

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 (0.051)	.126 (1.88)		
3/8 (10)	.500 (12.70)	.035 (0.89)	.062 (0.92)	.198 (2.95)		
1/2 (15)	.625 (15.88)	.040 (1.02)	.100 (1.49)	.285 (4.24)		
5/8 (17)	.750 (19.05)	.042 (1.07)	.151 (2.25)	.362 (5.39)		
3/4 (20)	.875 (22.23)	.045 (1.14)	.209 (3.11)	.455 (6.77)		
1 (25)	1.125 (28.58)	.050 (1.27)	.357 (5.31)	.655 (9.75)		
1 1/4 (32)	1.375 (34.93)	.055 (1.40)	.546 (8.13)	.884 (13.16)		
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 (0.048)	.145 (2.16)		
3/8 (10)	.500 (12.70)	.049 (1.24)	.055 (0.82)	.269 (4.00)		
1/2 (15)	.625 (15.88)	.049 (1.24)	.094 (1.40)	.344 (5.12)		
5/8 (17)	.750 (19.05)	.049 (1.24)	.144 (2.14)	.418 (6.22)		
3/4 (20)	.875 (22.23)	.065 (1.65)	.188 (2.80)	.641 (9.54)		
1 (25)	1.125 (28.58)	.065 (1.65)	.337 (5.02)	.839 (1.249)		
1 1/4 (32)	1.375 (34.93)	.065 (1.65)	.527 (7.84)	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

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
	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)

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. Taken from ANSI/MSS SP-58.

AWWA DUCTILE IRON PIPE DATA

Nominal 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)		

Based on AWWA C108-70, Table 8.2.

Add flange weight for flanged cast iron pipe.

GLASS PIPE DATA

REGULAR SCHEDULE

Nominal 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 (9.5)	.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.