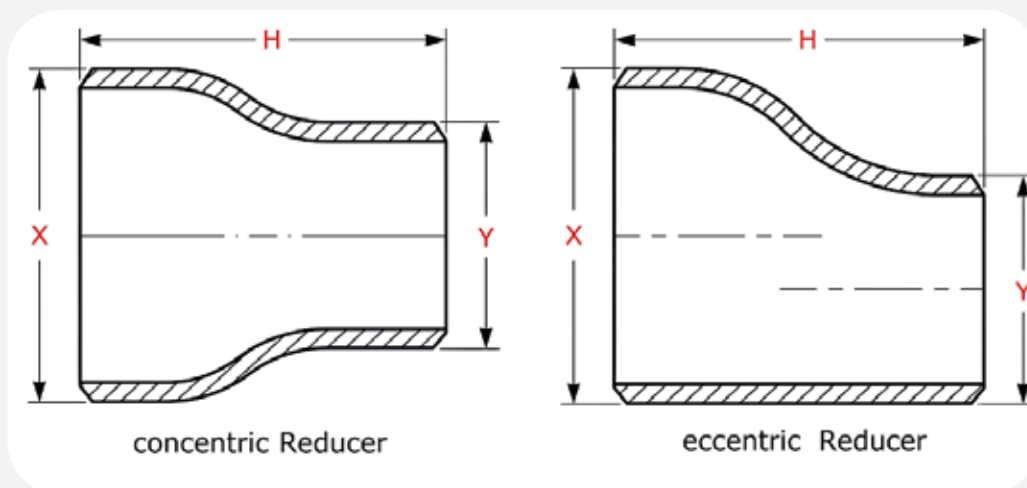
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
3/4"x1/2"	26.7	21.3	38	2.87	2.77	0.07
3/4"x3/8"	26.7	17.3	38	2.87	2.31	0.07
1"x3/4"	33.4	26.7	51	3.38	2.87	0.13
1"x1/2"	33.4	21.3	51	3.38	2.77	0.13
1.1/4"x1"	42.2	33.4	51	3.56	3.38	0.18
1.1/4"x3/4"	42.2	26.7	51	3.56	2.87	0.18
1.1/4"x1/2"	42.2	21.3	51	3.56	2.77	0.18
1.1/2"x1.1/4"	48.3	42.2	64	3.68	3.56	0.26
1.1/2"x1"	48.3	33.4	64	3.68	3.38	0.26
1.1/2"x3/4"	48.3	26.7	64	3.68	2.87	0.26
1.1/2"x1/2"	48.3	21.3	64	3.68	2.77	0.26
2"x1.1/2"	60.3	48.3	76	3.91	3.68	0.42
2"x1.1/4"	60.3	42.2	76	3.91	3.56	0.42
2"x1"	60.3	33.4	76	3.91	3.38	0.42
2"x3/4"	60.3	26.7	76	3.91	2.87	0.42
2.1/2"x2"	73.0	60.3	89	5.16	3.91	0.78
2.1/2"x1.1/2"	73.0	48.3	89	5.16	3.68	0.78
2.1/2"x1.1/4"	73.0	42.2	89	5.16	3.56	0.78
2.1/2"x1"	73.0	33.4	89	5.16	3.38	0.78
3"x2.1/2"	88.9	73.0	89	5.49	5.16	1.02
3"x2"	88.9	60.3	89	5.49	3.91	1.02
3"x1.1/2"	88.9	48.3	89	5.49	3.68	1.02
3"x1.1/4"	88.9	42.2	89	5.49	3.56	1.02
3"x1"	88.9	33.4	89	5.49	3.38	1.02

Dimension for Concentric Reducer and Eccentric Reducer SCH40S - **ASTM A403**



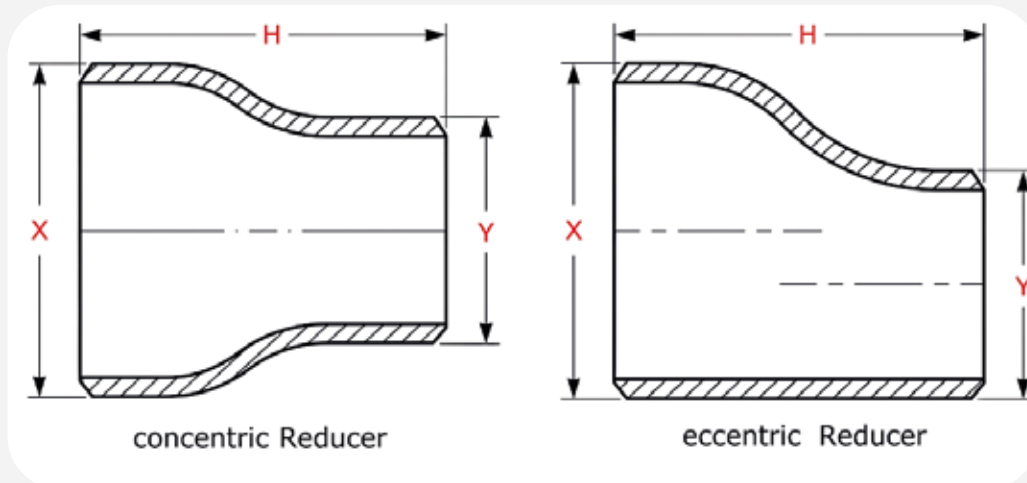
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
4"X3.1/2"	114.3	101.6	102	6.02	5.74	1.67
4"X3"	114.3	88.9	102	6.02	5.49	1.67
4"X2.1/2"	114.3	73.0	102	6.02	5.16	1.67
4"X2"	114.3	60.3	102	6.02	3.91	1.67
4"X1.1/2"	114.3	48.3	102	6.02	3.68	1.67
5"X4"	141.3	114.3	127	6.55	6.02	2.81
5"X3.1/2"	141.3	101.6	127	6.55	5.74	2.81
5"X3"	141.3	88.9	127	6.55	5.49	2.81
5"X2.1/2"	141.3	73.0	127	6.55	5.16	2.81
5"X2"	141.3	60.3	127	6.55	3.91	2.81
6"X5"	168.3	141.3	140	7.11	6.55	4.03
6"X4"	168.3	114.3	140	7.11	6.02	4.03
6"X3.1/2"	168.3	101.6	140	7.11	5.74	4.03
6"X3"	168.3	88.9	140	7.11	5.49	4.03
6"X2.1/2"	168.3	73.0	140	7.11	5.16	4.03
8"X6"	219.1	168.3	152	8.18	7.11	6.58
8"X5"	219.1	141.3	152	8.18	6.55	6.58
8"X4"	219.1	114.3	152	8.18	6.02	6.58
8"X3.1/2"	219.1	101.6	152	8.18	5.74	6.58
10"X8"	273.0	219.1	178	9.27	8.18	10.92
10"X6"	273.0	168.3	178	9.27	7.11	10.92
10"X5"	273.0	141.3	178	9.27	6.55	10.92
10"X4"	273.0	114.3	178	9.27	6.02	10.92

