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

Mejorsteel reference chart. Wall thicknesses and outside diameters per ASME B36.10M (carbon/alloy) and ASME B36.19M (stainless). Plain-end weight W = 10.69 × (OD – t) × t (lb/ft). ID = OD – 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	0.405	—	—	—	—	0.068	0.068	—	0.095	0.095	—	—	—	—	—
1/4	8	0.54	—	—	—	—	0.088	0.088	—	0.119	0.119	—	—	—	—	—
3/8	10	0.675	—	—	—	—	0.091	0.091	—	0.126	0.126	—	—	—	—	—
1/2	15	0.84	0.065	—	—	—	0.109	0.109	—	0.147	0.147	—	—	—	0.188	0.294
3/4	20	1.05	0.065	—	—	—	0.113	0.113	—	0.154	0.154	—	—	—	0.219	0.308
1	25	1.315	0.065	—	—	—	0.133	0.133	—	0.179	0.179	—	—	—	0.25	0.358
1-1/4	32	1.66	0.065	—	—	—	0.14	0.14	—	0.191	0.191	—	—	—	0.25	0.382
1-1/2	40	1.9	0.065	—	—	—	0.145	0.145	—	0.2	0.2	—	—	—	0.281	0.4
2	50	2.375	0.065	—	—	—	0.154	0.154	—	0.218	0.218	—	—	—	0.344	0.436
2-1/2	65	2.875	0.083	—	—	—	0.203	0.203	—	0.276	0.276	—	—	—	0.375	0.552
3	80	3.5	0.083	—	—	—	0.216	0.216	—	0.3	0.3	—	—	—	0.438	0.6
3-1/2	90	4	0.083	—	—	—	0.226	0.226	—	0.318	0.318	—	—	—	—	0.636
4	100	4.5	0.083	—	—	—	0.237	0.237	0.281	0.337	0.337	—	0.438	—	0.531	0.674
5	125	5.563	0.109	—	—	—	0.258	0.258	—	0.375	0.375	—	0.5	—	0.625	0.75
6	150	6.625	0.109	—	—	—	0.28	0.28	—	0.432	0.432	—	0.562	—	0.719	0.864
8	200	8.625	0.109	—	0.25	0.277	0.322	0.322	0.406	0.5	0.5	0.594	0.719	0.812	0.906	0.875
10	250	10.75	0.134	—	0.25	0.307	0.365	0.365	0.5	0.594	0.5	0.719	0.844	1	1.125	1
12	300	12.75	0.156	—	0.25	0.33	0.406	0.375	0.562	0.688	0.5	0.844	1	1.125	1.312	1
14	350	14	0.156	0.25	0.312	0.375	0.438	0.375	0.594	0.75	0.5	0.938	1.094	1.25	1.406	—
16	400	16	0.165	0.25	0.312	0.375	0.5	0.375	0.656	0.844	0.5	1.031	1.219	1.438	1.594	—
18	450	18	0.165	0.25	0.312	0.438	0.562	0.375	0.75	0.938	0.5	1.156	1.375	1.562	1.781	—
20	500	20	0.188	0.25	0.375	0.5	0.594	0.375	0.812	1.031	0.5	1.281	1.5	1.75	1.969	—
24	600	24	0.218	0.25	0.375	0.562	0.688	0.375	0.969	1.219	0.5	1.531	1.812	2.062	2.344	—
30	750	30	0.25	0.312	0.5	0.625	—	0.375	—	—	0.5	—	—	—	—	—
36	900	36	—	0.312	0.5	0.625	0.75	0.375	—	—	0.5	—	—	—	—	—
42	1050	42	—	—	—	—	—	0.375	—	—	0.5	—	—	—	—	—
48	1200	48	—	—	—	—	—	0.375	—	—	0.5	—	—	—	—	—

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 (in)	Wall (in)	ID (in)	Weight (lb/ft)
1/8	6	0.405	0.068	0.269	0.24
1/4	8	0.54	0.088	0.364	0.43
3/8	10	0.675	0.091	0.493	0.57
1/2	15	0.84	0.109	0.622	0.85
3/4	20	1.05	0.113	0.824	1.13
1	25	1.315	0.133	1.049	1.68
1-1/4	32	1.66	0.14	1.38	2.27
1-1/2	40	1.9	0.145	1.61	2.72
2	50	2.375	0.154	2.067	3.66
2-1/2	65	2.875	0.203	2.469	5.8
3	80	3.5	0.216	3.068	7.58
3-1/2	90	4	0.226	3.548	9.12
4	100	4.5	0.237	4.026	10.8
5	125	5.563	0.258	5.047	14.63
6	150	6.625	0.28	6.065	18.99
8	200	8.625	0.322	7.981	28.58
10	250	10.75	0.365	10.02	40.52
12	300	12.75	0.406	11.938	53.57
14	350	14	0.438	13.124	63.5
16	400	16	0.5	15	82.85
18	450	18	0.562	16.876	104.76
20	500	20	0.594	18.812	123.23
24	600	24	0.688	22.624	171.45
36	900	36	0.75	34.5	282.62

