

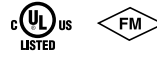
V12 Open Spray Nozzles

Style V12



Nozzles are shown in the upright position for clarity
 May be installed in any position to meet design requirements.
 K5.6 versions shown.

Approvals/Listings:



[See Victaulic Publication 10.01 for more details.](#)

Nozzle Applications:

Victaulic V12 Spray Nozzles are designed to apply cooling water to exposed vertical, horizontal, curved, and irregular shaped surfaces to allow cooling of objects externally when exposed to an adjacent fire.

Cooling is done to prevent objects from absorbing heat that could cause structural damage and possible spread of fire to the protected object. In some applications, Victaulic V12 Spray Nozzles may be applied to control or extinguish fire of the protected area (depending on water design application density).

Model Numbers:

Nominal K-Factor	Available Deflector Angles							
	180°	160°	140°	125°	110°	95°	80°	65°
1 (1.7 metric)	V1201 (180°)	V1202 (160°)	V1203 (140°)	V1204 (125°)	V1205 (110°)	V1206 (95°)	V1207 (80°)	V1208 (65°)
1.8 (2.6 metric)	V1211 (180°)	V1212 (160°)	V1213 (140°)	V1214 (125°)	V1215 (110°)	V1216 (95°)	V1217 (80°)	V1218 (65°)
2.3 (3.3 metric)	V1221 (180°)	V1222 (160°)	V1223 (140°)	V1224 (125°)	V1225 (110°)	V1226 (95°)	V1227 (80°)	V1228 (65°)
3.2 (4.6 metric)	V1231 (180°)	V1232 (160°)	V1233 (140°)	V1234 (125°)	V1235 (110°)	V1236 (95°)	V1237 (80°)	V1238 (65°)
4.1 (5.9 metric)	V1241 (180°)	V1242 (160°)	V1243 (140°)	V1244 (125°)	V1245 (110°)	V1246 (95°)	V1247 (80°)	V1248 (65°)
4.9 (7.1 metric)	V1251 (180°)	V1252 (160°)	V1253 (140°)	V1254 (125°)	V1255 (110°)	V1256 (95°)	V1257 (80°)	V1258 (65°)
5.6 (8.1 metric)	V1261 (180°)	V1262 (160°)	V1263 (140°)	V1264 (125°)	V1265 (110°)	V1266 (95°)	V1267 (80°)	V1268 (65°)
7.2 (10.4 metric*)	V1271 (180°)	V1272 (160°)	V1273 (140°)	V1274 (125°)	V1275 (110°)	V1276 (95°)	V1277 (80°)	V1278 (65°)

Victaulic V12 Spray Nozzles are open type spray nozzles designed for directional spray applications in fixed fire protection systems. They have an open design only (non-automatic) with a deflector that discharges a solid uniform cone spray of low- to medium- velocity water droplets. Victaulic V12 Spray Nozzles are available in multiple orifice sizes and spray angles to meet various design application requirements.

For nozzles having nominal U.S. K-Factors of 1.2, 1.8, 2.3, and 3.2, a bushing is used, whereas nozzles with K-Factors of 4.1, 4.9, 5.6, and 7.2 are machined orifices..

Job/Owner

System No.	
Location	

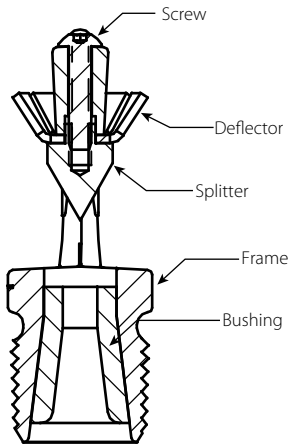
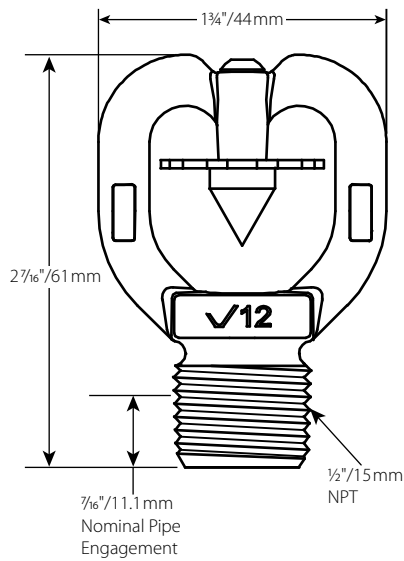
Contractor

Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	

Technical Specifications:



Specifications:

Minimum Operating Pressure: Pendent Position (vertically downward) 10 psi/0.7 bar. All other positions 20 psi/1.4 bar

Minimum Operating Pressure: 175 psi/12 bar

Thread size: 1/2"/15 mm NPT

Orifice sizes are indicated by the K-Factor, which is marked on the deflector. Refer to the Nominal Discharge Curves on pages 5 and 7 for each nozzle at various operating residual pressures.

* Metric K-Factor measurement shown is when pressure is measured in kPa. When pressure is measured in Bar, multiply the metric K-Factor shown by 10.0.

Overall Length: 2 7/16"/61 mm

Material Specifications:

Frame Casting: Dezincification resistant die cast brass

Splitter: Brass UNS-C36000

Bushing (for nozzles with 1.2, 1.8, 2.3, and 3.2 K-Factors): Brass UNS-C36000

Deflector: Brass UNS-C51000

Screw: Stainless Steel UNS-S30400

Accessories:

Sprinkler Wrenches:

A. Standard Wrench: V27 Open End

Finishes:

Plain Brass

Proprietary Nickel Teflon¹ coating²

VC-250³

¹ Teflon is a registered trademark of Dupont Co.

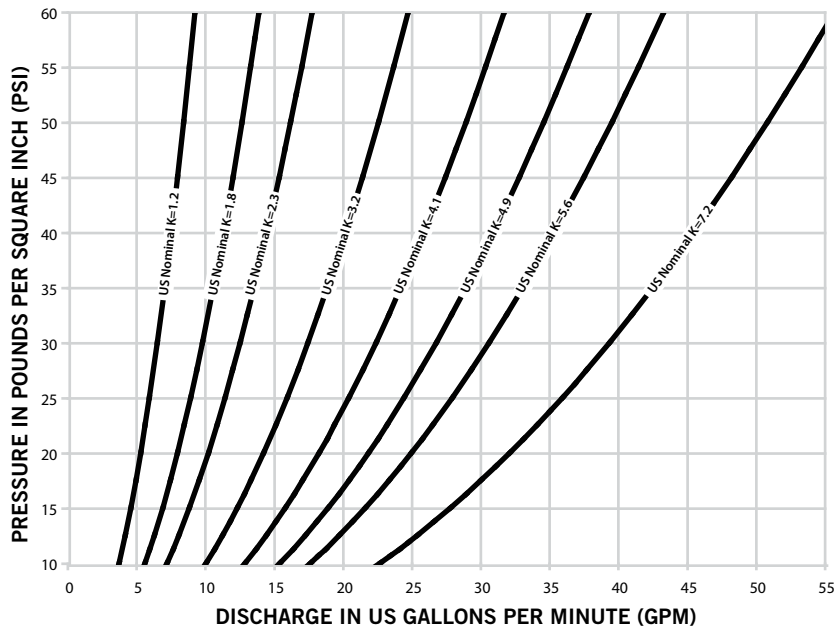
² UL Listed for corrosion resistance.

³ UL Listed and FM Approved for corrosion resistance.

