Características generales de tubería en acero carbón

Unidades en sistema internacional métrico

Calibre de los tubos según ANSI
Ø Ext = mm Espesor de pared = mm Peso = Kg/m Vol / m = m^3

Dimensión nominal del tubo en pulgadas	Ø ext. mm	CALIBRE													Datos Basados en acero Austenítico				Para Embarque
		10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	40S	80S	Vol/m m^3
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 0.36	2.41 0.48	0.0001
1/4	13.71				2.24 0.63	2.24 0.63		3.02 0.80	3.02 0.80							1.65 0.51	2.24 0.64	3.02 0.82	0.0002
3/8	17.10				2.31 0.84	2.31 0.84		3.20 1.10	3.20 1.10							1.65 0.64	2.31 0.86	3.20 1.12	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 0.82	2.11 1.01	2.77 1.30	3.73 1.65	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 1.04	2.11 1.31	2.87 1.71	3.91 2.24	0.0007
1	33.40				3.38 2.50	3.38 2.50		4.55 3.24	4.56 3.24				6.35 4.24	9.09 5.45	1.65 1.33	2.77 2.13	3.38 2.55	4.55 3.29	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 1.68	2.77 2.78	3.56 3.46	4.85 4.56	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 1.95	2.77 3.17	3.68 4.13	5.08 5.51	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 2.44	2.77 4.01	3.91 5.54	5.54 7.63	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 3.77	3.05 5.36	5.16 8.81	7.01 11.64	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 4.60	3.05 6.59	5.49 11.52	7.62 15.59	0.0079
3 1/2	101.60				5.74 13.57	5.74 13.57		8.08 18.63	18.63 18.63						2.11 5.29	3.05 7.55	5.74 13.84	8.08 19.01	0.0103
4	114.30				6.02 16.07	6.02 16.07		8.56 22.32	8.56 22.32		11.13 28.32		13.49 33.54	17.12 41.03	2.11 5.96	3.05 8.52	6.02 16.40	8.56 22.77	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 49.11	19.05 57.43	2.77 9.67	3.40 11.82	6.55 22.20	9.53 31.59	0.0199
6	168.30				7.11 28.26	7.11 28.26		10.97 42.56	10.97 42.56		14.27 54.20		18.26 67.56	21.95 79.22	2.77 11.55	3.40 14.13	7.11 28.83	10.97 43.42	0.028
8	219.10		6.35 33.31	7.04 36.81	8.18 42.55	8.18 42.55	10.31 53.08	12.70 64.64	12.70 64.64	15.09 75.92	18.26 90.44	20.62 100.92	23.01 111.27	22.23 107.92	2.77 15.09	3.76 20.37	8.18 43.39	12.70 65.95	0.048
10	273.10		6.35 41.77	7.80 51.03	9.27 60.31	9.27 60.31	12.70 81.55	12.70 81.55	15.09 96.01	18.26 114.75	21.44 133.06	25.40 155.15	28.58 172.33	25.40 155.15	3.40 23.08	4.19 28.34	9.27 61.62	12.70 83.19	0.074
12	323.90		6.35 49.73	8.38 65.20	9.53 73.88	10.31 79.73	14.27 108.96	12.70 97.46	17.48 132.08	21.44 159.91	25.40 184.97	28.58 208.14	33.32 238.76	25.40 16.97	3.96 31.89	4.57 36.73	9.52 75.32	12.70 99.43	0.104
14	355.60	6.35 54.69	7.92 67.90	9.53 81.33	9.53 81.33	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		3.96 35.06	4.78 42.14			0.126
16	406.40	6.35 62.64	7.92 77.83	9.53 93.27	9.53 93.27	12.70 123.30	16.66 160.12	12.70 123.30	21.44 203.53	26.19 245.56	30.96 26.64	36.53 333.19	40.49 365.35		4.19 42.41	4.78 48.26			0.165
18	457.00	6.35 70.57	7.92 87.71	11.13 122.38	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		4.19 47.77	4.78 54.36			0.208
20	508.00	6.35 78.55	9.53 117.15	12.70 155.12	9.53 117.15	15.09 183.42	20.62 247.83	12.70 155.12	26.19 311.17	32.54 381.53	38.10 441.49	44.45 508.11	50.01 564.81		4.78 60.46	5.54 70.00			0.258
22	559.00	6.35 86.65		12.70 171.09	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		4.78 66.57	5.54 77.06			0.312
24	610.00	6.35 94.53	9.53 141.12	14.27 209.64	9.53 141.12	17.48 255.41	24.61 355.26	12.70 187.06	30.96 442.08	38.89 547.71	46.02 640.03	52.37 720.15	59.54 808.22		5.54 84.16	6.35 96.37			0.372
26	560.00	7.92 127.36	12.70 202.72	9.53 129.13	9.53 152.87			12.70 202.72											0.435
28	711.00	7.92 137.32	12.70 37.32	15.88 271.21	9.53 164.85			12.70 218.69							6.35 120.72	7.92 150.36			0.505
30	762.00	7.9 147.28	12.70 234.67	15.88 292.18	9.53 176.84			12.70 234.67											0.508
32	813.00	7.92 157.24	12.70 250.64	15.88 312.15	9.53 188.82	17.48 342.91		12.70 250.64											0.660
34	864.00	7.92 167.20	12.70 266.61	15.88 332.12	9.53 200.31	17.48 364.90		12.70 266.61											0.746
36	914.00	7.92 176.96	12.70 282.27	15.88 351.70	9.53 212.56	19.05 420.42		12.70 282.27											0.835
38	965.00				9.53 224.54			12.70 298.24											0.931
40	1016.00				9.53 236.53			12.70 314.22											1.032
42	1067.00				9.53 248.52			12.70 330.19											1.138
44	1118.00				9.53 260.50			12.70 346.16											1.249
46	1168.00				12.70 362.07			9.53 272.25											1.364
48	1219.00				12.70 377.79			9.53 284.24											1.485

