

## MAXIMUM RESTRAINT SPACING – COPPER WATER PIPE

Table A6.5-1; Maximum Allowable Seismic Restraint Spacing for *TYPE K* Water-Filled Copper Tubing – ASTM B88

Seismic Coefficient $C_s$				0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL				D	C	B	A	----	----
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	1.2	30	20	20	20	20	15
1 1/4	1.375	0.065	1.6	40	30	20	20	20	20
1 1/2	1.625	0.072	2.1	40	30	30	20	20	20
2	2.125	0.083	3.4	40	40	30	30	20	20
2 1/2	2.625	0.095	4.9	40	40	40	30	30	30
3	3.125	0.109	6.9	40	40	40	40	30	30
3 1/2	3.625	0.120	9.0	40	40	40	40	40	30
4	4.125	0.134	11.6	40	40	40	40	40	40
5	5.125	0.160	17.5	40	40	40	40	40	40
6	6.125	0.192	25.0	40	40	40	40	40	40

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Table A6.5-2; Maximum Allowable Seismic Restraint Spacing for *TYPE L* Water-Filled Copper Tubing – ASTM B88

Seismic Coefficient $C_s$				0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL				D	C	B	A	----	----
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	0.500	3.8	30	20	20	20	15	15
1 1/4	1.375	0.055	1.4	40	30	20	20	20	20
1 1/2	1.625	0.060	1.9	40	30	30	20	20	20
2	2.125	0.070	3.1	40	40	30	30	20	20
2 1/2	2.625	0.080	4.5	40	40	40	30	30	20
3	3.125	0.090	6.3	40	40	40	40	30	30
3 1/2	3.625	0.100	8.3	40	40	40	40	40	30
4	4.125	0.114	10.7	40	40	40	40	40	30
5	5.125	0.125	15.7	40	40	40	40	40	40
6	6.125	0.140	21.8	40	40	40	40	40	40

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**Table A6.5-3; Maximum Allowable Seismic Restraint Spacing for TYPE M Water-Filled Copper Tubing – ASTM B88**

Seismic Coefficient $C_s$				0.25	0.50	0.75	1.00	1.50	2.00
Seismic Hazard Level SHL				D	C	B	A	----	----
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	0.8	30	20	20	20	15	15
1 1/4	1.375	0.042	1.2	30	30	20	20	20	15
1 1/2	1.625	0.049	1.7	40	30	20	20	20	20
2	2.125	0.058	2.8	40	40	30	30	20	20
2 1/2	2.625	0.065	4.1	40	40	30	30	30	20
3	3.125	0.072	5.7	40	40	40	40	30	30
3 1/2	3.625	0.083	7.6	40	40	40	40	30	30
4	4.125	0.095	9.9	40	40	40	40	40	30
5	5.125	0.109	14.8	40	40	40	40	40	40
6	6.125	0.122	20.7	40	40	40	40	40	40

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