Dimension for Concentric Reducer and Eccentric Reducer SCH40S - **ASTM A403**



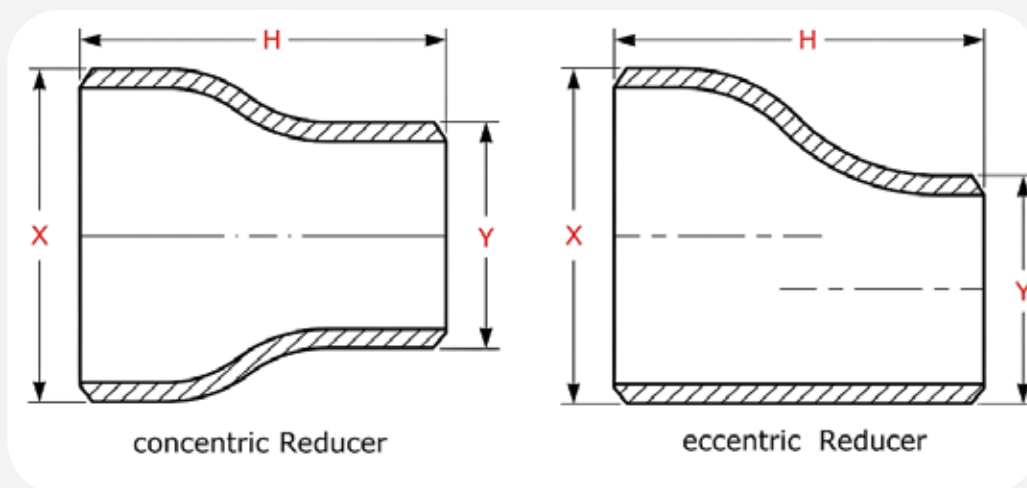
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
12"X10"	323.8	273.0	203	10.31	9.27	15.26
12"X8"	323.8	219.1	203	10.31	8.18	15.26
12"X6"	323.8	168.3	203	10.31	7.11	15.26
12"X5"	323.8	141.3	203	10.31	6.55	15.26
14"X12"	355.6	323.8	330	11.13	10.31	27.32
14"X10"	355.6	273.0	330	11.13	9.27	27.32
14"X8"	355.6	219.1	330	11.13	8.18	27.32
14"X6"	355.6	168.3	330	11.13	7.11	27.32
16"X14"	406.4	355.6	356	12.70	11.13	33.80
16"X12"	406.4	323.8	356	12.70	10.31	33.80
16"X10"	406.4	273.0	356	12.70	9.27	33.80
16"X8"	406.4	219.1	356	12.70	8.18	33.80
18"X16"	457.0	406.4	381	14.27	12.70	40.78
18"X14"	457.0	355.6	381	14.27	11.13	40.78
18"X12"	457.0	323.8	381	14.27	10.31	40.78
18"X10"	457.0	273.0	381	14.27	9.27	40.78
20"X18"	508.0	457.0	508	15.09	14.27	60.57
20"X16"	508.0	406.4	508	15.09	12.70	60.57
20"X14"	508.0	355.6	508	15.09	11.13	60.57
20"X12"	508.0	323.8	508	15.09	10.31	60.57
24"X20"	610.0	508.0	508	17.48	15.09	72.97
24"X18"	610.0	457.0	508	17.48	14.27	72.97
24"X16"	610.0	406.4	508	17.48	12.70	72.97

Dimension for Concentric Reducer and Eccentric Reducer SCH80S - **ASTM A403**



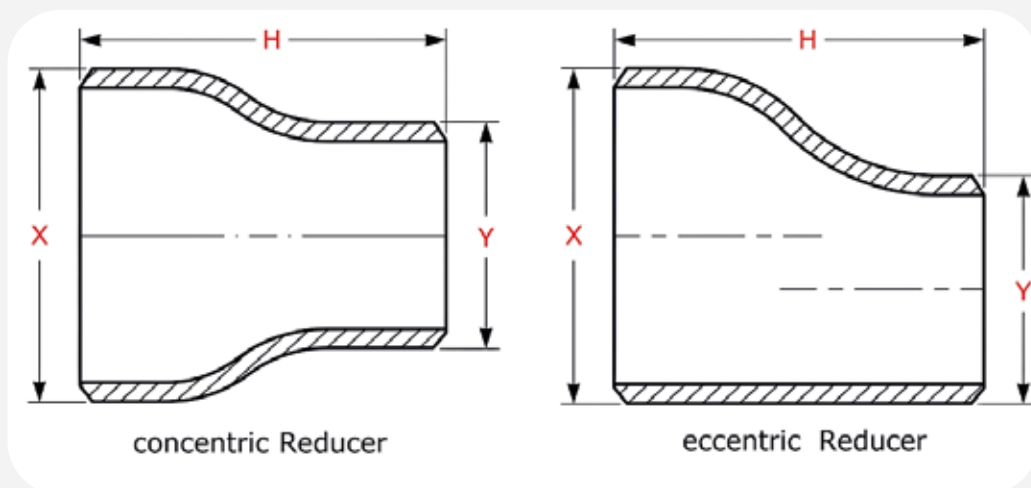
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
3/4"x1/2"	26.7	21.3	38	3.91	3.73	0.08
3/4"x3/8"	26.7	17.3	38	3.91	3.20	0.08
1"x3/4"	33.4	26.7	51	4.55	3.91	0.17
1"x1/2"	33.4	21.3	51	4.55	3.73	0.17
1.1/4"x1"	42.2	33.4	51	4.85	4.55	0.23
1.1/4"x3/4"	42.2	26.7	51	4.85	3.91	0.23
1.1/4"x1/2"	42.2	21.3	51	4.85	3.73	0.23
1.1/2"x1.1/4"	48.3	42.2	64	5.08	4.85	0.35
1.1/2"x1"	48.3	33.4	64	5.08	4.55	0.35
1.1/2"x3/4"	48.3	26.7	64	5.08	3.91	0.35
1.1/2"x1/2"	48.3	21.3	64	5.08	3.73	0.35
2"x1.1/2"	60.3	48.3	76	5.54	5.08	0.58
2"x1.1/4"	60.3	42.2	76	5.54	4.85	0.58
2"x1"	60.3	33.4	76	5.54	4.55	0.58
2"x3/4"	60.3	26.7	76	5.54	3.91	0.58
2.1/2"x2"	73.0	60.3	89	7.01	5.54	1.03
2.1/2"x1.1/2"	73.0	48.3	89	7.01	5.08	1.03
2.1/2"x1.1/4"	73.0	42.2	89	7.01	4.85	1.03
2.1/2"x1"	73.0	33.4	89	7.01	4.55	1.03
3"x2.1/2"	88.9	73.0	89	7.62	7.01	1.38
3"x2"	88.9	60.3	89	7.62	5.54	1.38
3"x1.1/2"	88.9	48.3	89	7.62	5.08	1.38
3"x1.1/4"	88.9	42.2	89	7.62	4.85	1.38
3"x1"	88.9	33.4	89	7.62	4.55	1.38

Dimension for Concentric Reducer and Eccentric Reducer SCH80S - **ASTM A403**



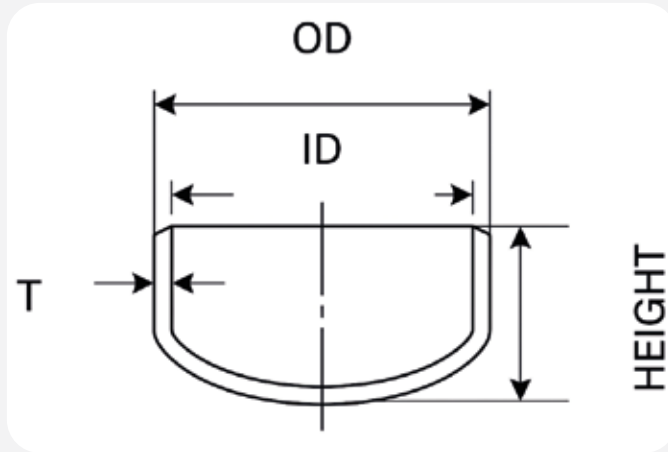
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
4"X3.1/2"	114.3	101.6	102	8.56	8.08	2.32
4"X3"	114.3	88.9	102	8.56	7.62	2.32
4"X2.1/2"	114.3	73.0	102	8.56	7.01	2.32
4"X2"	114.3	60.3	102	8.56	5.54	2.32
4"X1.1/2"	114.3	48.3	102	8.56	5.08	2.32
5"X4"	141.3	114.3	127	9.53	8.56	4.00
5"X3.1/2"	141.3	101.6	127	9.53	8.08	4.00
5"X3"	141.3	88.9	127	9.53	7.62	4.00
5"X2.1/2"	141.3	73.0	127	9.53	7.01	4.00
5"X2"	141.3	60.3	127	9.53	5.54	4.00
6"X5"	168.3	141.3	140	10.97	9.53	6.06
6"X4"	168.3	114.3	140	10.97	8.56	6.06
6"X3.1/2"	168.3	101.6	140	10.97	8.08	6.06
6"X3"	168.3	88.9	140	10.97	7.62	6.06
6"X2.1/2"	168.3	73.0	140	10.97	7.01	6.06
8"X6"	219.1	168.3	152	12.70	10.97	10.00
8"X5"	219.1	141.3	152	12.70	9.53	10.00
8"X4"	219.1	114.3	152	12.70	8.56	10.00
8"X3.1/2"	219.1	101.6	152	12.70	8.08	10.00
10"X8"	273.0	219.1	178	15.09	12.70	14.77
10"X6"	273.0	168.3	178	15.09	10.97	14.77
10"X5"	273.0	141.3	178	15.09	9.53	14.77
10"X4"	273.0	114.3	178	15.09	8.56	14.77

