

# Carbon Steel Pipe

## FOR GENERAL STRUCTURAL PURPOSES

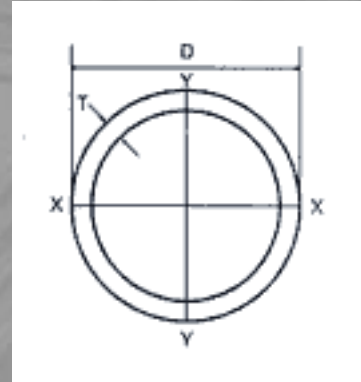
### *Dimension Tolerance*

#### Side Lenght

: O. D  $\leq$  50 mm.  $\pm$  1.5 mm. Thickness : Under 3 mm.  $\pm$  0.3 mm.

: O. D  $\geq$  50 mm.  $\pm$  1.5 % Thickness : 3 mm. or over,  $\pm$  10%

:  $\pm$  10% Lenght : +50 mm., -0 mm.



Nominal dimation	Outside Diameter	Thickness	Calculate Weight	Cross Sectional Area	Geometrical Moment of Inertia	Modulus of Section	Radius of Gyration
DN	D	T	W	A	I	Z	I
in.	mm.	mm.	kg./m.	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>3</sup>	cm.
1/2 (15)	21.7	2.0	0.97	1.24	0.61	0.56	0.70
3/4 (20)	27.2	2.0	1.24	1.58	1.26	0.93	0.89
		2.3	1.41	1.80	1.41	1.03	0.88
1 (25)	34.0	2.3	1.80	2.29	2.89	1.70	1.12
1 1/4 (32)	42.7	2.3	2.29	2.92	5.97	2.80	1.43
		2.5	2.48	3.16	6.40	3.00	1.42
1 1/2 (40)	48.6	2.3	2.63	3.35	8.99	3.70	1.64
		2.5	2.84	3.62	9.65	3.97	1.63
		2.8	3.16	4.03	10.60	4.36	1.62

		3.2	3.58	4.56	11.80	4.86	1.61
2(50)	60.5	2.3	3.30	4.21	17.80	5.90	2.06
		3.2	4.52	5.76	23.70	7.84	2.03
		4.0	5.57	7.10	28.50	9.41	2.00
2 1/2 (65)	76.3	2.8	5.08	6.47	43.70	11.50	2.60
		3.2	5.77	7.35	49.20	12.90	2.59
		4.0	7.13	9.09	59.50	15.60	2.58
3 (80)	89.1	2.8	5.96	7.59	70.70	15.90	3.05
		3.2	6.78	8.64	79.80	17.90	3.04
3 1/2 (90)	101.6	3.2	7.76	9.89	120.0	23.60	3.48
		4.0	9.63	12.26	146.0	28.80	3.45
4 (100)	114.3	3.2	8.77	11.17	172.0	30.20	3.93
		3.5	9.58	12.18	187.0	32.70	3.92
		4.5	12.20	15.52	234.0	41.00	3.89
5 (125)	139.8	3.6	12.10	15.40	357.0	51.10	4.82
		4.0	13.40	17.07	394.0	56.30	4.80
		4.5	15.00	19.13	438.0	62.70	4.79
		6.0	19.80	25.22	566.0	80.20	4.74
6 (150)	165.2	4.5	17.80	22.72	734.0	88.90	5.68
		5.0	19.80	25.16	808.0	97.80	5.67
		6.0	23.60	30.01	952.0	115.0	5.63
		7.1	27.70	35.26	1,100.0	134.0	5.60
8 (200)	216.3	4.5	23.50	29.94	1,680.0	155.0	7.49
		5.8	30.10	38.36	2,130.0	197.0	7.45
		7.0	36.10	46.03	2,520.0	233.0	7.40
		8.2	42.10	53.61	2,910.0	269.0	7.36