

STEEL PIPES TO AMERICAN STANDARD ANSI B36.10

NOMINAL SIZES SHOWN ARE DN : SI METRIC TERM NPS : ANSI TERM

Nominal Size		Outside Diam mm	NOMINAL WALL THICKNESS FOR WELDED AND SEAMLESS STEEL PIPE												
DN	NPS		ANSI B36.10			All dimensions are shown in millimetres									
			Std	Extra Strong	XX Strong	Sched 10	Sched 20	Sched 30	Sched 40	Sched 60	Sched 80	Sched 100	Sched 120	Sched 140	Sched 150
6	1/8	10.3	1.73	2.41					1.73		2.41				
8	1/4	13.7	2.24	3.02					2.24		3.02				
10	3/8	17.1	2.31	3.20					2.31		3.20				
15	1/2	21.3	2.77	3.73	7.47				2.77		3.73				4.78
20	3/4	26.7	2.87	3.91	7.82				2.87		3.91				5.56
25	1	33.4	3.38	4.55	9.09				3.38		4.55				6.35
32	1 1/4	42.2	3.56	4.85	9.70				3.56		4.85				6.35
40	1 1/2	48.3	3.68	5.08	10.15				3.68		5.08				7.14
50	2	60.3	3.91	5.54	11.07				3.91		5.54				8.74
65	2 1/2	73.0	5.16	7.01	14.02				5.16		7.01				9.53
80	3	88.9	5.49	7.62	15.24				5.49		7.62				11.13
90	3 1/2	101.6	5.74	8.08					5.74		8.08				
100	4	114.3	6.02	8.56	17.12				6.02		8.56		11.13		13.49
125	5	141.3	6.55	9.53	19.05				6.55		9.53		12.70		15.88
150	6	168.3	7.11	10.97	21.95				7.11		10.97		14.27		18.26
200	8	219.1	8.18	12.70	22.23		6.35	7.04	8.18	10.31	12.70	15.09	18.26	20.62	23.01
250	10	273.1	9.27	12.70	25.40		6.35	7.80	9.27	XS	15.09	18.26	21.44	XXS	28.58
300	12	323.9	9.53	12.70	25.40		6.35	8.38	10.31	14.27	17.48	21.44	XXS	28.58	33.32
350	14	355.6	9.53	12.70		6.35	7.92	Std.W.T.	11.13	15.09	19.05	23.83	27.79	31.75	35.71
400	16	406.4	9.53	12.70		6.35	7.92	Std.W.T.	XS	16.66	21.44	26.19	30.96	36.53	40.49
450	18	457	9.53	12.70		6.35	7.92	11.13	14.27	19.05	23.83	29.36	34.93	39.67	45.24
500	20	508	9.53	12.70		6.35	Std.W.T.	XS	15.09	20.62	26.19	32.54	38.10	44.45	50.01
550	22	559	9.53	12.70		6.35	Std.W.T.	XS		22.23	28.58	34.93	41.28	47.63	53.98
600	24	610	9.53	12.70		6.35	Std.W.T.	14.27	17.48	24.61	30.96	38.89	46.02	52.37	59.54
650	26	660	9.53	12.70			7.92	XS							
700	28	711	9.53	12.70			7.92	XS	15.88						
750	30	762	9.53	12.70			7.92	XS	15.88						
800	32	813	9.53	12.70			7.92	XS	15.88	17.48					
850	34	864	9.53	12.70			7.92	XS	15.88	17.48					
900	36	914	9.53	12.70			7.92	XS	15.88	19.05					
1050	42	1067	9.53	12.70											

Formula to attain approximate mass in kilograms per metre (kg/m) for Steel Round Pipe and Tubing

$$m = (D - t) \times t \times 0.02466$$

Where:

- m = mass to the nearest 0.01 kg/m
- D = Outside Diameter in millimetres
(To nearest 0.1 mm for OD up to 406.4mm)
(To nearest 1.0mm for OD 457 mm and above)
- t = Wall thickness to nearest 0.01 mm

Example

{	Nominal Size	{	Step 1. 323.9 - 9.53 = 314.37
	DN300 NPS12		Step 2. 314.37 x 9.53 = 2995.946
	OD = 323.9 mm W.T. - 9.53 mm		Step 3. 2995.9461 x 0.024.66 = 73.88 kg/m