

Pipe Schedule Wall Thickness Chart

Nominal wall thickness (mm) by pipe schedule for carbon steel pipe · ASME B36.10

NPS	OD (mm)	Sch 5	Sch 10	Sch 20	Sch 30	Sch 40 / STD	Sch 60	Sch 80 / XS
1/8	10.3	0.41		1.24			1.73	
1/4	13.7	0.54		1.65			2.24	
3/8	17.1	0.68		1.65			2.31	
1/2	21.3	0.84	1.65	2.11			2.77	
3/4	26.7	1.05	1.65	2.11			2.87	
1	33.4	1.31	1.65	2.77			3.38	
1 1/4	42.2	1.66	1.65	2.77			3.56	
1 1/2	48.3	1.90	1.65	2.77			3.68	
2	60.3	2.38	1.65	2.77			3.91	
2 1/2	73.0	2.88	2.11	3.05			5.16	
3	88.9	3.50	2.11	3.05			5.49	
3 1/2	101.6	4.00	2.11	3.05			5.74	
4	114.3	4.50	2.11	3.05			6.02	
5	141.3	5.56	2.77	3.40			6.55	
6	168.3	6.62	2.77	3.40			7.11	
8	219.1	8.62	2.77	3.76	6.35	7.04	8.18	10.31
10	273.1	10.75	3.40	4.19	6.35	7.80	9.27	12.70
12	323.9	12.75	3.96	4.57	6.35	8.38	9.53	14.27
14	355.6	14.00	3.96	6.35	7.92	9.53	9.53	15.09
16	406.4	16.00	4.19	6.35	7.92	9.53	9.53	16.66
18	457.2	18.00	4.19	6.35	7.92	11.13	9.53	19.05
20	508.0	20.00		6.35	9.53	12.70	9.53	20.62
22	558.8	22.00		6.35	9.53	12.70	9.53	22.23
24	609.6	24.00		6.35	9.53	14.27	9.53	24.61

NPS	OD (mm)	Sch 100	Sch 120	Sch 140	Sch 160	XXS
1/8	10.3	2.41				
1/4	13.7	3.02				
3/8	17.1	3.20				
1/2	21.3	3.73				4.78
3/4	26.7	3.91				5.56
1	33.4	4.55				6.35
1 1/4	42.2	4.85				6.35
1 1/2	48.3	5.08				7.14
2	60.3	5.54				8.74
2 1/2	73.0	7.01				9.53

NPS	OD (mm)	Sch 100	Sch 120	Sch 140	Sch 160	XXS
3	88.9	7.62				11.13
3 1/2	101.6	8.08				
4	114.3	8.56		11.13	13.49	17.12
5	141.3	9.53		12.70	15.88	19.05
6	168.3	10.97	12.70	14.27		18.26
8	219.1	12.70	15.09	18.26	20.62	23.01
10	273.1	12.70	18.26	21.44	25.40	28.58
12	323.9	12.70	21.44	25.40	28.58	33.32
14	355.6	12.70	23.83	27.79	31.75	35.71
16	406.4	12.70	26.19	30.96	36.53	40.49
18	457.2	12.70	29.36	34.93	39.67	45.24
20	508.0	12.70	32.54	38.10	44.45	50.01
22	558.8	12.70	34.93	41.28	47.63	53.98
24	609.6	12.70	38.89	46.02	52.37	59.54

A dash (—) means that schedule is not specified for that size. For NPS 12 and larger, Schedule 40 and Schedule 80 differ from STD and XS — both columns are shown separately. Thicker and thinner schedules are available on request.

Values are per ASME B36.10 (Welded and Seamless Wrought Steel Pipe). Weights are computed for plain carbon steel (density 7.85 g/cm³) using the standard formula $kg/m = 0.02466 \times (D - t) \times t$. This chart is a quick reference only — always verify against the governing standard for critical or code-regulated applications.