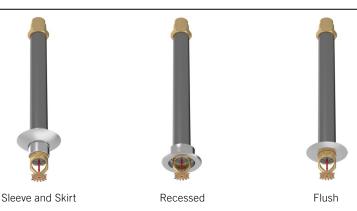
FireLock® V40, K11.2 Model V4001, V4002

Dry Type Pendent – Standard and Quick Response





1.0 PRODUCT DESCRIPTION

Style: Pendent

Escutcheon Styles: Recessed, flush, sleeve and skirt

Nominal Orifice Size: ¾"/20 mm

Nominal Connection Size: 1" NPT/25 mm BSPT, 1"/DN25 FireLock™ IGS™ (IGS joining method for the dry sprinkler is

for wet systems or when the dry systems branchlines and inlets are maintained at 40°F or above)

K-Factor: 11.2/16.1 S.I.

Maximum Working Pressure: Up to 175 psi/1200 kPa/12 bar **Factory Hydrostatic Test:** 100% @ 500 psi/3450 kPa/34 bar

Temperature Rating: See "Approved Temperature Ratings F°/C°" table in section 2.0

Codes and Requirements: For coverage area and sprinkler placement, refer to NFPA 13, or any applicable local

requirements

2.0 CERTIFICATION/LISTINGS



	Model			
APPROVALS/LISTINGS	V4001	V4002		
Orifice Size (inches)	3/4	3/4		
Orifice Size (mm)	20	20		
Nominal K Factor Imperial	11.2	11.2		
Nominal K Factor S.I. ¹	16.1	16.1		
Response	Standard	Quick		
Deflector Type	Pendent	Pendent		
Approved Temperature Ratings F°/C°				
	155/68	155/68		
cULus	200/93	200/93		
	286/141	286/141		

 $^{^{\, 1}}$ $\,$ For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.

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

	T	I	1			
System No.		Location		Spec Section	Paragraph	
Submitted By		Date		Approved	Date	





3.0 SPECIFICATIONS - MATERIAL

Frame: Brass

Deflector: Brass

Bulb: Glass with glycerin solution

Bulb Nominal Diameter:

Quick Response: 3.0mm Standard Response: 5.0mm

Load Screw: Brass
Pip Cap: Stainless steel

Split Spacers: Stainless steel **Bushing:** Stainless steel

Barrel: Carbon steel, zinc-plated

Inlet fitting: Brass

Spring Seal Assembly: Teflon² tape coated beryllium nickel and stainless steel

Sprinkler Finishes

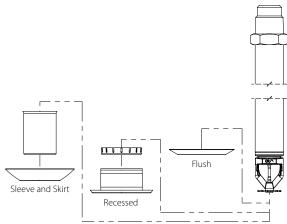
White (White Escutcheons) VC-250 (Stainless Escutcheons) Chrome (Chrome Escutcheons)

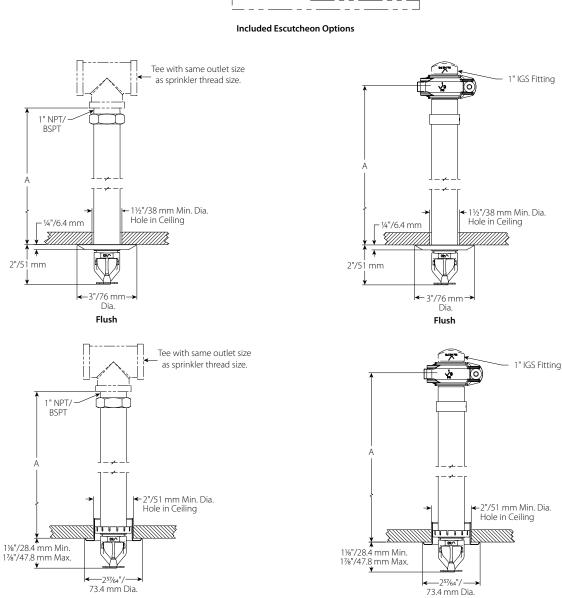
² Teflon is a registered trademark of Dupont Co.



4.0 DIMENSIONS

Model V4001, V4002



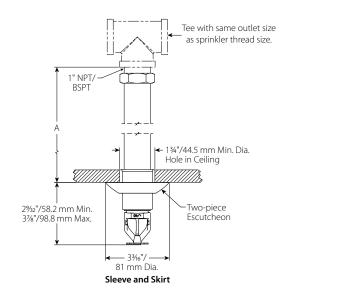


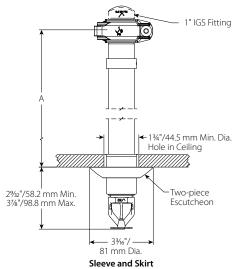
Recessed

Recessed

4.0 DIMENSIONS (CONTINUED)

Model V4001, V4002





	Dry Sprinkler Take Out Dimensions "A" inches mm					
Length	Flu	ısh	Recessed		Sleeve & Skirt	
inches DN	1"NPT/1"BSPT	1" IGS Groove	1"NPT/1"BSPT	1" IGS Groove	1"NPT/1"BSPT	1" IGS Groove
12	12	13.14	12.5	13.64	10.89	12.03
DN300	304.8	333.8	317.5	364.4	276.6	305.6
18	18	19.14	18.5	19.64	16.89	18.03
DN450	457.2	486.1	469.9	498.8	429.0	458.0
24	24	25.14	24.5	25.64	22.89	24.03
DN600	609.6	613.2	622.3	651.3	581.4	610.4
30	30	31.14	30.5	31.64	28.89	30.03
DN750	762.0	791.0	774.7	803.7	733.8	762.8
36	36	37.14	36.5	37.64	34.89	36.03
DN900	914.4	943.4	927.1	956.1	866.2	915.2