Dimension for Concentric Reducer and Eccentric Reducer SCH80S - **ASTM A403**



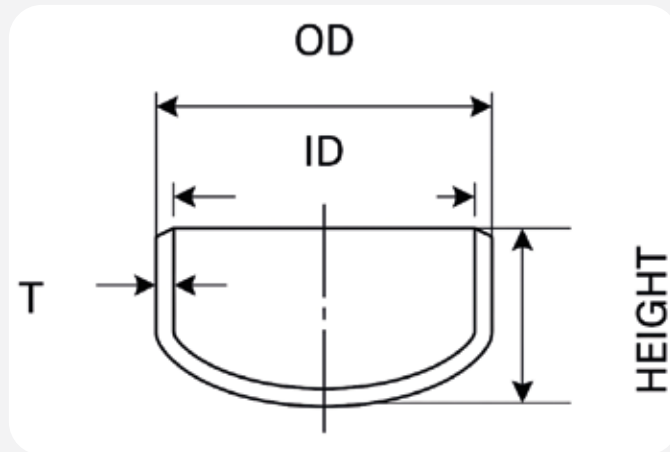
NOMINAL PIPE SIZE	OD AT BEVEL		END TO END	NOMINAL WALL THICKNESS		APPROXIMATE WEIGHT
	X	Y		X	Y	
12"X10"	323.8	273.0	203	17.48	15.09	20.13
12"X8"	323.8	219.1	203	17.48	12.70	20.13
12"X6"	323.8	168.3	203	17.48	10.97	20.13
12"X5"	323.8	141.3	203	17.48	9.53	20.13
14"X12"	355.6	323.8	330	19.05	17.48	36.07
14"X10"	355.6	273.0	330	19.05	15.09	36.07
14"X8"	355.6	219.1	330	19.05	12.70	36.07
14"X6"	355.6	168.3	330	19.05	10.97	36.07
16"X14"	406.4	355.6	356	21.44	19.05	44.68
16"X12"	406.4	323.8	356	21.44	17.48	44.68
16"X10"	406.4	273.0	356	21.44	15.09	44.68
16"X8"	406.4	219.1	356	21.44	12.70	44.68
18"X16"	457.0	406.4	381	23.88	21.44	53.96
18"X14"	457.0	355.6	381	23.88	19.05	53.96
18"X12"	457.0	323.8	381	23.88	17.48	53.96
18"X10"	457.0	273.0	381	23.88	15.09	53.96
20"X18"	508.0	457.0	508	26.19	23.88	80.21
20"X16"	508.0	406.4	508	26.19	21.44	80.21
20"X14"	508.0	355.6	508	26.19	19.05	80.21
20"X12"	508.0	323.8	508	26.19	17.48	80.21
24"X20"	610.0	508.0	508	30.95	26.19	96.72
24"X18"	610.0	457.0	508	30.95	23.88	96.72
24"X16"	610.0	406.4	508	30.95	21.44	96.72

Dimension for END CAP SCH10S - **ASTM A403**



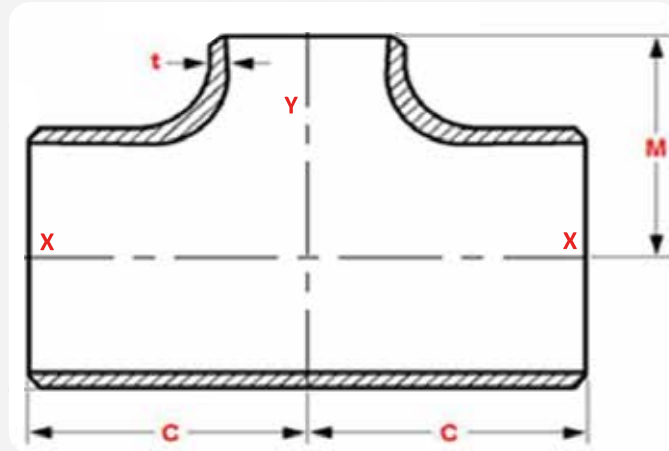
NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	HEIGHT (mm)	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)		(T)	(KG)
1/2"	21.3	17.1	25.4	2.11	0.03
3/4"	26.7	22.5	25.4	2.11	0.05
1"	33.4	27.9	38.0	2.77	0.08
1.1/4"	42.2	36.7	38.0	2.77	0.10
1.1/2"	48.3	42.8	38.0	2.77	0.11
2"	60.3	54.8	38.0	2.77	0.13
2.1/2"	73.0	66.9	38.0	3.05	0.19
3"	88.9	82.8	51.0	3.05	0.25
4"	114.3	108.2	64.0	3.05	0.68
5"	141.3	134.5	76.0	3.40	1.11
6"	168.3	161.5	89.0	3.40	1.42
8"	219.1	211.6	102.0	3.76	2.38
10"	273.0	264.6	127.0	4.19	4.45
12"	323.8	314.7	152.0	4.57	7.50
14"	355.6	346.0	165.0	4.78	8.17
16"	406.4	396.8	178.0	4.78	10.67
18"	457.0	447.4	203.0	4.78	13.00
20"	508.0	496.9	229.0	5.54	17.00
24"	610.0	597.3	267.0	6.35	26.00

Dimension for END CAP SCH40S - **ASTM A403**



NOMINAL PIPE SIZE	OUTSIDE DIAMETER	INSIDE DIAMETER	HEIGHT (mm)	NOMINAL WALL THICKNESS	APPROXIMATE WEIGHT
	OD (mm)	ID (mm)		(T)	(KG)
1/2"	21.3	15.8	25.4	2.77	0.04
3/4"	26.7	21.0	25.4	2.87	0.07
1"	33.4	26.6	38.0	3.38	0.10
1.1/4"	42.2	35.1	38.0	3.56	0.18
1.1/2"	48.3	40.9	38.0	3.68	0.20
2"	60.3	52.5	38.0	3.91	0.23
2.1/2"	73.0	62.7	38.0	5.16	0.27
3"	88.9	77.9	51.0	5.49	0.42
4"	114.3	102.3	64.0	6.02	1.14
5"	141.3	128.2	76.0	6.55	2.13
6"	168.3	154.1	89.0	7.11	3.23
8"	219.1	202.7	102.0	8.18	5.19
10"	273.1	254.6	127.0	9.27	9.00
12"	323.8	304.7	152.0	10.31	15.00
14"	355.6	333.3	165.0	11.13	16.00
16"	406.4	381.0	178.0	12.70	21.00
18"	457.0	428.5	203.0	14.27	26.00
20"	508.0	477.8	229.0	15.09	34.00
24"	610.0	575.0	267.0	17.48	52.00

