### 40.18

PENDEN1 (V2727 (G4020047, Nr1266/2002) AND V2728

(G4020044, Nr1265/2002))

#### CE LPCB 107 VdS SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

Standard Spray/Pendent, Upright and Recessed Pendent

### MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE

These Model V27 standard spray and conventional spray sprinklers are designed to produce a hemispherical spray pattern for standard commercial applications. They are available with either standard or quick response bulbs. The Model V27 conventional sprinkler is designed to produce a hemispherical pattern which deflects approximately half of the spray upwards toward the ceiling and the other half downwards and can be installed in either the upright or pendent position. The design incorporates a state-of-the-art, heat responsive, frangible glass bulb design (standard or quick response) for prompt, precise operation.

The die cast frame is more streamlined and attractive than traditional sand cast frames. 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 2) and finishes to meet many design requirements.

#### Sprinkler Operation

V27, K80

The operating mechanism is a frangible glass bulb which contains a heat responsive liquid. During a fire, the ambient temperature rises causing the liquid in the bulb to expand. When the ambient temperature reaches the rated temperature of the sprinkler, the bulb shatters. As a result, the waterway is cleared of all sealing parts and water is discharged towards the deflector. The deflector is designed to distribute the water in a pattern that is most effective in controlling the fire.

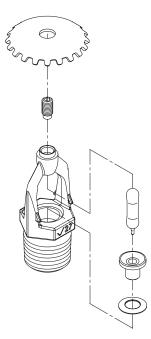
### Coverage

For coverage area and sprinkler placement, refer to applicable installation standards.

† UL, ULC Listed

‡ UL, ULC Listed; FM Approved

#### **TECHNICAL SPECIFICATIONS**



Exaggerated for clarity

#### Models: V2703, V2704, V2725, V2726, V2727, V2728

Style: Pendent, Upright or Conventional Nominal K-Factor: 80S.I. (Bar)/5.6Imp. Nominal Thread Size: 15mm BSP or 1/2" NPT Max. Working Pressure: 12.5 Bar/175 psi Factory Hydrostatic Test:

100% @ 34.5 Bar/500 psi Min. Operating Pressure: .5 Bar/7 psi Temperature Ratings: See chart on page 2

#### MATERIAL SPECIFICATIONS

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

Bulb: Glass with glycerin solution. **Bulb Nominal Diameter:** 

- Standard: 5.0 mm
- . Quick Response: 3.0mm

Load Screw: Bronze per UNS C65100

Pip Cap: Bronze per UNS C65100 Seal: Teflon\* tape

Spring: Beryllium nickel

Frame: Die cast brass 65-30

Lodgement Spring:

Stainless steel per UNS S30200

### JOB/OWNER

System No. Location \_\_\_\_

### CONTRACTOR

Submitted By \_\_\_\_

Date \_

### ENGINEER

Spec Sect \_\_\_\_ Para

Approved \_\_\_\_

Date \_\_\_



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#### ACCESSORIES Installation Wrench:

CONVENTIONAL

(V2725† (G4020048, Nr1264/2002) AND V2726†

(G4020045, Nr1263/2002))

- Open End: V27
- Recessed: V38-3 .

UPRIGHT

(V2703‡ (G4020046, Nr1268/2002) AND V2704‡ (G4020043, Nr1267/2002))

#### Sprinkler Finishes:

- Plain brass
  - Chrome plated
  - White painted<sup>†</sup>
- RAL 9001 Off-white†
- Custom painted
- Nickel/Teflon\* coated†

For cabinets and other accessories refer to separate sheet.

- ^ For K-Factor when pressure is measured in kPa, divide K-Factor in (S.I.) Bar units by 10.0.
- \* Teflon is a registered trademark of Dupont Co. \*\* These finishes are UL Listed for corrosion resistance.



Standard Spray/Pendent, Upright and Recessed Pendent

MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE

### APPROVALS/LISTINGS

Model	Orifice Size	Nominal K-Factor	Response	Deflector Type	Approved Temperature Ratings ‡ @
	Inches mm	Imperial S.I.^	Standard or Quick		
V2703	13 1⁄2	80 5.6	Standard	Upright	2, 3, 4, 5, 6 – A 1 – B
V2727	13 1⁄2	80 5.6	Standard	Pendent	2, 3, 4, 5, 6 – D 1 – B
V2725	13 1⁄2	80 5.6	Standard	Conventional	2, 4, 5, 6 – A 1 – B, 3 – D
V2704	13 1⁄2	80 5.6	Quick	Upright	1, 2, 3, 4, 5, 6 – B
V2728	13 1⁄2	80 5.6	Quick	Pendent	2, 3, 4, 5, 6 – D 1 – B
V2726	13 1⁄2	80 5.6	Quick	Conventional	1, 4 – B 2, 5, 6 – C, 3 – D

‡ Listings and approval as of printing.

^ For K-Factor when pressure is measured in kPa (S.I.), divide K-Factor bar (S.I.) units by 10.0.

@ All are approved open, except quick response.

### APPROVED TEMPERATURE RATINGS

Temperature Rating
A – 57°C/135°F, 68°C/155°F, 79°C/175°F, 93°C/200°F, 141°C/286°F, 182°C/360°F
B – 57°C/135°F, 68°C/155°F, 79°C/175°F, 93°C/200°F, 141°C/286°F
C – 57°C/135°F, 68°C/155°F, 79°C/175°F, 93°C/200°F
D – No

#CE: Tested to EN12259-1 Standards

† MEA #62-99-E

§ CSFM #7690-0531:112

### RATINGS

All glass bulbs are rated for temperatures from  $-67^{\circ}$ F/ $-55^{\circ}$ C to those shown in table below.

