PETRO PIPING

Upper figures - wall thickness in mm
Lower figures - weight in kg per meter
1 kg/mtr = 0.671969 lb/foot
1 lb/foot = 1.488164 kg/mtr

1. The carbon steel pipe: (OD IN MM – WALL THK IN MM) X (WALL THK) X 0.02466
2. The stainless steel pipe: (OD IN MM – WALL THK IN MM) X (WALL THK) X 0.02504

SI UNITS

ASME / ANSI Pipe Schedule
SI Units
ASME / ANSI B 36.10/ B36.19

OD = mm
Wall thickness = mm
Weight = kg/m
Vol/m = m^3

		Figures based on carbon steel													Figures based on austenitic steel				Shipping
Nominal pipe size	OD mm	10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	40S	80S	Vol/ m m3
1/8	10.30				1.73 0.37	1.73 0.37		2.41 0.47	2.41 0.47							1.24 0.28	1.73 0.37	2.41 0.47	0.0001
1 / 4	13.70				2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80							1.65 0.49	2.24 0.63	3.02 0.80	0.0001
3 / 8	17.10				2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10							1.65 0.63	2.31 0.84	3.20 1.10	0.0003
1 / 2	21.30				2.77 1.27	2.77 1.27		3.73 1.62	3.73 1.62				4.78 1.95	7.47 2.55	1.65 0.80	2.11 1.00	2.77 1.27	3.73 1.62	0.0004
3 / 4	26.70				2.87 1.69	2.87 1.69		3.91 2.20	3.91 2.20				5.56 2.90	7.82 3.64	1.65 1.02	2.11 1.28	2.87 1.69	3.91 2.20	0.0007
1	33.40				3.38 2.50	3.38 2.50		4.55 3.24	4.55 3.24				6.35 4.24	9.09 5.45	1.65 1.29	2.77 2.09	3.38 2.50	4.55 3.24	0.0011
1 1 / 4	42.20				3.56 3.39	3.56 3.39		4.85 4.47	4.85 4.47				6.35 5.61	9.70 7.77	1.65 1.65	2.77 2.69	3.56 3.39	4.85 4.47	0.0018
1 1 / 2	48.30				3.68 4.05	3.68 4.05		5.08 5.41	5.08 5.41				7.14 7.25	10.15 9.56	1.65 1.90	2.77 3.11	3.68 4.05	5.08 5.41	0.0023
2	60.30				3.91 5.44	3.91 5.44		5.54 7.48	5.54 7.48				8.74 11.11	11.07 13.44	1.65 2.39	2.77 3.93	3.91 5.54	5.54 7.48	0.0036
2 1 / 2	73.00				5.16 8.63	5.16 8.63		7.01 11.41	7.01 11.41				9.53 14.92	14.02 20.39	2.11 3.69	3.05 5.26	5.16 8.63	7.01 11.41	0.0053
3	88.90				5.49 11.29	5.49 11.29		7.62 15.27	7.62 15.27				11.13 21.35	15.24 27.68	2.11 4.52	3.05 6.46	5.49 11.29	7.62 15.27	0.0079
3 1 / 2	101.60				5.74 13.57	5.74 13.57		8.08 18.63	8.08 18.63						2.11 5.18	3.05 7.41	5.74 13.57	8.08 18.64	0.0103
4	114.30				6.02 16.08	6.02 16.08		8.56 22.32	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03	2.11 5.84	3.05 8.37	6.02 16.08	8.56 2232	0.0130
5	141.30				6.55 21.77	6.55 21.77		9.53 30.97	9.53 30.97		12.70 40.28		15.88 49.12	19.05 57.43	2.77 9.46	3.40 11.56	6.55 21.77	9.53 31.97	0.0199
6	168.30				7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56		14.27 54.21		18.26 67.57	21.95 79.22	2.77 11.31	3.40 13.83	7.11 28.26	10.97 42.56	0.028
8	219.10		6.35 33.32	7.04 36.82	8.18 42.55	8.18 42.55	10.31 53.09	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.93	23.01 111.27	22.23 107.93	2.77 14.78	3.76 19.97	8.18 42.55	12.70 64.64	0.048