Dimension for Reducing Tee SCH10S - **ASTM A403**



NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
1/2"X3/8"	21.3	17.0	2.11	1.65	25	25	0.06
1/2"X1/4"	21.3	14.0	2.11	1.65	25	25	0.06
3/4"X1/2"	26.7	21.3	2.11	2.11	29	29	0.09
3/4"X3/8"	26.7	17.0	2.11	1.65	29	29	0.09
1"X3/4"	33.4	26.7	2.77	2.11	38	38	0.20
1"X1/2"	33.4	21.3	2.77	2.11	38	38	0.20
1.1/4"X1"	42.2	33.4	2.77	2.77	48	48	0.33
1.1/4"X3/4"	42.2	26.7	2.77	2.11	48	48	0.33
1.1/4"X1/2"	42.2	21.3	2.77	2.11	48	48	0.33
1.1/2"X1.1/4"	48.3	42.2	2.77	2.77	57	57	0.45
1.1/2"X1"	48.3	33.4	2.77	2.77	57	57	0.45
1.1/2"X3/4"	48.3	26.7	2.77	2.11	57	57	0.45
1.1/2"X1/2"	48.3	21.3	2.77	2.11	57	57	0.45
2"X1.1/2"	60.3	48.3	2.77	2.77	64	60	0.64
2"X1.1/4"	60.3	42.2	2.77	2.77	64	57	0.64
2"X1"	60.3	33.4	2.77	2.77	64	51	0.64
2"X3/4"	60.3	26.7	2.77	2.11	64	44	0.64
2.1/2"X2"	73.0	60.3	3.05	2.77	76	70	1.02
2.1/2"X1.1/2"	73.0	48.3	3.05	2.77	76	67	1.02
2.1/2"X1.1/4"	73.0	42.2	3.05	2.77	76	64	1.02
2.1/2"X1"	73.0	33.4	3.05	2.77	76	57	1.02

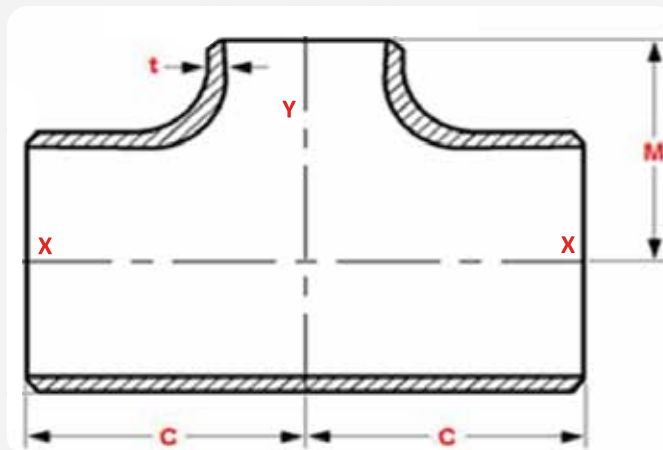
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 (81)8239-0421 - (81)8239-0422
 (81)8239-0235 - (81)8239-0772

México
 (55) 9347-1112

Guadalajara
 (33) 4521-0369

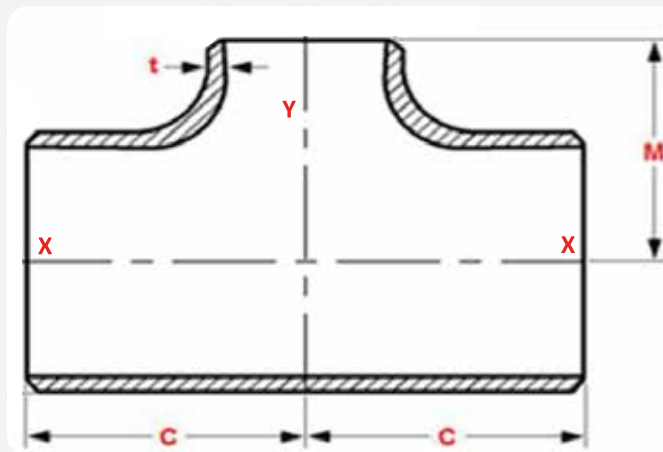
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Dimension for Reducing Tee SCH10S - **ASTM A403**



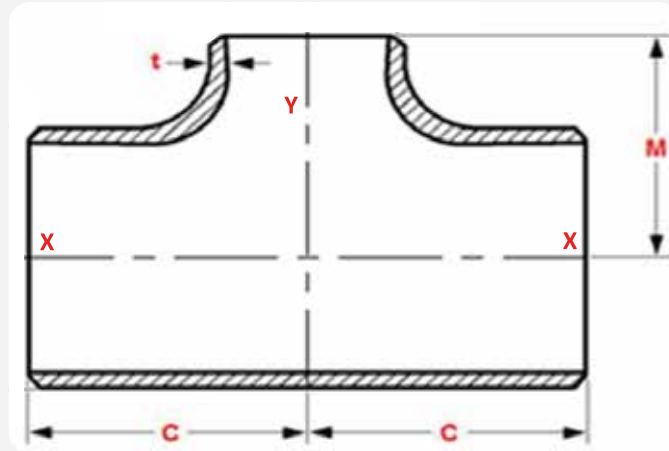
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
3"X2.1/2"	88.9	73.0	3.05	3.05	86	83	1.41
3"X2"	88.9	60.3	3.05	2.77	86	76	1.41
3"X1.1/2"	88.9	48.3	3.05	2.77	86	73	1.41
3"X1.1/4"	88.9	42.2	3.05	2.77	86	70	1.41
3.1/2"X3"	101.6	88.9	3.05	3.05	95	92	1.79
3.1/2"X2.1/2"	101.6	73.0	3.05	3.05	95	89	1.79
3.1/2"X2"	101.6	60.3	3.05	2.77	95	83	1.79
3.1/2"X1.1/2"	101.6	48.3	3.05	2.77	95	79	1.79
4"X3.1/2"	114.3	101.6	3.05	3.05	105	102	2.24
4"X3"	114.3	88.9	3.05	3.05	105	98	2.24
4"X2.1/2"	114.3	73.0	3.05	3.05	105	95	2.24
4"X2"	114.3	60.3	3.05	2.77	105	89	2.24
4"X1.1/2"	114.3	48.3	3.05	2.77	105	86	2.24
5"X4"	141.3	114.3	3.40	3.05	124	117	3.65
5"X3.1/2"	141.3	101.6	3.40	3.05	124	114	3.65
5"X3"	141.3	88.9	3.40	3.05	124	111	3.65
5"X2.1/2"	141.3	73.0	3.40	3.05	124	108	3.65
5"X2"	141.3	60.3	3.40	2.77	124	105	3.65
6"X5	168.3	141.3	3.40	3.40	143	137	5.03
6"X4"	168.3	114.3	3.40	3.05	143	130	5.03
6"X3.1/2"	168.3	101.6	3.40	3.05	143	127	5.03
6"X3"	168.3	88.9	3.40	3.05	143	124	5.03
6"X2.1/2"	168.3	73.0	3.40	3.05	143	121	5.03