Nominal K-Factor	Available Deflector Angles							
	V1201 (180°)	V1202 (160°)	V1203 (140°)	V1204 (125°)	V1205 (110°)	V1206 (95°)	V1207 (80°)	V1208 (65°)
1 (1.7 metric)	V1201 (180°)	V1202 (160°)	V1203 (140°)	V1204 (125°)	V1205 (110°)	V1206 (95°)	V1207 (80°)	V1208 (65°)
1.8 (2.6 metric)	V1211 (180°)	V1212 (160°)	V1213 (140°)	V1214 (125°)	V1215 (110°)	V1216 (95°)	V1217 (80°)	V1218 (65°)
2.3 (3.3 metric)	V1221 (180°)	V1222 (160°)	V1223 (140°)	V1224 (125°)	V1225 (110°)	V1226 (95°)	V1227 (80°)	V1228 (65°)
3.2 (4.6 metric)	V1231 (180°)	V1232 (160°)	V1233 (140°)	V1234 (125°)	V1235 (110°)	V1236 (95°)	V1237 (80°)	V1238 (65°)
4.1 (5.9 metric)	V1241 (180°)	V1242 (160°)	V1243 (140°)	V1244 (125°)	V1245 (110°)	V1246 (95°)	V1247 (80°)	V1248 (65°)
4.9 (7.1 metric)	V1251 (180°)	V1252 (160°)	V1253 (140°)	V1254 (125°)	V1255 (110°)	V1256 (95°)	V1257 (80°)	V1258 (65°)
5.6 (8.1 metric)	V1261 (180°)	V1262 (160°)	V1263 (140°)	V1264 (125°)	V1265 (110°)	V1266 (95°)	V1267 (80°)	V1268 (65°)
7.2 (10.4 metric*)	V1271 (180°)	V1272 (160°)	V1273 (140°)	V1274 (125°)	V1275 (110°)	V1276 (95°)	V1277 (80°)	V1278 (65°)

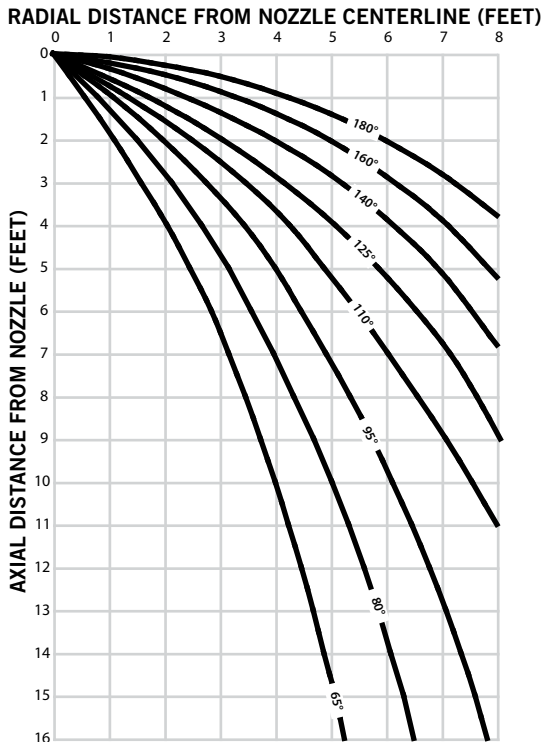
Installation Technical Data:

Figure 1 - K Factor Discharge Curves



K-factors have tolerances of +/- 0.2 GPM/ $\sqrt{\text{PSI}}$ (0.2 LPM/ $\sqrt{\text{kPa}}$) from nominal.

Figure 2 - Design Spray Profiles (All K Factors)



Notes:

1. The design spray profile is the included angle of discharge for each nozzle.
2. Figure 2 illustrates the radial distance at various heights based upon testing in the pendent position at 10 psi, 20 psi, and 60 psi / 69 kPa, 138 kPa, and 414 kPa discharge pressure (see Figure 3, Variable C).
3. For FM only installations, use a recommended tolerance of +/- 2 ft [0.6 m] from nominal for the radial distances shown (x-axis) in Figure 2 for all fixed angle orientations. Use a recommended spray profile angle tolerance of +/- 5° in the pendent position (vertically downward) and +/-10° in all other fixed angle orientations.
4. For UL/NFPA only installations, use a recommended tolerance of +/-15% from nominal for the radial distances shown (x-axis) in Figure 2 for all fixed angle orientations.
5. Spray profiles will tend to decrease (or pull inward) with an increase in pressure. All test data was obtained in a stagnant air environment.

See Exposure Protection Tables for fixed angle orientation and maximum axial distance from the plane of protection for each model.

