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**ANSI/ASME B36.19M-2004**

# **Stainless Steel Pipes**

The ASME/ANSI B16.39M standards is about the information of pipe size and dimensions, it includes the Scope, Size, Materials, Wall Thickness, Weights, Permissible Variations, Pipe Threads, Wall Thickness Designations, Wall Thickness Selections. You can find the schedule information for the stainless steel pipes thickness.

The detail information includes the sizes, dimensions and pressure ratings





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Followings are the table of Dimensions of welded and seamless stainless steel pipes and nominal weight of steel pipes when plain ends.

U.S. Customary Units				Schedule No.	SI Units			
NPS	OD, in.	Wall, in.	$W_{pe}$ , lb/ft		DN	OD, mm	Wall, mm	$W_{pe}$ , kg/m
$\frac{1}{8}$	0.405	... (1)	...	5S	6	10.3	... (1)	...
$\frac{1}{8}$	0.405	0.049 (1)	0.19	10S	6	10.3	1.24 (1)	0.28
$\frac{1}{8}$	0.405	0.068	0.24	40S	6	10.3	1.73	0.37
$\frac{1}{8}$	0.405	0.095	0.31	80S	6	10.3	2.41	0.47
$\frac{1}{4}$	0.540	... (1)	...	5S	8	13.7	... (1)	...
$\frac{1}{4}$	0.540	0.065 (1)	0.33	10S	8	13.7	1.65 (1)	0.49
$\frac{1}{4}$	0.540	0.088	0.43	40S	8	13.7	2.24	0.63
$\frac{1}{4}$	0.540	0.119	0.54	80S	8	13.7	3.02	0.80
$\frac{3}{8}$	0.675	... (1)	...	5S	10	17.1	... (1)	...
$\frac{3}{8}$	0.675	0.065 (1)	0.42	10S	10	17.1	1.65 (1)	0.63
$\frac{3}{8}$	0.675	0.091	0.57	40S	10	17.1	2.31	0.84
$\frac{3}{8}$	0.675	0.126	0.74	80S	10	17.1	3.20	1.10
$\frac{1}{2}$	0.840	0.065 (1)	0.54	5S	15	21.3	1.65 (1)	0.80
$\frac{1}{2}$	0.840	0.083 (1)	0.67	10S	15	21.3	2.11 (1)	1.00
$\frac{1}{2}$	0.840	0.109	0.85	40S	15	21.3	2.77	1.27
$\frac{1}{2}$	0.840	0.147	1.09	80S	15	21.3	3.73	1.62
$\frac{3}{4}$	1.050	0.065 (1)	0.68	5S	20	26.7	1.65 (1)	1.02
$\frac{3}{4}$	1.050	0.083 (1)	0.86	10S	20	26.7	2.11 (1)	1.28
$\frac{3}{4}$	1.050	0.113	1.13	40S	20	26.7	2.87	1.69
$\frac{3}{4}$	1.050	0.154	1.48	80S	20	26.7	3.91	2.20
1	1.315	0.065 (1)	0.87	5S	25	33.4	1.65 (1)	1.29
1	1.315	0.109 (1)	1.41	10S	25	33.4	2.77 (1)	2.09
1	1.315	0.133	1.68	40S	25	33.4	3.38	2.50
1	1.315	0.179	2.17	80S	25	33.4	4.55	3.24
$1\frac{1}{4}$	1.660	0.065 (1)	1.11	5S	32	42.2	1.65 (1)	1.65
$1\frac{1}{4}$	1.660	0.109 (1)	1.81	10S	32	42.2	2.77 (1)	2.69
$1\frac{1}{4}$	1.660	0.140	2.27	40S	32	42.2	3.56	3.39
$1\frac{1}{4}$	1.660	0.191	3.00	80S	32	42.2	4.85	4.47
$1\frac{1}{2}$	1.900	0.065 (1)	1.28	5S	40	48.3	1.65 (1)	1.90
$1\frac{1}{2}$	1.900	0.109 (1)	2.09	10S	40	48.3	2.77 (1)	3.11
$1\frac{1}{2}$	1.900	0.145	2.72	40S	40	48.3	3.68	4.05
$1\frac{1}{2}$	1.900	0.200	3.63	80S	40	48.3	5.08	5.41
2	2.375	0.065 (1)	1.61	5S	50	60.3	1.65 (1)	2.39
2	2.375	0.109 (1)	2.64	10S	50	60.3	2.77 (1)	3.93
2	2.375	0.154	3.66	40S	50	60.3	3.91	5.44
2	2.375	0.218	5.03	80S	50	60.3	5.54	7.48
$2\frac{1}{2}$	2.875	0.083 (1)	2.48	5S	65	73	2.11 (1)	3.69
$2\frac{1}{2}$	2.875	0.120 (1)	3.53	10S	65	73	3.05 (1)	5.26
$2\frac{1}{2}$	2.875	0.203	5.80	40S	65	73	5.16	8.63
$2\frac{1}{2}$	2.875	0.276	7.67	80S	65	73	7.01	11.41
3	3.500	0.083 (1)	3.03	5S	80	88.9	2.11 (1)	4.52
3	3.500	0.120 (1)	4.34	10S	80	88.9	3.05 (1)	6.46
3	3.500	0.216	7.58	40S	80	88.9	5.49	11.29
3	3.500	0.300	10.26	80S	80	88.9	7.62	15.27