Dimension for Reducing Tee SCH10S - **ASTM A403**



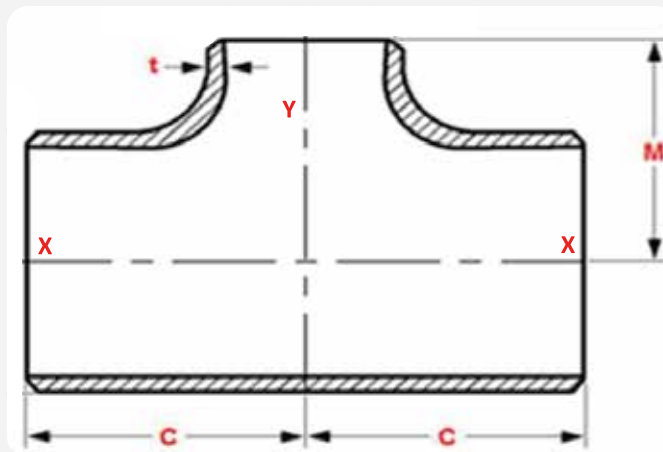
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
8"X6"	291.1	168.3	3.76	3.40	178	168	9.04
8"X5"	291.1	141.3	3.76	3.40	178	162	9.04
8"X4"	291.1	114.3	3.76	3.05	178	156	9.04
8"X3.1/2"	291.1	101.6	3.76	3.05	178	152	9.04
10"X8"	273.0	219.1	4.19	3.76	216	203	15.27
10"X6"	273.0	168.3	4.19	3.40	216	194	15.27
10"X5"	273.0	141.3	4.19	3.40	216	191	15.27
10"X4"	273.0	114.3	4.19	3.05	216	184	15.27
12"X10"	323.8	273.0	4.57	4.19	254	241	23.25
12"X8"	323.8	219.1	4.57	3.76	254	229	23.25
12"X6"	323.8	168.3	4.57	3.40	254	219	23.25
12"X5"	323.8	141.3	4.57	3.40	254	216	23.25
14"X12"	355.6	323.8	4.78	4.57	279	270	29.36
14"X10"	355.6	273.0	4.78	4.19	279	257	29.36
14"X8"	355.6	219.1	4.78	3.76	279	248	29.36
14"X6"	355.6	168.3	4.78	3.40	279	238	29.36
16"X14"	406.4	355.6	4.78	4.78	305	305	36.74
16"X12"	406.4	323.8	4.78	4.57	305	295	36.74
16"X10"	406.4	273.0	4.78	4.19	305	283	36.74
16"X8"	406.4	219.1	4.78	3.76	305	273	36.74
16"X6"	406.4	168.3	4.78	3.40	305	264	36.74

Dimension for Reducing Tee SCH10S - **ASTM A403**



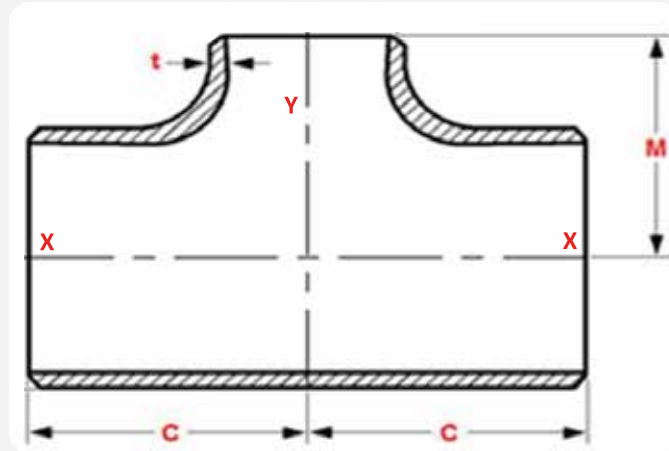
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
18"X16"	457.0	406.4	4.78	4.78	343	330	46.52
18"X14"	457.0	355.6	4.78	4.78	343	330	46.52
18"X12"	457.0	323.8	4.78	4.57	343	321	46.52
18"X10"	457.0	273.0	4.78	4.19	343	308	46.52
18"X8"	457.0	219.1	4.78	3.76	343	298	46.52
20"X18"	508.0	457.0	5.54	4.78	381	368	66.55
20"X16"	508.0	406.4	5.54	4.78	381	356	66.55
20"X14"	508.0	355.6	5.54	4.78	381	356	66.55
20"X10"	508.0	273.0	5.54	4.19	381	333	66.55
20"X8"	508.0	219.1	5.54	3.76	381	324	66.55
24"X20"	610.0	508.0	6.35	5.54	432	432	103.91
24"X18"	610.0	457.0	6.35	4.78	432	419	103.91
24"X16"	610.0	406.4	6.35	4.78	432	406	103.91
24"X14"	610.0	355.6	6.35	4.78	432	406	103.91
24"X12"	610.0	323.8	6.35	4.57	432	397	103.91
24"X10"	610.0	273.0	6.35	4.19	432	384	103.91

Dimension for Reducing Tee SCH40S - **ASTM A403**



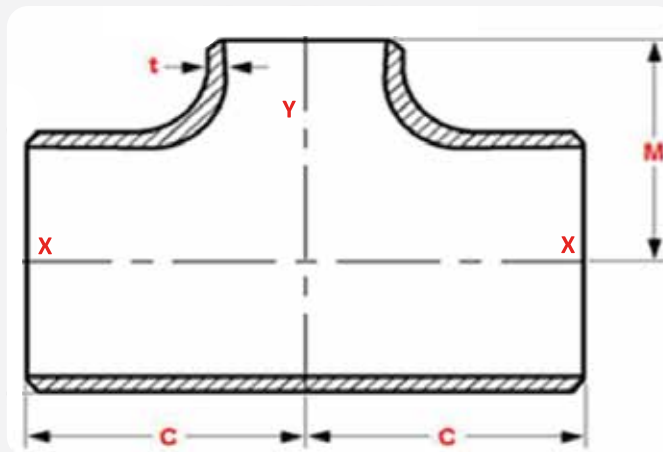
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
1/2"X3/8"	21.3	17.0	2.77	2.31	25	25	0.08
1/2"X1/4"	21.3	14.0	2.77	2.24	25	25	0.08
3/4"X1/2"	26.7	21.3	2.87	2.77	29	29	0.12
3/4"X3/8"	26.7	17.0	2.87	2.31	29	29	0.12
1"X3/4"	33.4	26.7	3.38	2.87	38	38	0.24
1"X1/2"	33.4	21.3	3.38	2.77	38	38	0.24
1.1/4"X1"	42.2	33.4	3.56	3.38	48	48	0.41
1.1/4"X3/4"	42.2	26.7	3.56	2.87	48	48	0.41
1.1/4"X1/2"	42.2	21.3	3.56	2.77	48	48	0.41
1.1/2"X1.1/4"	48.3	42.2	3.68	3.56	57	57	0.59
1.1/2"X1"	48.3	33.4	3.68	3.38	57	57	0.59
1.1/2"X3/4"	48.3	26.7	3.68	2.87	57	57	0.59
1.1/2"X1/2"	48.3	21.3	3.68	2.77	57	57	0.59
2"X1.1/2"	60.3	48.3	3.91	3.68	64	60	0.89
2"X1.1/4"	60.3	42.2	3.91	3.56	64	57	0.89
2"X1"	60.3	33.4	3.91	3.38	64	51	0.89
2"X3/4"	60.3	26.7	3.91	2.87	64	44	0.89
2.1/2"X2"	73.0	60.3	5.16	3.91	76	70	1.67
2.1/2"X1.1/2"	73.0	48.3	5.16	3.68	76	67	1.67
2.1/2"X1.1/4"	73.0	42.2	5.16	3.56	76	64	1.67
2.1/2"X1"	73.0	33.4	5.16	3.38	76	57	1.67