Installation Technical Data Exposure Protection Tables (Imperial)

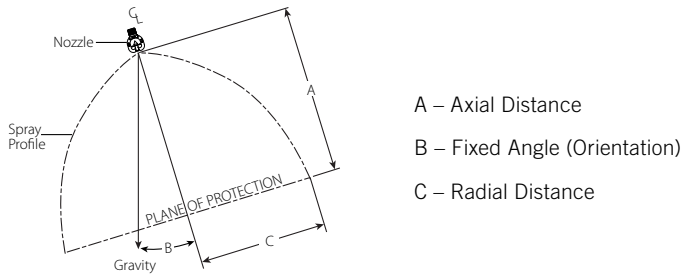


Figure 3 - Spray Coverage Variables

Maximum Axial Distance For 65° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	14-9	15-0	15-0	15-3	15-3	15-6	15-9	16-0
30°	9-9	9-9	10-0	10-3	10-6	10-9	11-0	11-6
45°	8-0	8-0	8-6	9-0	9-3	9-6	9-9	10-3
60°	7-0	7-3	7-9	8-3	8-6	8-6	8-9	9-6
90°	6-6	6-9	7-0	7-6	7-9	8-0	8-0	8-6
120°	6-3	6-6	6-9	7-3	7-3	7-6	7-6	7-9
135°	5-9	6-0	6-3	6-6	6-9	6-9	7-0	7-6
150°	5-6	5-9	6-0	6-0	6-6	6-9	6-9	7-3
180°	5-0	5-0	5-3	5-6	6-0	6-3	6-6	6-9

Maximum Axial Distance For 125° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	7-9	7-9	7-9	8-0	8-3	8-3	8-6	8-9
30°	5-0	5-3	5-6	5-9	6-9	7-3	7-9	7-9
45°	4-3	4-6	4-9	5-0	6-0	6-3	6-6	7-0
60°	3-6	3-9	4-0	4-3	5-3	5-6	5-9	6-3
90°	3-0	3-3	3-6	3-6	4-3	4-6	4-9	5-3
120°	2-0	2-0	2-6	3-3	3-9	3-9	3-9	4-3
135°	1-9	1-9	2-3	3-0	3-6	3-6	3-6	3-9
150°	1-6	1-9	2-3	2-6	3-0	3-3	3-3	3-6
180°	1-3	1-6	2-0	2-6	2-9	2-9	3-0	3-3

Maximum Axial Distance For 80° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	14-9	15-0	15-0	15-3	15-3	15-6	15-9	16-0
30°	9-6	9-9	10-3	10-6	10-9	10-9	11-0	11-3
45°	7-6	7-9	8-3	8-6	8-9	9-0	9-3	9-9
60°	6-3	6-6	6-9	7-0	7-3	7-6	8-3	8-9
90°	5-9	6-3	6-6	6-9	7-0	7-3	7-6	7-9
120°	5-3	5-6	5-9	6-0	6-3	6-3	6-6	7-0
135°	4-9	5-3	5-6	5-9	6-0	6-0	6-3	6-6
150°	4-3	4-6	4-9	5-6	5-9	5-9	6-0	6-0
180°	4-0	4-3	4-6	5-3	5-6	5-6	5-9	5-9

Maximum Axial Distance For 140° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	6-3	6-3	6-3	6-6	6-6	6-6	6-9	6-9
30°	3-9	3-9	4-3	4-9	5-3	5-3	5-6	5-9
45°	3-0	3-3	3-6	4-3	4-9	5-0	5-0	5-3
60°	2-3	2-6	2-9	3-9	4-3	4-3	4-6	4-9
90°	2-0	2-0	2-6	3-0	3-6	3-9	3-9	4-0
120°	1-9	1-9	2-3	2-6	2-9	2-9	3-0	3-6
135°	1-6	1-6	1-9	2-3	2-6	2-6	2-9	3-0
150°	1-3	1-3	1-6	1-9	2-0	2-0	2-3	2-6
180°	1-0	1-0	1-3	1-6	1-9	1-9	2-0	2-3

Maximum Axial Distance For 95° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	14-9	15-0	15-0	15-3	15-3	15-6	15-9	16-0
30°	8-3	8-6	9-3	9-6	10-3	10-6	10-6	11-3
45°	7-0	7-0	7-3	7-6	8-6	8-9	9-0	9-9
60°	5-3	5-6	5-9	6-6	6-9	7-0	7-6	8-6
90°	4-6	4-9	5-6	5-9	6-0	6-0	6-3	6-9
120°	4-0	4-3	4-6	5-0	5-3	5-6	5-6	5-9
135°	3-9	3-9	4-3	4-9	5-0	5-3	5-3	5-6
150°	3-3	3-6	3-6	4-6	4-9	4-9	5-0	5-3
180°	3-0	3-3	3-3	4-0	4-3	4-3	4-6	4-9