10	273.10		6.35 41.76	7.80 51.01	9.27 60.29	9.27 60.29	12.70 81.53	12.70 81.53	15.09 95.98	18.26 114.71	21.44 133.01	25.40 155.10	28.58 172.27	25.40 155.10	3.40 22.61	4.19 27.79	9.27 60.31	12.70 81.56	0.074
12	323.90		6.35 49.71	8.38 65.19	9.53 73.86	10.31 79.71	14.27 108.93	12.70 97.44	17.48 132.05	21.44 159.87	25.40 186.92	28.58 208.08	33.32 238.69	25.40 186.92	3.96 31.25	4.57 35.99	9.53 73.88	12.70 97.47	0.104
14	355.60	6.35 54.69	7.92 67.91	9.53 81.33	9.53 81.33	11.13 94.55	15.09 126.72	12.70 107.40	19.05 158.11	23.83 194.98	27.79 224.66	31.75 253.58	35.71 281.72		3.96 34.34	4.78 41.36	9.53 81.33	12.70 107.40	0.126
16	406.40	6.35 62.65	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.31	16.66 160.13	12.70 123.31	21.54 203.54	26.19 245.57	30.96 286.66	36.53 333.21	40.49 365.38		4.19 41.56	4.78 47.34	9.53 93.27	12.70 123.31	0.165
18	457.00	6.35 70.57	7.92 87.71	11.13 122.38	9.53 105.17	14.27 155.81	19.05 205.75	12.70 139.16	23.83 254.57	29.36 309.64	34.93 363.58	39.67 408.28	45.24 459.39		4.19 46.79	4.78 53.31	9.53 105.24	12.70 139.33	0.208
20	508.00	6.35 78.56	9.53 117.15	12.70 155.13	9.53 117.15	15.09 183.43	20.62 247.84	12.70 155.13	26.19 311.19	32.54 381.55	38.10 441.52	44.45 508.15	50.01 564.85		4.78 59.32	5.54 68.65	9.53 117.15	12.70 155.13	0.258
22	559.00	6.35 86.55	9.53 129.14	12.70 171.10	9.53 129.14		22.23 294.27	12.70 171.10	28.58 373.85	34.93 451.45	41.28 527.05	47.63 600.67	53.98 672.30		4.78 65.33	5.54 75.62			0.312
24	610.00	6.35 94.53	9.53 141.12	14.27 209.65	9.53 141.12	17.48 255.43	24.61 355.28	12.70 187.07	30.96 442.11	38.89 547.74	46.02 640.07	52.37 720.19	59.54 808.27		5.54 82.58	6.35 94.53	9.53 141.12	12.70 187.07	0.372
26	660.00	7.92 127.36	12.70 202.74		9.53 152.88			12.70 202.74											0.435
28	711.00	7.92 137.32	12.70 218.71	15.88 272.23	9.53 164.86			12.70 218.71											0.505
30	762.00	7.92 147.29	12.70 234.68	15.88 292.20	9.53 176.85			12.70 234.68							6.35 118.34	7.92 147.29			0.580
32	813.00	7.92 157.25	12.70 250.65	15.88 312.17	9.53 188.83	17.48 342.94		12.70 250.65											0.660
34	864.00	7.92 167.21	12.70 266.63	15.88 332.14	9.53 200.82	17.48 364.92		12.70 266.63											0.746
36	914.00	7.92 176.97	12.70 282.29	15.88 351.73	9.53 212.57	19.05 420.45		12.70 282.29											0.835
38	965.00				9.53 224.56			12.70 298.26											0.931
40	1016.00				9.53 236.54			12.70 314.23											1.032
42	1067.00				9.53 248.53			12.70 330.21											1.138
44	1118.00				9.53 260.52			12.70 346.18											1.249
46	1168.00				9.53 272.27			12.70 361.84											1.364
48	1219.00				9.53 284.25			12.70 377.81											1.485