Dimension for Reducing Tee SCH40S - **ASTM A403**



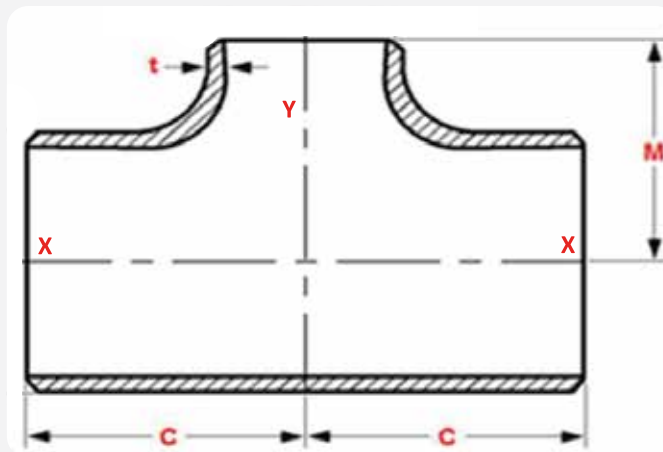
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
3"X2.1/2"	88.9	73.0	5.49	5.16	86	83	2.47
3"X2"	88.9	60.3	5.49	3.91	86	76	2.47
3"X1.1/2"	88.9	48.3	5.49	3.68	86	73	2.47
3"X1.1/4"	88.9	42.2	5.49	3.56	86	70	2.47
3.1/2"X3"	101.6	88.9	5.74	5.49	95	92	3.28
3.1/2"X2.1/2"	101.6	73.0	5.74	5.16	95	89	3.28
3.1/2"X2"	101.6	60.3	5.74	3.91	95	83	3.28
3.1/2"X1.1/2"	101.6	48.3	5.74	3.68	95	79	3.28
4"X3.1/2"	114.3	101.6	6.02	5.74	105	102	4.29
4"X3"	114.3	88.9	6.02	5.49	105	98	4.29
4"X2.1/2"	114.3	73.0	6.02	5.16	105	95	4.29
4"X2"	114.3	60.3	6.02	3.91	105	89	4.29
4"X1.1/2"	114.3	48.3	6.02	3.68	105	86	4.29
5"X4"	141.3	114.3	6.55	6.02	124	117	6.87
5"X3.1/2"	141.3	101.6	6.55	5.74	124	114	6.87
5"X3"	141.3	88.9	6.55	5.49	124	111	6.87
5"X2.1/2"	141.3	73.0	6.55	5.16	124	108	6.87
5"X2"	141.3	60.3	6.55	3.91	124	105	6.87
6"X5	168.3	141.3	7.11	6.55	143	137	10.28
6"X4"	168.3	114.3	7.11	6.02	143	130	10.28
6"X3.1/2"	168.3	101.6	7.11	5.74	143	127	10.28
6"X3"	168.3	88.9	7.11	5.49	143	124	10.28
6"X2.1/2"	168.3	73.0	7.11	5.16	143	121	10.28

Dimension for Reducing Tee SCH40S - **ASTM A403**



NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
8"X6"	291.1	168.3	8.18	7.11	178	168	19.27
8"X5"	291.1	141.3	8.18	6.55	178	162	19.27
8"X4"	291.1	114.3	8.18	6.02	178	156	19.27
8"X3.1/2"	291.1	101.6	8.18	5.74	178	152	19.27
10"X8"	273.0	219.1	9.27	8.18	216	203	33.14
10"X6"	273.0	168.3	9.27	7.11	216	194	33.14
10"X5"	273.0	141.3	9.27	6.55	216	191	33.14
10"X4"	273.0	114.3	9.27	6.02	216	184	33.14
12"X10"	323.8	273.0	10.31	9.27	254	241	47.74
12"X8"	323.8	219.1	10.31	8.18	254	229	47.74
12"X6"	323.8	168.3	10.31	7.11	254	219	47.74
12"X5"	323.8	141.3	10.31	6.55	254	216	47.74
14"X12"	355.6	323.8	11.13	10.31	279	270	57.74
14"X10"	355.6	273.0	11.13	9.27	279	257	57.74
14"X8"	355.6	219.1	11.13	8.18	279	248	57.74
14"X6"	355.6	168.3	11.13	7.11	279	238	57.74
16"X14"	406.4	355.6	12.70	11.13	305	305	72.39
16"X12"	406.4	323.8	12.70	10.31	305	295	72.39
16"X10"	406.4	273.0	12.70	9.27	305	283	72.39
16"X8"	406.4	219.1	12.70	8.18	305	273	72.39
16"X6"	406.4	168.3	12.70	7.11	305	264	72.39

Dimension for Reducing Tee SCH40S - **ASTM A403**



NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
8"X6"	291.1	168.3	8.18	7.11	178	168	19.27
8"X5"	291.1	141.3	8.18	6.55	178	162	19.27
8"X4"	291.1	114.3	8.18	6.02	178	156	19.27
8"X3.1/2"	291.1	101.6	8.18	5.74	178	152	19.27
10"X8"	273.0	219.1	9.27	8.18	216	203	33.14
10"X6"	273.0	168.3	9.27	7.11	216	194	33.14
10"X5"	273.0	141.3	9.27	6.55	216	191	33.14
10"X4"	273.0	114.3	9.27	6.02	216	184	33.14
12"X10"	323.8	273.0	10.31	9.27	254	241	47.74
12"X8"	323.8	219.1	10.31	8.18	254	229	47.74
12"X6"	323.8	168.3	10.31	7.11	254	219	47.74
12"X5"	323.8	141.3	10.31	6.55	254	216	47.74
14"X12"	355.6	323.8	11.13	10.31	279	270	57.74
14"X10"	355.6	273.0	11.13	9.27	279	257	57.74
14"X8"	355.6	219.1	11.13	8.18	279	248	57.74
14"X6"	355.6	168.3	11.13	7.11	279	238	57.74
16"X14"	406.4	355.6	12.70	11.13	305	305	72.39
16"X12"	406.4	323.8	12.70	10.31	305	295	72.39
16"X10"	406.4	273.0	12.70	9.27	305	283	72.39
16"X8"	406.4	219.1	12.70	8.18	305	273	72.39
16"X6"	406.4	168.3	12.70	7.11	305	264	72.39

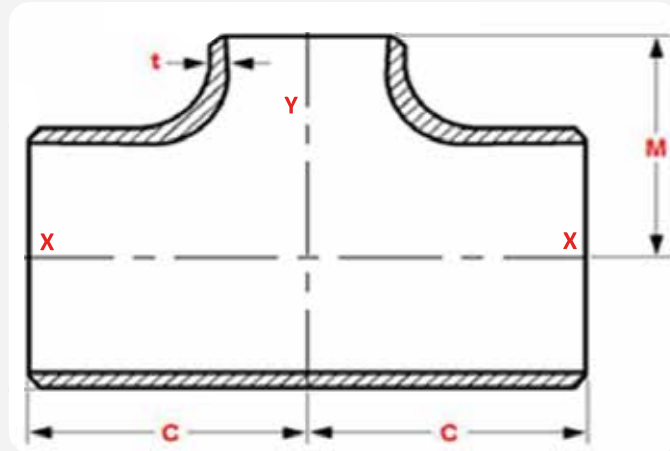
Matriz / cedis
 (81)8239-0074 - (81)8239-0075
 (81)8239-0421 - (81)8239-0422
 (81)8239-0235 - (81)8239-0772