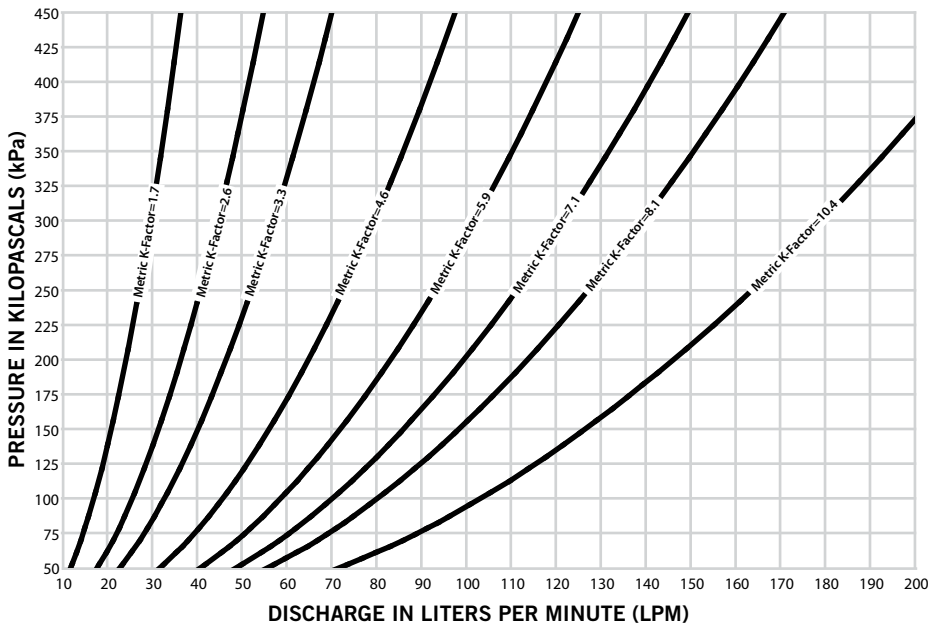
Maximum Axial Distance For 160° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	4-9	4-9	4-9	5	5	5	5-3	5-3
30°	3-9	3-9	4-0	4-0	4-6	4-6	4-6	4-9
45°	3-0	3-0	3-6	3-9	4-0	4-0	4-0	4-3
60°	2-0	2-0	2-3	2-6	3-3	3-3	3-6	3-6
90°	1-0	1-3	1-9	2-0	2-6	2-6	2-6	2-9
120°	NR	1-0	1-6	1-9	2-0	2-3	2-3	2-6
135°	NR	NR	1-0	1-6	1-9	1-9	1-9	2-0
150°	NR	NR	NR	1-0	1-3	1-3	1-6	1-9
180°	NR	NR	NR	1-0	1-0	1-0	1-3	1-6

Maximum Axial Distance For 110° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	9-6	9-9	9-9	10-0	10-3	10-6	10-9	11-0
30°	6-6	6-9	7-3	8-0	8-6	8-9	9-0	9-6
45°	5-6	6-0	6-9	7-0	7-6	7-9	8-3	8-6
60°	4-9	5-0	5-6	5-9	6-3	6-9	7-3	7-9
90°	3-9	4-0	4-6	4-9	5-3	5-6	5-9	6-3
120°	3-3	3-6	4-0	4-3	4-6	4-6	4-9	5-3
135°	2-9	3-0	3-6	4-0	4-3	4-3	4-6	4-9
150°	2-6	2-9	3-3	3-6	4-0	4-3	4-3	4-6
180°	2-3	2-6	3-0	3-3	3-6	3-9	4-0	4-3

