

ASME B36.10M Pipe Dimensions & Schedule Chart

NPS, Outside Diameter (in / mm), Wall Thickness and Pipe Schedule Reference

ASME B36.10M is the standard dimensional specification for seamless and welded wrought steel pipes. It provides full dimensional standards covering Nominal Pipe Size (NPS), Outside Diameter in both inches and millimeters, as well as wall thickness for various Pipe Schedules.

SCOPE OVERVIEW

- Nominal Pipe Size (NPS) & DN Specification
- Outside Diameter Dual Units: Inches (in) & Millimeters (mm)
- Schedule Wall Thickness (SCH 20, SCH 40, SCH 80, SCH 160)
- Standard Weight Designations (STD, XS, XXS)
- Industrial Material & Application Standards

ASME B36.10M Pipe Dimensions Chart

Complete Reference: NPS 1/8 to NPS 80 (Dual OD Units: Inches & mm)

NPS (in)	DN	OD (in)	OD (mm)	SCH 20 (mm)	SCH 40 (mm)	SCH 80 (mm)	SCH 160 (mm)
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	13.49
5	125	5.563	141.3	—	6.55	9.53	15.88
6	150	6.625	168.3	—	7.11	10.97	18.26
8	200	8.625	219.1	6.35	8.18	12.70	23.01
10	250	10.750	273.1	6.35	9.27	15.09	28.58
12	300	12.750	323.9	6.35	10.31	17.48	33.32
14	350	14.000	355.6	7.92	11.13	19.05	35.71
16	400	16.000	406.4	7.92	12.70	21.44	40.49
18	450	18.000	457.2	7.92	14.27	23.83	45.24
20	500	20.000	508.0	9.53	15.09	26.19	50.01
24	600	24.000	609.6	9.53	17.48	30.96	59.54
28	700	28.000	711.2	12.70	—	—	—
30	750	30.000	762.0	12.70	—	—	—
32	800	32.000	813.0	12.70	17.48	—	—
36	900	36.000	914.0	12.70	19.05	—	—
40	1000	40.000	1016.0	—	—	—	—
48	1200	48.000	1219.0	—	—	—	—
56	1400	56.000	1422.0	—	—	—	—
64	1600	64.000	1626.0	—	—	—	—
80	2000	80.000	2032.0	—	—	—	—

Common Schedule Designations

Wall Thickness & Specification Standards

SCH 5

SCH 10

SCH 20

SCH 30

SCH 40

SCH 60

SCH 80

SCH 100

SCH 120

SCH 140

SCH 160

STD

XS

XXS

Pipe wall thickness is determined by the combination of NPS and Schedule.

B36.10M vs B36.19M

Comparison of Standards

Specification	ASME B36.10M	ASME B36.19M
Main Application	Carbon & Alloy Steel Pipe	Stainless Steel Pipe
Pipe Type	Welded & Seamless	Welded & Seamless

REFERENCE NOTICE

This guide is independently prepared by Eastern Steel Manufacturing for pipe dimension reference. It is not a reproduction of the ASME B36.10M standard and does not replace the official ASME publication.