México
 (55) 9347-1112

Guadalajara
 (33) 4521-0369

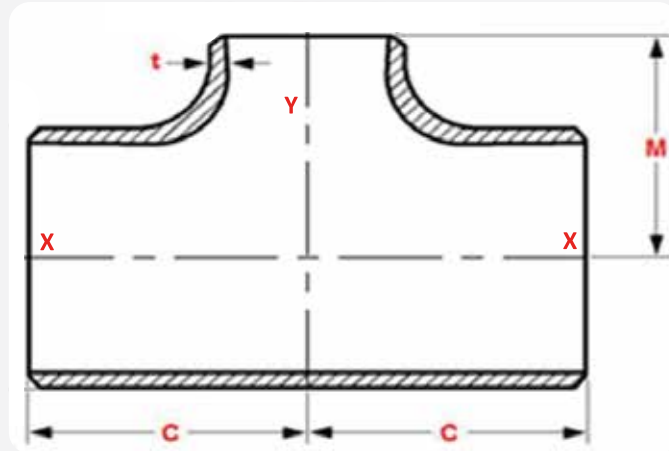
acerosroscados.com.mx

Dimension for Reducing Tee SCH40S - **ASTM A403**



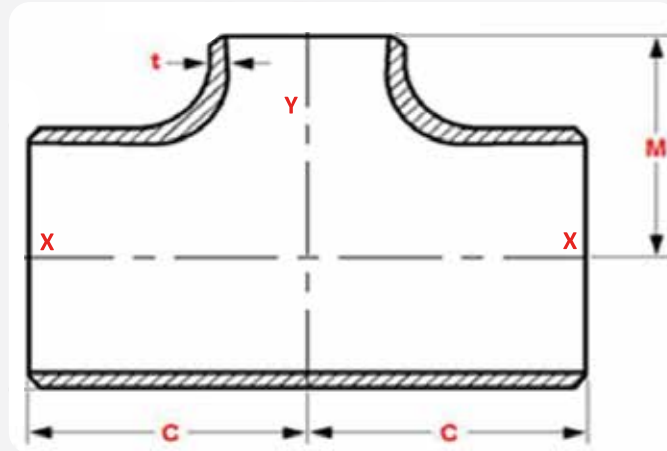
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
18"X16"	457.0	406.4	14.27	12.70	343	330	91.78
18"X14"	457.0	355.6	14.27	11.13	343	330	91.78
18"X12"	457.0	323.8	14.27	10.31	343	321	91.78
18"X10"	457.0	273.0	14.27	9.27	343	308	91.78
18"X8"	457.0	219.1	14.27	8.18	343	298	91.78
20"X18"	508.0	457.0	15.09	14.27	381	368	113.57
20"X16"	508.0	406.4	15.09	12.70	381	356	113.57
20"X14"	508.0	355.6	15.09	11.13	381	356	113.57
20"X10"	508.0	273.0	15.09	9.27	381	333	113.57
20"X8"	508.0	219.1	15.09	8.18	381	324	113.57
24"X20"	610.0	508.0	17.48	15.09	432	432	155.12
24"X18"	610.0	457.0	17.48	14.27	432	419	155.12
24"X16"	610.0	406.4	17.48	12.70	432	406	155.12
24"X14"	610.0	355.6	17.48	11.13	432	406	155.12
24"X12"	610.0	323.8	17.48	10.31	432	397	155.12
24"X10"	610.0	273.0	17.48	9.27	432	384	155.12

Dimension for Reducing Tee SCH80S - **ASTM A403**



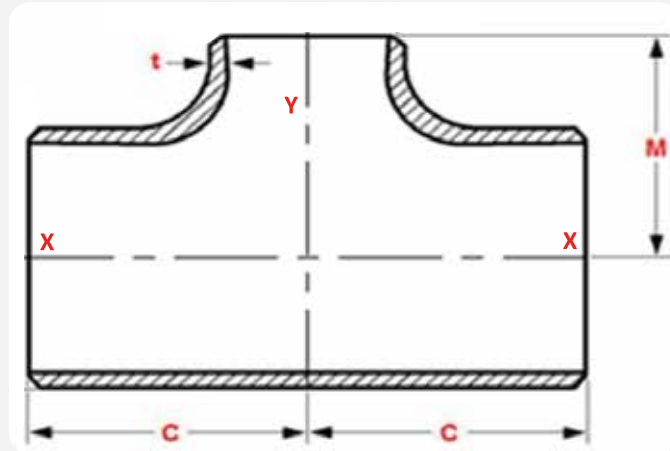
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
1/2"X3/8"	21.3	17.0	3.73	3.20	25	25	0.10
1/2"X1/4"	21.3	14.0	3.73	3.02	25	25	0.10
3/4"X1/2"	26.7	21.3	3.91	3.73	29	29	0.16
3/4"X3/8"	26.7	17.0	3.91	3.20	29	29	0.16
1"X3/4"	33.4	26.7	4.55	3.91	38	38	0.31
1"X1/2"	33.4	21.3	4.55	3.73	38	38	0.31
1.1/4"X1"	42.2	33.4	4.85	4.55	48	48	0.55
1.1/4"X3/4"	42.2	26.7	4.85	3.91	48	48	0.55
1.1/4"X1/2"	42.2	21.3	4.85	3.73	48	48	0.55
1.1/2"X1.1/4"	48.3	42.2	5.08	4.85	57	57	0.79
1.1/2"X1"	48.3	33.4	5.08	4.55	57	57	0.79
1.1/2"X3/4"	48.3	26.7	5.08	3.91	57	57	0.79
1.1/2"X1/2"	48.3	21.3	5.08	3.73	57	57	0.79
2"X1.1/2"	60.3	48.3	5.54	5.08	64	60	1.22
2"X1.1/4"	60.3	42.2	5.54	4.85	64	57	1.22
2"X1"	60.3	33.4	5.54	4.55	64	51	1.22
2"X3/4"	60.3	26.7	5.54	3.91	64	44	1.22
2.1/2"X2"	73.0	60.3	7.01	5.54	76	70	2.21
2.1/2"X1.1/2"	73.0	48.3	7.01	5.18	76	67	2.21
2.1/2"X1.1/4"	73.0	42.2	7.01	4.85	76	64	2.21
2.1/2"X1"	73.0	33.4	7.01	4.55	76	57	2.21

Dimension for Reducing Tee SCH80S - **ASTM A403**



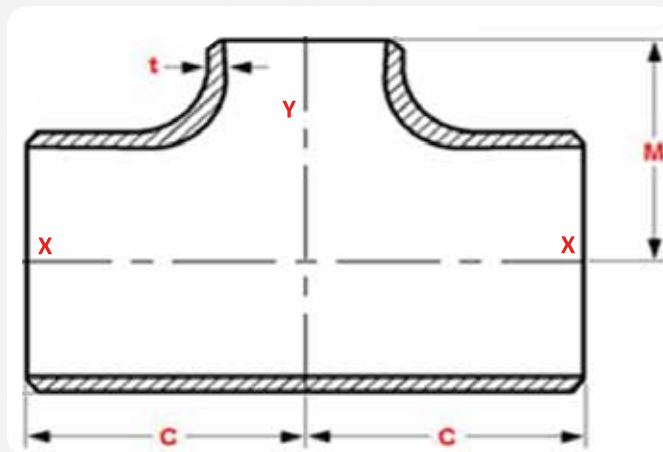
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
3"X2.1/2"	88.9	73.0	7.62	7.01	86	83	3.34
3"X2"	88.9	60.3	7.62	5.54	86	76	3.34
3"X1.1/2"	88.9	48.3	7.62	5.08	86	73	3.34
3"X1.1/4"	88.9	42.2	7.62	4.55	86	70	3.34
3.1/2"X3"	101.6	88.9	8.08	7.62	95	92	4.50
3.1/2"X2.1/2"	101.6	73.0	8.08	7.01	95	89	4.50
3.1/2"X2"	101.6	60.3	8.08	5.54	95	83	4.50
3.1/2"X1.1/2"	101.6	48.3	8.08	5.08	95	79	4.50
4"X3.1/2"	114.3	101.6	8.56	8.08	105	102	5.96
4"X3"	114.3	88.9	8.56	7.62	105	98	5.96
4"X2.1/2"	114.3	73.0	8.56	7.01	105	95	5.96
4"X2"	114.3	60.3	8.56	5.54	105	89	5.96
4"X1.1/2"	114.3	48.3	8.56	5.08	105	86	5.96
5"X4"	141.3	114.3	9.53	8.56	124	117	9.77
5"X3.1/2"	141.3	101.6	9.53	8.08	124	114	9.77
5"X3"	141.3	88.9	9.53	7.62	124	111	9.77
5"X2.1/2"	141.3	73.0	9.53	7.01	124	108	9.77
5"X2"	141.3	60.3	9.53	5.54	124	105	9.77
6"X5	168.3	141.3	10.97	9.53	143	137	15.49
6"X4"	168.3	114.3	10.97	8.56	143	130	15.49
6"X3.1/2"	168.3	101.6	10.97	8.08	143	127	15.49
6"X3"	168.3	88.9	10.97	7.62	143	124	15.49
6"X2.1/2"	168.3	73.0	10.97	7.01	143	121	15.49

