

Victaulic® FireLock™ Series FL-SA/NZ

Specific Application, Open Window Nozzle Sprinklers

K1.4 (2.0), K2.0 (2.9), K2.8 (4.0), K4.2 (6.1), K5.6 (8.1), K8.0 (11.5), K11.4 (16.2)



1.0 PRODUCT DESCRIPTION

EXPOSURE/WINDOW NOZZLE							
SIN	V1001	V1003	V1005	V1007	V1009	V1011	V1013
ORIENTATION	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS
K-FACTOR ¹	1.4 Imp./2.0 S.I.	2.0 Imp./2.9 S.I.	2.8 Imp./4.0 S.I.	4.2 Imp./6.1 S.I.	5.6 Imp./8.1 S.I.	8.0 Imp./11.5 S.I.	11.2 Imp./16.1 S.I.
CONNECTION	½" NPT/15 mm BSPT	½" NPT/15 mm BSPT	½" NPT/15 mm BSPT	½" NPT/15 mm BSPT	½" NPT/15 mm BSPT	¾" NPT/20 mm BSPT	¾" NPT/20 mm BSPT
MAX. WORKING PRESSURE	175 psi (1200 kPa)	175 psi (1200 kPa)	175 psi (1200 kPa)	175 psi (1200 kPa)	175 psi (1200 kPa)	175 psi (1200 kPa)	175 psi (1200 kPa)
GLOBE EQUIVALENT	WS ¼	WS ⅙	WS ⅓	WS ⅞	WS ½	WS ⅞	WS ⅝

AVAILABLE WRENCHES	
SPRINKLER	Any commercially available wrench
V10	■

Min. Operating Pressure: UL: 7 psi/48 kPa/.5 bar

¹ For K-Factor when pressure is measured in bar, multiply S.I. units by 10.0.

2.0 CERTIFICATIONS/LISTINGS



APPROVALS/LISTINGS							
SIN	V1001	V1003	V1005	V1007	V1009	V1011	V1013
Nominal K Factor Imperial	1.4	2.0	2.8	4.2	5.6	8.0	11.2
Nominal K Factor S.I. ²	2.0	2.9	4.0	6.1	8.1	11.5	16.1
Orientation	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS	VARIOUS
Approvals/Listings	cULus						

² For K-Factor when pressure is measured in bar, multiply S.I. units by 10.

NOTE

- Reference the specific agency website listings for the most up-to-date certification information.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.



3.0 SPECIFICATIONS – MATERIAL

Nozzle: Brass

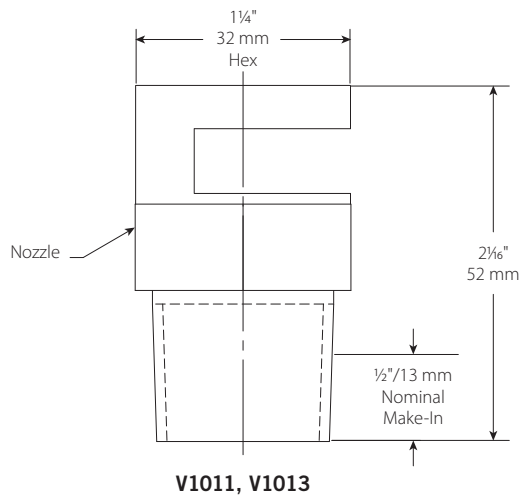
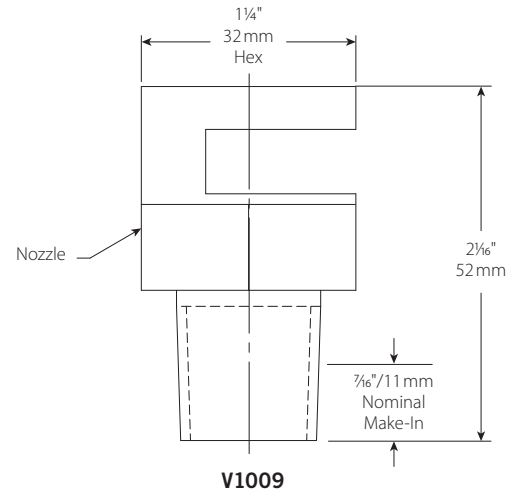
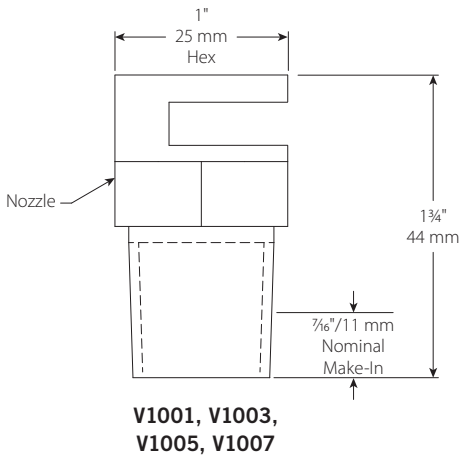
Sprinkler Frame Finishes:

