

## Stainless Steel Pipe Dimension As Per Astm & Weight-Kg. Per Mtr. (Ansi B36.19)

Nominal Bore		Outside Diameter	Sch-5S		Sch-10S		Sch-40S		Sch-80S		Sch-160S		Sch-XXS	
mm	INCH		Wt mm	Weig ht (Kg/mt)	Wt mm	Weig ht (Kg/mt)	Wt mm	Weig ht (Kg/mt)	Wt mm	Weig ht (Kg/mt)	Wt mm	Weig ht (Kg/mt)	Wt mm	Weight (Kg/mt)
3	1/8	10.3	1.24	0.276	1.24	0.28	1.73	0.37	2.41	0.47	-	-	-	-
6	1/4	13.7	1.24	0.390	1.65	0.49	2.24	0.63 1	3.0 2	0.80	-	-	-	-
10	3/8	17.1	1.24	0.490	1.65	0.63	2.31	0.84 5	3.2 0	1.10	-	-	-	-
15	1/2	21.3	1.65	0.800	2.11	1.00	2.77	1.27	3.7 5	1.62	4.75	1.94	7.47	2.55
20	3/4	26.7	1.65	1.03	2.11	1.28	2.87	1.68	3.9 1	2.20	5.54	2.89	7.82	3.63
25	1	33.4	1.65	1.30	2.77	2.09	3.38	2.50	4.5 5	3.24	6.35	4.24	9.09	5.45
32	1 1/4	42.2	1.65	1.65	2.77	2.70	3.56	3.38	4.8 5	4.47	6.35	5.61	9.70	7.77
40	1 1/2	48.3	1.65	1.91	2.77	3.11	3.68	4.05	5.0 8	5.41	7.14	7.25	10.16	9.54
50	2	60.3	1.65	2.40	2.77	3.93	3.91	5.44	5.5 4	7.48	8.74	11.1	11.07	13.44
65	2 1/2	73.0	2.11	3.69	3.05	5.26	5.16	8.63	7.0 1	11.4	9.53	14.9	14.2	20.39
80	3	88.9	2.11	4.51	3.05	6.45	5.49	11.3 0	7.6 2	15.2	11.1	21.3	15.24	27.65
100	4	114.3	2.11	5.84	3.05	8.36	6.02	16.0 7	8.5 6	22.3	13.49	33.54	17.12	41.03
125	5	141.3	2.77	9.47	3.40	11.57	6.55	21.8	9.5 3	31.97	15.88	49.11	19.05	57.43
150	6	168.3	2.77	11.32	3.40	13.84	7.11	28.3	10.97	42.7	18.2	67.56	21.95	79.22
200	8	219.1	2.77	14.79	3.76	19.96	8.18	42.6	12. 7	64.6	23.0	111.2	22.23	107.8
250	10	273.1	3.40	22.63	4.19	27.78	9.27	60.5	12. 7	96.0	28.6	172.4	25.40	155.15
300	12	323.9	3.96	31.25	4.57	36.00	9.52	73.8 8	12. 7	132.0	33.32	238.76	25.40	186.97
350	14	355.6	3.96	34.36	4.78	41.3	11.13	94.5 9	19.05	158.08	35.71	281.70	-	-
400	16	406.4	4.19	41.56	4.78	47.29	12.7	123.30	21.41	203.33	40.46	365.11	-	-
450	18	457.2	4.19	46.80	4.78	53.42	14.27	155.80	23. 8	254.36	45.71	466.40	-	-
500	20	508.0	4.78	59.25	5.54	68.71	15.09	183.42	26.19	311.2	49.99	564.68	-	-
600	24	609.6	5.54	82.47	6.35	94.45	17.48	255.41	30.96	442.08	59.54	808.22	-	-

## Weight & Thickness Of S.S Guage Pipes

DIMENSION		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)
Size	OD	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR	Weight/MTR
1/2"	12.7	0.754	0.651	0.552	0.452	0.342	0.290
5/8"	15.875	1.006	0.856	0.718	0.582	0.437	0.369
3/4"	19.05	1.258	1.061	0.883	0.712	0.531	0.448
1"	25.4	1.762	1.470	1.214	0.972	0.720	0.605
1 1/4"	31.75	2.266	1.880	1.544	1.232	0.909	0.763
1 1/2"	38.1	2.770	2.289	1.875	1.492	1.098	0.920
2"	50.8	3.778	3.108	2.537	2.012	1.476	1.235
2 1/2"	63.5	4.786	3.928	3.198	2.531	1.854	1.550
3"	76.2	5.794	4.747	3.860	3.051	2.232	1.865
3 1/2"	88.9	6.802	5.566	4.521	3.571	2.610	2.180
4"	101.6	7.810	6.385	5.183	4.091	2.988	2.495

