FireLock® V34, K8.0 Models V3401, V3402, V3405, V3406



Standard Spray Upright, Pendent and Recessed Pendent Standard and Quick Response







V3405/V3406 Recessed Pendent

V3405/V3406 Pendent

V3401/V3402 Upright

Approvals/Listings:











See Victaulic Publication 10.01 for more details.

Product Description:

These Model V34 standard spray sprinklers are designed to provide a large discharge capacity in a hemispherical pattern for use in commercial applications. It is cast with a hex-shaped 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) and finishes to meet many design requirements. The recessed pendent may be utilized with a Model V34 recessed escutcheon which provides up to 3/4"/19 mm of adjustments.

Coverage

For coverage area and sprinkler placement, refer to NFPA 13 standards.

Note: Upright models V3401 and V3402 not VNIIPO approved

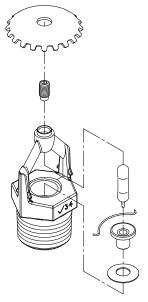
Job/Owner

System No.	
Location	
Contractor	
Submitted By	
Date	

Engineer

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Spec Section	
Paragraph	
Approved	
Date	





Exaggerated for clarity

Technical Specifications:

Models: V3401, V3402, V3405, V3406

Style: Pendent, Upright or Recessed Pendent

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

Material Specifications:

Upright Deflector: Bronze per UNS C22000 Pendent Deflector: Bronze per UNS C51000

Bulb: Glass with glycerin solution

Bulb Nominal Diameter:

Standard: 5.0 mm

Quick Response: 3.0 mm

Load Screw: Bronze per UNS C65100

Pip Cap: Bronze per UNS C65100

Spring: Beryllium nickel

Seal: Teflon² tape

Frame: Die cast brass 65-30

Lodgement Spring: Stainless steel per UNS S30200

Accessories

Installation Wrench:

Open End: V34 Recessed: V34

Sprinkler Finishes:

Plain Brass

Chrome plated

White painted³

Flat black painted³

Custom painted³

Lead

Proprietary Nickel Teflon² coating³

VC-2504

155, 200, 286SR Only:

Wax

Wax over lead

For cabinets and other accessories refer to separate sheet.

NOTE: Weather resistant recessed escutcheons available upon request.

 $^{\rm 1}$ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

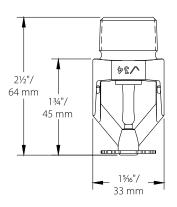
² Teflon is a registered trademakr of Dupont Co.

³ UL Listed for corrosion resistance.

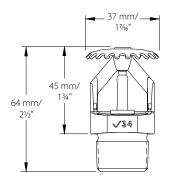
⁴ UL Listed and FM Approved for corrosion resistance



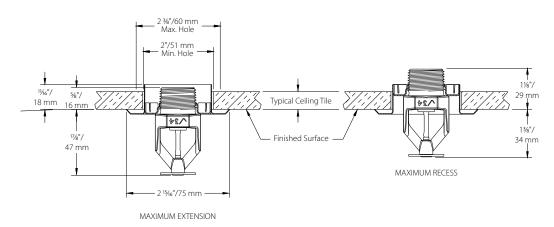
Dimensions:



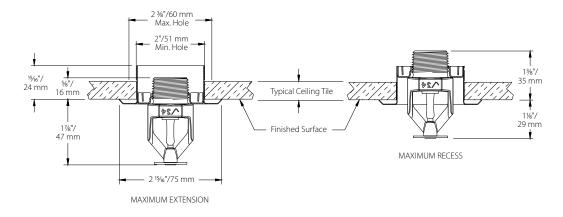
Standard Pendent – V3405, V3406



Standard Upright – V3401, V3402



½" Adjustment Recessed – V3405, V3406 (drawing not to scale)



34" Adjustment Recessed - V3405, V3406 (drawing not to scale)



Approvals/Listings:

ADDDOVALC/LICTINGS	Model						
APPROVALS/LISTINGS	V3401	V3405	V3405	V3402	V3406	V3406	V3406
Orifice Size (inches)	17/32"	17/32"	17/32"	17/32"	17/32"	17/32"	17/32"
Orifice Size (mm)	14	14	14	14	14	14	14
Nominal K Factor Imperial	8.0	8.0	8.0	8.0	8.0	8.0	8.0
Nominal K Factor S.I. ⁵	11.5	11.5	11.5	11.5	11.5	11.5	11.5
Response	Standard	Standard	Standard	Quick	Quick	Quick	Quick
Deflector Type	Upright	Pendent	Recessed Pendent	Upright	Pendent	Recessed Pendent	Recessed Pendent
Adjustment						up to ½"	up to ¾"
Approved Temperature Ratings F°/C° 6			Mo	del			
cULus	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	35°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 175°F/79°C 200°F/93°C	135°F/57°C 175°F/79°C 200°F/93°C
FM	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 175°F/79°C 200°F/93°C	None
NYC/MEA # 62-99-E	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 175°F/79°C 200°F/93°C	135°F/57°C 175°F/79°C 200°F/93°C
CSFM # 7690-0531:112	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 175°F/79°C 200°F/93°C	135°F/57°C 175°F/79°C 200°F/93°C
VNIIPO ⁷	None	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C	None	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	135°F/57°C 175°F/79°C 200°F/93°C	None

 $^{^{\}rm 5}~$ For K Factor when pressure is measured in Bar, multiply S.I. units by 10.0 $\,$



⁶ Listings and Approvals as of printing. All are approved open, except for areas designated "No".

⁷ The density at $S = 12m^2$, H = 2.5 m, shall be a minimum of: 0, 014 dm³ / m.s at P = 0.1 MPa; 0.02 dm³ / m.s at P = 0.3 MPa

Ratings:

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

		Temperati	ure – °F/°C		
Sprinkler Temperature Classification	Victaulic Part Identification	Nominal Temperature Rating	Maximum Ambient Temperature Allowed	Glass Bulb Color	
Ordinary	А	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 ⁹ /107°C	Blue	
Extra High ⁸	К	360°F/182°C	300°F/149°C	Mauve	
_ 8	М	Open	-	No Bulb	

⁸ Standard response only.

Available Wrenches:

	V34 Recessed	V34 Open End
V3401, V402 Upright	✓	✓
V3405, V3406 Pendent	1	1
V3405, V3406 Recessed Pendent	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
- 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.

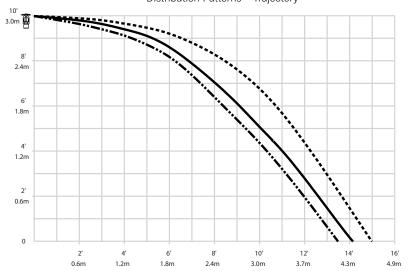


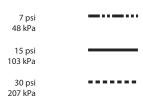
All are approved open, except for areas designated "No."

^{9 150°}F/65°C if wax coated.

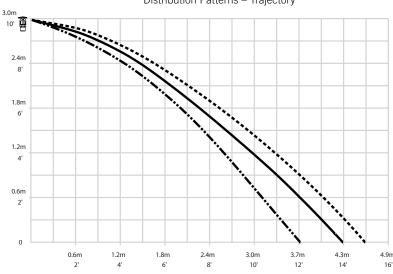
Distribution Patterns:

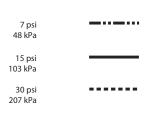
Models V3405, V3406 K8.0 Standard Pendent and Recessed Pendent Distribution Patterns - Trajectory





Models V3401, V3402 K8.0 Standard Upright Distribution Patterns - Trajectory





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.

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.

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

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.