Followings are the table of Dimensions of welded and seamless stainless steel pipes and nominal weight of steel pipes when plain ends.

NPS	U.S. Customary Units			Schedule No.	SI Units			
	OD, in.	Wall, in.	W <sub>pe</sub> , lb/ft		DN	OD, mm	Wall, mm	W <sub>pe</sub> , kg/m
3½	4.000	0.083 (1)	3.48	5S	90	101.6	2.11 (1)	5.18
3½	4.000	0.120 (1)	4.98	10S	90	101.6	3.05 (1)	7.41
3½	4.000	0.226	9.12	40S	90	101.6	5.74	13.57
3½	4.000	0.318	12.52	80S	90	101.6	8.08	18.64
4	4.500	0.083 (1)	3.92	5S	100	114.3	2.11 (1)	5.84
4	4.500	0.120 (1)	5.62	10S	100	114.3	3.05 (1)	8.37
4	4.500	0.237	10.80	40S	100	114.3	6.02	16.08
4	4.500	0.337	15.00	80S	100	114.3	8.56	22.32
5	5.563	0.109 (1)	6.36	5S	125	141.3	2.77 (1)	9.46
5	5.563	0.134 (1)	7.78	10S	125	141.3	3.40 (1)	11.56
5	5.563	0.258	14.63	40S	125	141.3	6.55	21.77
5	5.563	0.375	20.80	80S	125	141.3	9.53	30.97
6	6.625	0.109 (1)	7.59	5S	150	168.3	2.77 (1)	11.31
6	6.625	0.134 (1)	9.30	10S	150	168.3	3.40 (1)	13.83
6	6.625	0.280	18.99	40S	150	168.3	7.11	28.26
6	6.625	0.432	28.60	80S	150	168.3	10.97	42.56
8	8.625	0.109 (1)	9.92	5S	200	219.1	2.77 (1)	14.78
8	8.625	0.148 (1)	13.41	10S	200	219.1	3.76 (1)	19.97
8	8.625	0.322	28.58	40S	200	219.1	8.18	42.55
8	8.625	0.500	43.43	80S	200	219.1	12.70	64.64
10	10.750	0.134 (1)	15.21	5S	250	273.1	3.40 (1)	22.61
10	10.750	0.165 (1)	18.67	10S	250	273.1	4.19 (1)	27.79
10	10.750	0.365	40.52	40S	250	273.1	9.27	60.31
10	10.750	0.500 (2)	54.79	80S	250	273.1	12.70 (2)	81.56
12	12.750	0.156 (1)	21.00	5S	300	323.9	3.96 (1)	31.25
12	12.750	0.180 (1)	24.19	10S	300	323.9	4.57 (1)	35.99
12	12.750	0.375 (2)	49.61	40S	300	323.9	9.53 (2)	73.88
12	12.750	0.500 (2)	65.48	80S	300	323.9	12.70 (2)	97.47
14	14.000	0.156 (1)	23.09	5S	350	355.6	3.96 (1)	34.34
14	14.000	0.188 (1), (2)	27.76	10S	350	355.6	4.78 (1), (2)	41.36
14	14.000	0.375 (2)	54.62	40S	350	355.6	9.53 (2)	81.33
14	14.000	0.500 (2)	72.16	80S	350	355.6	12.70 (2)	107.40
16	16.000	0.165 (1)	27.93	5S	400	406.4	4.19 (1)	41.56
16	16.000	0.188 (1), (2)	31.78	10S	400	406.4	4.78 (1), (2)	47.34
16	16.000	0.375 (2)	62.64	40S	400	406.4	9.53 (2)	93.27
16	16.000	0.500 (2)	82.85	80S	400	406.4	12.70 (2)	123.31
18	18.000	0.165 (1)	31.46	5S	450	457	4.19 (1)	46.79
18	18.000	0.188 (1), (2)	35.80	10S	450	457	4.78 (1), (2)	53.31
18	18.000	0.375 (2)	70.65	40S	450	457	9.53 (2)	...
18	18.000	0.500 (2)	93.54	80S	450	457	12.70 (2)	...
20	20.000	0.188 (1)	39.82	5S	500	508	4.78 (1)	59.32
20	20.000	0.218 (1), (2)	46.10	10S	500	508	5.54 (1), (2)	68.65
20	20.000	0.375 (2)	78.67	40S	500	508	9.53 (2)	117.15
20	20.000	0.500 (2)	104.23	80S	500	508	12.70 (2)	155.13



