



TECHNICAL DATA

Copper Tube Data

TYPE L

Tube Size	Tubing O.D.		Wall Thickness		Weight			
					Water		Pipe	
					lbs/ft	kg/m	lbs/ft	kg/m
1/4 (6)	.375 (9.53)	.030 (0.76)	.034 (.051)	.126 (.188)				
3/8 (10)	.500 (12.70)	.035 (0.89)	.062 (.092)	.198 (.295)				
1/2 (15)	.625 (15.88)	.040 (1.02)	.100 (.149)	.285 (.424)				
5/8 (17)	.750 (19.05)	.042 (1.07)	.151 (.225)	.362 (.539)				
3/4 (20)	.875 (22.23)	.045 (1.14)	.209 (.311)	.455 (.677)				
1 (25)	1.125 (28.58)	.050 (1.27)	.357 (.531)	.655 (.975)				
1 1/4 (32)	1.375 (34.93)	.055 (1.40)	.546 (.813)	.884 (1.316)				
1 1/2 (40)	1.625 (41.28)	.060 (1.52)	.767 (1.141)	1.140 (1.697)				
2 (50)	2.125 (53.98)	.070 (1.78)	1.341 (1.996)	1.750 (2.604)				
2 1/2 (65)	2.625 (66.68)	.080 (2.03)	2.064 (3.072)	2.480 (3.691)				
3 (80)	3.125 (79.38)	.090 (2.29)	2.949 (4.389)	3.330 (4.956)				
3 1/2 (90)	3.625 (92.08)	.100 (2.54)	3.989 (5.936)	4.290 (6.384)				
4 (100)	4.125 (104.78)	.110 (2.79)	5.188 (7.721)	5.380 (8.006)				
5 (125)	5.125 (130.18)	.125 (3.18)	8.081 (12.026)	7.610 (11.325)				
6 (150)	6.125 (155.58)	.140 (3.56)	11.616 (17.287)	10.200 (15.179)				
8 (200)	8.125 (206.38)	.200 (5.08)	20.289 (30.193)	19.260 (28.662)				
10 (250)	10.125 (257.18)	.250 (6.35)	31.590 (47.011)	30.100 (44.794)				
12 (300)	12.125 (307.98)	.280 (7.11)	45.426 (67.601)	40.400 (60.122)				

TYPE K

Tube Size	Tubing O.D.		Wall Thickness		Weight			
					Water		Pipe	
					lbs/ft	kg/m	lbs/ft	kg/m
1/4 (6)	.375 (9.53)	.035 (0.89)	.032 (.048)	.145 (.216)				
3/8 (10)	.500 (12.70)	.049 (1.24)	.055 (.082)	.269 (.400)				
1/2 (15)	.625 (15.88)	.049 (1.24)	.094 (.140)	.344 (.512)				
5/8 (17)	.750 (19.05)	.049 (1.24)	.144 (.214)	.418 (.622)				
3/4 (20)	.875 (22.23)	.065 (1.65)	.188 (.280)	.641 (.954)				
1 (25)	1.125 (28.58)	.065 (1.65)	.337 (.502)	.839 (1.249)				
1 1/4 (32)	1.375 (34.93)	.065 (1.65)	.527 (.784)	1.040 (1.548)				
1 1/2 (40)	1.625 (41.28)	.072 (1.83)	.743 (1.106)	1.360 (2.024)				
2 (50)	2.125 (53.98)	.083 (2.11)	1.310 (1.949)	2.060 (3.066)				
2 1/2 (65)	2.625 (66.68)	.095 (2.41)	2.000 (2.976)	2.920 (4.345)				
3 (80)	3.125 (79.38)	.109 (2.77)	2.960 (4.405)	4.000 (5.953)				
3 1/2 (90)	3.625 (92.08)	.120 (3.05)	3.900 (5.804)	5.120 (7.619)				
4 (100)	4.125 (104.78)	.134 (3.40)	5.060 (7.530)	6.510 (9.688)				
5 (125)	5.125 (130.18)	.160 (4.06)	8.000 (11.905)	9.670 (14.391)				
6 (150)	6.125 (155.58)	.192 (4.88)	11.200 (16.667)	13.870 (20.641)				
8 (200)	8.125 (206.38)	.271 (6.88)	19.500 (29.019)	25.900 (38.543)				
10 (250)	10.125 (257.18)	.338 (8.59)	30.423 (45.274)	40.300 (59.973)				
12 (300)	12.125 (307.98)	.405 (10.29)	43.675 (64.996)	57.800 (86.016)				

Spacing of Hangers For Copper Tubing

Note: Spacing and capacities are based on pipe filled with water. Additional valves and fittings increase the load and therefore closer hanger spacing is required.