Maximum Axial Distance For 180° Spray Angle In Feet And Inches								
Fixed Angle	K Factor							
	1.2	1.8	2.3	3.2	4.1	4.9	5.6	7.2
0°	3-3	3-3	3-3	3-6	3-6	3-9	3-9	3-9
30°	2-3	2-3	2-6	2-9	3-0	3-3	3-3	3-3
45°	2-0	2-0	2-3	2-6	2-9	3-0	3-0	3-0
60°	1-6	1-6	1-9	2-0	2-3	2-3	2-6	2-6
90°	NR	NR	1-0	1-0	1-6	1-9	2-0	2-3
120°	NR	NR	1-0	1-0	1-3	1-6	1-6	1-9
135°	NR	NR	NR	1-0	1-0	1-3	1-3	1-6
150°	NR	NR	NR	NR	1-0	1-0	1-3	1-3
180°	NR	NR	NR	NR	NR	1-0	1-0	1-0

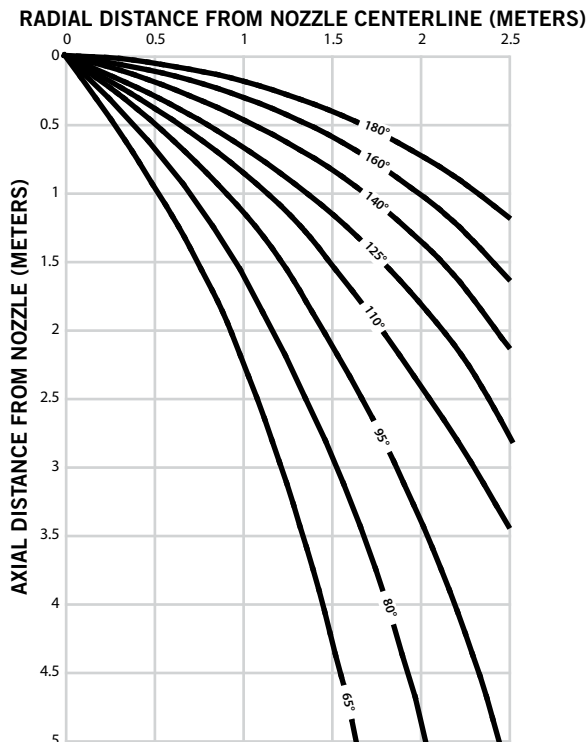
Installation Technical Data:

Figure 4 - K Factor Discharge Curves (Metric)



K-factors have tolerances of +/- 0.2 GPM/ $\sqrt{\text{PSI}}$ (0.2 LPM/ $\sqrt{\text{kPa}}$) from nominal.

Figure 5 - Design Spray Profiles (Metric, All K Factors)



Notes:

1. The design spray profile is the included angle of discharge for each nozzle.
2. Figure 2 illustrates the radial distance at various heights based upon testing in the pendent position at 10 psi, 20 psi, and 60 psi / 69 kPa, 138 kPa, and 414 kPa discharge pressure (see Figure 3, Variable C).
3. For FM only installations, use a recommended tolerance of +/- 2 ft [0.6 m] from nominal for the radial distances shown (x-axis) in Figure 2 for all fixed angle orientations. Use a recommended spray profile angle tolerance of +/- 5° in the pendent position (vertically downward) and +/-10° in all other fixed angle orientations.
4. For UL/NFPA only installations, use a recommended tolerance of +/-15% from nominal for the radial distances shown (x-axis) in Figure 2 for all fixed angle orientations.
5. Spray profiles will tend to decrease (or pull inward) with an increase in pressure. All test data was obtained in a stagnant air environment.

See Exposure Protection Tables for fixed angle orientation and maximum axial distance from the plane of protection for each model.

Installation Technical Data Exposure Protection Tables (Metric)

