

Detailed Chart of Stainless Steel Pipe Sizes, Wall Thickness & Weight (ASTM Specification)

Nominal Bore (in)	Outside Diameter (in)	Sch-5S	Sch-10S	Sch-40S	Sch-80S	Sch-160S	Sch-XXS
SS Pipe 1/8 Inch	0.405	0.028	0.035	0.14	0.18	0.25	0.3
SS Pipe 1/4 Inch	0.54	0.03	0.04	0.145	0.18	0.25	0.32
SS Pipe 3/8 Inch	0.675	0.032	0.045	0.154	0.18	0.25	0.325
SS Pipe 1/2 Inch	0.84	0.035	0.05	0.154	0.2	0.25	0.35
SS Pipe 3/4 Inch	1.05	0.035	0.06	0.154	0.25	0.28	0.4
SS Pipe 1 Inch	1.315	0.04	0.08	0.179	0.3	0.32	0.44
SS Pipe 1¼ Inch	1.66	0.045	0.09	0.191	0.32	0.35	0.48
SS Pipe 1½ Inch	1.9	0.05	0.1	0.2	0.35	0.38	0.5
SS Pipe 2 Inch	2.375	0.06	0.12	0.22	0.375	0.42	0.58
SS Pipe 2½ Inch	2.875	0.07	0.14	0.245	0.375	0.43	0.6
SS Pipe 3 Inch	3.5	0.08	0.15	0.25	0.375	0.45	0.64
SS Pipe 4 Inch	4.5	0.1	0.18	0.25	0.375	0.5	0.71
SS Pipe 5 Inch	5.563	0.12	0.2	0.25	0.375	0.56	0.76
SS Pipe 6 Inch	6.625	0.14	0.22	0.28	0.5	0.65	0.88
SS Pipe 8 Inch	8.625	0.18	0.25	0.32	0.5	0.75	1.05
SS Pipe 10 Inch	10.75	0.2	0.3	0.4	0.6	0.9	1.25
SS Pipe 12 Inch	12.75	0.25	0.35	0.5	0.75	1	1.375
SS Pipe 14 Inch	14	0.25	0.375	0.5	0.75	1.1	1.45
SS Pipe 16 Inch	16	0.25	0.375	0.5	0.75	1.15	1.5
SS Pipe 18 Inch	18	0.25	0.375	0.5	0.75	1.2	1.55
SS Pipe 20 Inch	20	0.25	0.375	0.5	0.75	1.25	1.6
SS Pipe 24 Inch	24	0.25	0.375	0.5	0.75	1.3	1.75
SS Pipe 30 Inch	30	0.3	0.45	0.625	1	1.5	2
SS Pipe 36 Inch	36	0.35	0.5	0.75	1.25	1.75	2.25
SS Pipe 42 Inch	42	0.4	0.6	0.875	1.5	2	2.5
SS Pipe 48 Inch	48	0.45	0.65	1	1.5	2.25	2.75
SS Pipe 54 Inch	54	0.5	0.7	1.125	1.75	2.5	3
SS Pipe 60 Inch	60	0.55	0.75	1.25	2	2.75	3.25
SS Pipe 72 Inch	72	0.6	0.8	1.375	2.25	3	3.5
SS Pipe 84 Inch	84	0.65	0.9	1.5	2.5	3.25	3.75
SS Pipe 96 Inch	96	0.7	1	1.625	2.75	3.5	4
SS Pipe 108 Inch	108	0.75	1.1	1.75	3	3.75	4.25
SS Pipe 120 Inch	120	0.8	1.2	1.875	3.25	4	4.5

PS PS Steel

Think Stainless Steel !

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About Us PS Steel is a leading supplier and manufacturer of premium-quality stainless steel pipes, fittings, and accessories. We serve clients across India with durable and precision-engineered products.