Dimension for Reducing Tee SCH80S - **ASTM A403**



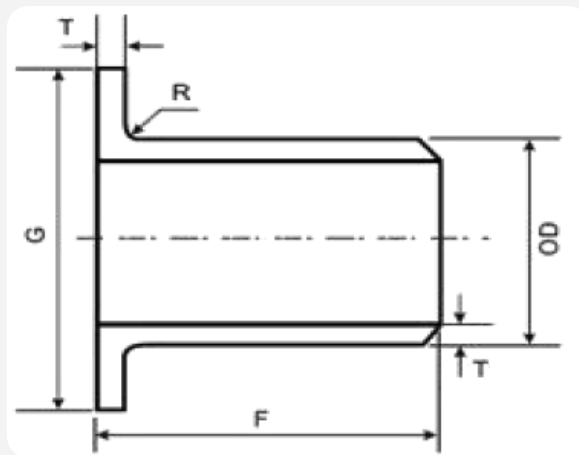
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
8"X6"	291.1	168.3	12.70	10.97	178	168	29.28
8"X5"	291.1	141.3	12.70	9.53	178	162	29.28
8"X4"	291.1	114.3	12.70	8.56	178	156	29.28
8"X3.1/2"	291.1	101.6	12.70	8.08	178	152	29.28
10"X8"	273.0	219.1	15.09	12.70	216	203	44.81
10"X6"	273.0	168.3	15.09	10.97	216	194	44.81
10"X5"	273.0	141.3	15.09	9.53	216	191	44.81
10"X4"	273.0	114.3	15.09	8.56	216	184	44.81
12"X10"	323.8	273.0	17.48	15.09	254	241	62.97
12"X8"	323.8	219.1	17.48	12.70	254	229	62.97
12"X6"	323.8	168.3	17.48	10.97	254	219	62.97
12"X5"	323.8	141.3	17.48	9.53	254	216	62.97
14"X12"	355.6	323.8	19.05	17.48	279	270	76.24
14"X10"	355.6	273.0	19.05	15.09	279	257	76.24
14"X8"	355.6	219.1	19.05	12.70	279	248	76.24
14"X6"	355.6	168.3	19.05	10.97	279	238	76.24
16"X14"	406.4	355.6	21.44	19.05	305	305	95.69
16"X12"	406.4	323.8	21.44	17.48	305	295	95.69
16"X10"	406.4	273.0	21.44	15.09	305	283	95.69
16"X8"	406.4	219.1	21.44	12.70	305	273	95.69
16"X6"	406.4	168.3	21.44	10.97	305	264	95.69

Dimension for Reducing Tee SCH80S - **ASTM A403**



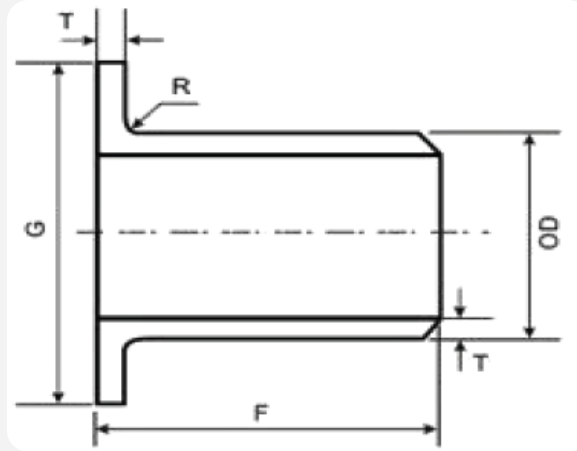
NOMINAL PIPE SIZE	OD AT BEVEL		NOMINAL WALL THICKNESS		CENTER TO END		APPROXIMATE WEIGHT
	X	Y	X	Y	C	M	
18"X16"	457.0	406.4	23.88	21.44	343	330	121.45
18"X14"	457.0	355.6	23.88	19.05	343	330	121.45
18"X12"	457.0	323.8	23.88	17.48	343	321	121.45
18"X10"	457.0	273.0	23.88	15.09	343	308	121.45
18"X8"	457.0	219.1	23.88	12.70	343	298	121.45
20"X18"	508.0	457.0	26.19	23.88	381	368	150.39
20"X16"	508.0	406.4	26.19	21.44	381	356	150.39
20"X14"	508.0	355.6	26.19	19.05	381	356	150.39
20"X10"	508.0	273.0	26.19	15.09	381	333	150.39
20"X8"	508.0	219.1	26.19	12.70	381	324	150.39
24"X20"	610.0	508.0	30.95	26.19	432	432	205.63
24"X18"	610.0	457.0	30.95	23.88	432	419	205.63
24"X16"	610.0	406.4	30.95	21.44	432	406	205.63
24"X14"	610.0	355.6	30.95	19.05	432	406	205.63
24"X12"	610.0	323.8	30.95	17.48	432	397	205.63
24"X10"	610.0	273.0	30.95	15.09	432	384	205.63

Dimension for Stub End SCH10S - **ASTM A403** - MSS SP-43



NOMINAL PIPE SIZE	OD FOR BARREL		SHORT PATTERN LENGTH (F)	RADIUS OF FILLET (R)	DIAMETER OF LAP (G)	NOMINAL WALL THICKNESS (T)	APPROXIMATE WEIGHT
	MAX	MIN					
1/2"	22.8	20.5	51	3	35	2.11	0.07
3/4"	28.1	25.9	51	3	43	2.11	0.09
1"	35.0	32.6	51	3	51	2.77	0.16
1.1/4"	43.6	41.4	51	5	64	2.77	0.22
1.1/2"	49.9	47.5	51	6	73	2.77	0.25
2"	62.4	59.5	64	8	92	2.77	0.43
2.1/2"	75.3	72.2	64	8	105	3.05	0.57
3"	91.3	88.1	64	10	127	3.05	0.72
4"	116.7	113.5	76	11	157	3.05	1.09
5"	144.3	140.5	76	11	186	3.40	1.47
6"	171.3	167.5	89	13	216	3.40	2.15
8"	222.1	218.3	102	13	270	3.76	3.22
10"	277.2	272.3	127	13	324	4.19	5.13
12"	328.0	323.1	152	13	381	4.57	8.16
14"	359.9	354.8	152	13	413	4.78	10.88
16"	411.0	405.6	152	13	470	4.78	12.70
18"	462	456	152	13	533	4.78	17.23
20"	514	507	152	13	584	5.54	21.77
24"	616	609	152	13	692	6.35	27.21

Dimension for Stub End SCH40S - **ASTM A403** - MSS SP-43



NOMINAL PIPE SIZE	OD FOR BARREL		SHORT PATTERN LENGTH (F)	RADIUS OF FILLET (R)	DIAMETER OF LAP (G)	NOMINAL WALL THICKNESS (T)	APPROXIMATE WEIGHT
	MAX	MIN					
1/2"	22.8	20.5	51	3	35	2.77	0.08
3/4"	28.1	25.9	51	3	43	2.87	0.11
1"	35.0	32.6	51	3	51	3.38	0.17
1.1/4"	43.6	41.4	51	5	64	3.56	0.25
1.1/2"	49.9	47.5	51	6	73	3.68	0.31
2"	62.4	59.5	64	8	92	3.91	0.61
2.1/2"	75.3	72.2	64	8	105	5.16	0.80
3"	91.3	88.1	64	10	127	5.49	1.13
4"	116.7	113.5	76	11	157	6.02	1.87
5"	144.3	140.5	76	11	186	6.55	2.79
6"	171.3	167.5	89	13	216	7.11	3.57
8"	222.1	218.3	102	13	270	8.18	6.07
10"	277.2	272.3	127	13	324	9.27	10.07
12"	328.0	323.1	152	13	381	10.31	14.29
14"	359.9	354.8	152	13	413	11.13	17.14
16"	411.0	405.6	152	13	470	12.70	20.41
18"	462	456	152	13	533	14.27	27.21
20"	514	507	152	13	584	15.09	29.94
24"	616	609	152	13	692	17.48	38.55