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Seamless Pipes Chart (Pipewall thickness chart)

NOMINAL PIPE SIZE	OD	SCHEDULE DESIGNATIONS			WALL THICKNESS		WEIGHT		ID	
			ASME		INCH	MM	LBS FOOT	KG/ METER	INCH	MM
1/8 6	0.405	10		10S	0.049	1.24	0.19	0.28	0.307	7.82
	10.3	STD	40	40S	0.068	1.73	0.24	0.37	0.269	6.84
		XS	80	80S	0.095	2.41	0.31	0.47	0.215	5.84
1/4 8	0.540	10		10S	0.065	1.65	0.33	0.49	0.410	10.40
	13.7	STD	40	40S	0.088	2.24	0.43	0.63	0.364	9.22
		XS	80	80S	0.119	3.02	0.54	0.80	0.302	7.66
3/8 10	0.675	10		10S	0.065	1.65	0.42	0.63	0.545	13.80
	17.1	STD	40	40S	0.091	2.31	0.57	0.84	0.493	12.48
		XS	80	80S	0.126	3.20	0.74	1.10	0.423	10.70
1/2 15	0.840	5		5S	0.065	1.65	0.54	0.80	0.710	18.00
	21.3	10		10S	0.083	2.11	0.67	1.00	0.674	17.08
		STD	40	40S	0.109	2.77	0.85	1.27	0.622	15.76
		XS	80	80S	0.147	3.73	1.09	1.62	0.546	13.84
		160			0.188	4.78	1.31	1.95	0.464	11.74
		XX			0.294	7.47	1.72	2.55	0.252	6.36
3/4 20	1.050	5		5S	0.065	1.65	0.69	1.03	0.920	23.40
	26.7	10		10S	0.083	2.11	0.86	1.28	0.884	22.48
		STD	40	40S	0.113	2.87	1.13	1.69	0.824	20.96
		XS	80	80S	0.154	3.91	1.48	2.20	0.742	18.88
		160			0.129	5.56	1.95	2.90	0.612	15.58
		XX			0.308	7.82	2.44	3.64	0.434	11.06
1 25	1.315	5		5S	0.065	1.65	0.87	1.29	1.185	30.10
	33.4	10		10S	0.109	2.77	1.41	2.09	1.097	27.86
		STD	40	40S	0.133	3.38	1.68	2.50	1.049	26.64
		XS	80	80S	0.179	4.55	2.17	3.24	0.957	24.30
		160			0.250	6.35	2.85	4.24	0.815	20.70
		XX			0.358	9.09	3.66	5.45	0.599	15.22
1-1/4 32	1.660	5		5S	0.065	1.65	1.11	1.65	1.530	38.90
	42.2	10		10S	0.109	2.77	1.81	2.69	1.442	36.66
		STD	40	40S	0.140	3.56	2.27	3.39	1.380	35.08
		XS	80	80S	0.191	4.85	3.00	4.47	1.278	32.50
		160			0.250	6.35	3.77	5.61	1.160	29.50
		XX			0.380	9.70	5.22	7.77	0.896	22.80
1-1/2 40	1.900	5		5S	0.065	1.65	1.28	1.90	1.770	45.00
	48.3	10		10S	0.109	2.77	2.09	3.11	1.682	42.76
		STD	40	40S	0.145	3.68	2.72	4.05	1.610	40.94
		XS	80	80S	0.200	5.08	3.63	5.41	1.500	38.14
		160			0.281	7.14	4.86	7.25	1.338	34.02
		XX			0.400	10.15	6.41	9.55	1.100	28.00
2 50	2.375	5		5S	0.065	1.65	1.61	2.39	2.245	57.00
	60.3	10		10S	0.109	2.77	2.64	3.93	2.157	54.76
		STD	40	40S	0.154	3.99	3.66	5.44	2.067	52.48
		XS	80	80S	0.218	5.54	5.03	7.48	1.939	49.22
		160			0.344	8.74	7.44	11.11	1.687	42.82
		XX			0.436	11.07	9.04	13.44	1.503	38.16
2-1/2 65	2.875	5		5S	0.083	2.11	2.48	3.69	2.709	68.78
	73.0	10		10S	0.120	3.05	3.53	5.26	2.635	66.90
		STD	40	40S	0.203	5.16	5.80	8.63	2.469	62.68
		XS	80	80S	0.276	7.01	7.67	11.41	2.323	58.98
		160			0.375	9.53	10.04	14.92	2.125	53.94
		XX			0.552	14.02	13.71	20.39	1.771	44.96
3 80	3.500	5		5S	0.083	2.11	3.03	4.52	3.334	84.68
	88.9	10		10S	0.120	3.05	4.34	6.46	3.260	82.80
		STD	40	40S	0.216	5.49	7.58	11.29	3.068	77.92
		XS	80	80S	0.300	7.62	10.26	15.27	2.900	73.66
		160			0.438	11.13	14.34	21.35	2.624	66.64
		XX			0.600	15.24	18.6	27.68	2.300	58.42
3-1/2 90	4.000	5		5S	0.083	2.11	3.48	5.18	3.834	97.38
	101.6	10		10S	0.120	3.05	4.98	7.41	3.76	95.50
		STD	40	40S	0.226	5.74	9.12	13.57	3.548	90.12
		XS	80	80S	0.318	8.08	12.52	18.64	3.364	85.44
		XX			0.636	16.15	22.87	34.03	2.728	69.30
4 100	4.500	5		5S	0.083	2.11	3.92	5.84	4.334	110.08
	114.3	10		10S	0.120	3.05	5.62	8.37	4.260	108.20
					0.156	3.96	7.24	10.78	4.188	106.38
					0.188	4.78	8.67	12.91	4.124	104.74
		STD	40	40S	0.237	6.02	10.80	16.08	4.026	102.26
		XS	80	80S	0.337	8.56	15.00	22.32	3.826	97.18
		120			0.438	11.13	19.02	28.32	3.624	92.04
		160			0.531	13.49	22.53	33.54	3.438	87.32
		XX			0.674	17.12	27.57	41.03	3.152	80.06
4-1/2 115	5.000	STD	40	40S	0.247	6.27	12.55	18.67	4.506	114.46
	127.0	XS	80	80S	0.355	9.02	17.63	26.24	4.290	108.96
		XX			0.710	18.03	32.56	48.45	3.580	90.94

