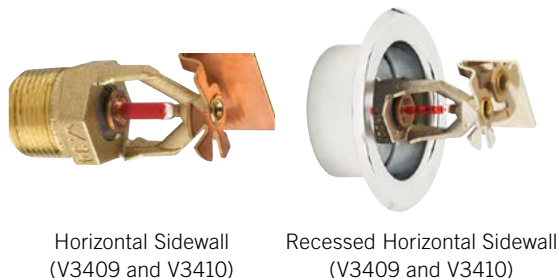


FireLock® V34, K8.0

Models V3409, V3410

Standard Spray – Horizontal Sidewall and Recessed Horizontal Sidewall



Horizontal Sidewall
(V3409 and V3410)

Recessed Horizontal Sidewall
(V3409 and V3410)

Approvals/Listings:



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

Product Description:

These Model V34, standard spray horizontal sidewall sprinklers are designed to produce large discharge capacity in a crescent-shaped pattern for installation along or under a beam or ceiling. 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.

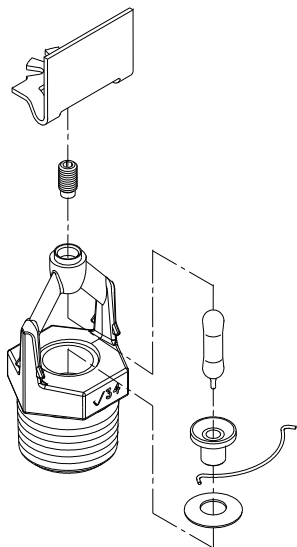
Coverage

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

Technical Specifications:

- Models:** V3409, V3410
- Style:** Horizontal Sidewall
- Nominal Orifice Size:** $1\frac{17}{32}$ "/14 mm
- K Factor:** 8.0 Imp./11.5 S.I.¹
- Nominal Thread Size:** $\frac{3}{4}$ "/20 mm NPT
- 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	

Material Specifications:

Horizontal Deflector: Bronze per UNS C22000

Bulb: Glass with glycerin solution

Bulb Nominal Diameter:

Standard Response: 5.0 mm

Quick Response: 3.0 mm

Load Screw: Bronze per UNS C65100

Pip Cap: Bronze per UNS C65100

Seal: Teflon² tape

Spring: Beryllium nickel

Frame: Die cast brass 65-30

Lodgement Spring: Stainless steel per UNS S30200

Accessories

Installation Wrench:

Open End: V34

Recessed: V34

Finishes:

Plain Brass

Chrome plated

White painted³

Flat black painted³

Custom painted³

Proprietary Nickel Teflon² coating³

VC-250⁴

155, 200, 286SR Only:

Wax³

For cabinets and other accessories refer to separate sheet.

NOTE: Weather resistant escutcheons available upon request.

² Teflon is a registered trademark of Dupont Co.

³ UL Listed for corrosion resistance.

⁴ UL Listed and FM Approved for corrosion resistance

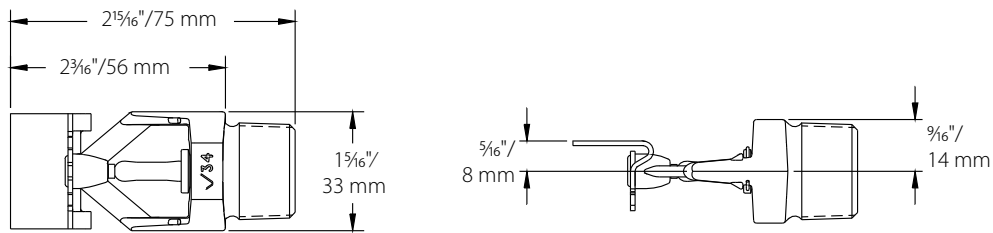
Approvals/Listings:

APPROVALS/LISTINGS	Model			
	V3409	V3409	V3410	V3410
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	Horizontal Sidewall	Recessed HSW Up to 3/4" Adjustment	Horizontal Sidewall	Recessed HSW Up to 3/4" Adjustment
Approved Temperature Ratings	F°/C°			
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	135°F/57°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 175°F/79°C 200°F/93°C
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 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 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 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 175°F/79°C 200°F/93°C

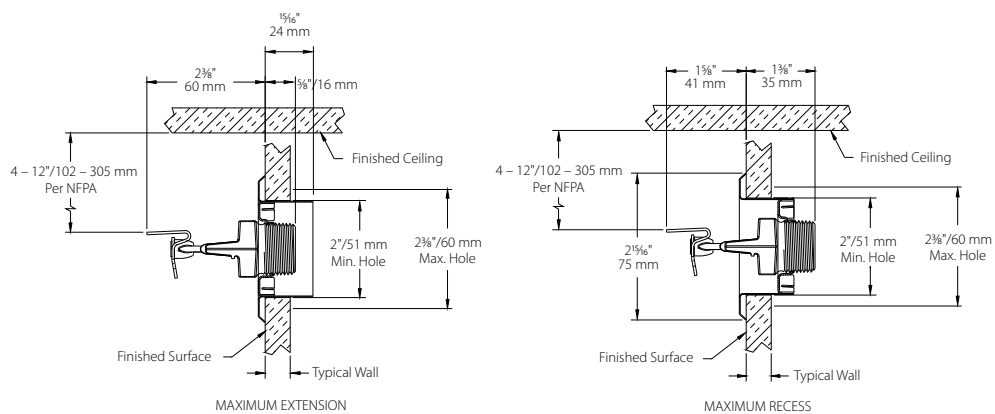
⁵ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.

