

Reference Data

Copper Tubing (Type L) Data

Nominal Pipe Size In. (mm)	O.D. Size In. (mm)	Wall Thickness In. (mm)	Weight of Tubing Lbs./Ft. (kg/m)	Weight of Tubing Filled With Water Lbs./Ft. (kg/m)
1/4" (6)	.375 (9.5)	.030 (.7)	.12 (.17)	.15 (.21)
3/8" (10)	.500 (12.7)	.035 (.9)	.20 (.30)	.26 (.39)
1/2" (15)	.625 (15.9)	.040 (1.0)	.28 (.41)	.38 (.56)
5/8" (17)	.750 (19.0)	.042 (1.0)	.36 (.53)	.51 (.75)
3/4" (20)	.875 (22.2)	.045 (1.1)	.45 (.67)	.66 (.98)
1" (25)	1.125 (28.6)	.050 (1.3)	.65 (.97)	1.01 (1.50)
1 1/4" (32)	1.375 (34.9)	.055 (1.4)	.88 (1.31)	1.42 (2.11)
1 1/2" (40)	1.625 (41.3)	.060 (1.5)	1.14 (1.69)	1.91 (2.83)
2" (50)	2.125 (54.0)	.070 (1.8)	1.75 (2.60)	3.09 (4.59)
2 1/2" (65)	2.625 (66.7)	.080 (2.0)	2.48 (3.69)	4.54 (6.75)
3" (80)	3.125 (79.4)	.090 (2.3)	3.33 (4.95)	6.28 (9.34)
3 1/2" (90)	3.625 (92.1)	.100 (2.5)	4.29 (6.38)	8.28 (12.32)
4" (100)	4.125 (104.8)	.110 (2.8)	5.38 (8.00)	10.57 (15.72)
5" (125)	5.125 (130.2)	.125 (3.2)	7.61 (11.32)	15.69 (23.34)
6" (150)	6.125 (155.6)	.140 (3.5)	10.20 (15.18)	21.81 (32.46)
8" (200)	8.125 (206.4)	.200 (5.1)	19.29 (28.70)	39.49 (58.89)

Dimensions taken from ASTM B88-83.

Copper Tubing (Type K) Data

Nominal Pipe Size In. (mm)	O.D. Size In. (mm)	Wall Thickness In. (mm)	Weight of Tubing Lbs./Ft. (kg/m)	Weight of Tubing Filled With Water Lbs./Ft. (kg/m)
1/4" (6)	.375 (9.5)	.035 (.9)	.14 (.21)	.17 (.25)
3/8" (10)	.500 (12.7)	.049 (1.2)	.27 (.40)	.32 (.47)
1/2" (15)	.625 (15.9)	.049 (1.2)	.34 (.50)	.43 (.63)
5/8" (17)	.750 (19.0)	.049 (1.2)	.42 (.62)	.56 (.83)
3/4" (20)	.875 (22.2)	.065 (1.6)	.64 (.95)	.83 (1.23)
1" (25)	1.125 (28.6)	.065 (1.6)	.84 (1.25)	1.18 (1.75)
1 1/4" (32)	1.375 (34.9)	.065 (1.6)	1.04 (1.55)	1.57 (2.34)
1 1/2" (40)	1.625 (41.3)	.072 (1.8)	1.36 (2.02)	2.10 (3.12)
2" (50)	2.125 (54.0)	.083 (2.1)	2.06 (3.06)	3.37 (5.01)
2 1/2" (65)	2.625 (66.7)	.095 (2.4)	2.92 (4.34)	4.92 (7.31)
3" (80)	3.125 (79.4)	.109 (2.8)	4.00 (5.95)	6.96 (10.35)
3 1/2" (90)	3.625 (92.1)	.120 (3.0)	5.12 (7.62)	9.02 (13.42)
4" (100)	4.125 (104.8)	.134 (3.4)	6.51 (9.69)	11.57 (17.22)
5" (125)	5.125 (130.2)	.160 (4.0)	9.67 (14.39)	17.67 (26.29)
6" (150)	6.125 (155.6)	.192 (4.9)	13.87 (20.60)	25.07 (37.27)
8" (200)	8.125 (206.4)	.271 (6.9)	25.90 (38.50)	45.40 (67.52)

Dimensions taken from ASTM B88-83.

1 cubic ft. of water weighs 62.41 lbs.

1 cubic meter of water weighs 999.97 kg.

1 gallon (U.S.) weighs 8.335 lbs.

1 liter weighs .999 kg.