## ASTM Specification & Tolerance For Tubing & Piping

Specification	Allowable Outside Diameter Variation in mm			Allowable Wall Thickness Variation		Exact Length Tolerance in mm		Testing
	Nominal Diameter	Over	Under	%Over	%Under	Over	Under	
ASTM-A213 Seamless Boiler Superheater and Heat Exchanger Tubes	Under 25.4	0.10	0.101	+20	0	3.175	0	Flattening Test Tension Test Flare Test Hardness Test 100% Hydrostatic test Refer to ASTM A-450
	16	6						
	25.4-38.1 incl	0.15	0.152	+22	0	3.175	0	
	24	4						
	38.1-50.8 excl	0.20	0.203	+22	0	3.176	0	
ASTM-A249 Welded Boiler Superheater, Heat Exchanger And Condenser Tubes	50.8-63.5 excl	0.25	0.254	+22	0	4.46	0	Tension Test Flattening Test Flange Test Reverse Bend Test Hardness Test 100% Hydrostatic Test Refer to ASTM A-450
	32	2						
	63.5-76.2 excl	0.30	0.304	+22	0	4.76	0	
	4	8						
	76.2-101.6 incl	0.38	0.381	+22	0	4.76	0	
ASTM-A269 Seamless & Welded Tubing for General Service	1							Flare Test (Seamless Only) Flange Test (Welded Only) Hardness Test Reverse Flattening Test (Welded only)  100% Hydrostatic Test Refer to ASTM-A269
	Under 25.4	0.10	0.101	+10	-10	3.175	0	
	16	6						
	25.4-38.1 incl	0.15	0.152	+10	-10	3.175	0	
	24	4						
ASTM-A270 Seamless & Welded Sanitary Tubing	38.1-50.8 Excl	0.20	0.203	+10	-10	3.175	0	Reverse flattening Test 100% Hydrostatic Test External' polish on all tubes Refer to ASTM A-270
	32	2						
	50.0-63.5 excl	0.25	0.254	+10	-10	4.762	0	
	4							
	63.5-76.2 excl	0.38	0.304	+10	-10	4.762	0	
ASTM-A312 Seemless & Welded pipe	48	8						Tension Test Flattening Test 100% Hydrostatic Test Refer to ASTM A-530
	8							
	76.2-101.6 incl	0.38	0.381	+10	-10	4.762	0	
	1							
	Minimum Wall tubes + 18% 0 available On request							
ASTM A-358 Welded pipe	Untp 12.7	0.13	0.13	+15	-15	3.2	0	Refer to ASTM A-530
	12.7-38.1 excl	0.13	0.13	+10	-10	3.2	0	
	16							
	38.1-88.9 excl	0.25	0.25	+10	-10	4.8	0	
	24							
ASTM-A312 Seemless & Welded pipe	88.9-139.7 excl	0.38	0.38	+10	-10	4.8	0	Tension Test Flattening Test 100% Hydrostatic Test Refer to ASTM A-530
	32	2						
	139.7-203.2 excl	0.76	0.76	+10	-10	4.8	0	
	4							
	Minimum Wall 12.5% under nominal wall Specified							
ASTM-A270 Seamless & Welded Sanitary Tubing	25.4	.05	.20	+10.0	-10.0	3.2	0	Reverse flattening Test 100% Hydrostatic Test External' polish on all tubes Refer to ASTM A-270
	38.1	.05	.20	+10.0	-10.0	3.2	0	
	50.8	0.05	0.28	+10.0	-10.0	3.2	0	
	60.5	0.05	0.28	+10.0	-10.0	3.2	0	
	76.2	.08	.30	+10.0	-10.0	3.2	0	
ASTM-A312 Seemless & Welded pipe	101.6	.08	.38	+10.0	-10.0	4.8	0	Tension Test Flattening Test 100% Hydrostatic Test Refer to ASTM A-530
	3.175-38.1 incl	.4	.79	Minimum Wall 12.5% under		6.4	0	
	38.1-1016 incl	.79	.79	nominal wall Specified		6.4	0	
	101.6-203.2 incl	1.59	0.79			(Normally Random Lengths ordered)		