

MAXIMUM ALLOWABLE RESTRAINT SPACING – FIRE PROTECTION PIPING

Table A6.2-1; Maximum Allowable Seismic Restraint Spacing for Steel Water-Filled Pipe – Threaded or Cut Grooves {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Seismic Coefficient C_p					0.43	0.60	0.73	0.99	1.33	2.00
Pipe Size (in)	Pipe Schedule	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1	40	1.315	1.049	2.4	40	30	30	30	20	20
1 1/4	40	1.660	1.380	3.4	40	40	40	30	30	20
1 1/2	40	1.900	1.610	4.1	40	40	40	30	30	30
2	40	2.375	2.067	5.9	40	40	40	40	40	30
2 1/2	40	2.875	2.469	9.0	40	40	40	40	40	40
3	40	3.500	3.068	12.4	40	40	40	40	40	40
3 1/2	40	4.000	3.548	15.4	40	40	40	40	40	40
4	40	4.500	4.026	18.7	40	40	40	40	40	40
5	40	5.563	5.047	26.8	40	40	40	40	40	40
6	40	6.625	6.065	36.2	40	40	40	40	40	40
8	30	8.625	8.071	53.9	40	40	40	40	40	40
10	30	10.75	10.14	79.5	40	40	40	40	40	40
12	STD	12.75	12.00	113.3	40	40	40	40	40	40

MAXIMUM ALLOWABLE RESTRAINT SPACING – FIRE PROTECTION PIPE PAGE 1 of 6

SECTION – A6.2

RELEASED ON: 07/30/2008



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



Member

Table A6.2-2; Maximum Allowable Seismic Restraint Spacing for Steel Water-Filled Pipe – Welded or Rolled Grooves {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Seismic Coefficient C_p					0.43	0.60	0.73	0.99	1.33	2.00
Pipe Size (in)	Pipe Schedule	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1	10	1.315	1.097	2.1	40	30	30	30	20	20
1 1/4	10	1.660	1.442	2.9	40	40	30	30	30	20
1 1/2	10	1.900	1.682	3.5	40	40	40	30	30	30
2	10	2.375	2.157	4.9	40	40	40	40	30	30
2 1/2	10	2.875	2.635	6.8	40	40	40	40	40	30
3	10	3.500	3.260	9.1	40	40	40	40	40	40
3 1/2	10	4.000	3.760	11.2	40	40	40	40	40	40
4	10	4.500	4.026	18.7	40	40	40	40	40	40
5	10	5.563	5.295	19.9	40	40	40	40	40	40
6	10	6.625	6.357	26.5	40	40	40	40	40	40
8	---	8.625	8.249	46.1	40	40	40	40	40	40
10	---	10.75	10.37	66.5	40	40	40	40	40	40
12	30	12.75	12.09	107.5	40	40	40	40	40	40

**MAXIMUM ALLOWABLE RESTRAINT SPACING – FIRE PROTECTION PIPE
PAGE 2 of 6**

SECTION – A6.2

RELEASED ON: 07/30/2008



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



Member

Table A6.2-3; Maximum Allowable Seismic Restraint Spacing for TYPE K Water-Filled Copper Tubing – ASTM B88 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Seismic Coefficient C_p				0.43	0.60	0.73	0.99	1.33	2.00
Tube Size (in)	Tube O. D. (in)	Tube Wall Thickness (in)	Tube Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1	1.125	0.065	1.3	20	20	20	20	15	15
1 1/4	1.375	0.065	1.8	30	20	20	20	20	15
1 1/2	1.625	0.072	2.4	30	30	30	20	20	20
2	2.125	0.083	3.9	40	30	30	30	20	20
2 1/2	2.625	0.095	5.7	40	40	40	30	30	20
3	3.125	0.109	7.9	40	40	40	40	30	30
3 1/2	3.625	0.120	10.4	40	40	40	40	40	30
4	4.125	0.134	13.3	40	40	40	40	40	30
5	5.125	0.160	20.1	40	40	40	40	40	40
6	6.125	0.192	28.8	40	40	40	40	40	40