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

NPS	DN	OD (in)	Wall (in)	ID (in)	Weight (lb/ft)
1/8	6	0.405	0.095	0.215	0.31

NPS	DN	OD (in)	Wall (in)	ID (in)	Weight (lb/ft)
1/4	8	0.54	0.119	0.302	0.54
3/8	10	0.675	0.126	0.423	0.74
1/2	15	0.84	0.147	0.546	1.09
3/4	20	1.05	0.154	0.742	1.48
1	25	1.315	0.179	0.957	2.17
1-1/4	32	1.66	0.191	1.278	3
1-1/2	40	1.9	0.2	1.5	3.63
2	50	2.375	0.218	1.939	5.03
2-1/2	65	2.875	0.276	2.323	7.67
3	80	3.5	0.3	2.9	10.26
3-1/2	90	4	0.318	3.364	12.52
4	100	4.5	0.337	3.826	15
5	125	5.563	0.375	4.813	20.8
6	150	6.625	0.432	5.761	28.6
8	200	8.625	0.5	7.625	43.43
10	250	10.75	0.594	9.562	64.49
12	300	12.75	0.688	11.374	88.71
14	350	14	0.75	12.5	106.23
16	400	16	0.844	14.312	136.74
18	450	18	0.938	16.124	171.08
20	500	20	1.031	17.938	209.06
24	600	24	1.219	21.562	296.86

2. Full dimensions — Schedule 10

NPS	DN	OD (in)	Wall (in)	ID (in)	Weight (lb/ft)
14	350	14	0.25	13.5	36.75
16	400	16	0.25	15.5	42.09
18	450	18	0.25	17.5	47.44
20	500	20	0.25	19.5	52.78
24	600	24	0.25	23.5	63.47
30	750	30	0.312	29.376	99.02
36	900	36	0.312	35.376	119.03

2. Full dimensions — Schedule 160

NPS	DN	OD (in)	Wall (in)	ID (in)	Weight (lb/ft)
1/2	15	0.84	0.188	0.464	1.31
3/4	20	1.05	0.219	0.612	1.95
1	25	1.315	0.25	0.815	2.85
1-1/4	32	1.66	0.25	1.16	3.77
1-1/2	40	1.9	0.281	1.338	4.86
2	50	2.375	0.344	1.687	7.47
2-1/2	65	2.875	0.375	2.125	10.02
3	80	3.5	0.438	2.624	14.34
4	100	4.5	0.531	3.438	22.53
5	125	5.563	0.625	4.313	32.99
6	150	6.625	0.719	5.187	45.39
8	200	8.625	0.906	6.813	74.76
10	250	10.75	1.125	8.5	115.75
12	300	12.75	1.312	10.126	160.42
14	350	14	1.406	11.188	189.29
16	400	16	1.594	12.812	245.48
18	450	18	1.781	14.438	308.79
20	500	20	1.969	16.062	379.53
24	600	24	2.344	19.312	542.64

2. Full dimensions — XXS (Double Extra Strong)

NPS	DN	OD (in)	Wall (in)	ID (in)	Weight (lb/ft)
1/2	15	0.84	0.294	0.252	1.72
3/4	20	1.05	0.308	0.434	2.44
1	25	1.315	0.358	0.599	3.66
1-1/4	32	1.66	0.382	0.896	5.22
1-1/2	40	1.9	0.4	1.1	6.41
2	50	2.375	0.436	1.503	9.04
2-1/2	65	2.875	0.552	1.771	13.71

NPS	DN	OD (in)	Wall (in)	ID (in)	Weight (lb/ft)
3	80	3.5	0.6	2.3	18.6
3-1/2	90	4	0.636	2.728	22.87
4	100	4.5	0.674	3.152	27.57
5	125	5.563	0.75	4.063	38.59
6	150	6.625	0.864	4.897	53.21
8	200	8.625	0.875	6.875	72.49
10	250	10.75	1	8.75	104.23
12	300	12.75	1	10.75	125.61

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

NPS	DN	OD (in)	5S	10S	40S	80S
1/8	6	0.405	0.035	0.049	0.068	0.095
1/4	8	0.54	0.049	0.065	0.088	0.119
3/8	10	0.675	0.049	0.065	0.091	0.126
1/2	15	0.84	0.065	0.083	0.109	0.147
3/4	20	1.05	0.065	0.083	0.113	0.154
1	25	1.315	0.065	0.109	0.133	0.179
1-1/4	32	1.66	0.065	0.109	0.14	0.191
1-1/2	40	1.9	0.065	0.109	0.145	0.2
2	50	2.375	0.065	0.109	0.154	0.218
2-1/2	65	2.875	0.083	0.12	0.203	0.276
3	80	3.5	0.083	0.12	0.216	0.3
3-1/2	90	4	0.083	0.12	0.226	0.318
4	100	4.5	0.083	0.12	0.237	0.337
5	125	5.563	0.109	0.134	0.258	0.375
6	150	6.625	0.109	0.134	0.28	0.432
8	200	8.625	0.109	0.148	0.322	0.5
10	250	10.75	0.134	0.165	0.365	0.5
12	300	12.75	0.156	0.18	0.375	0.5
14	350	14	—	—	0.375	0.5
16	400	16	—	—	0.375	0.5
18	450	18	—	—	0.375	0.5
20	500	20	—	—	0.375	0.5
24	600	24	—	—	0.375	0.5
36	900	36	—	—	0.375	—

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/