

FireLock® V27, K5.6

Models V2709, V2710



V2709/V2710
Standard Horizontal Sidewall



V2709/V2710
Recessed Horizontal Sidewall



V2709/V2710
Standard Horizontal Sidewall

1.0 PRODUCT DESCRIPTION

Models: V2709, V2710

Style: Horizontal Sidewall or Recessed Horizontal Sidewall

Nominal Orifice Size: ½"/13 mm

K Factor: 5.6 Imp./8.1 S.1¹

Nominal Connection Size: ½" NPT/15 mm BSPT/IGS Grooved

Max. Working Pressure:

- 175 psi/1200 kPa (FM)
- 250 psi/1725 kPa (UL)

Factory Hydrostatic Test: 100% @ 500 psi/3450 kPa

Min. Operating Pressure:

- 7 psi/48 kPa

Temperature Rating: See chart on page 2

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.

System No.		Location	
Submitted By		Date	

Spec Section		Paragraph	
Approved		Date	

2.0 CERTIFICATION/LISTINGS



APPROVALS/LISTINGS	Model				
	V2709	V2709 Recessed	V2710	V2710 Recessed	V2710 Recessed
Orifice Size (inches)	1/2"	1/2"	1/2"	1/2"	1/2"
Orifice Size (mm)	13	13	13	13	13
Nominal K Factor Imperial	5.6	5.6	5.6	5.6	5.6
Nominal K Factor S.I. ²	8.1	8.1	8.1	8.1	8.1
Response	Standard	Standard	Quick	Quick	Quick
Deflector Type	Horizontal Sidewall	Recessed Horizontal Sidewall	Horizontal Sidewall	Recessed Horizontal Sidewall (up to 1/2" adjustment)	Recessed Horizontal Sidewall (up to 3/4" adjustment)
Approved Temperature Ratings	F°/C°				
cULus ³	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C 500°F/260°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	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C
FM ³	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	None
NYC/MEA ³ #62-99-E ⁴	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	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C
CSFM ³ #7690-0531:112 ⁴	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	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C
LPCB/CE ^{3,4} 104b/01 3,4 104b/02	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C 360°F/182°C	None	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	None	None
CCC	ZSTBS 155°F/68°C	None	None	None	None

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

³ All are approved open, except for areas designated "None."

⁴ Threaded Sprinkler options only.

NOTES

- Certifications/Listings are current as of printing. For the latest information, please consult the regulatory agency's website.
- Recessed sprinklers are not available with the IGS grooved connection.

3.0 SPECIFICATIONS – MATERIAL

Horizontal Deflector: Bronze

Bulb: Glass with glycerin solution

Bulb Nominal Diameter:

Standard: 5.0 mm

Quick Response: 3.0 mm

Load Screw: Bronze

Pip Cap: Bronze

Spring: Beryllium nickel

Seal: PTFE tape

Frame: Die cast brass

Lodgement Spring: Stainless steel

Accessories

Installation Wrench:

Open End: V27

Recessed: V27-2

$\frac{3}{16}$ Hex Bit: V9 coupling

Sprinkler Finishes:

Plain Brass

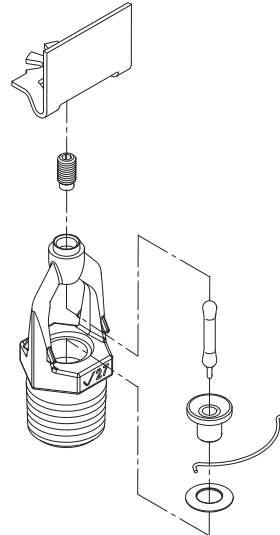
Chrome plated

White polyester coated⁵

Flat black painted⁵

Custom painted⁵

VC-250⁶



Exaggerated for clarity

For cabinets and other accessories refer to separate sheet.

NOTE: Weather resistant recessed escutcheon available upon request.

⁵ UL Listed for corrosion resistance.

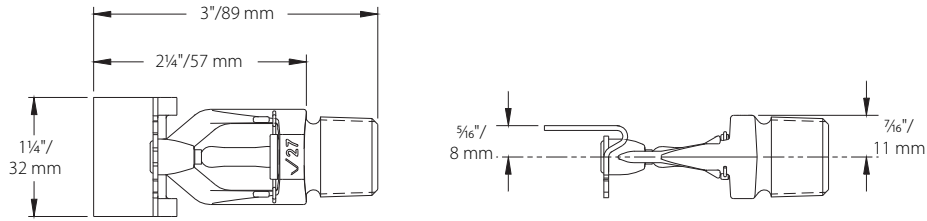
⁶ UL Listed and FM Approved for corrosion resistance.