Tubing Size	1/2	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8	10	12
	(15)	(20)	(25)	(32)	(40)	(50)	(65)	(80)	(90)	(100)	(125)	(150)	(200)	(250)	(300)
Span ft	5	5	6	7	8	8	9	10	11	12	13	14	16	18	19
Span m	(1.5)	(1.5)	(1.8)	(2.1)	(2.4)	(2.4)	(2.7)	(3.0)	(3.4)	(3.7)	(4.0)	(4.3)	(4.9)	(5.5)	(5.8)

Glass Pipe Data

REGULAR SCHEDULE

Nom. Pipe Size	O.D. D.I. Pipe		Wall Thick		Weight			
					Pipe		Water	
					lbs/ft	kg/m	lbs/ft	kg/m
1 1/2 (40)	1.84 (46.74)	.12 (3.05)	.64 (.95)	.89 (1.32)				
2 (50)	2.34 (59.44)	.14 (3.56)	.94 (1.40)	1.45 (2.16)				
3 (80)	3.41 (86.61)	.17 (4.32)	1.60 (2.38)	3.19 (4.75)				
4 (100)	4.53 (115.06)	.20 (5.08)	2.60 (3.87)	5.79 (8.62)				
6 (150)	6.66 (169.16)	.24 (6.10)	4.70 (6.99)	12.78 (19.02)				

HEAVY SCHEDULE

1 (25)	1.31 (33.27)	.16 (4.06)	.60 (.89)	.35 (.52)
1 1/2 (40)	1.84 (46.74)	.17 (4.32)	.87 (1.29)	.76 (1.13)
2 (50)	2.34 (59.44)	.17 (4.32)	1.10 (1.64)	1.36 (2.02)
3 (80)	3.41 (86.61)	.20 (5.08)	2.00 (2.98)	3.06 (4.55)
4 (100)	4.53 (115.06)	.26 (6.60)	3.40 (5.06)	5.44 (8.10)
6 (150)	6.66 (169.16)	.33 (8.38)	6.30 (9.38)	12.42 (18.48)

Spacing of Hangers for glass pipe support every 8-10 ft (2.44 - 3.05 m). Pad all hangers. Use only clevis or trapeze, do not tie down pipe.

AWWA Ductile Iron Pipe Data

Based on AWWA C108-70, Table 8.2.
Add flange weight for flanged cast iron pipe.

Nom. Pipe Size	Class	O.D. D.I. Pipe		Wall Thick		Weight			
						Pipe		Water	
						lbs/ft	kg/m	lbs/ft	kg/m
3 (80)	53	3.96 (100.58)	.31 (7.87)	11.2 (16.67)	3.8 (5.66)				
4 (100)	53	4.80 (121.92)	.32 (8.13)	14.2 (21.13)	5.9 (8.78)				
6 (150)	53	6.90 (175.26)	.34 (8.64)	22.0 (32.74)	13.1 (19.49)				
8 (200)	53	9.05 (229.87)	.36 (9.14)	31.0 (46.13)	23.0 (34.23)				
10 (250)	53	11.1 (281.94)	.38 (9.65)	40.4 (60.12)	36.4 (54.17)				
12 (300)	53	13.2 (335.28)	.40 (10.16)	50.7 (75.45)	52.3 (77.83)				
14 (350)	53	15.3 (388.62)	.42 (10.67)	62.4 (92.86)	71.1 (105.81)				
16 (400)	53	17.4 (441.96)	.43 (10.92)	72.8 (108.34)	93.1 (138.55)				
18 (450)	53	19.5 (495.30)	.44 (11.18)	83.6 (124.41)	117.9 (175.45)				
20 (500)	53	21.6 (548.64)	.45 (11.43)	95.2 (141.67)	145.8 (216.97)				
24 (600)	53	25.8 (655.32)	.47 (11.94)	119.2 (177.39)	210.2 (312.81)				
30 (750)	53	32.0 (812.80)	.51 (12.95)	161.3 (240.04)	326.5 (485.89)				
36 (900)	53	38.3 (972.82)	.58 (14.73)	219.5 (326.65)	469.3 (698.40)				
42 (1050)	53	44.5 (1130.30)	.65 (16.51)	285.2 (424.42)	634.9 (944.84)				
48 (1200)	53	50.8 (1290.32)	.72 (18.29)	360.3 (536.19)	828.9 (1233.54)				

Unless otherwise specified, all dimensions on drawings and in charts are in inches and dimensions shown in parentheses are in millimeters.