Pipe Schedule Chart (Metric) — ASME B36.10M / B36.19M

Mejorsteel reference chart. Outside diameters use ASME SI rounded values. Wall in mm = in × 25.4. Plain-end mass W = 0.0246615 × (D – t) × t (kg/m). ID = D – 2t. Not a substitute for the purchased standard. Data revision 2026-11-04.

1. Carbon / alloy steel wall thickness — ASME B36.10M

NPS	DN	OD	5	10	20	30	40	STD	60	80	XS	100	120	140	160	XXS
1/8	6	10.3	—	—	—	—	1.73	1.73	—	2.41	2.41	—	—	—	—	—
1/4	8	13.7	—	—	—	—	2.24	2.24	—	3.02	3.02	—	—	—	—	—
3/8	10	17.1	—	—	—	—	2.31	2.31	—	3.2	3.2	—	—	—	—	—
1/2	15	21.3	1.65	—	—	—	2.77	2.77	—	3.73	3.73	—	—	—	4.78	7.47
3/4	20	26.7	1.65	—	—	—	2.87	2.87	—	3.91	3.91	—	—	—	5.56	7.82
1	25	33.4	1.65	—	—	—	3.38	3.38	—	4.55	4.55	—	—	—	6.35	9.09
1-1/4	32	42.2	1.65	—	—	—	3.56	3.56	—	4.85	4.85	—	—	—	6.35	9.7
1-1/2	40	48.3	1.65	—	—	—	3.68	3.68	—	5.08	5.08	—	—	—	7.14	10.16
2	50	60.3	1.65	—	—	—	3.91	3.91	—	5.54	5.54	—	—	—	8.74	11.07
2-1/2	65	73	2.11	—	—	—	5.16	5.16	—	7.01	7.01	—	—	—	9.53	14.02
3	80	88.9	2.11	—	—	—	5.49	5.49	—	7.62	7.62	—	—	—	11.13	15.24
3-1/2	90	101.6	2.11	—	—	—	5.74	5.74	—	8.08	8.08	—	—	—	—	16.15
4	100	114.3	2.11	—	—	—	6.02	6.02	7.14	8.56	8.56	—	11.13	—	13.49	17.12
5	125	141.3	2.77	—	—	—	6.55	6.55	—	9.53	9.53	—	12.7	—	15.88	19.05
6	150	168.3	2.77	—	—	—	7.11	7.11	—	10.97	10.97	—	14.27	—	18.26	21.95
8	200	219.1	2.77	—	6.35	7.04	8.18	8.18	10.31	12.7	12.7	15.09	18.26	20.62	23.01	22.23
10	250	273.1	3.4	—	6.35	7.8	9.27	9.27	12.7	15.09	12.7	18.26	21.44	25.4	28.58	25.4
12	300	323.9	3.96	—	6.35	8.38	10.31	9.53	14.27	17.48	12.7	21.44	25.4	28.58	33.32	25.4
14	350	355.6	3.96	6.35	7.92	9.53	11.13	9.53	15.09	19.05	12.7	23.83	27.79	31.75	35.71	—
16	400	406.4	4.19	6.35	7.92	9.53	12.7	9.53	16.66	21.44	12.7	26.19	30.96	36.53	40.49	—
18	450	457.2	4.19	6.35	7.92	11.13	14.27	9.53	19.05	23.83	12.7	29.36	34.93	39.67	45.24	—
20	500	508	4.78	6.35	9.53	12.7	15.09	9.53	20.62	26.19	12.7	32.54	38.1	44.45	50.01	—
24	600	610	5.54	6.35	9.53	14.27	17.48	9.53	24.61	30.96	12.7	38.89	46.02	52.37	59.54	—
30	750	762	6.35	7.92	12.7	15.88	—	9.53	—	—	12.7	—	—	—	—	—
36	900	914	—	7.92	12.7	15.88	19.05	9.53	—	—	12.7	—	—	—	—	—
42	1050	1067	—	—	—	—	—	9.53	—	—	12.7	—	—	—	—	—
48	1200	1219	—	—	—	—	—	9.53	—	—	12.7	—	—	—	—	—

A dash means that schedule is not listed for the size in the source tables used for this chart. Where Schedule 40 equals STD (through NPS 10) or Schedule 80 equals XS (through NPS 8), both columns show the same wall.

