

Victaulic® FireLock™ Series FL-ECLH/C

Extended Coverage, Quick Response

Concealed Pendent Sprinklers

K5.6 (8.1), K8.0 (11.5), K11.2 (16.2)



1.0 PRODUCT DESCRIPTION

QUICK RESPONSE EXTENDED COVERAGE CONCEALED PENDENT SPRINKLERS			
SIN	V5603	V3102	V1106
ORIENTATION	Concealed Pendent	Concealed Pendent	Concealed Pendent
K-FACTOR ¹	5.6 Imp./8.1 S.I.	8.0 Imp./11.5 S.I.	11.2 Imp./16.2 S.I.
CONNECTION	½" NPT/15mm BSPT	¾" NPT/ 20mm BSPT	¾" NPT/ 20mm BSPT
MAX. WORKING PRESSURE	175 psi (1200 kPa)	175 psi (1200 kPa)	175 psi (1200 kPa)
GLOBE RE-DESIGNATION	GL5603	–	GL1106
VICTAULIC EQUIVALENT	–	–	V3104

AVAILABLE WRENCHES			
SPRINKLER	V56 Concealed	V33 Concealed	V11 Concealed
PENDENT	■	■	■

Factory Hydrostatic Test: 100% @ 500 psi/3447 kPa/34 bar

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

Temperature Rating: See tables in section 2.0

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

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

2.0 CERTIFICATION/LISTINGS



SIN		V5603					
Nominal K Factor Imperial		5.6					
Nominal K Factor S.I. ²		8.1					
Installation Type		Concealed Pendent					
Maximum Coverage Area Width x Length Ft. x Ft m x m	Listing Agency	Response	Flow GPM L/min	Pressure PSI kPa	Approved Temperature Ratings	Approved Coverplate Temperature Ratings	Minimum Spacing Ft m
16 X 16 4.9 X 4.9	cULus	QR	26 98	21.5 148	135°F/57°C 155°F/68°C 175°F/79°C	135°F/57°C 135°F/57°C 155°F/68°C	8 2.4
18 x 18 5.5 x 5.5	cULus	QR	33 125	34.7 239	135°F/57°C 155°F/68°C 175°F/79°C	135°F/57°C 135°F/57°C 155°F/68°C	
20 x 20 6.1 x 6.1	cULus	QR	40 151	51 352	135°F/57°C	135°F/57°C	

SIN		V3102					
Nominal K Factor Imperial		8					
Nominal K Factor S.I. ²		11.5					
Installation Type		Concealed Pendent					
Maximum Coverage Area Width x Length Ft. x Ft m x m	Listing Agency	Response	Flow GPM L/min	Pressure PSI kPa	Approved Temperature Ratings	Approved Coverplate Temperature Ratings	Minimum Spacing Ft. m
16 X 16 4.9 X 4.9	cULus	QR	26 98	10.6 73	135°F/57°C	135°F/57°C	8 2.4
18 x 18 5.5 x 5.5	cULus	QR	33 125	17 117	135°F/57°C	135°F/57°C	
20 x 20 6.1 x 6.1	cULus	QR	40 151	25 172	135°F/57°C	135°F/57°C	

SIN		V1106					
Nominal K Factor Imperial		11.2					
Nominal K Factor S.I. ²		16.2					
Installation Type		Concealed Pendent					
Maximum Coverage Area Width x Length Ft. x Ft m x m	Listing Agency	Response	Flow GPM L/min	Pressure PSI kPa	Approved Temperature Ratings	Approved Coverplate Temperature Ratings	Minimum Spacing Ft. m
16 X 16 4.9 X 4.9	cULus	QR	30 113.6	7.2 50	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C	135°F/57°C 135°F/57°C 155°F/68°C 155°F/68°C	9 2.7
18 x 18 5.5 x 5.5	cULus	QR	33 125	8.7 60	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C	135°F/57°C 135°F/57°C 155°F/68°C 155°F/68°C	
20 x 20 6.1 x 6.1	cULus	QR	40 151	12.8 88	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C	135°F/57°C 135°F/57°C 155°F/68°C 155°F/68°C	

² For K-Factor when pressure is measured in bar, multiply S.I. units by 10.0.