NOTE

- IGS "A" dimensions are measured to the end of the pipe.
- All three escutcheon options of the matching finish will be included with each sprinkler (see sprinkler finishes).



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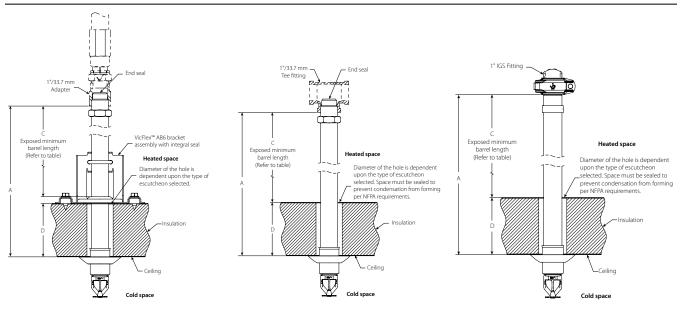
5.0 PERFORMANCE

Commodity Selection and Design Criteria Overview For Model V4001/V4002			
Description	Specification		
Sprinkler Type	CMDA		
Temperature Rating	155°F/68°C, 200°F/93°C, and 286°F/14°C		
K-Factor/S.I.	K11.2/16.1 S.I		
Sprinkler Position	Pendent		
System Type	Reference NFPA 13		
Maximum Area of Coverage	Reference NFPA 13		
Minimum Area of Coverage	Reference NFPA 13		
Maximum Slope Ceiling	Reference NFPA 13		
Maximum Spacing	Reference NFPA 13		
Minimum Spacing	Reference NFPA 13		
Deflector Distance from Walls	Reference NFPA 13		
Deflector to Top of Storage	Reference NFPA 13		
Deflector to Ceiling Distance	Reference NFPA 13		
Maximum Ceiling Height	Reference NFPA 13		
Maximum Storage Height	Reference NFPA 13		
Storage Arrangement	Reference NFPA 13		
Commodity	Reference NFPA 13		
Sprinkler System Design	Reference NFPA 13		
Obstruction Criteria	Reference NFPA 13		
Minimum Aisle Width	Reference NFPA 13		
Hose Stream allowance and Water Supply Duration Reference NFPA 13			



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5.0 PERFORMANCE (CONTINUED)



	Exposed Minimum Barrel Length "C"					
Ambitent Temperature Exposed to Discharge End of Sprinkler	inches mm					
°F						
°C	40°F/4°C	50°F/10°C	60°F/16°C			
40	0	0	0			
4	0	0	0			
30	0	0	0			
-1	0	0	0			
20	4	0	0			
-7	100	0	0			
10	8	1	0			
-12	200	25	0			
0	12	3	0			
-18	300	75	0			
-10	14	4	1			
-23	350	100	25			
-20	14	6	3			
-29	350	150	75			
-30	16	8	4			
-34	400	200	100			
-40	18	8	4			
-40	450	200	100			
-50	20	10	6			
-46	500	250	150			
-60	20	10	6			
-51	500	250	150			

NOTE

• The minimum required barrel length complies with NFPA 13 Standard for the Installation of Sprinkler Systems. For additional guidance please refer to the Dry Sprinkler section of NFPA 13.



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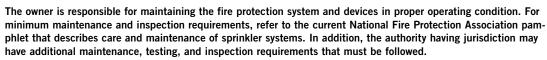
6.0 NOTIFICATIONS

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.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic 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.





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

Ratings

All glass bulbs are rated for temperatures from -67°F/-57°C up to those shown in table below.

		Temperature - °F/°C Nominal Ambient Temperature Rating Allowed		
Sprinkler Temperature Classification	Victaulic Part Identification			Glass Bulb Color
Ordinary	С	155°F/68°C	100°F/38°C	Red
Intermediate	F	200°F/93°C	150°F/65°C	Green
High	J	286°F/141°C	225°F/107°C	Blue

Available Wrenches:

Sprinkler Type	V34 Open End	V34 Recessed	
Pendent	1	1	

10.65: Victaulic® FireLock™ IGS Installation-Ready Style V9 Sprinkler Coupling

40.80: FireLock® Automatic Sprinkler Wrenches

I-40: Victaulic FireLock Automatic Sprinklers Installation and Maintenance Guide

I-V9: Style V9 Victaulic® FireLock™ IGS™ Installation-Ready™ Sprinkler Coupling

I-VICFLEX-AB6: Bracket Assembly for Wet Systems Only

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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