

# V27, K5.6 300 psi/2068 kPa High Pressure

Conventional (Old Style) Sprinklers

## Models V2753 and V2754



Standard and Quick Response



V2753/V2754

### Approvals/Listings:



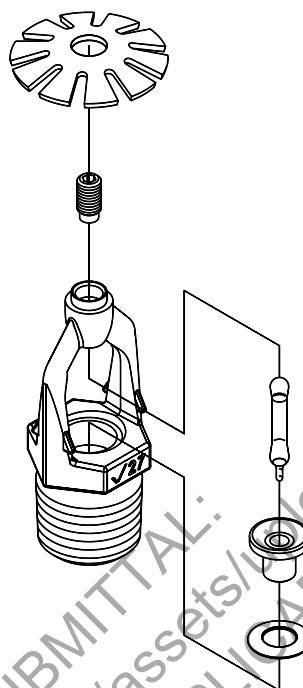
See Victaulic Publication 10.01 for more details.

This Model V27 conventional old-style 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. It is available with either standard or quick response bulbs.

This sprinkler is available in various temperature ratings (see chart on page 2) and finishes to meet many design requirements.

### Coverage

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



Exaggerated for clarity

### Technical Specifications:

**Models:** V2753, V2754

**Style:** Conventional

**Nominal Orifice Size:** 1/2"/13 mm

**K Factor:** 5.6 Imp./8.1 S.I.<sup>1</sup>

**Nominal Thread Size:** 1/2" NPT/15 mm

**Max. Working Pressure:** 300 psi/2100 kPa

**Factory Hydrostatic Test:** 100% @ 600 psi/4200 kPa

**Min. Operating Pressure:** 7 psi/49 kPa

**Temperature Rating:** See chart

### Job/Owner

|            |  |
|------------|--|
| System No. |  |
| Location   |  |

### Contractor

|              |  |
|--------------|--|
| Submitted By |  |
| Date         |  |

### Engineer

|              |  |
|--------------|--|
| Spec Section |  |
| Paragraph    |  |
| Approved     |  |
| Date         |  |



## Material Specifications:

**Deflector:** Bronze per UNS C51000

**Bulb:** Glass with glycerin solution

### Bulb Nominal Diameter:

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

**Load Screw:** Silicon Bronze per UNS C65100

**Pip Cap:** Silicon Bronze per UNS C65100

**Seal:** Teflon<sup>4</sup> tape

**Spring:** Beryllium nickel

**Frame:** Die cast brass 65-30

**Lodgement Spring:** Stainless steel per UNS S30200

## Accessories:

### Installation Wrench:

- ☐ Open End: V27, V38-3

### Sprinkler Finishes:

- ☐ Plain brass with chrome deflector
- ☐ Proprietary Nickel Teflon<sup>2</sup> coating<sup>3</sup>
- ☐ VC-250<sup>3</sup>

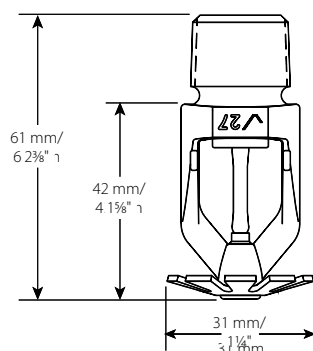
For cabinets and other accessories refer to separate sheet.

<sup>1</sup> For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

<sup>2</sup> Teflon is a registered trademark of Dupont Co.

<sup>3</sup> UL Listed for corrosion resistance.

## Dimensions:



Conventional Pendent/Upright –  
V2753, V2754

## Approvals/Listings:

| APPROVALS/LISTINGS                                | Model                                                                              |                                                                                    |
|---------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                   | V2753                                                                              | V2754                                                                              |
| Orifice Size (inches)                             | 1/2"                                                                               | 1/2"                                                                               |
| Orifice Size (mm)                                 | 13                                                                                 | 13                                                                                 |
| Nominal K Factor Imperial                         | 5.6                                                                                | 5.6                                                                                |
| Nominal K Factor S.I. <sup>5</sup>                | 8.1                                                                                | 8.1                                                                                |
| Response                                          | Standard                                                                           | Quick                                                                              |
| Deflector Type                                    | Conventional <sup>7</sup>                                                          | Conventional <sup>7</sup>                                                          |
| Approved Temperature Ratings F°/C° <sup>4 6</sup> | Model                                                                              |                                                                                    |
| cULus                                             | 135°F/57°C<br>155°F/68°C<br>175°F/79°C<br>200°F/93°C<br>286°F/141°C<br>360°F/182°C | 135°F/57°C<br>155°F/68°C<br>175°F/79°C<br>200°F/93°C<br>286°F/141°C<br>360°F/182°C |

<sup>4</sup> Listings and approval as of printing.

<sup>5</sup> For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.0.

<sup>6</sup> All are approved open, except for areas designated "No."

<sup>7</sup> Not to be used with any recessed escutcheon.

## Ratings:

All glass bulbs are rated for temperatures from -67°F (-55°C) up to those shown in adjacent table.

| 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 <sup>8</sup> /68°C   | 100°F/38°C                          | Red              |
| Intermediate                         | E                             | 175°F/79°C                 | 150°F/65°C                          | Yellow           |
| Intermediate                         | F                             | 200°F <sup>8</sup> /93°C   | 150°F/65°C                          | Green            |
| High                                 | J                             | 286°F/141°C                | 225°F/107°C                         | Blue             |
| Extra High <sup>8</sup>              | K                             | 360°F/182°C                | 300°F/149°C                         | Mauve            |
| – <sup>8</sup>                       | M,                            | Open                       | –                                   | No Bulb          |

<sup>8</sup> Standard response only.