Unidades en pulgadas

Calibre de los tubos según ANSI
Ø Ext = Pulgadas Espesor de pared = Pulgadas Peso = Libras/Pie Vol / Pie = Pie³

Dimensión nominal del tubo en pulgadas	Ø ext. mm	CALIBRE													Datos Basados en acero Austenítico				Para Embarque
		10	20	30	STD	40	60	XS	80	100	120	140	160	XXS	5S	10S	40S	80S	Vol/m m³
1/8	0.405				0.068 0.24	0.068 0.24		0.095 0.31	0.095 0.31							0.049 0.19	0.068 0.24	0.095 0.32	0.004
1/4	0.540				0.088 0.42	0.088 0.42		0.119 0.54	0.119 0.54							0.065 0.34	0.088 0.43	0.119 0.56	0.007
3/8	0.675				0.091 0.57	0.091 0.57		0.126 0.74	0.126 0.74							0.065 0.43	0.091 0.58	0.126 0.75	0.011
1/2	0.840				0.109 0.85	0.109 0.85		0.147 1.09	0.147 1.09				0.188 1.31	0.294 1.71	0.065 0.55	0.083 0.68	0.109 0.87	0.147 1.11	0.014
3/4	1.050				0.113 1.13	0.113 1.13		0.154 1.47	0.154 1.47				0.219 1.94	0.308 2.44	0.065 0.70	0.083 0.88	0.113 1.15	0.154 1.50	0.025
1	1.315				0.133 1.68	0.133 1.68		0.179 2.17	0.179 2.17				0.250 2.84	0.358 3.66	0.065 0.89	0.109 1.43	0.133 1.71	0.179 2.21	0.039
1 1/4	1.660				0.140 2.27	0.140 2.27		0.191 3.00	0.191 3.00				0.250 3.76	0.382 5.21	0.065 1.13	0.109 1.85	0.140 2.32	0.191 3.06	0.064
1 1/2	1.900				0.145 2.72	0.145 2.72		0.200 3.63	0.200 3.63				0.281 4.86	0.400 6.41	0.065 1.31	0.109 2.13	0.145 2.77	0.200 3.70	0.081
2	2.375				0.154 3.65	0.154 3.65		0.218 5.02	0.218 5.02				0.344 7.46	0.436 9.03	0.065 1.64	0.109 2.69	0.154 3.72	0.218 5.12	0.127
2 1/2	2.875				0.203 5.79	0.203 5.79		0.276 7.66	0.276 7.66				0.375 10.01	0.552 13.69	0.083 2.53	0.120 3.60	0.203 5.91	0.276 7.81	0.187
3	3.500				0.216 7.58	0.216 7.58		0.300 10.25	0.300 10.25				0.438 14.32	0.600 18.58	0.083 3.09	0.120 4.42	0.216 7.73	0.300 10.46	0.279
3 1/2	4.000				0.226 9.11	0.226 9.11		0.318 12.50	0.318 12.50						0.083 3.55	0.120 5.07	0.226 9.29	0.316 12.76	0.364
4	4.500				0.237 0.79	0.237 10.79		0.337 14.98	0.337 14.98		0.438 19.00		0.531 22.51	0.674 27.54	0.083 4.00	0.120 5.72	0.237 11.01	0.337 15.28	0.459
5	5.563				0.258 4.62	0.258 4.62		0.375 20.78	0.375 20.78		0.500 27.04		0.625 32.96	0.750 38.55	0.109 6.49	0.134 7.93	0.258 14.91	0.375 21.20	0.703
6	6.625				0.280 18.97	0.280 18.97		0.432 28.57	0.432 28.57		0.562 36.39		0.719 45.35	0.64 53.16	0.109 7.75	0.134 9.48	0.278 119.35	0.432 29.14	0.989
8	8.625		0.250 22.36	0.277 24.70	0.322 28.55	0.322 28.55	0.406 35.64	0.500 43.39	0.500 43.39	0.534 50.95	0.719 60.71	0.812 67.76	0.906 74.69	0.875 72.42	0.109 10.13	0.148 13.67	0.322 29.12	0.500 44.26	1.695