- Plain Brass
 - VC-250³
- ³ UL Listed for corrosion resistance

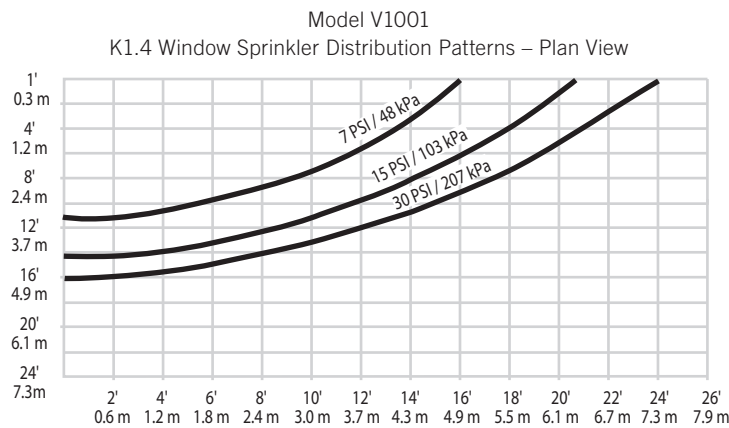
NOTE

- For cabinets and other accessories refer to separate sheet.

4.0 DIMENSIONS

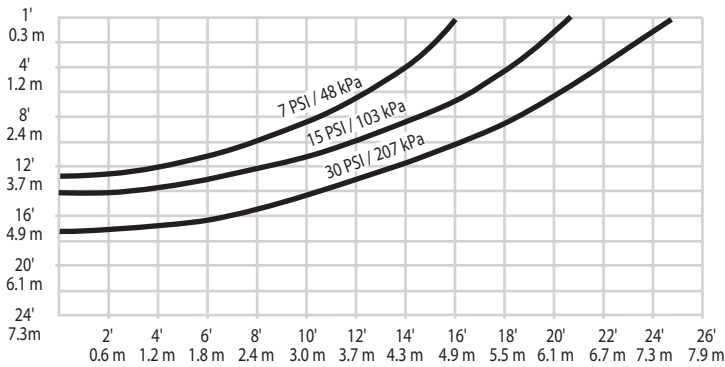


4.1 DIMENSIONS – DISTRIBUTION PATTERNS

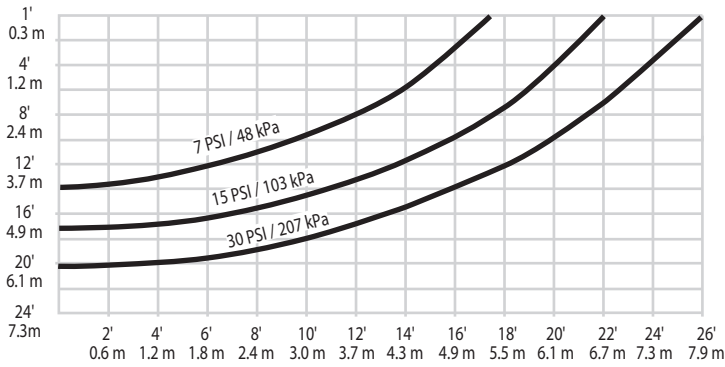


4.1 DIMENSIONS – DISTRIBUTION PATTERNS (CONTINUED)

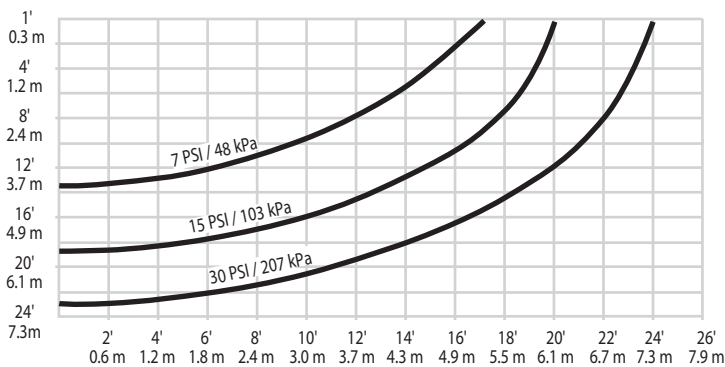
Model V1003
K1.9 Window Sprinkler Distribution Patterns – Plan View



