

CARBON STEEL PIPE DIMENSIONS AND WEIGHT  
(ASTM/API5L Pipe)

Dimensions are in inches / Tolerances not shown

Size	Sched	O.D.	I.D.	Wall	Lbs/Ft
1/2	5	.840	.710	.065	.5383
1/2	10	.840	.674	.083	.6710
1/2	40	.840	.622	.109	.8510
1/2	STD	.840	.622	.109	.8510
1/2	XH	.840	.546	.147	1.088
1/2	80	.840	.546	.147	1.088
1/2	160	.840	.466	.187	1.304
1/2	XXH	.840	.252	.294	1.714
3/4	5	1.050	.920	.065	.6838
3/4	10	1.050	.884	.083	.8572
3/4	40	1.050	.824	.113	1.131
3/4	STD	1.050	.824	.113	1.131
3/4	XH	1.050	.742	.154	1.474
3/4	80	1.050	.742	.154	1.474
3/4	160	1.050	.614	.218	1.937
3/4	XXH	1.050	.434	.308	2.441
1	5	1.315	1.185	.065	.8678
1	10	1.315	1.097	.109	1.404
1	40	1.315	1.049	.133	1.679
1	STD	1.315	1.049	.133	1.679
1	XH	1.315	.957	.179	2.172
1	80	1.315	.957	.179	2.172
1	160	1.315	.815	.250	2.844
1	XXH	1.315	.599	.358	3.659
1-1/4	5	1.660	1.530	.065	1.107
1-1/4	10	1.660	1.442	.109	1.806
1-1/4	40	1.660	1.380	.140	2.273
1-1/4	STD	1.660	1.380	.140	2.273
1-1/4	XH	1.660	1.278	.191	2.997
1-1/4	80	1.660	1.278	.191	2.997
1-1/4	160	1.660	1.160	.250	3.765
1-1/4	XXH	1.660	.896	.382	5.214
1-1/2	5	1.900	1.770	.065	1.274
1-1/2	10	1.900	1.682	.109	2.085
1-1/2	40	1.900	1.610	.145	2.718
1-1/2	STD	1.900	1.610	.145	2.718
1-1/2	XH	1.900	1.500	.200	3.631
1-1/2	80	1.900	1.500	.200	3.631
1-1/2	160	1.900	1.338	.281	4.859
1-1/2	XXH	1.900	1.100	.400	6.408
2	5	2.375	2.245	.065	1.604
2	10	2.375	2.157	.109	2.638
2	STD	2.375	2.067	.154	3.653

2	40	2.375	2.067	.154	3.653
2	XH	2.375	1.939	.218	5.022
2	80	2.375	1.939	.218	5.022
2	160	2.375	1.687	.344	7.462
2	XXH	2.375	1.503	.436	9.029
2-1/2	5	2.875	2.709	.083	2.475
2-1/2	10	2.875	2.635	.120	3.531
2-1/2	STD	2.875	2.469	.203	5.793
2-1/2	40	2.875	2.469	.203	5.793
2-1/2	XH	2.875	2.323	.276	7.661
2-1/2	80	2.875	2.323	.276	7.661
2-1/2	160	2.875	2.125	.375	10.01
2-1/2	XXH	2.875	1.771	.552	13.70
3	5	3.500	3.334	.083	3.029
3	10	3.500	3.260	.120	4.332
3	STD	3.500	3.068	.216	7.576
3	40	3.500	3.068	.216	7.576
3	XH	3.500	2.900	.300	10.25
3	80	3.500	2.900	.300	10.25
3	160	3.500	2.625	.438	14.32
3	XXH	3.500	2.300	.600	18.58
3-1/2	5	4.000	3.834	.083	3.472
3-1/2	10	4.000	3.760	.120	4.973
3-1/2	STD	4.000	3.548	.226	9.109
3-1/2	40	4.000	3.548	.226	9.109
3-1/2	XH	4.000	3.364	.318	12.51
3-1/2	80	4.000	3.364	.318	12.51
3-1/2	XXH	4.000	2.728	.636	22.85
4	5	4.500	4.334	.083	3.915
4	10	4.500	4.260	.120	5.613
4	STD	4.500	4.026	.237	10.79
4	40	4.500	4.026	.237	10.79
4	XH	4.500	3.826	.337	14.98
4	80	4.500	3.826	.337	14.98
4	120	4.500	3.625	.438	19.00
4	160	4.500	3.438	.531	22.51
4	XXH	4.500	3.152	.674	27.54
4-1/2	STD	5.000	4.506	.247	12.54
4-1/2	XH	5.000	4.290	.355	17.61
5	5	5.563	5.345	.109	6.349
5	10	5.563	5.295	.134	7.770
5	STD	5.563	5.047	.258	14.62
5	40	5.563	5.047	.258	14.62
5	XH	5.563	4.813	.375	20.78
5	80	5.563	4.813	.375	20.78
5	120	5.563	4.563	.500	27.04
5	160	5.563	4.313	.625	32.96
5	XXH	5.563	4.063	.750	38.55
6	5	6.625	6.407	.109	7.585