NOMINAL PIPE SIZE	OD	SCHEDULE DESIGNATIONS			WALL THICKNESS		WEIGHT		ID	
			ASME		INCH	MM	LBS FOOT	KG/ METER	INCH	MM
5 125	5.563	5		5S	0.109	2.77	6.36	9.46	5.345	135.76
	141.3	10		10S	0.134	3.4	7.78	11.56	5.295	134.50
		STD	40	40S	0.258	6.55	14.63	21.77	5.047	128.20
		XS	80	80S	0.375	9.53	20.80	30.97	4.813	122.24
		120			0.500	12.70	27.06	40.28	4.563	115.90
		160			0.625	15.88	32.99	49.12	4.313	109.54
	XX			0.750	19.05	38.59	57.43	4.063	103.20	
6 150	6.625	5		5S	0.109	2.77	7.59	11.31	6.407	162.76
	168.3	10		10S	0.134	3.40	9.30	13.83	6.357	161.50
					0.188	4.78	12.94	19.28	6.249	158.74
		STD	40	40S	0.280	7.11	18.99	28.26	6.065	154.08
		XS	80	80S	0.432	10.97	28.6	42.56	5.761	146.36
		120			0.562	14.27	36.43	54.21	5.501	139.76
	160			0.719	18.26	45.39	67.57	5.187	131.78	
	XX			0.864	21.95	53.21	79.22	4.897	124.40	
7 175	7.625	STD	40	40S	0.301	7.65	23.57	35.1	7.023	178.40
	193.7	XS	80	80S	0.500	12.70	38.08	56.69	6.625	168.30
		XX			0.875	22.23	63.14	94.00	5.875	149.24
8 200	8.625			5S	0.109	2.77	9.92	14.78	8.407	213.56
	219.1	10		10S	0.148	3.76	13.41	19.97	8.329	211.58
		20			0.250	6.35	22.38	33.32	8.125	206.40
		30			0.277	7.04	24.72	36.82	8.071	205.02
		STD	40	40S	0.322	8.18	28.58	42.55	7.981	202.74
		60			0.406	10.31	35.67	53.09	7.813	198.48
		XS	80	80S	0.5	12.70	43.43	64.64	7.625	193.70
		100			0.594	15.09	51.00	75.92	7.437	188.92
		120			0.719	18.26	60.77	90.44	7.187	182.58
		140			0.812	20.62	67.82	100.93	7.001	177.86
		XX			0.875	22.23	72.49	107.93	6.875	174.64
		160			0.906	23.01	74.76	111.27	6.813	173.08
9 225	9.625	STD	40	40S	0.342	8.69	33.94	50.54	8.941	227.12
	244.5	XS	80	80S	0.50	12.7	48.77	72.60	8.625	219.10
		XX			0.875	22.23	81.85	121.85	7.875	200.04
10 250	10.750			5S	0.134	3.40	15.21	22.61	10.482	266.20
	273			10S	0.165	4.19	18.67	27.78	10.420	264.62
					0.188	4.78	21.23	31.62	10.374	263.44
		20			0.250	6.35	28.06	41.76	10.250	260.30
		30			0.307	7.80	34.27	51.01	10.136	257.40
		STD	40	40S	0.365	9.27	40.52	60.29	10.020	254.46
		XS	60	80S	0.500	12.70	54.79	81.53	9.750	247.60
		80			0.594	15.09	64.49	95.98	9.562	242.82
		100			0.719	18.26	77.10	114.71	9.312	236.48
		120			0.844	21.44	89.38	133.01	9.062	230.12
	140	XX		1.000	25.40	104.23	155.10	8.750	222.20	
	160			1.125	28.58	115.75	172.27	8.500	215.84	
11 275	11.750	STD	40	40S	0.375	9.53	45.60	67.91	11.00	279.44
	298.5	XS	80	80S	0.500	12.7	60.13	89.51	10.75	273.10
		XX			0.875	22.23	101.72	151.46	10.00	254.04
12 300	12.750			5S	0.156	3.96	21.00	31.24	12.438	315.88
	323.8			10S	0.180	4.57	24.19	35.98	12.390	314.66
					0.188	4.78	25.25	37.61	12.374	314.24
		20			0.250	6.35	33.41	49.71	12.250	311.10
		30			0.330	8.38	43.81	65.19	12.090	307.04
		STD		40S	0.375	9.53	49.61	73.86	12.000	304.74
		40			0.406	10.31	53.57	79.71	11.938	303.18
		XS		80S	0.500	12.70	65.48	97.44	11.750	298.40
		60			0.562	14.27	73.22	108.93	11.626	295.26
		80			0.688	17.48	88.71	132.05	11.374	288.84
		100			0.844	21.44	107.42	159.87	11.062	280.92
		120	XX		1.000	25.4	125.61	186.92	10.750	273.00
	140			1.125	28.58	139.81	208.08	10.500	266.64	
	160			1.312	33.32	160.42	238.69	10.126	257.16	
14 350	14.000			10S	0.188	4.78	27.76	41.36	13.624	346.04
	355.6	10			0.250	6.35	36.75	54.69	13.500	342.90
		20			0.312	7.92	45.65	67.91	13.376	339.76
		STD	30	40S	0.375	9.53	54.62	81.33	13.250	336.54
		40			0.438	11.13	63.5	94.55	13.124	333.34
		XS		80S	0.500	12.70	72.16	107.4	13.000	330.20
		60			0.594	15.09	85.13	126.72	12.182	325.42
		80			0.750	19.05	106.23	158.11	12.500	317.50
		100			0.938	23.83	130.98	194.98	12.124	307.94
		120			1.094	27.79	150.93	224.66	11.812	300.92
		140			1.250	31.75	170.37	253.58	11.500	292.10
		160			1.406	35.71	189.29	281.72	11.188	284.10