2. Full dimensions — Schedule 40 / STD (through NPS 10)

NPS	DN	OD (mm)	Wall (mm)	ID (mm)	Mass (kg/m)
1/8	6	10.3	1.73	6.84	0.37
1/4	8	13.7	2.24	9.22	0.63
3/8	10	17.1	2.31	12.48	0.84
1/2	15	21.3	2.77	15.76	1.27
3/4	20	26.7	2.87	20.96	1.69
1	25	33.4	3.38	26.64	2.5
1-1/4	32	42.2	3.56	35.08	3.39
1-1/2	40	48.3	3.68	40.94	4.05
2	50	60.3	3.91	52.48	5.44
2-1/2	65	73	5.16	62.68	8.63
3	80	88.9	5.49	77.92	11.29
3-1/2	90	101.6	5.74	90.12	13.57
4	100	114.3	6.02	102.26	16.08
5	125	141.3	6.55	128.2	21.77
6	150	168.3	7.11	154.08	28.26
8	200	219.1	8.18	202.74	42.55
10	250	273.1	9.27	254.56	60.31
12	300	323.9	10.31	303.28	79.73
14	350	355.6	11.13	333.34	94.55
16	400	406.4	12.7	381	123.31
18	450	457.2	14.27	428.66	155.88
20	500	508	15.09	477.82	183.43
24	600	610	17.48	575.04	255.43
36	900	914	19.05	875.9	420.45

2. Full dimensions — Schedule 80 / XS (through NPS 8)

NPS	DN	OD (mm)	Wall (mm)	ID (mm)	Mass (kg/m)
1/8	6	10.3	2.41	5.48	0.47

NPS	DN	OD (mm)	Wall (mm)	ID (mm)	Mass (kg/m)
1/4	8	13.7	3.02	7.66	0.8
3/8	10	17.1	3.2	10.7	1.1
1/2	15	21.3	3.73	13.84	1.62
3/4	20	26.7	3.91	18.88	2.2
1	25	33.4	4.55	24.3	3.24
1-1/4	32	42.2	4.85	32.5	4.47
1-1/2	40	48.3	5.08	38.14	5.41
2	50	60.3	5.54	49.22	7.48
2-1/2	65	73	7.01	58.98	11.41
3	80	88.9	7.62	73.66	15.27
3-1/2	90	101.6	8.08	85.44	18.64
4	100	114.3	8.56	97.18	22.32
5	125	141.3	9.53	122.24	30.97
6	150	168.3	10.97	146.36	42.56
8	200	219.1	12.7	193.7	64.64
10	250	273.1	15.09	242.92	96.02
12	300	323.9	17.48	288.94	132.09
14	350	355.6	19.05	317.5	158.11
16	400	406.4	21.44	363.52	203.54
18	450	457.2	23.83	409.54	254.68
20	500	508	26.19	455.62	311.19
24	600	610	30.96	548.08	442.11

2. Full dimensions — Schedule 10

NPS	DN	OD (mm)	Wall (mm)	ID (mm)	Mass (kg/m)
14	350	355.6	6.35	342.9	54.69
16	400	406.4	6.35	393.7	62.65
18	450	457.2	6.35	444.5	70.6
20	500	508	6.35	495.3	78.56
24	600	610	6.35	597.3	94.53
30	750	762	7.92	746.16	147.29
36	900	914	7.92	898.16	176.97