6	10	6.625	6.357	.134	9.289
6	STD	6.625	6.065	.280	18.97
6	40	6.625	6.065	.280	18.97
6	XH	6.625	5.761	.432	28.57
6	80	6.625	5.761	.432	28.57
6	120	6.625	5.500	.562	36.39
6	160	6.625	5.187	.719	45.35
6	XXH	6.625	4.897	.864	53.16
7	STD	7.625	7.023	.301	23.54
7	XH	7.625	6.625	.500	38.04
7	XXH	7.625	5.875	.875	63.08
8	5	8.625	8.407	.109	9.914
8	10	8.625	8.329	.148	13.40
8	20	8.625	8.125	.250	22.36
8	30	8.625	8.071	.277	24.70
8	STD	8.625	7.981	.322	28.55
8	40	8.625	7.981	.322	28.55
8	60	8.625	7.813	.406	35.64
8	XH	8.625	7.625	.500	43.39
8	80	8.625	7.625	.500	43.39
8	100	8.625	7.437	.594	50.95
8	120	8.625	7.187	.719	60.71
8	140	8.625	7.000	.812	67.76
8	160	8.625	6.813	.906	74.69
8	XXH	8.625	6.875	.875	72.42
9	STD	9.625	8.941	.342	33.91
9	XH	9.625	8.625	.500	48.73
10	5	10.750	10.482	.134	15.19
10	10	10.750	10.420	.165	18.70
10	20	10.750	10.250	.250	28.04
10	30	10.750	10.136	.307	34.24
10	STD	10.750	10.020	.365	40.48
10	40	10.750	10.020	.365	40.48
10	60	10.750	9.750	.500	54.74
10	XH	10.750	9.750	.500	54.74
10	80	10.750	9.562	.594	64.43
10	100	10.750	9.312	.719	77.03
10	120	10.750	9.062	.844	89.29
10	140	10.750	8.750	1.000	104.1
10	160	10.750	8.500	1.125	115.6
10	XXH	10.750	8.750	1.000	104.1
11	STD	11.750	11.000	.375	45.56
11	XH	11.750	10.7500	.500	60.08
12	5	12.750	12.420	.165	22.18
12	10	12.750	12.390	.180	24.16
12	20	12.750	12.250	.250	33.38
12	30	12.750	12.090	.330	43.77
12	STD	12.750	12.000	.375	49.56
12	40	12.750	11.938	.406	53.52