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

## Available Wrenches:

| Sprinkler Type            | V38 or V38-3 Recessed | V27 Open End |
|---------------------------|-----------------------|--------------|
| V2753, V2754 Conventional | yes                   | yes          |

**⚠ WARNING**





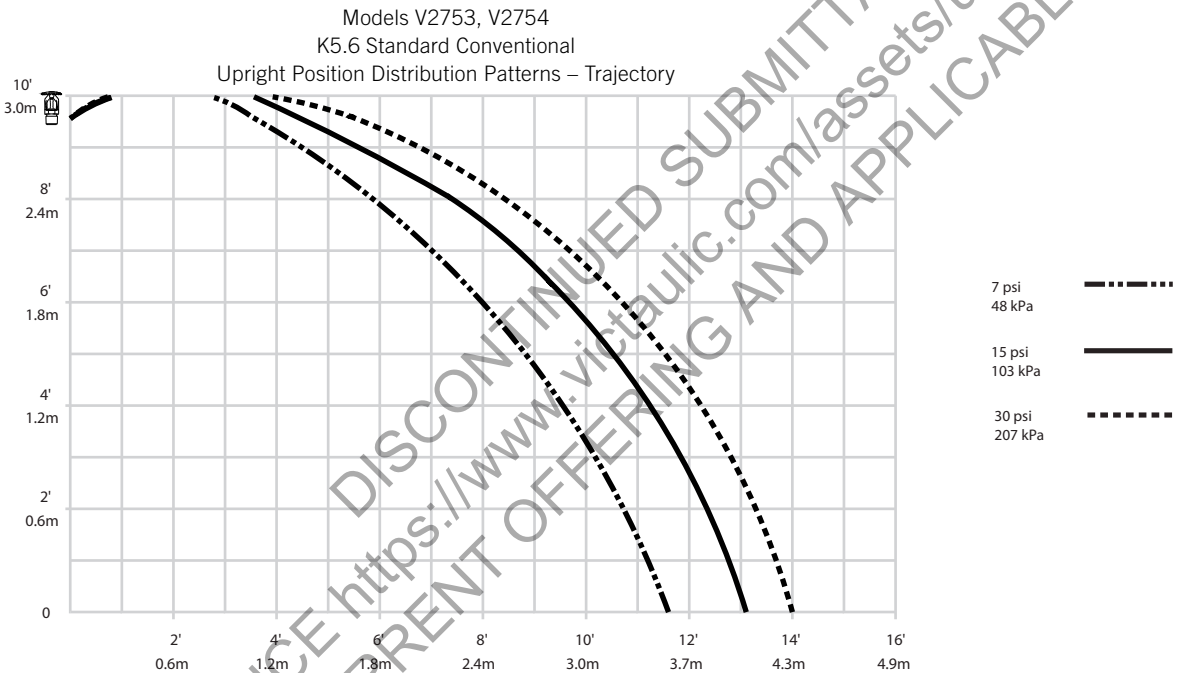
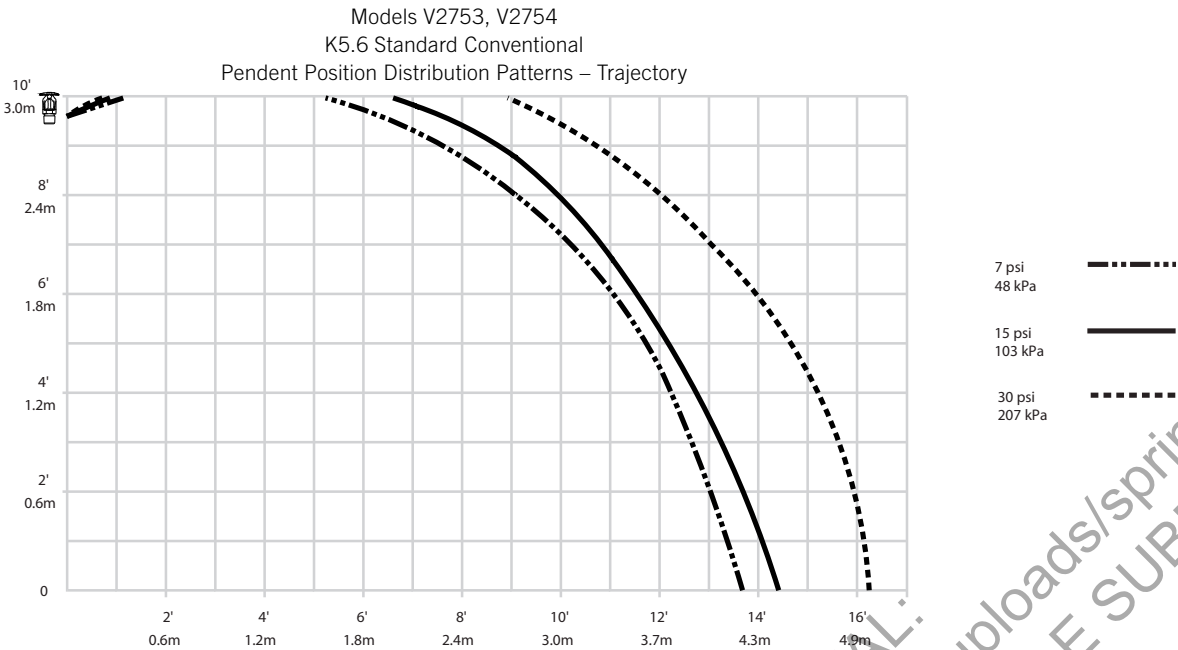
- Always read and understand installation, care, and maintenance instructions, supplied with each box of sprinklers, before proceeding with installation of any sprinklers.
- Always wear safety glasses and foot protection.
- Depressurize and drain the piping system before attempting to install, remove, 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.

**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.

**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 is a registered trademark of Victaulic Company.