Product Categories

Stainless Steel Pipes

SS Pipe Fittings

SS Flanges

SS Sheets & Plates

SS Valves

Stainless Steel Pipe Weight Chart as per SWG (Standard Wire Gauge) Thickness<>

Size (Inch)	OD (mm)	10 SWG (3.2 mm)	12 SWG (2.6 mm)	14 SWG (2.1 mm)	16 SWG (1.65 mm)	18 SWG (1.2 mm)	19 SWG (1.0 mm)
1/2"	21.3	1.32	1.09	0.87	0.72	0.56	0.49
3/4"	26.9	1.70	1.43	1.15	0.96	0.75	0.66
1"	33.7	2.24	1.89	1.53	1.28	1.00	0.88
1 1/4"	42.4	2.88	2.44	1.98	1.66	1.31	1.15
1 1/2"	48.3	3.33	2.82	2.29	1.92	1.52	1.34
2"	60.3	4.20	3.57	2.92	2.45	1.94	1.71
2 1/2"	76.1	5.38	4.57	3.74	3.14	2.47	2.18
3"	88.9	6.32	5.37	4.40	3.69	2.90	2.56
3 1/2"	101.6	7.25	6.16	5.06	4.25	3.34	2.94
4"	114.3	8.18	6.95	5.71	4.80	3.78	3.32
5"	141.3	10.17	8.66	7.13	6.00	4.73	4.16
6"	168.3	12.14	10.35	8.55	7.20	5.68	5.00
8"	219.1	15.83	13.50	11.14	9.39	7.41	6.52
10"	273.0	19.75	16.86	13.92	11.73	9.25	8.15
12"	323.9	23.45	20.03	16.55	13.95	10.98	9.67
14"	355.6	25.85	22.10	18.24	15.38	12.11	10.66
16"	406.4	29.60	25.30	20.80	17.55	13.83	12.16
18"	457.0	33.27	28.44	23.37	19.70	15.53	13.63
20"	508.0	36.99	31.62	25.94	21.87	17.25	15.13
24"	610.0	44.42	38.00	31.14	26.27	20.73	18.17

ASTM Specification, Dimensions & Tolerances for Stainless Steel Tubing and Piping (Weight in Kg per Meter

Specification / Pipe Size Range	Allowable Outside Diameter Variation (mm)	Allowable Wall Thickness Variation (mm)	Exact Length Tolerance (mm)	Testing Requirements
6 mm – 12.7 mm (¼")	±0.20	±8%	±2.0	Hydrostatic Test / Air Underwater Leak Test
12.7 mm – 21.3 mm (½")	±0.30	±8%	±2.5	Hydrostatic Test / Eddy Current
21.3 mm – 26.9 mm (¾")	±0.35	±10%	±2.5	Hydrostatic / Eddy Current
26.9 mm – 33.7 mm (1")	±0.40	±10%	±3.0	Hydrostatic / Eddy Current / Visual Surface
33.7 mm – 42.4 mm (1¼")	±0.45	±10%	±3.0	Hydrostatic / Eddy Current / Dimensional
42.4 mm – 48.3 mm (1½")	±0.50	±10%	±3.0	Hydrostatic / Ultrasonic (optional)
48.3 mm – 60.3 mm (2")	±0.60	±10%	±3.0	Hydrostatic / Eddy Current / Flattening Test
60.3 mm – 76.1 mm (2½")	±0.70	±10%	±3.0	Hydrostatic / Flattening / Bending Test
76.1 mm – 88.9 mm (3")	±0.75	±10%	±4.0	Hydrostatic / Eddy Current / Visual & Dimensional
88.9 mm – 101.6 mm (3½")	±0.80	±12.5%	±4.0	Hydrostatic / Ultrasonic (where applicable)
101.6 mm – 114.3 mm (4")	±0.90	±12.5%	±4.0	Hydrostatic / Flattening / Eddy Current
114.3 mm – 141.3 mm (5")	±1.00	±12.5%	±4.0	Hydrostatic / Ultrasonic / Bend Test
141.3 mm – 168.3 mm (6")	±1.10	±12.5%	±4.0	Hydrostatic / Ultrasonic / Visual Inspection
168.3 mm – 219.1 mm (8")	±1.20	±12.5%	±5.0	Hydrostatic / Ultrasonic / Eddy Current (optional)
219.1 mm – 273.0 mm (10")	±1.30	±12.5%	±5.0	Hydrostatic / Ultrasonic / Dimensional Accuracy
273.0 mm – 323.9 mm (12")	±1.40	±12.5%	±5.0	Hydrostatic / Ultrasonic / Mechanical Testing
323.9 mm – 355.6 mm (14")	±1.50	±12.5%	±6.0	Hydrostatic / Ultrasonic / Tensile Test
355.6 mm – 406.4 mm (16")	±1.60	±12.5%	±6.0	Hydrostatic / Ultrasonic / Hardness Test
406.4 mm – 457.0 mm (18")	±1.70	±12.5%	±6.0	Hydrostatic / Ultrasonic / Chemical Analysis
457.0 mm – 508.0 mm (20")	±1.80	±12.5%	±6.0	Hydrostatic / Ultrasonic / Visual & Chemical
508.0 mm – 610.0 mm (24")	±2.00	±12.5%	±8.0	Hydrostatic / Ultrasonic / Bend & Flattening
610.0 mm – 711.0 mm (28")	±2.20	±12.5%	±8.0	Hydrostatic / Ultrasonic / Mechanical & Chemical
711.0 mm – 813.0 mm (32")	±2.40	±12.5%	±8.0	Hydrostatic / Ultrasonic / Radiographic (optional)
813.0 mm – 914.0 mm (36")	±2.50	±12.5%	±10.0	Hydrostatic / Ultrasonic / Full NDT
914.0 mm – 1016.0 mm (40")	±2.80	±12.5%	±10.0	Hydrostatic / Ultrasonic / Radiographic
Over 1016 mm (Above 40")	±3.00	±12.5%	±12.0	Hydrostatic / Ultrasonic / Full NDT & Mechanical Tests