



# 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	6	8	8	10	10	10	12	12	12	12	12	14	14	18	19
Span m	(1.83)	(2.44)	(2.44)	(3.05)	(3.05)	(3.05)	(3.66)	(3.66)	(3.66)	(3.66)	(3.66)	(4.27)	(4.27)	(5.49)	(5.79)

## 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.