	Victaulic	Temperature – °F/°C			
Sprinkler Temperature Classification	Part Identification	Nominal Temperature Rating	Maximum Ambient Temperature Allowed	Glass Bulb Color	
Ordinary	А	57 135	38 100	Orange	
Ordinary	С	68 155	38 100	Red	
Intermediate	E	79 175	35 150	Yellow	
Intermediate	F	93 200	35 150	Green	
High	J	141 286	107 225	Blue	
- ‡	М	Open	_	No Bulb	

‡ Standard response only.

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



Standard Spray/Pendent, Upright and Recessed Pendent

## MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE

#### ORDERING INFORMATION

Please specify the following when ordering:

Sprinkler Model Number	
Style	
Temperature Rating	
K-Factor	
Thread Size	
Quantity	
Sprinkler Finish	
Wrench Model Number	



	<ul> <li>Always read and understand installation, care and maintenance instructions, supplied with each box of sprinklers, before proceeding with installation of any sprinklers.</li> </ul>
	<ul> <li>Always wear safety glasses and foot protection.</li> </ul>
T	<ul> <li>Depressurize and drain the piping system before attempting to install, remove or adjust any Victaulic piping products.</li> </ul>
	<ul> <li>Installation rules, especially those governing obstruction, must be strictly followed.</li> </ul>
	<ul> <li>Painting, plating or any re-coating of sprinklers (other than that supplied by Victaulic) is not allowed.</li> </ul>
	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 Europe, Prijkelstraat 36, 9810 Nazareth Belgium, Phone: 32-93-811500.



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## 40.18

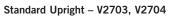
# V27, K80

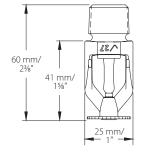
Standard Spray/Pendent, Upright and Recessed Pendent

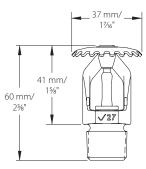
MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE

### DIMENSIONS

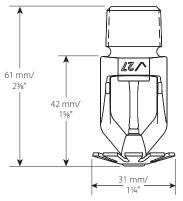
### Standard Pendent - V2727, V2728







### Conventional Pendent/Upright – V2725, V2726



#### AVAILABLE WRENCHES

Sprinkler Type	V38-3	V27 Open End
V2727, V2728 Pendent	yes	yes
V2725, V2726 Conventional Upright/Pendent	yes	yes
V2703, V2704 Upright	yes	yes

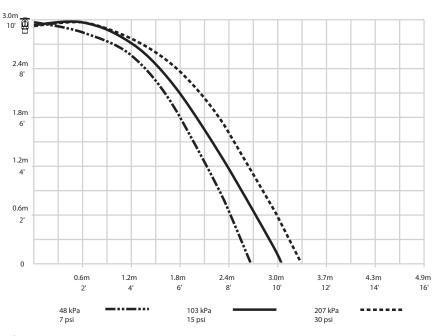


Standard Spray/Pendent, Upright and Recessed Pendent

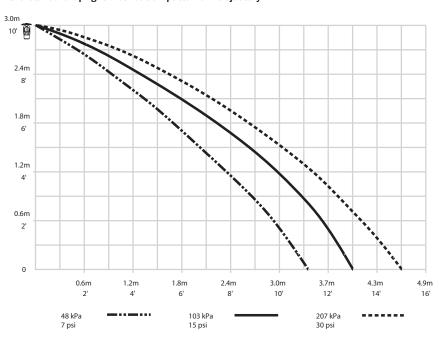
MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE

### **DISTRIBUTION PATTERNS**

Models V2727, V2728 K8.0 VdS/CE spray pendent distribution patterns – trajectory



Refer to notes on page 7.



Models V2703, V2704 K8.0 standard upright distribution patterns – trajectory

Refer to notes on page 7.



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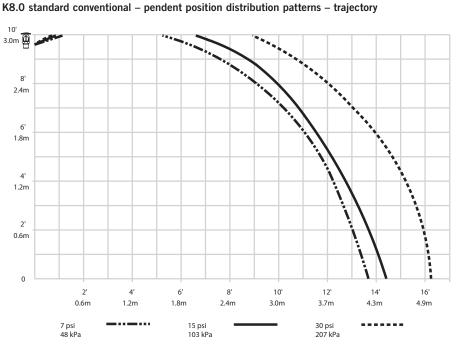
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MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE

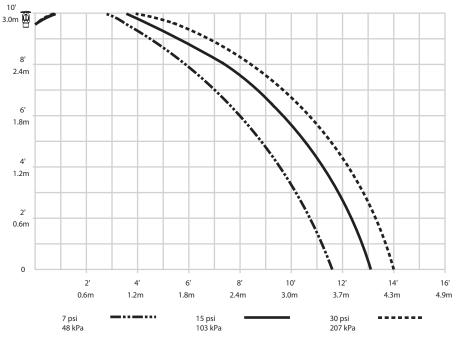
### DISTRIBUTION PATTERNS

Models V2725, V2726



Refer to notes on page 7.





Refer to notes on page 7.



Standard Spray/Pendent, Upright and Recessed Pendent

## MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE

DISTRIBUTION PATTERNS	NOTES:		
	1 Data shown is approximate and can vary due to differences in installation.		
	2 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 Fire Code and 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.		
	3 All patterns are symmetrical to the centerline of the waterway.		
。 WARRANTY	Refer to the Warranty section of the current Price List or contact Victaulic for details.		
e	•		
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.		



Standard Spray/Pendent, Upright and Recessed Pendent

MODELS V2703, V2704, V2725, V2726, V2727 AND V2728 STANDARD AND QUICK RESPONSE



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