



TYPICAL SIZE RANGE, DIMENSIONS AND THEORETICAL WEIGHTS OF WELDED & SEAMLESS STAINLESS STEEL PIPE

Nominal Pipe Size		Outside Diameter		OD Tolerance	Nominal Wall Thickness & Weights								
(NPS)	(NB)	(in)	(mm)	(mm)	10S			40S			80S		
					(mm)	ID	(kg/m)	(mm)	ID	(kg/m)	(mm)	ID	(kg/m)
1/8	6	0.41	10.29	+ 0.4 to -0.8	1.24	7.81	0.28	1.73	6.83	0.36	2.41	5.47	0.46
1/4	8	0.54	13.72	+ 0.4 to -0.8	1.65	10.42	0.49	2.24	9.24	0.63	3.02	7.68	0.80
3/8	10	0.68	17.15	+ 0.4 to -0.8	1.65	13.85	0.63	2.31	12.53	0.84	3.20	10.75	1.10
1/2	15	0.84	21.34	+ 0.4 to -0.8	2.11	17.12	1.00	2.77	15.80	1.27	3.73	13.88	1.60
3/4	20	1.05	26.67	+ 0.4 to -0.8	2.11	22.45	1.27	2.87	20.93	1.93	3.91	18.85	2.18
1	25	1.32	33.41	+ 0.4 to -0.8	2.77	27.87	2.08	3.38	26.65	2.50	4.55	24.31	3.29
1 1/4	32	1.66	42.16	+ 0.4 to -0.8	2.77	36.62	2.69	3.56	35.04	3.38	4.85	32.46	4.46
1 1/2	40	1.90	48.26	+ 0.4 to -0.8	2.77	42.72	3.11	3.68	40.90	4.05	5.08	38.10	5.40
2	50	2.38	60.30	+ 0.8 to -0.8	2.77	54.76	3.93	3.91	52.48	5.43	5.54	49.22	7.48
2 1/2	65	2.88	73.03	+ 0.8 to -0.8	3.05	66.93	5.25	5.16	62.71	8.61	7.01	59.01	11.39
3	80	3.50	88.90	+ 0.8 to -0.8	3.05	82.80	6.44	5.49	77.92	11.27	7.62	73.66	15.32
3 1/2	90	4.00	101.60	+ 0.8 to -0.8	3.05	95.50	7.39	5.74	90.12	13.55	8.08	85.44	18.59
4	100	4.50	114.30	+ 0.8 to -0.8	3.05	108.20	8.34	6.02	102.26	16.06	8.56	97.18	22.31
5	125	5.56	141.30	+ 1.6 to -0.8	3.40	134.50	11.56	6.55	128.20	21.70	9.53	122.24	30.94
6	150	6.63	168.28	+ 1.6 to -0.8	3.40	161.48	13.82	7.11	154.06	28.30	10.97	146.34	42.54
8	200	8.63	219.18	+ 1.6 to -0.8	3.76	211.66	19.93	8.18	202.82	42.50	12.70	193.78	64.60
10	250	10.75	273.05	+ 2.4 to -0.8	4.19	264.67	27.82	9.27	254.51	60.24	12.70	247.65	81.42
12	300	12.75	323.85	+ 2.4 to -0.8	4.57	314.71	36.00	9.53	304.79	73.78	12.70	298.45	97.31
14	350	14.00	355.60	+ 2.4 to -0.8	4.78	346.04	41.30						
16	400	16.00	406.40	+ 2.4 to -0.8	4.78	396.84	47.30						
18	450	18.00	457.20	+ 2.4 to -0.8	4.78	447.64	53.30						
20	500	20.00	508.00	+ 3.2 to -0.8	5.54	496.92	68.60						
22	550	22.00	558.80	+ 3.2 to -0.8	5.54	547.72	75.50						
24	600	24.00	609.60	+ 3.2 to -0.8	6.35	596.90	94.50						
30	750	30.00	762.00	+ 4.0 to -0.8	7.93	746.14	147.40						

Note:- Note1: Diameter and wall thickness as per ANSI B36.19

Note 2: Weights are given as a guide only

Note 3: Permissible variations in dimensions of ASTM A312 pipe are given in ASTM/A1530M

- * Wall thickness shall be not more than 12.5% under the nominal specified
- * Outside diameter shall be within the tolerance limits above. These limits include ovality unless the pipe is defined as "thin wall" wall thickness 3% or less of the outside diameter), in which case the difference in extreme outside diameter readings (ovality) in any one cross-section shall not exceed 1.5% of the specified outside diameter. Much schedule 5S and 10S pipe in particular is "thin wall".