FireLock[®] V34, K8.0 Models V3417, V3418, V3419, V3420



Intermediate Level Standard Spray Pendent and Upright Standard and Quick Response





V3419/V3420 Intermediate Pendent V3417/V3418 Intermediate Upright with Guard

Approvals/Listings:



See Victaulic Publication 40.01 for more details.

Product Description:

These Model V34 Intermediate Level sprinklers incorporate a water shield plate to prevent water from higher level sprinklers from interfering with normal operation. These intermediate level sprinklers are designed for use in intermediate levels of rack storage or other open grate storage arrangements, where they may be exposed to upper level or ceiling level sprinklers. They are available with either standard or quick response bulbs. It is cast with a hexshaped wrench boss to allow easy tightening from many angles, reducing assembly effort. This sprinkler is available in various temperature ratings (see chart on page 3) to meet many design requirements.

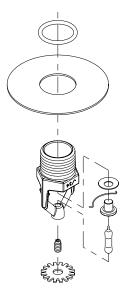
Coverage

For coverage area and sprinkler placement, refer to NFPA 13 or applicable standard.

Technical Specifications:

Models: V3417, V3418, V3419, V3420 Style: Intermediate Level Pendent or Upright Nominal Orifice Size: ¹⁷/₃₂"/14 mm K Factor: 8.0 Imp./11,5 S.I.¹ Nominal Thread Size: ³/₄" NPT/20 mm Max. Working Pressure: 175 psi/1200 kPa Factory Hydrostatic Test: 100% @ 500 psi/3450 kPa Min. Operating Pressure: 7 psi/48 kPa Temperature Rating: See chart

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



Exaggerated for clarity

Job/Owner

System No.	
Location	
_	

Contractor

Submitted By	
Date	

Engineer

Spec Section	
Paragraph	
Approved	
Date	

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Material Specifications:	Accessories			
Upright Deflector: Bronze per UNS C22000	Installation Wrench:			
Pendent Deflector: Bronze per UNS C51000	Open End: V34			
Plate: Zinc-Plated Steel	Recessed: V34			
O-rings: EPDM ²				
Bulb: Glass with glycerin solution	Sprinkler Finishes:			
Bulb Nominal Diameter:	Plain Brass only			
Standard Response: 5.0 mm	Proprietary Nickel Teflon ³ coating ⁴			
Quick Response: 3.0 mm	VC-250 ⁴			
Load Screw: Bronze per UNS C65100	² O-rings are used to hold the shield in place and do not affect the orifice sea			
Pip Cap: Bronze per UNS C65100	³ Teflon is a registered trademark of Dupont Co.			
Spring: Beryllium nickel	⁴ UL Listed and FM Approved for corrosion resistance.			
Seal: Teflon ³ tape				
Frame: Die cast brass 65-30				
Lodgement Spring: Stainless steel per UNS S30200				



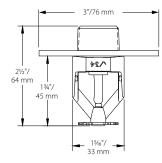
Approvals/Listings:

	Model			
APPROVALS/LISTINGS	V3417	V3419	V3418	V3420
Orifice Size (inches)	17/32″	17/32″	17/32″	17/32″
Orifice Size (mm)	14	14	14	14
Nominal K Factor Imperial	8.0	8.0	8.0	8.0
Nominal K Factor S.I. ⁵	11.5	11.5	11.5	11.5
Response	Standard	Standard	Quick	Quick
Deflector Type	Intermediate Upright	Intermediate Pendent	Intermediate Upright	Intermediate Pendent
Approved Temperature Ratings	F°/C°			
cULus	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C
FM	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C
NYC/MEA #62-99-E	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C
CSFM	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C	135°F/57°C 286°F/141°C

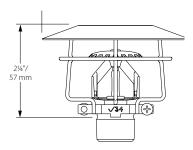
 $^{\rm 5}$ $\,$ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10. $\,$

Note: Listings and Approvals as of printing. All are approved open.

Dimensions:



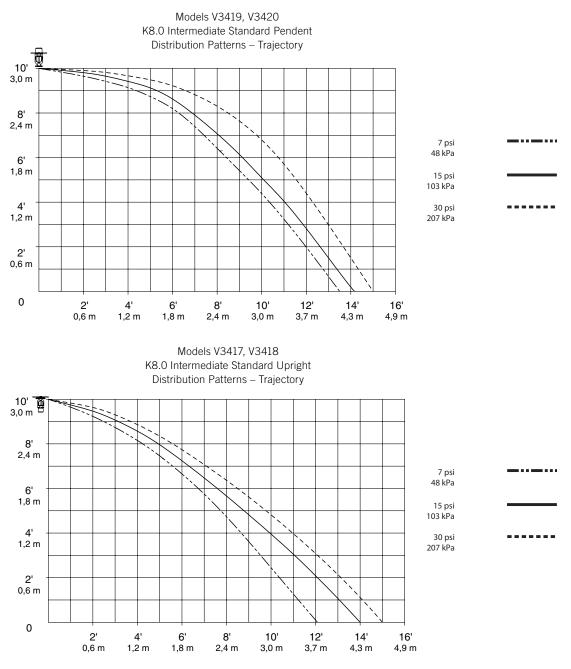
Intermediate Pendent – V3419, V3420



Intermediate Upright with Guard – V3417, V3418



Distribution Patterns:



NOTES:

A. Data shown is approximate and can vary due to differences in installation.

B. 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 or 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.

C. All patterns are symmetrical to the centerline of the waterway.



Ratings:

All glass bulbs are rated for temperatures from -65°F (-54°C) to those shown in adjacent table.

		Temperatu		
Sprinkler Temperature Classification	Victaulic Part Identification	Nominal Temperature Rating	Maximum Ambient Temperature Allowed	Glass Bulb Color
Ordinary	A	135°F/57°C	100°F/38°C	Orange
Ordinary	С	155°F/68°C	100°F/38°C	Red
Intermediate	E	175°F/79°C	150°F/65°C	Yellow
Intermediate	F	200°F/93°C	150°F/65°C	Green
High	J	286°F/141°C	225°F/107°C	Blue
Extra High ⁶	к	360°F/182°C	300°F/149°C	Purple
-	М	Open	_	No Bulb

⁶ Standard response only.

Available Wrenches:

	V34 Recessed	V34 Open End
V3417, V3418 Intermediate Upright	-	1
V3419, V3420 Intermediate Pendent	1	1

WARNING



- Always read and understand installation, care, and maintenance instructions, supplied with each box of sprinklers, before proceeding with installation of any sprinklers.
- Always wear safety glasses and foot protection.
- Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.
- Installation rules, especially those governing obstruction, must be strictly followed.



• Painting, plating, or any re-coating of sprinklers (other than that supplied by Victaulic) is not allowed.

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

The owner is responsible for maintaining the fire protection system and devices in proper operating condition. For minimum maintenance and inspection requirements, refer to the current National Fire Protection Association pamphlet that describes care and maintenance of sprinkler systems. In addition, the authority having jurisdiction may have additional maintenance, testing, and inspection requirements that must be followed.

If you need additional copies of this publication, or if you have any questions about the safe installation of this product, contact Victaulic World Headquarters: P.O. Box 31, Easton, Pennsylvania 18044-0031 USA, Telephone: 001-610-559-3300.

Installation

Reference should always be made to the I-40 Victaulic FireLock Automatic Sprinklers Installation and Maintenance Sheet for the product you are installing. This installation sheet is included with each shipment of Victaulic products for complete installation and assembly data, and is 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.

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

Victaulic is a registered trademark of Victaulic Company.

