

## FIRE PROTECTION PIPE DATA

**Table A2.2-1; Steel Pipe – Threaded or Cut Grooves**  
 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Nominal Pipe Size (in)	Pipe Schedule	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight (lb/ft)	Water Weight (lb/ft)	Pipe + Water Weight (lb/ft)
1	40	1.315	1.049	1.93	0.43	2.36
1 1/4	40	1.660	1.380	2.61	0.75	3.36
1 1/2	40	1.900	1.610	3.12	1.01	4.14
2	40	2.375	2.067	4.20	1.67	5.87
2 1/2	40	2.875	2.469	6.65	2.39	9.04
3	40	3.500	3.068	8.70	3.68	12.39
3 1/2	40	4.000	3.548	10.46	4.93	15.39
4	40	4.500	4.026	12.40	6.34	18.74
5	40	5.563	5.047	16.79	9.97	26.76
6	40	6.625	6.065	21.80	14.40	36.19
8	30	8.625	8.071	28.37	25.50	53.87
10	30	10.750	10.136	39.33	40.21	79.55
12	Standard	12.750	12.000	56.94	56.36	113.30

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Toll Free (USA Only): 800-959-1229  
 International: 614-889-0480  
 FAX: 614-889-0540  
 World Wide Web: [www.kineticsnoise.com](http://www.kineticsnoise.com)  
 E-mail: [sales@kineticsnoise.com](mailto:sales@kineticsnoise.com)

### SECTION – A2.2

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**Table A2.2-2; Steel Pipe – Welded or Roll-Grooved**  
 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Nominal Pipe Size (in)	Pipe Schedule	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight (lb/ft)	Water Weight (lb/ft)	Pipe + Water Weight (lb/ft)
1	10	1.315	1.097	1.61	0.47	2.08
1 1/4	10	1.660	1.442	2.07	0.81	2.89
1 1/2	10	1.900	1.682	2.40	1.11	3.50
2	10	2.375	2.157	3.03	1.82	4.85
2 1/2	10	2.875	2.635	4.06	2.72	6.77
3	10	3.500	3.260	4.98	4.16	9.14
3 1/2	10	4.000	3.760	5.71	5.53	11.25
4	10	4.500	4.260	6.45	7.10	13.55
5	10	5.563	5.295	8.93	10.97	19.90
6	10	6.625	6.357	10.67	15.82	26.49
8	-----	8.625	8.249	19.46	26.63	46.09
10	-----	10.750	10.374	24.36	42.12	66.48
12	30	12.750	12.090	50.29	57.21	107.50

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**Table A2.2-3; TYPE K Copper Tubing – ASTM B88**  
 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Tube Size (in)	Tube O. D. (in)	Wall Thickness (in)	Tube Weight (lb/ft)	Water Weight (lb/ft)	Tube + Water Weight (lb/ft)
1	1.125	0.065	0.96	0.39	1.35
1 1/4	1.375	0.065	1.19	0.61	1.80
1 1/2	1.625	0.072	1.56	0.86	2.42
2	2.125	0.083	2.37	1.50	3.87
2 1/2	2.625	0.095	3.36	2.32	5.68
3	3.125	0.109	4.59	3.31	7.90
3 1/2	3.625	0.120	5.87	4.48	10.36
4	4.125	0.134	7.47	5.82	13.29
5	5.125	0.160	11.09	9.04	20.13
6	6.125	0.192	15.90	12.90	28.80

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**Table A2.2-4; TYPE L Copper Tubing – ASTM B88**  
 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Tube Size (in)	Tube O. D. (in)	Wall Thickness (in)	Tube Weight (lb/ft)	Water Weight (lb/ft)	Tube + Water Weight (lb/ft)
1	1.125	0.050	0.75	0.41	1.16
1 1/4	1.375	0.055	1.01	0.63	1.64
1 1/2	1.625	0.060	1.31	0.89	2.20
2	2.125	0.070	2.01	1.54	3.55
2 1/2	2.625	0.080	2.84	2.38	5.22
3	3.125	0.090	3.81	3.39	7.21
3 1/2	3.625	0.100	4.92	4.59	9.51
4	4.125	0.114	6.38	5.94	12.33
5	5.125	0.125	8.72	9.30	18.03
6	6.125	0.140	11.70	13.37	25.07

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**Table A2.2-5; TYPE M Copper Tubing – ASTM B88**  
 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Tube Size (in)	Tube O. D. (in)	Wall Thickness (in)	Tube Weight (lb/ft)	Water Weight (lb/ft)	Tube + Water Weight (lb/ft)
1	1.125	0.035	0.53	0.44	0.97
1 1/4	1.375	0.042	0.78	0.65	1.43
1 1/2	1.625	0.049	1.08	0.91	1.99
2	2.125	0.058	1.67	1.58	3.25
2 1/2	2.625	0.065	2.32	2.44	4.76
3	3.125	0.072	3.07	3.48	6.55
3 1/2	3.625	0.083	4.10	4.68	8.79
4	4.125	0.095	5.34	6.06	11.40
5	5.125	0.109	7.63	9.42	17.06
6	6.125	0.122	10.22	13.54	23.76

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**Table A2.2-6; BlazeMaster® CPVC Sprinkler Pipe  
Manufactured by HARVEL®  
{Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}**

Nominal Pipe Size (in)	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight (lb/ft)	Water Weight (lb/ft)	Pipe + Water Weight (lb/ft)
3/4	1.125	0.874	0.30	0.30	0.60
1	1.375	1.101	0.40	0.47	0.88
1 1/4	1.625	1.394	0.42	0.76	1.18
1 1/2	2.125	1.598	1.17	1.00	2.17
2	2.625	2.003	1.71	1.57	3.28
2 1/2	3.125	2.423	2.32	2.30	4.62
3	6.125	2.950	17.15	3.41	20.56

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