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

Dimensions:

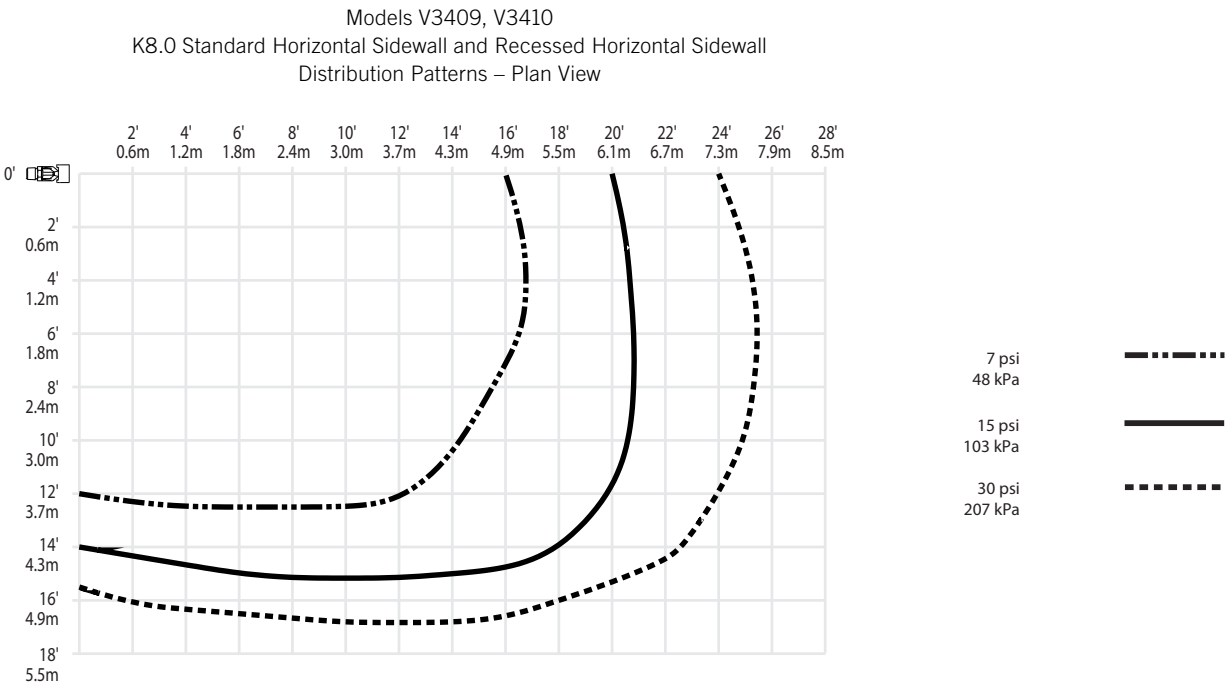
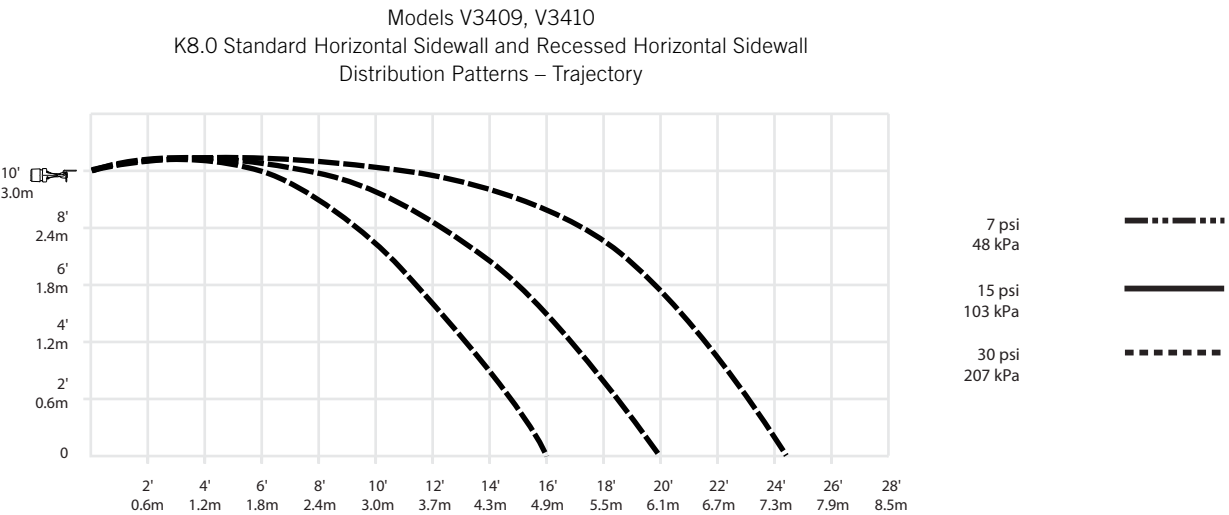


Standard Horizontal Sidewall – V3409, V3410



3/4" Adjustment Recessed – V3409, V3410 (drawing not to scale)

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 -67°F (-55°C) to those shown in the table below.

Sprinkler Temperature Classification	Victaulic Part Identification	Temperature – °F/°C		Glass Bulb Color
		Nominal Temperature Rating	Maximum Ambient Temperature Allowed	
Ordinary	A	135°F/57°C	100°F/38°C	Orange
Ordinary	C	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 ⁷ /107°C	Blue
Extra High ⁶	K	360°F/182°C	300°F/149°C	Mauve
–	M	Open	–	No Bulb

⁶ Standard response only.

All are approved open, except for areas designated “No.”

⁷ 150/65 if wax coated.

Available Wrenches:

	V34 Recessed	V34 Open End
No escutcheon	3	3
With escutcheon	3	–

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 and FireLock® are registered trademarks of Victaulic Company.