NOTES

- Listings and approval as of printing.
- These sprinklers are required to be vented. Installations with a positive pressure air plenum above the housing are not permitted.

3.0 SPECIFICATIONS – MATERIAL

Deflector: Bronze

Bulb Nominal Diameter: 3.0 mm

Load Screw: Brass

Pip Cap: Brass

Spring Seal: PTFE coated Beryllium nickel alloy

Frame: Brass

Lodgement Spring: Stainless Steel

Pin: Stainless Steel

Cup: Steel

Cover Plate: Steel

Installation Wrench: Ductile Iron

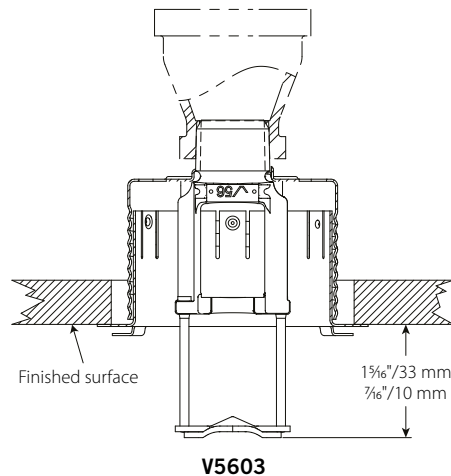
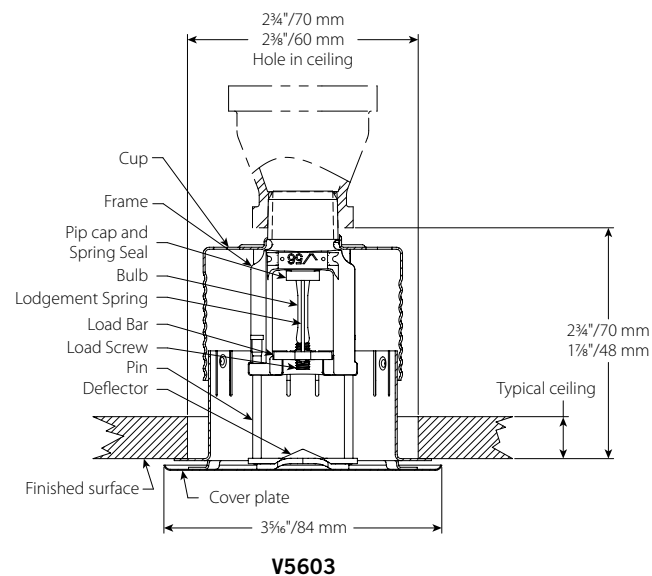
Cover Plate Finishes:

