

Pipe Schedules

INCHES	NOMINAL PIPE SIZE MM	OD MM	5S	10S	10	20	30	STD	40S	40	60	X5	80S	80	100	120	140	160	XXS
1/8	6	10.3		1.24 0.28				1.73 0.37	1.73 0.36	1.73 0.37		2.41 0.47	2.41 0.48	2.41 0.47					
1/4	8	13.7		1.65 0.51				2.24 0.63	2.24 0.64	2.24 0.63		3.02 0.80	3.02 0.82	3.02 0.80					
3/8	10	17.1		1.65 0.64				2.31 0.84	2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.12	3.20 1.10					
1/2	15	21.3	1.65 0.82	2.11 1.01				2.77 1.27	2.77 1.30	2.77 1.27		3.73 1.62	3.73 1.65	3.73 1.62				4.78 1.95	7.47 2.55
3/4	20	26.7	1.65 1.04	2.11 1.31				2.87 1.69	2.87 1.71	2.87 1.69		3.91 2.20	3.91 2.24	3.91 2.20				5.56 2.90	7.82 3.64
1	25	33.4	1.65 1.33	2.77 2.13				3.38 2.50	3.38 2.55	3.38 2.50		4.55 3.24	4.55 3.29	4.55 3.24				6.35 4.24	9.09 5.45
1 1/4	32	42.2	1.65 1.68	2.77 2.76				3.56 3.39	3.56 3.46	3.56 3.39		4.85 4.47	4.85 4.56	4.85 4.47				6.35 5.61	9.70 10.77
1 1/2	40	48.3	1.65 1.95	2.77 3.17				3.68 4.05	3.68 4.13	3.68 4.05		5.08 5.41	5.08 5.51	5.08 5.41				7.14 7.25	10.15 9.56
2	50	60.3	1.65 2.44	2.77 4.01				3.91 5.44	3.91 5.54	3.91 5.44		5.54 7.48	5.54 7.63	5.54 7.48				8.74 11.11	11.07 13.44
2 1/2	65	73.0	2.11 3.77	3.05 5.36				5.16 8.63	5.16 8.81	5.16 8.63		7.01 11.41	7.01 11.64	7.01 11.41				9.53 14.92	14.02 20.39
3	80	88.9	2.11 4.60	3.05 6.59				5.49 11.29	5.49 11.52	5.49 11.29		7.62 15.27	7.62 15.59	7.62 15.27				11.13 21.35	15.24 27.68
3 1/2	90	101.6	2.11 5.29	3.05 7.55				5.74 13.57	5.74 13.84	5.74 13.57		8.08 18.63	8.08 19.01	8.08 18.63					
4	100	114.3	2.11 5.96	3.05 8.52				6.02 16.07	6.02 16.40	6.02 16.07		8.56 22.32	8.56 22.77	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03
5	125	141.3	2.77 9.67	3.40 11.82				6.55 21.77	6.55 22.20	6.55 21.77		9.53 30.97	9.53 31.59	9.53 30.97		12.70 40.28		15.88 49.11	19.05 57.43
6	150	168.3	2.77 11.55	3.40 14.13				7.11 28.26	7.11 28.83	7.11 28.26		10.97 42.56	10.97 43.42	10.97 42.56		14.27 54.20		18.26 67.56	21.95 79.22
8	200	219.1	2.77 15.09	3.76 20.37		6.35 33.31	7.04 36.81	8.18 42.55	8.18 43.39	8.18 42.55	10.31 53.08	12.70 64.64	12.70 65.95	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92
10	250	273.1	3.40 23.08	4.19 28.34		6.35 41.77	7.80 51.03	9.27 60.31	9.27 61.52	9.27 60.31	12.70 81.55	12.70 81.55	12.70 83.19	15.09 96.01	18.26 114.75	21.44 133.06	25.40 155.15	28.58 172.33	25.40 155.15
12	300	323.9	3.96 31.89	4.57 36.73		6.35 49.73	8.38 65.20	9.53 73.88	9.52 75.32	10.31 79.73	14.27 108.96	12.70 97.46	12.70 99.43	17.48 132.08	21.44 159.91	25.40 186.97	28.58 208.14	33.32 238.76	25.40 186.97
14	350	355.6	3.96 35.06	4.78 42.14	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33	9.53 94.55	11.13 94.55	15.09 126.71	12.70 107.39		19.05 158.10	23.83 194.96	27.79 224.65	31.75 253.56	35.71 281.70	
16	400	406.4	4.19 42.41	4.78 48.26	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 93.27	16.66 123.30	12.70 160.12	12.70 123.30		21.44 203.53	26.19 245.56	30.96 286.84	36.53 333.19	40.49 365.35	
18	450	457.2	4.19 47.77	4.78 54.36	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.16	9.53 105.16	14.27 155.80	19.05 205.74	12.70 139.15		23.88 254.55	29.36 309.62	34.93 363.56	39.67 408.26	45.24 459.37	
20	500	508.0	4.78 60.46	5.54 70.00	6.35 78.55	7.92 117.15	9.53 155.12	9.53 117.15	15.09 183.42	12.70 247.83	14.27 247.83	12.70 155.12		26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.01 564.81	
22	550	558.8	4.78 66.57	5.54 77.06	6.35 86.54	7.92 129.13	9.53 171.09	9.53 129.13		22.23 294.25	12.70 171.09			28.58 373.83	34.93 451.42	41.28 527.02	47.63 600.63	53.98 672.26	
24	600	609.6	5.54 84.16	6.35 96.37	6.35 94.53	7.92 141.12	9.53 209.64	9.53 141.12	17.48 255.41	12.70 355.26	14.27 355.26	12.70 187.06		30.96 442.08	38.89 547.71	46.02 640.03	52.27 720.15	59.54 808.22	
26	650	660.04			7.92 127.36	12.70 202.72		9.53 152.87				12.70 202.72							
28	700	711.2			7.92 137.32	12.70 218.69	15.88 271.21	9.53 164.85				12.70 218.69							
30	750	762.0	6.35 120.72	7.92 150.36	7.92 147.28	12.70 234.67	15.88 292.18	9.53 176.84				12.70 234.67							
32	800	812.8			7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82		17.48 342.91		12.70 250.64							
34	850	863.6			7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31		17.48 364.90		12.70 266.61							
36	900	914.4			7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56		19.05 420.42		12.70 282.27							
38	950	965.2						9.53 224.54				12.70 298.24							
40	1000	1016.0						9.53 236.63				12.70 314.22							
42	1050	1066.8						9.53 248.52				12.70 330.19							
44	1100	1117.6						9.53 260.50				12.70 346.16							
46	1150	1168.4						9.53 272.25				12.70 351.82							
48	1200	1219.2						9.53 284.24				12.70 377.79							

Wall Thickness = mm
 Weight = kg/m (plain end mass)
 5 S, 10 S, 40 S, 80 S – ANSI B36.19

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

$M = (D^2) \times 0.02466$
 Where:
 M = Mass to the nearest 0.01 kg/m
 D = Outside diameter in millimetres
 (To nearest 0.1mm for OD up to 406.4mm)
 (To nearest 1.0mm for OD 457mm and above)
 t = Wall thickness to nearest 0.01mm

EXAMPLE: Nominal Size DN300 NPS12
 OD = 323.9mm W.T. = 9.53mm

Step 1. $323.9 - 9.53 = 314.37$
 Step 2. $314.37 \times 9.53 = 2995.9461$
 Step 3. $2995.9461 \times 0.02466 = 73.88\text{kg/m}$

Legend WT /
 KG/m

PER ASME B36.10m + ASME B36.19