MAXIMUM ALLOWABLE RESTRAINT SPACING – FIRE PROTECTION PIPE SECTION – A6.2

PAGE 3 of 6

RELEASED ON: 07/30/2008



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



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Member

Table A6.2-4; Maximum Allowable Seismic Restraint Spacing for TYPE L Water-Filled Copper Tubing – ASTM B88 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Seismic Coefficient C_p				0.43	0.60	0.73	0.99	1.33	2.00
Tube Size (in)	Tube O. D. (in)	Tube Wall Thickness (in)	Tube Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1	1.125	0.050	1.2	20	20	20	20	15	15
1 1/4	1.375	0.055	1.6	30	20	20	20	20	15
1 1/2	1.625	0.060	2.2	30	30	20	20	20	20
2	2.125	0.070	3.6	40	30	30	30	20	20
2 1/2	2.625	0.080	5.2	40	40	30	30	30	20
3	3.125	0.090	7.2	40	40	40	40	30	30
3 1/2	3.625	0.100	9.5	40	40	40	40	30	30
4	4.125	0.114	12.3	40	40	40	40	40	30
5	5.125	0.125	18.0	40	40	40	40	40	40
6	6.125	0.140	25.1	40	40	40	40	40	40

MAXIMUM ALLOWABLE RESTRAINT SPACING – FIRE PROTECTION PIPE SECTION – A6.2

PAGE 4 of 6

RELEASED ON: 07/30/2008



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



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Member

Table A6.2-5; Maximum Allowable Seismic Restraint Spacing for TYPE M Water-Filled Copper Tubing – ASTM B88 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Seismic Coefficient C_p				0.43	0.60	0.73	0.99	1.33	2.00
Tube Size (in)	Tube O. D. (in)	Tube Wall Thickness (in)	Tube Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
1	1.125	0.035	1.0	20	20	20	20	15	15
1 1/4	1.375	0.042	1.4	30	20	20	20	20	15
1 1/2	1.625	0.049	2.0	30	30	20	20	20	20
2	2.125	0.058	3.3	40	30	30	30	20	20
2 1/2	2.625	0.065	4.8	40	40	30	30	30	20
3	3.125	0.072	6.5	40	40	40	30	30	30
3 1/2	3.625	0.083	8.8	40	40	40	40	30	30
4	4.125	0.095	11.4	40	40	40	40	40	30
5	5.125	0.109	17.1	40	40	40	40	40	40
6	6.125	0.122	23.8	40	40	40	40	40	40

MAXIMUM ALLOWABLE RESTRAINT SPACING – FIRE PROTECTION PIPE SECTION – A6.2

PAGE 5 of 6

RELEASED ON: 07/30/2008



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



Dublin, Ohio, USA • Mississauga, Ontario, Canada

Member

Table A6.2-6; Maximum Allowable Seismic Restraint Spacing for BlazeMaster® CPVC Water-Filled Sprinkler Pipe Manufactured by HARVEL®
 {Includes 1.15 Factor Required by NFPA 13 Section 9.3.5.6.1}

Seismic Coefficient C_p				0.43	0.60	0.73	0.99	1.33	2.00
Pipe Size (in)	Pipe O. D. (in)	Pipe I. D. (in)	Pipe Weight w_p (lb/ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)	Actual Maximum Spacing S_T (ft)
3/4	1.050	0.874	0.5	10	10	9	8	8	7
1	1.315	1.101	0.8	10	10	10	10	9	8
1 1/4	1.660	1.394	1.2	15	10	10	10	10	9
1 1/2	1.900	1.598	1.6	15	10	10	10	10	10
2	2.375	2.003	2.5	15	15	15	10	10	10
2 1/2	2.875	2.423	3.7	20	15	15	15	10	10
3	3.500	2.950	5.5	20	20	20	15	15	10

MAXIMUM ALLOWABLE RESTRAINT SPACING – FIRE PROTECTION PIPE
PAGE 6 of 6



Dublin, Ohio, USA • Mississauga, Ontario, Canada

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

SECTION – A6.2

RELEASED ON: 07/30/2008



Member