MS, GI Square & Rectangle

IS 4923
[YST 210, YST 240, YST 310, YST 355]



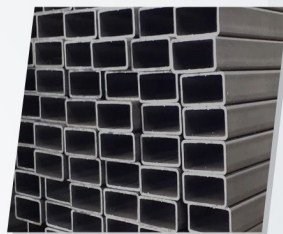
GI Round Pipe



GI Square Tube



MS Square Tube



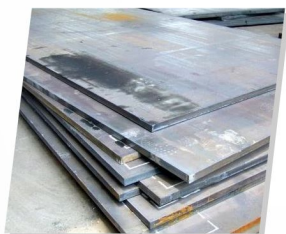
MS Rectangular Tube



MS ERW Tube

Structural Steels

IS 2062



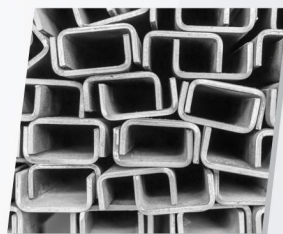
Mild Steel Plate



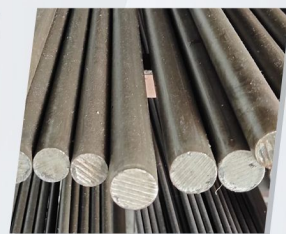
MS Bright Flats



Mild Steel Angle



Mild Steel Channel



MS Rods

MS & GI TUBES | IS - 1161, IS - 3601

Conforming to IS 1239 (Part -1) : 2004

		Outside Diameter				Normal Mass of Tube	
Nominal Bore	Series	Maximum	Minimum	Wall Thickness (T)	Plain End		
in mm	in inch	in mm	in mm	in mm	in Gauge	Kg/mtr	Mtrs/M.Ton
15	0.50	Light	21.4	21.0	2.00	14	0.947
		Medium	21.8	21.0	2.60	12	1.210
		Heavy	21.8	21.0	3.20	10	1.440
20	0.75	Light	26.9	26.4	2.30	13	1.380
		Medium	27.3	26.5	2.60	12	1.560
		Heavy	27.3	26.5	3.20	10	1.870
25	1.00	Light	33.8	33.2	2.60	12	1.980
		Medium	34.2	33.3	3.20	10	2.410
		Heavy	34.2	33.3	4.00	8	2.930
32	1.25	Light	42.5	41.9	2.60	12	2.540
		Medium	42.9	42.0	3.20	10	3.100
		Heavy	42.9	42.0	4.00	8	3.790
40	1.50	Light	48.4	47.8	2.90	11	3.230
		Medium	48.8	47.9	3.20	10	3.560
		Heavy	48.8	47.9	4.00	8	4.370
50	2.00	Light	60.2	59.6	2.90	11	4.080
		Medium	60.8	59.7	3.60	9	5.30
		Heavy	60.8	59.7	4.50	7	6.190
65	2.50	Light	76.0	75.2	3.20	10	5.710
		Medium	76.6	75.3	3.60	9	6.420
		Heavy	76.6	75.3	4.50	7	7.930
80	3.00	Light	88.7	87.9	3.20	10	6.720
		Medium	89.5	88.0	4.00	8	8.360
		Heavy	89.5	88.0	4.80	6	9.900
100	4.00	Light	113.9	113.0	3.60	9	9.750
		Medium	115.0	113.1	4.50	7	12.200
		Heavy	115.0	113.1	5.40	5	14.500
