

CARBON STEEL PIPE SCHEDULE CHART

NPS, DN, OD, Wall Thickness (mm) | ASME B36.10

NPS (in)	DN	OD (in)	OD (mm)	SCH 10	SCH 20	SCH 30	SCH 40	SCH 60	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160
1/8	6	0.405	10.3	—	—	—	1.73	—	2.41	—	—	—	—
1/4	8	0.540	13.7	—	—	—	2.24	—	3.02	—	—	—	—
3/8	10	0.675	17.1	—	—	—	2.31	—	3.20	—	—	—	—
1/2	15	0.840	21.3	—	—	—	2.77	—	3.73	—	—	—	4.78
3/4	20	1.050	26.7	—	—	—	2.87	—	3.91	—	—	—	5.56
1	25	1.315	33.4	—	—	—	3.38	—	4.55	—	—	—	6.35
1-1/4	32	1.660	42.2	—	—	—	3.56	—	4.85	—	—	—	6.35
1-1/2	40	1.900	48.3	—	—	—	3.68	—	5.08	—	—	—	7.14
2	50	2.375	60.3	—	—	—	3.91	—	5.54	—	—	—	8.74
2-1/2	65	2.875	73.0	—	—	—	5.16	—	7.01	—	—	—	9.53
3	80	3.500	88.9	—	—	—	5.49	—	7.62	—	—	—	11.13
3-1/2	90	4.000	101.6	—	—	—	5.74	—	8.08	—	—	—	—
4	100	4.500	114.3	—	—	—	6.02	—	8.56	—	11.13	—	13.49
5	125	5.563	141.3	—	—	—	6.55	—	9.53	—	12.70	—	15.88
6	150	6.625	168.3	—	—	—	7.11	—	10.97	—	14.27	—	18.26
8	200	8.625	219.1	—	6.35	7.04	8.18	10.31	12.70	15.09	18.26	20.62	23.01
10	250	10.750	273.1	—	6.35	7.80	9.27	12.70	15.09	18.26	21.44	25.40	28.58
12	300	12.750	323.9	—	6.35	8.38	10.31	14.27	17.48	21.44	25.40	28.58	33.32
14	350	14.000	355.6	6.35	7.92	9.53	11.13	15.09	19.05	23.83	27.79	31.75	35.71
16	400	16.000	406.4	6.35	7.92	9.53	12.70	16.66	21.44	26.19	30.96	36.53	40.49
18	450	18.000	457.2	6.35	7.92	11.13	14.27	19.05	23.83	29.36	34.93	39.67	45.24
20	500	20.000	508.0	6.35	9.53	12.70	15.09	20.62	26.19	32.54	38.10	44.45	50.01
22	550	22.000	558.8	6.35	9.53	12.70	—	22.23	28.58	34.93	41.28	47.63	53.98
24	600	24.000	609.6	6.35	9.53	12.70	17.48	24.61	30.96	38.89	46.02	52.37	59.54
26	650	26.000	660.4	—	—	—	—	—	—	—	—	—	—
28	700	28.000	711.2	7.92	12.70	15.88	—	—	—	—	—	—	—
30	750	30.000	762.0	7.92	12.70	15.88	—	—	—	—	—	—	—
32	800	32.000	812.8	7.92	12.70	15.88	17.48	—	—	—	—	—	—
34	850	34.000	863.6	7.92	12.70	15.88	17.48	—	—	—	—	—	—
36	900	36.000	914.4	7.92	12.70	15.88	19.05	—	—	—	—	—	—
38	950	38.000	965.2	—	—	—	—	—	—	—	—	—	—
40	1000	40.000	1016.0	—	—	—	—	—	—	—	—	—	—
42	1050	42.000	1066.8	—	—	—	—	—	—	—	—	—	—
44	1100	44.000	1117.6	—	—	—	—	—	—	—	—	—	—
46	1150	46.000	1168.4	—	—	—	—	—	—	—	—	—	—
48	1200	48.000	1219.2	—	—	—	—	—	—	—	—	—	—

CARBON STEEL PIPE WEIGHT & DESIGNATIONS

Nominal Weights (SCH 40 & SCH 80) | Standard Wall Thickness Designations

CARBON STEEL PIPE WEIGHT CHART

NPS (in)	DN	OD (in)	OD (mm)	SCH 40 / STD			SCH 80 / XS		
				Wall (mm)	Weight (kg/m)	Weight (lb/ft)	Wall (mm)	Weight (kg/m)	Weight (lb/ft)
1/2	15	0.840	21.3	2.77	1.27	0.85	3.73	1.62	1.09
3/4	20	1.050	26.7	2.87	1.69	1.13	3.91	2.20	1.48
1	25	1.315	33.4	3.38	2.50	1.68	4.55	3.24	2.17
1-1/4	32	1.660	42.2	3.56	3.39	2.28	4.85	4.47	3.00
1-1/2	40	1.900	48.3	3.68	4.05	2.72	5.08	5.41	3.63
2	50	2.375	60.3	3.91	5.44	3.66	5.54	7.48	5.03
2-1/2	65	2.875	73.0	5.16	8.63	5.80	7.01	11.41	7.67
3	80	3.500	88.9	5.49	11.29	7.58	7.62	15.27	10.26
3-1/2	90	4.000	101.6	5.74	13.57	9.12	8.08	18.63	12.51
4	100	4.500	114.3	6.02	16.07	10.80	8.56	22.32	15.00
5	125	5.563	141.3	6.55	21.77	14.63	9.53	30.97	20.80
6	150	6.625	168.3	7.11	28.26	18.99	10.97	42.56	28.60
8	200	8.625	219.1	8.18	42.55	28.58	12.70	64.64	43.43
10	250	10.750	273.1	9.27	60.31	40.52	15.09	95.97	64.49
12	300	12.750	323.9	10.31	79.73	53.58	17.48	132.08	88.75
14	350	14.000	355.6	11.13	94.55	63.53	19.05	158.10	106.23
16	400	16.000	406.4	12.70	123.30	82.85	21.44	203.53	136.76
18	450	18.000	457.2	14.27	155.80	104.69	23.83	254.67	171.12
20	500	20.000	508.0	15.09	183.42	123.25	26.19	311.18	209.09
24	600	24.000	609.6	17.48	255.20	171.48	30.96	441.80	296.86

TRADITIONAL WALL DESIGNATIONS

Designation	Description & Engineering Standard
STD	Standard Weight: Identical to SCH 40 for NPS 1/8" through NPS 10". For NPS 12" and larger, STD remains constant at 9.53 mm (3/8 in) wall thickness.
XS	Extra Strong: Identical to SCH 80 for NPS 1/8" through NPS 8". For NPS 10" and larger, XS remains constant at 12.70 mm (1/2 in) wall thickness.
XXS	Double Extra Strong: Heavy wall specification designed for ultra-high pressure applications. Wall thickness exceeds SCH 160 in sizes up to NPS 6".

Reference: ASME B36.10. Dimensions and weights are nominal values. Verify applicable specifications, tolerances and design requirements before use.