10	10.750		0.250 28.04	0.307 34.24	0.365 40.48	0.365 40.48	0.500 54.74	0.500 54.74	0.594 64.43	0.719 77.03	0.844 89.29	1.000 104.13	1.125 115.64	1.000 104.13	0.134 15.49	0.165 19.02	0.365 41.29	0.500 55.83	2.613
12	12.750		0.250 33.38	0.330 43.77	0.375 49.56	0.406 53.52	0.562 73.15	0.500 65.42	0.688 88.63	0.884 107.32	1.000 125.49	1.125 139.67	1.312 160.27	1.000 125.49	0.156 21.40	0.180 24.65	0.375 50.55	0.500 66.73	3.673
14	14.000	0.250 36.71	0.312 45.61	0.375 54.57	0.375 54.57	0.438 63.44	0.594 85.05	0.500 72.09	0.750 106.13	0.938 130.85	1.094 150.79	1.250 170.21	1.406 189.11		0.156 23.53	0.188 28.28			4.450
16	16.000	0.250 42.05	0.312 52.27	0.375 62.58	0.375 62.58	0.500 82.77	0.656 107.50	0.500 82.77	0.844 136.61	1.031 164.82	1.219 192.43	1.438 223.64	1.594 245.25		0.165 28.46	0.188 32.39			5.827
18	18.000	0.250 47.39	0.312 58.94	0.438 85.15	0.375 70.59	0.562 104.67	0.750 138.17	0.500 93.45	0.938 170.92	1.156 207.96	1.375 244.14	1.562 274.22	1.781 308.50		0.165 32.06	0.188 36.448			7.345
20	20.000	0.250 52.73	0.375 78.60	0.500 104.13	0.375 78.60	0.594 123.11	0.812 166.40	0.500 104.13	1.031 208.87	1.281 256.10	1.500 296.37	1.750 341.09	1.969 379.17		0.188 40.58	0.218 46.98			9.111
22	22.000	0.250 58.07	0.375 86.61	0.500 114.81	0.375 86.61		0.875 197.41	0.500 114.81	1.125 50.80	1.375 302.88	1.625 353.61	1.875 403.00	2.125 451.06		0.188 44.68	0.218 51.72			11.018
24	24.000	0.250 63.41	0.375 94.62	0.562 140.68	0.375 94.62	0.688 171.29	0.969 238.35	0.500 125.49	0.219 296.58	1.531 367.39	1.812 429.39	2.062 438.12	2.344 542.13		0.218 56.48	0.250 64.68			13.137
26	26.000	0.312 85.60	0.500 136.17		0.375 102.63			0.500 136.17											15.361
28	28.000	0.312 92.26	0.500 146.85	0.625 182.73	0.375 110.6			0.500 146.85											17.833
30	30.000	0.312 98.93	0.500 157.53	0.625 196.08	0.375 118.65			0.500 157.53							0.250 81.02	0.312 100.91			20.482
32	32.000	0.312 105.59	0.500 168.21	0.625 209.43	0.375 126.66	0.688 230.08		0.500 168.21											23.307
34	34.000	0.312 112.11	0.500 178.89	0.625 222.78	0.375 134.67	0.688 244.77		0.500 178.89											26.344
36	36.000	0.312 118.92	0.500 189.57	0.625 236.13	0.375 142.68	0.750 282.35		0.500 189.57											29.487
38	38.000				0.375 150.69			0.500 200.25											32.877
40	40.000				0.375 158.70			0.500 210.93											36.444
42	42.000				0.375 166.71			0.500 221.61											40.187
44	44.000				0.375 174.72			0.500 232.29											44.107
46	46.000				0.375 182.73			0.500 242.97											48.168
48	48.000				0.375 190.74			0.500 253.65											52.441