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U.S. Customary Units				Schedule No.	SI Units			
NPS	OD, in.	Wall, in.	W <sub>pe</sub> , lb/ft		DN	OD, mm	Wall, mm	W <sub>pe</sub> , kg/m
22	22.000	0.188 (1)	43.84	5S	550	559	4.78 (1)	65.33
22	22.000	0.218 (1), (2)	50.76	10S	550	559	5.54 (1), (2)	75.62
22	22.000	...	...	40S	550	559	...	...
22	22.000	...	...	80S	550	559	...	...
24	24.000	0.218 (1)	55.42	5S	600	610	5.54 (1)	82.58
24	24.000	0.250 (1)	63.47	10S	600	610	6.35 (1)	94.53
24	24.000	0.375 (2)	94.71	40S	600	610	9.53 (2)	141.12
24	24.000	0.500 (2)	125.61	80S	600	610	12.70 (2)	187.07
30	30.000	0.250 (1)	79.51	5S	750	762	6.35 (1)	118.34
30	30.000	0.312 (1)	99.02	10S	750	762	7.92 (1)	147.29
30	30.000	...	...	40S	750	762	...	...
30	30.000	...	...	80S	750	762	...	...

GENERAL NOTES:

- (a) 1 in. = 25.4 mm.
- (b) For tolerances, see para. 6.
- (c) 1 lb/ft = 1.4895 kg/m.
- (d) Weights are given in pounds per linear foot (kilograms per meter) and are for carbon steel pipe with plain ends.
- (e) The different grades of stainless steel permit considerable variations in weight. The ferritic stainless steels may be about 5% less, and the austenitic stainless steels about 2% greater, than the values shown in this Table, which are based on weights for carbon steel.

NOTES:

- (1) These wall thicknesses do not permit threading in accordance with ANSI/ASME B1.20.1.
- (2) These dimensions do not conform to ASME B36.10M.