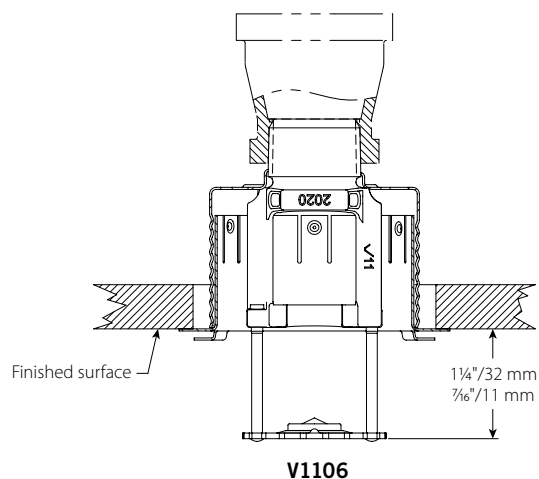
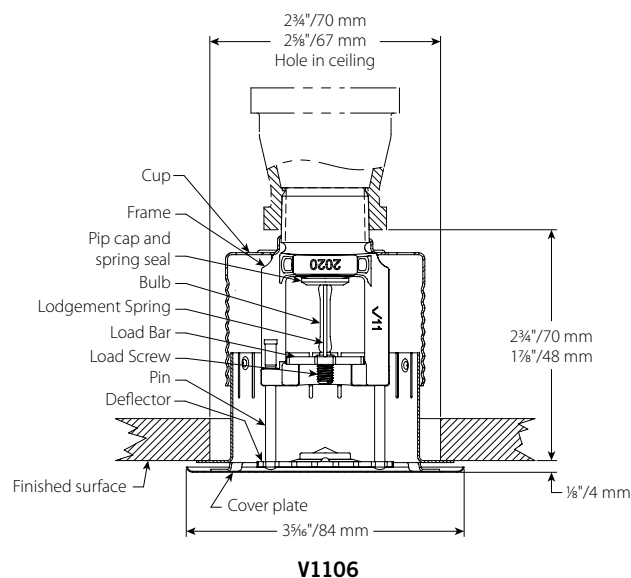
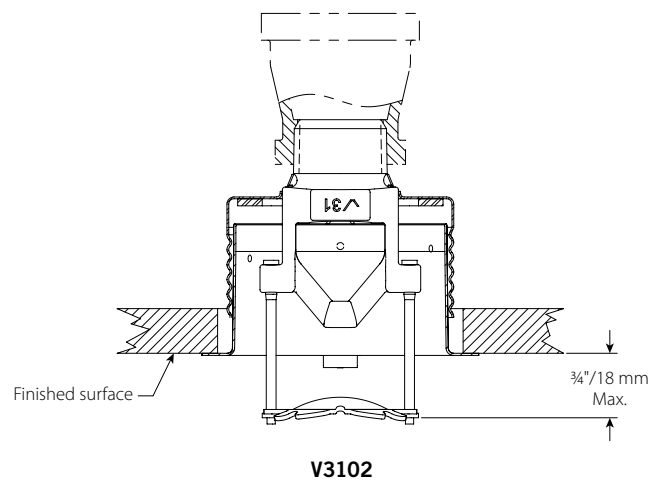
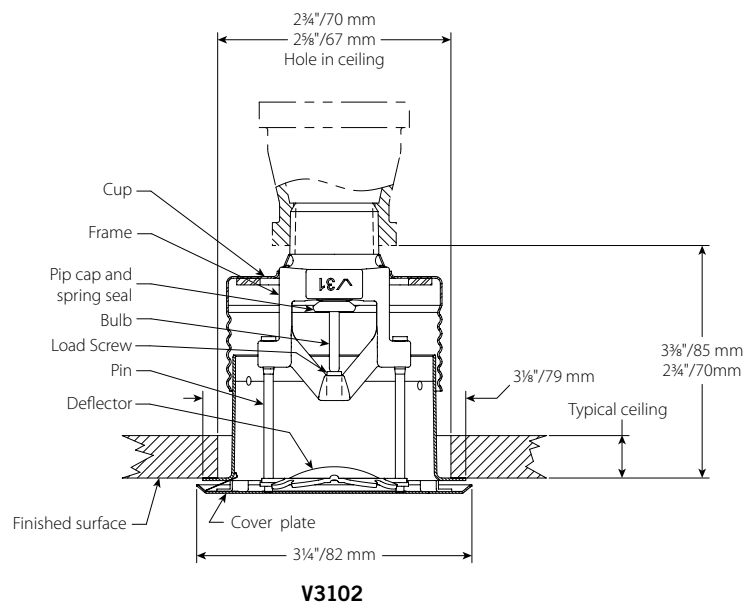
- Chrome plated
- White painted
- Flat black painted
- Custom painted

NOTE

- For cabinets and other accessories refer to separate sheet.

4.0 DIMENSIONS





5.0 PERFORMANCE

Sprinkler is to be installed and designed as per NFPA, FM Datasheets, or any local standards.

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 13, 13D, 13R, etc.) 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

Ratings: All glass bulbs are rated for temperatures from -67°F/-55°C.

- [1-40: Victaulic FireLock™ Automatic Sprinklers Installation and Maintenance Instructions](#)
- [1-V9: Style V9 Victaulic FireLock™ IGS™ Installation-Ready™ Sprinkler Coupling Installation Instructions](#)

User Responsibility for Product Selection and Suitability

Each user bears final responsibility for making a determination as to the suitability of Victaulic products for a particular end-use application, in accordance with industry standards and project specifications, as well as Victaulic performance, maintenance, safety, and warning 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, installation guide, or this disclaimer.

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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.

Installation

Reference should always be made to the Victaulic installation handbook or installation instructions of 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 www.victaulic.com.

Warranty

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

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