125	5.00	Medium	140.8	138.5	4.80	6	15.900
		Heavy	140.8	138.5	5.40	5	17.900
150	6.00	Medium	166.5	163.9	4.80	6	18.900
		Heavy	166.5	163.9	5.40	5	21.300

MS & GI SQUARE

SIZE IN MM	THICKNESS IN MM									
	2	2.6	3.2	3.6	4	4.5	4.8	5	5.54	6
25 X 25	1.36	1.69	1.98							
30 X 30		2.10	2.49		2.94					
32 X 32	1.80	2.26	2.69		3.19					
35 X 35		2.51	2.99		3.57					
38 X 38		2.75	3.29	3.63	3.95					
40 X 40		2.92	3.49	3.85	4.20					
45 X 45		3.32	3.99	4.42		5.31				
50 X 50		3.74	4.50	4.98	5.45	6.02				
60 X 60		4.55	5.50	6.61	6.71	7.43	7.85			
72 X 72			6.71		8.22		9.66			
80 X 80					9.22	10.30	10.87			
91.5 X 91.5						11.88			14.01	
100 X 100					11.73	13.10		14.41		16.98
113.5 X 113.5						14.99	15.92		17.74	19.53
125 X 125						16.62		18.33		21.69
132 X 132							18.71		20.88	23.01
150 X 150					18.01			22.26		26.40
180 X 180					21.78			26.97		32.05
220 X 220										39.59
250 X 250										45.24

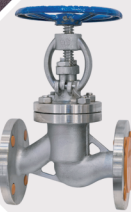
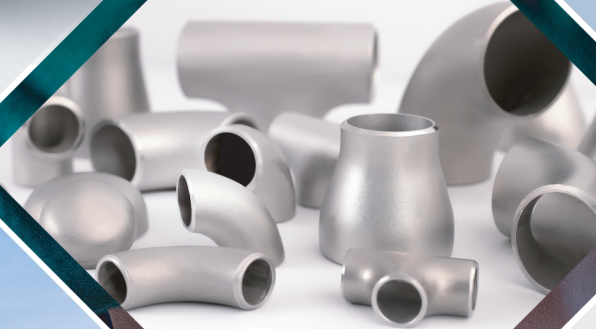
Tolerance on Thickness and Mass

Class	Thickness	Mass (Weight)	
		Single Tuble	Per Load of 10 Mton Min
Light	(+Not Limited) - 8 Percent	(+10 Percent) - 8 Percent	(+7.5 Percent) - 5 Percent
Medium & Heavy	(+Not Limited) - 10 Percent	(+ - 10 Percent)	(+ - 7.5 Percent)

Mechanical Properties

Tensile Properties	Tensile Strength	Yield Strength	Elongation Gauge Length
	Min MPa	Min MPa	
Yst 210	330	210	20
Yst 240	410	240	17
Yst 310	450	310	14
Yst 355	490	355	10

Tolerances		Thickness
Outside Diameter		
Up to & Including 48.3 mm	(+0.4 mm)	(+ - 10 Percent)
Over 48.3 mm	(- 0.8 mm)	
	(+ - 1.0 Percent)	



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