12	60	12.750	11.625	.562	73.15
12	XH	12.750	11.750	.500	65.42
12	80	12.750	11.375	.688	88.63
12	100	12.750	11.062	.844	107.3
12	120	12.750	10.750	1.000	125.5
12	140	12.750	10.500	1.125	139.67
12	160	12.750	10.125	1.312	160.3
12	XXH	12.750	10.750	1.000	125.5
14	10	14.000	13.500	.250	36.71
14	20	14.000	13.375	.312	45.61
14	30	14.000	13.250	.375	54.57
14	STD	14.000	13.250	.375	54.57
14	40	14.000	13.125	.438	63.44
14	60	14.000	12.812	.594	85.05
14	XH	14.000	13.000	.500	72.09
14	80	14.000	12.500	.750	106.1
14	100	14.000	12.125	.938	130.9
14	120	14.000	11.812	1.094	150.8
14	140	14.000	11.500	1.250	170.2
14	160	14.000	11.188	1.406	189.1
16	10	16.000	15.500	.250	42.05
16	20	16.000	15.375	.312	52.27
16	30	16.000	15.250	.375	62.58
16	STD	16.000	15.250	.375	62.48
16	40	16.000	15.000	.500	82.77
16	60	16.000	14.688	.656	107.5
16	XH	16.000	15.000	.500	82.77
16	80	16.000	14.312	.844	136.6
16	100	16.000	13.938	1.031	164.8
16	120	16.000	13.562	1.219	192.4
16	140	16.000	13.125	1.438	223.6
16	160	16.000	12.812	1.594	245.3
18	10	18.000	17.500	.250	47.39
18	20	18.000	17.375	.312	58.94
18	30	18.000	17.125	.438	82.15
18	STD	18.000	17.250	.375	70.59
18	40	18.000	16.875	.562	104.7
18	60	18.000	16.500	.750	138.2
18	XH	18.000	17.000	.500	93.45
18	80	18.000	16.125	.938	170.9
18	100	18.000	15.688	1.156	208.0
18	120	18.000	15.25	1.375	244.1
18	140	18.000	14.875	1.562	274.2
18	160	18.000	14.438	1.781	308.5
20	10	20.000	19.500	.250	52.73
20	20	20.000	19.250	.375	78.60
20	30	20.000	19.000	.500	104.1
20	STD	20.000	19.250	.375	78.60
20	40	20.000	18.812	.594	123.1

20	60	20.000	18.375	.812	166.4
20	XH	20.000	19.000	.500	104.1
20	80	20.000	17.938	1.031	208.9
20	100	20.000	17.438	1.281	256.1
20	120	20.000	17.000	1.500	296.4
20	140	20.000	16.500	1.750	341.1
20	160	20.000	16.062	1.969	379.2
24	10	24.000	23.500	.250	63.41
24	20	24.000	23.250	.375	94.62
24	30	24.000	22.875	.562	140.7
24	STD	24.000	23.250	.375	94.62
24	40	24.000	22.625	.688	171.3
24	60	24.000	22.062	.969	238.4
24	XH	24.000	23.000	.500	125.5
24	80	24.000	21.562	1.219	296.6
24	100	24.000	20.938	1.531	367.4
24	120	24.000	20.375	1.812	429.4
24	140	24.000	19.875	2.062	483.1
24	160	24.000	19.312	2.344	542.1

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#### **Abbreviations:-**

Size = Nominal bore inches (Imperial)  
 Sched = ANSI/ASME B36.10m schedule number or API designation STD WT/XS/XXS  
 O.D = Outside diameter  
 I.D = Inside diameter  
 Wall = Wall thickness  
 Lbs./ft. = Lbs./ft.  
 STD = Standard weight  
 XHeavy = Extra heavy (Extra strong 'XS', same thing)  
 XXH = Double extra heavy (Double extra strong 'XXS', same thing)  
 XXXH = Triple extra heavy (Triple extra string 'XXXH' same thing)

#### **metrication:-**

O.D X 25.4 = mm  
 I.D x 25.4 = mm  
 Wall x 25.4 = mm  
 Lbs./ft. x 1.488 = kg/metre

#### **Common Pressure Piping Grades Covered:-**

API 5L X 42  
 ASTM A333  
 ASTM A53  
 ASTM A106 grade 3  
 Standards:- to ANSI/ASME B31  
 Pipe types carbon steel Seamless, ERW, DSAW

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69-71 Barndioota Road, Salisbury Plain, South Australia 5109  
 Telephone +61 (0)8 8285 0000 Fax +61 (0)8 8285 0088  
 Email: sales@globalsupplyline.com.au

[www.globalsupplyline.com.au](http://www.globalsupplyline.com.au)