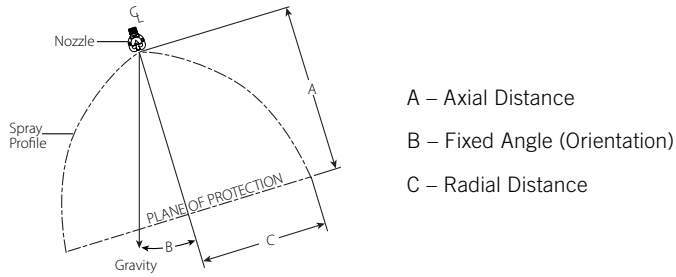


Figure 6 - Spray Coverage Variables

Maximum Axial Distance For 65° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	4.5	4.6	4.6	4.6	4.6	4.7	4.8	4.9	
30°	3.0	3.0	3.0	3.1	3.2	3.4	3.4	3.5	
45°	2.4	2.4	2.6	2.7	2.8	3.0	3.0	3.1	
60°	2.1	2.2	2.4	2.5	2.6	2.7	2.7	2.9	
90°	2.0	2.1	2.1	2.3	2.4	2.4	2.4	2.6	
120°	1.9	2.0	2.1	2.2	2.2	2.3	2.3	2.4	
135°	1.8	1.8	1.9	2.0	2.1	2.1	2.1	2.3	
150°	1.7	1.8	1.8	1.8	2.0	2.1	2.1	2.2	
180°	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.1	

Maximum Axial Distance For 125° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.7	
30°	1.5	1.6	1.7	1.8	2.1	2.2	2.4	2.4	
45°	1.3	1.4	1.4	1.5	1.8	1.9	2.0	2.1	
60°	1.1	1.1	1.2	1.3	1.6	1.7	1.8	1.9	
90°	0.9	1.0	1.1	1.1	1.3	1.4	1.4	1.6	
120°	0.6	0.6	0.8	1.0	1.1	1.1	1.1	1.3	
135°	0.5	0.5	0.7	0.9	1.1	1.1	1.1	1.1	
150°	0.5	0.5	0.7	0.8	0.9	1.0	1.0	1.1	
180°	0.4	0.5	0.6	0.8	0.8	0.8	0.9	1.0	

Maximum Axial Distance For 80° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	4.5	4.6	4.6	4.6	4.6	4.8	4.8	4.9	
30°	2.9	3.0	3.1	3.2	3.3	3.3	3.4	3.4	
45°	2.3	2.4	2.5	2.6	2.7	2.7	2.8	3.0	
60°	1.9	2.0	2.1	2.1	2.2	2.3	2.5	2.7	
90°	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4	
120°	1.6	1.7	1.8	1.8	1.9	1.9	2.0	2.1	
135°	1.4	1.6	1.7	1.8	1.8	1.8	1.9	2.0	
150°	1.3	1.4	1.4	1.7	1.8	1.8	1.8	1.8	
180°	1.2	1.3	1.4	1.6	1.7	1.7	1.8	1.8	

Maximum Axial Distance For 140° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	
30°	1.1	1.1	1.3	1.4	1.6	1.6	1.7	1.8	
45°	0.9	1.0	1.1	1.3	1.4	1.5	1.5	1.6	
60°	0.7	0.8	0.8	1.1	1.3	1.3	1.4	1.4	
90°	0.6	0.6	0.8	0.9	1.1	1.1	1.1	1.2	
120°	0.5	0.5	0.7	0.8	0.8	0.8	0.9	1.1	
135°	0.5	0.5	0.5	0.7	0.8	0.8	0.8	0.9	
150°	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.8	
180°	0.3	0.3	0.4	0.5	0.5	0.5	0.6	0.7	

Maximum Axial Distance For 95° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	4.5	4.6	4.6	4.6	4.6	4.7	4.8	4.9	
30°	2.5	2.6	2.8	2.9	3.1	3.2	3.2	3.4	
45°	2.1	2.1	2.2	2.3	2.6	2.7	2.7	3.0	
60°	1.6	1.7	1.8	2.0	2.1	2.1	2.3	2.6	
90°	1.4	1.4	1.7	1.8	1.8	1.8	1.9	2.1	
120°	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8	
135°	1.1	1.1	1.3	1.4	1.5	1.6	1.6	1.7	
150°	1.0	1.1	1.1	1.4	1.4	1.4	1.5	1.6	
180°	0.9	1.0	1.0	1.2	1.3	1.3	1.4	1.4	