NOTE

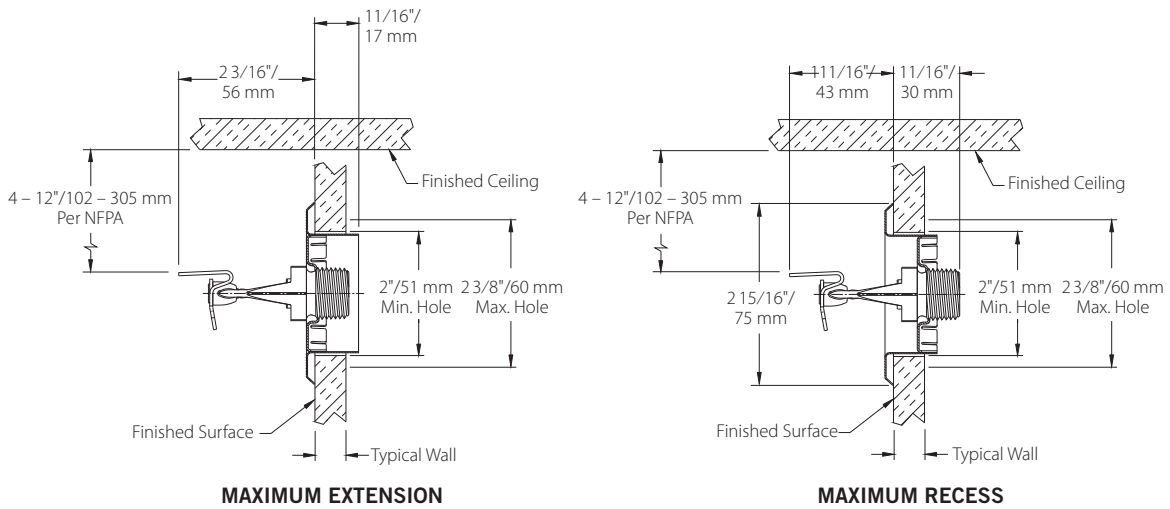
- IGS Grooved sprinklers are only available with Plain Brass finish.

4.0 DIMENSIONS

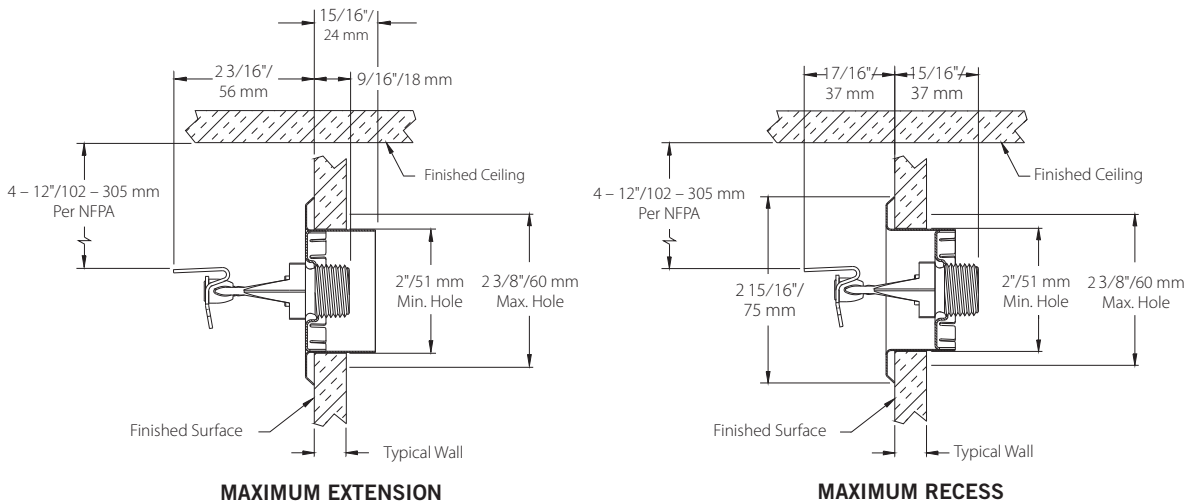
Models V2709, V2710



Standard HSW – V2709, V2710



1/2" Adjustment Recessed – V2709, V2710 (drawing not to scale)



3/4" Adjustment Recessed – V2709, V2710 (drawing not to scale)

NOTE




- V27, K5.6 sprinklers with Style V9 coupling dimensions are the same as threaded sprinkler dimensions.

5.0 PERFORMANCE

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

6.0 NOTIFICATIONS

⚠ 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.

7.0 REFERENCE MATERIALS

Sprinkler Temperature Classification	Victaulic Part Identification	Temperature – °F/°C		Glass Bulb Color
		Nominal Temperature Rating	Max. Ambient Temperature Allowed	
Ordinary	A	135°F/57°C	100°F/38°C	Orange
Ordinary	C	155°F ⁷ /68°C	100°F/38°C	Red
Intermediate	E	175°F/79°C	150°F/65°C	Yellow
Intermediate	F	200°F ⁸ /93°C	150°F/65°C	Green
High	J	286°F/141°C	225°F/107°C	Blue
Extra High	K	360°F/182°C	300°F/149°C	Mauve
–	M	Open	–	No Bulb
Ultra High ⁷	N	500°F/260°C	475°F/246°C	Black

⁷ Standard response only.

[29.01: Victaulic Terms and Conditions of Sales](#)

[I-40: FireLock™ Automatic Sprinklers Installation Manual](#)

Available Wrenches

	V27-2 Recessed	V27 Open End	3/16" Hex Bit
V2709/V2710 Threaded	✓	✓	–
V2709/V2710 Grooved	–	–	✓

NOTE

• 3/16" hex bit provided with V9 coupling shipment.

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, and the applicable building codes and related regulations 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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