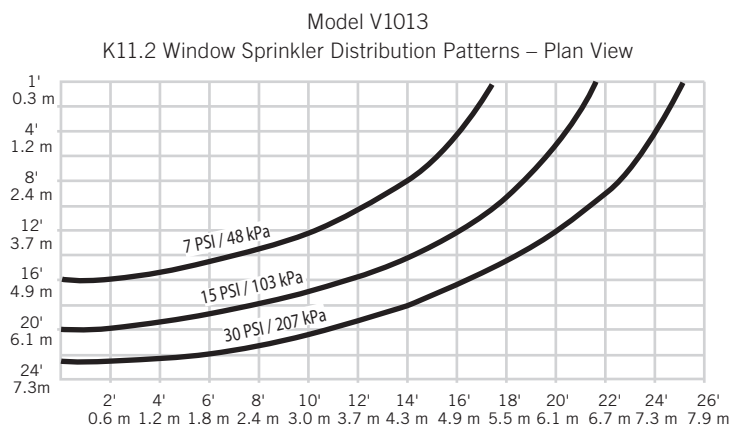
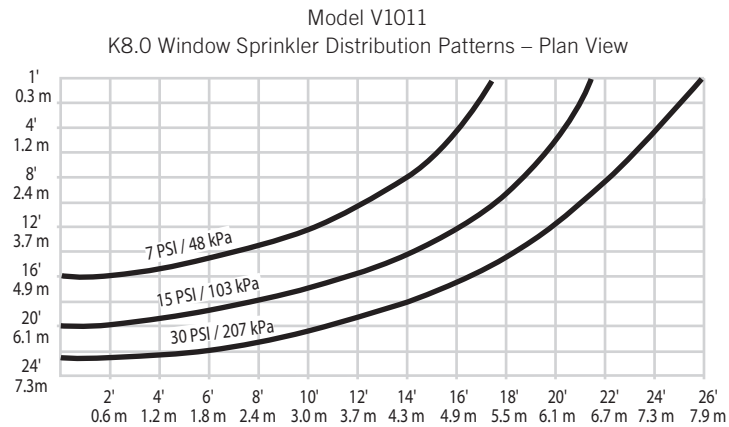
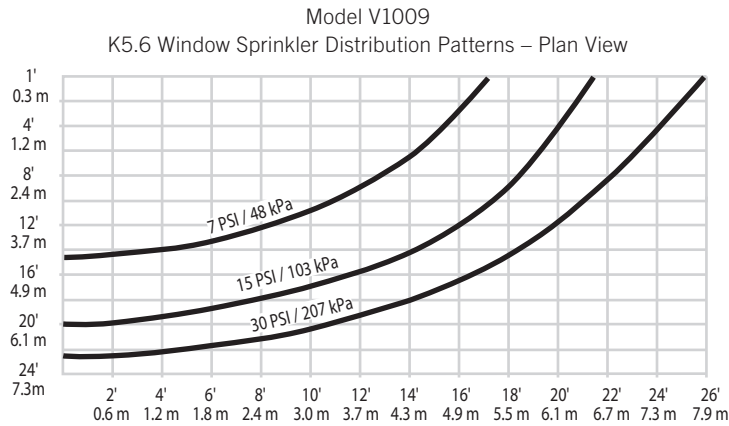
Model V1005
K2.8 Window Sprinkler Distribution Patterns – Plan View



Model V1007
K4.2 Window Sprinkler Distribution Patterns – Plan View



4.1 DIMENSIONS – DISTRIBUTION PATTERNS (CONTINUED)



5.0 PERFORMANCE

Sprinkler systems are to be designed to and installed per NFPA, FM Datasheets, and any local standards.

NOTES

- Data shown is approximate and can vary due to differences in installation.
- These graphs illustrate approximate trajectories, floor-wetting, and wall-wetting patterns for these specific Victaulic® FireLock™ Automatic Sprinklers. They are provided as information for guidance in avoiding obstructions to sprinklers and should not be used as minimum sprinkler spacing rules for installation. Refer to the appropriate NFPA National Fire Code and the authority having jurisdiction for specific information regarding obstructions, spacing limitations and area of coverage requirements. Failure to follow these guidelines could adversely affect the performance of the sprinkler and will void all Listings, Approvals and Warranties.
- All patterns are symmetrical to the centerline of the waterway.

6.0 NOTIFICATIONS

! WARNING



- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- These products shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA) standards, or equivalent standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.
- The installer shall understand the use of this product and why it was specified for the particular application.
- The installer shall understand common industry safety standards and potential consequences of improper product installation.
- It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.
- The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

[I-40: Victaulic® FireLock™ Automatic Sprinklers Installation and Maintenance Instructions](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for determining the suitability of Victaulic products for their end-use application, in accordance with industry standards, project specifications, and Victaulic's published performance, maintenance, and safety data, as well as all warnings and installation instructions. Nothing in this or any other document, nor any verbal recommendation, advice, or opinion from any Victaulic employee, shall be deemed to alter, vary, supersede, or waive any provision of Victaulic Company's standard conditions of sale, warranty, installation instructions, or this disclaimer.

Installation

Always refer to and follow the [Victaulic Installation Handbook](#) or installation instructions for the product you are installing. Handbooks are included with each shipment of Victaulic products, providing complete installation and assembly data, and are available in PDF format on our website at [victaulic.com](#).

Warranty

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

Intellectual Property Rights

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Note

All products bearing a Victaulic trademark are manufactured by Victaulic or to Victaulic specifications. All products are to be installed only in accordance with the applicable Victaulic installation instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.