2. Full dimensions — Schedule 160

NPS	DN	OD (mm)	Wall (mm)	ID (mm)	Mass (kg/m)
1/2	15	21.3	4.78	11.74	1.95
3/4	20	26.7	5.56	15.58	2.9
1	25	33.4	6.35	20.7	4.24
1-1/4	32	42.2	6.35	29.5	5.61
1-1/2	40	48.3	7.14	34.02	7.25
2	50	60.3	8.74	42.82	11.11
2-1/2	65	73	9.53	53.94	14.92
3	80	88.9	11.13	66.64	21.35
4	100	114.3	13.49	87.32	33.54
5	125	141.3	15.88	109.54	49.12
6	150	168.3	18.26	131.78	67.57
8	200	219.1	23.01	173.08	111.27
10	250	273.1	28.58	215.94	172.34
12	300	323.9	33.32	257.26	238.78
14	350	355.6	35.71	284.18	281.72
16	400	406.4	40.49	325.42	365.38
18	450	457.2	45.24	366.72	459.62
20	500	508	50.01	407.98	564.85
24	600	610	59.54	490.92	808.27

2. Full dimensions — XXS (Double Extra Strong)

NPS	DN	OD (mm)	Wall (mm)	ID (mm)	Mass (kg/m)
1/2	15	21.3	7.47	6.36	2.55
3/4	20	26.7	7.82	11.06	3.64
1	25	33.4	9.09	15.22	5.45
1-1/4	32	42.2	9.7	22.8	7.77
1-1/2	40	48.3	10.16	27.98	9.56
2	50	60.3	11.07	38.16	13.44
2-1/2	65	73	14.02	44.96	20.39

NPS	DN	OD (mm)	Wall (mm)	ID (mm)	Mass (kg/m)
3	80	88.9	15.24	58.42	27.68
3-1/2	90	101.6	16.15	69.3	34.03
4	100	114.3	17.12	80.06	41.03
5	125	141.3	19.05	103.2	57.43
6	150	168.3	21.95	124.4	79.22
8	200	219.1	22.23	174.64	107.93
10	250	273.1	25.4	222.3	155.16
12	300	323.9	25.4	273.1	186.98

3. Stainless steel — ASME B36.19M (5S / 10S / 40S / 80S)

NPS	DN	OD (mm)	5S	10S	40S	80S
1/8	6	10.3	0.89	1.24	1.73	2.41
1/4	8	13.7	1.24	1.65	2.24	3.02
3/8	10	17.1	1.24	1.65	2.31	3.2
1/2	15	21.3	1.65	2.11	2.77	3.73
3/4	20	26.7	1.65	2.11	2.87	3.91
1	25	33.4	1.65	2.77	3.38	4.55
1-1/4	32	42.2	1.65	2.77	3.56	4.85
1-1/2	40	48.3	1.65	2.77	3.68	5.08
2	50	60.3	1.65	2.77	3.91	5.54
2-1/2	65	73	2.11	3.05	5.16	7.01
3	80	88.9	2.11	3.05	5.49	7.62
3-1/2	90	101.6	2.11	3.05	5.74	8.08
4	100	114.3	2.11	3.05	6.02	8.56
5	125	141.3	2.77	3.4	6.55	9.53
6	150	168.3	2.77	3.4	7.11	10.97
8	200	219.1	2.77	3.76	8.18	12.7
10	250	273.1	3.4	4.19	9.27	12.7
12	300	323.9	3.96	4.57	9.53	12.7
14	350	355.6	—	—	9.53	12.7
16	400	406.4	—	—	9.53	12.7
18	450	457.2	—	—	9.53	12.7
20	500	508	—	—	9.53	12.7
24	600	610	—	—	9.53	12.7
36	900	914	—	—	9.53	—

40S follows Schedule 40 through NPS 10 and holds at 0.375 in (9.53 mm) for NPS 12 and larger. 80S follows Schedule 80 through NPS 8 and holds at 0.500 in (12.70 mm) for NPS 10 and larger. Stainless plain-end weight is about 2% higher than carbon for the same dimensions; masses in the carbon tables are for carbon steel density.

Source: ASME B36.10M / B36.19M dimensional tables as published in cross-checked industry references. Mejorsteel — mejorsteel.com/resources/size-chart/