Maximum Axial Distance For 160° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	
30°	1.1	1.1	1.2	1.2	1.4	1.4	1.4	1.4	
45°	0.9	0.9	1.1	1.1	1.2	1.2	1.2	1.3	
60°	0.6	0.6	0.7	0.8	1.0	1.0	1.1	1.1	
90°	0.3	0.4	0.5	0.6	0.8	0.8	0.8	0.8	
120°	NR	0.3	0.5	0.5	0.6	0.7	0.7	0.8	
135°	NR	NR	0.3	0.5	0.5	0.5	0.5	0.6	
150°	NR	NR	NR	0.3	0.4	0.4	0.5	0.5	
180°	NR	NR	NR	0.3	0.3	0.3	0.4	0.5	

Maximum Axial Distance For 110° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	2.9	3.0	3.0	3.0	3.0	3.2	3.3	3.4	
30°	2.0	2.1	2.2	2.4	2.6	2.7	2.7	2.9	
45°	1.7	1.8	2.1	2.1	2.3	2.4	2.5	2.6	
60°	1.4	1.5	1.7	1.8	1.9	2.1	2.2	2.4	
90°	1.1	1.2	1.4	1.4	1.6	1.7	1.8	1.9	
120°	1.0	1.1	1.2	1.3	1.4	1.4	1.4	1.6	
135°	0.8	0.9	1.1	1.2	1.3	1.3	1.4	1.4	
150°	0.8	0.8	1.0	1.1	1.2	1.3	1.3	1.4	
180°	0.7	0.8	0.9	1.0	1.1	1.1	1.2	1.3	

Maximum Axial Distance For 180° Spray Angle In Meters									
Fixed Angle	K Factor								
	1.7	2.6	3.3	4.6	5.9	7.1	8.1	10.4	
0°	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	
30°	0.7	0.7	0.8	0.8	0.9	1.0	1.0	1.0	
45°	0.6	0.6	0.7	0.8	0.8	0.9	0.9	0.9	
60°	0.5	0.5	0.5	0.6	0.7	0.7	0.8	0.8	
90°	NR	NR	0.3	0.3	0.5	0.5	0.5	0.7	
120°	NR	NR	0.3	0.3	0.4	0.5	0.5	0.5	
135°	NR	NR	NR	0.3	0.3	0.4	0.4	0.5	
150°	NR	NR	NR	NR	0.3	0.3	0.4	0.4	
180°	NR	NR	NR	NR	NR	0.3	0.3	0.3	

Ordering Information:

Please specify the following when ordering:

- Sprinkler Model Number
- K Factor
- Spray Angle
- Nozzle Finish
- Wrench Model Number

WARNING

- **Victaulic V12 Spray Nozzles are manufactured and tested to meet the rigid requirements of the approving agency.**
- **The nozzles are designed to be installed in accordance with recognized installation standards. Deviation from the standards or any alteration to the nozzle after it leaves the factory including, but not limited to: painting, plating, coating, or modification, may render the unit inoperative and will automatically nullify the approval and any guarantee made by Victaulic.**

The Approval Chart shows listings and approvals of Victaulic V12 Spray Nozzles for use on water spray systems and water based deluge systems. The chart shows listings and approvals available at the time of printing. Other approvals may be in process.

Check with the manufacturer for any additional approvals.

Installation:

- A. Victaulic V12 Spray nozzles are to be installed in accordance with the latest edition A. of Victaulic technical data, the latest published standards of NFPA or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards whenever applicable. The use of Victaulic V12 Spray Nozzles may be limited due to occupancy and hazard. Refer to the Authority Having Jurisdiction prior to installation.
- B. Spray nozzles are installed on fixed fire protection systems, such as deluge systems, where totalflooding is required.
- C. See Victaulic publication I-40 for installation and maintenance instructions.

Note: A system strainer is needed if orifice diameter is less than 3/8"/9.4 mm, which includes V12 spray nozzles of K-Factors 3.2, 2.3, 1.8 and 1.2.
- D. Spray nozzles must be inspected on a regular basis for corrosion, mechanical damage, obstructions, paint, etc. Where open spray nozzles are installed, verify that foreign materials (such as dust, dirt, etc.) do not restrict or plug the water spray. The frequency of inspections may vary due to corrosive atmospheres, water supplies, and activity around the device.

Installation

Reference should always be made to the [I-100 Victaulic Field Installation Handbook](#) for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at www.victaulic.com.

Warranty

Refer to the Warranty section of the current Price List or contact Victaulic for details.

Note

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

Trademarks

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