

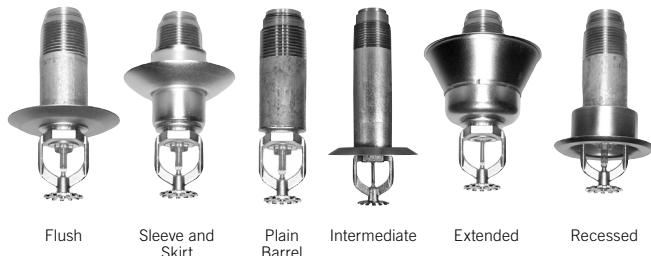
# FireLock® V36, K5.6

## Models V3605, V3606

**Victaulic®**  
40.60

### Dry Type Pendants

#### Standard and Quick Response



### Approvals/Listings:



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

### Product Description:

The Model V36 Series Dry Type Pendent and Recessed Pendent Sprinklers have been redesigned utilizing stainless steel internal components. The V36 Dry Sprinkler is used in special applications such as freezing environments and conditions where sediment or foreign materials might accumulate in ordinary drop nipples.

The Model V3606 and V3605 Intermediate Level Pendent sprinklers incorporate a water shield plate to prevent water from higher level sprinklers from interfering with normal operation. These intermediate level sprinklers are designed for use in intermediate levels of rack storage or other open grate storage arrangements, where they may be exposed to upper level or ceiling level sprinklers.

### Coverage

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

### Technical Specifications:

**Models:** V3606 and V3605

**Style:** Pendent, Recessed Pendent or Intermediate Level Pendent

**Nominal Orifice Size:**  $\frac{1}{2}$ "/13 mm

**Orifice Insert:** Stainless steel per UNS S30300

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

**Nominal Thread Size:** 1" NPT/33.7 mm

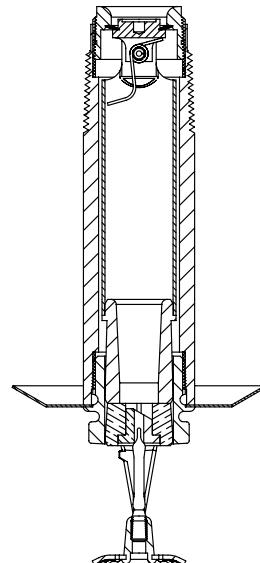
**Max. Working Pressure:** 175 psi/1200 kPa

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

**Min. Operating Pressure:** 7psi/48 kPa

**Temperature Rating:** See chart on page 3.

<sup>1</sup> 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:

**Deflector:** Brass per UNS C22000 or Stainless Steel per UNS S30400

**Bulb:** Glass with glycerin solution

#### Bulb Nominal Diameter:

Standard: 5.0 mm

Quick Response: 3.0 mm

**Split Spacer:** Stainless steel per UNS S30300

**Load Screw:** Brass per UNS C36000

**Pip Cap:** Stainless steel per UNS S30300

**Spring Seal Assembly:** Teflon<sup>2</sup> coated Beryllium nickel alloy and stainless steel per UNS S30300

**Frame:** Die cast brass

**Outer Tube:** Galvanized steel pipe

**Inner Tube:** Stainless steel per UNS S30400

**Escutcheon/Plate:** 1010 - 1018 mild steel and stainless steel

**Torsion Spring:** SST Wire

---

### Accessories

#### Installation Wrench:

Model V36 Open End and Recessed Wrenches fit all V36 Series frames.

#### Sprinkler Finishes:

Plain brass

Chrome plated

White painted<sup>3 4</sup>

Flat black painted<sup>3 4</sup>

Custom painted<sup>3 4</sup>

Proprietary Nickel Teflon<sup>2</sup> Coated<sup>4</sup>

VC-250<sup>5</sup>

#### 155, 200, 286 SR Only:

Wax<sup>4</sup>

For cabinets and other accessories refer to separate sheet.

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

<sup>3</sup> Not available on the Intermediate Level Style Pendent.

<sup>4</sup> UL Listed for corrosion resistance.

<sup>5</sup> UL Listed and FM Approved for corrosion resistance.

NOTE: Weather resistant escutcheon available upon request.

## Approvals/Listings:

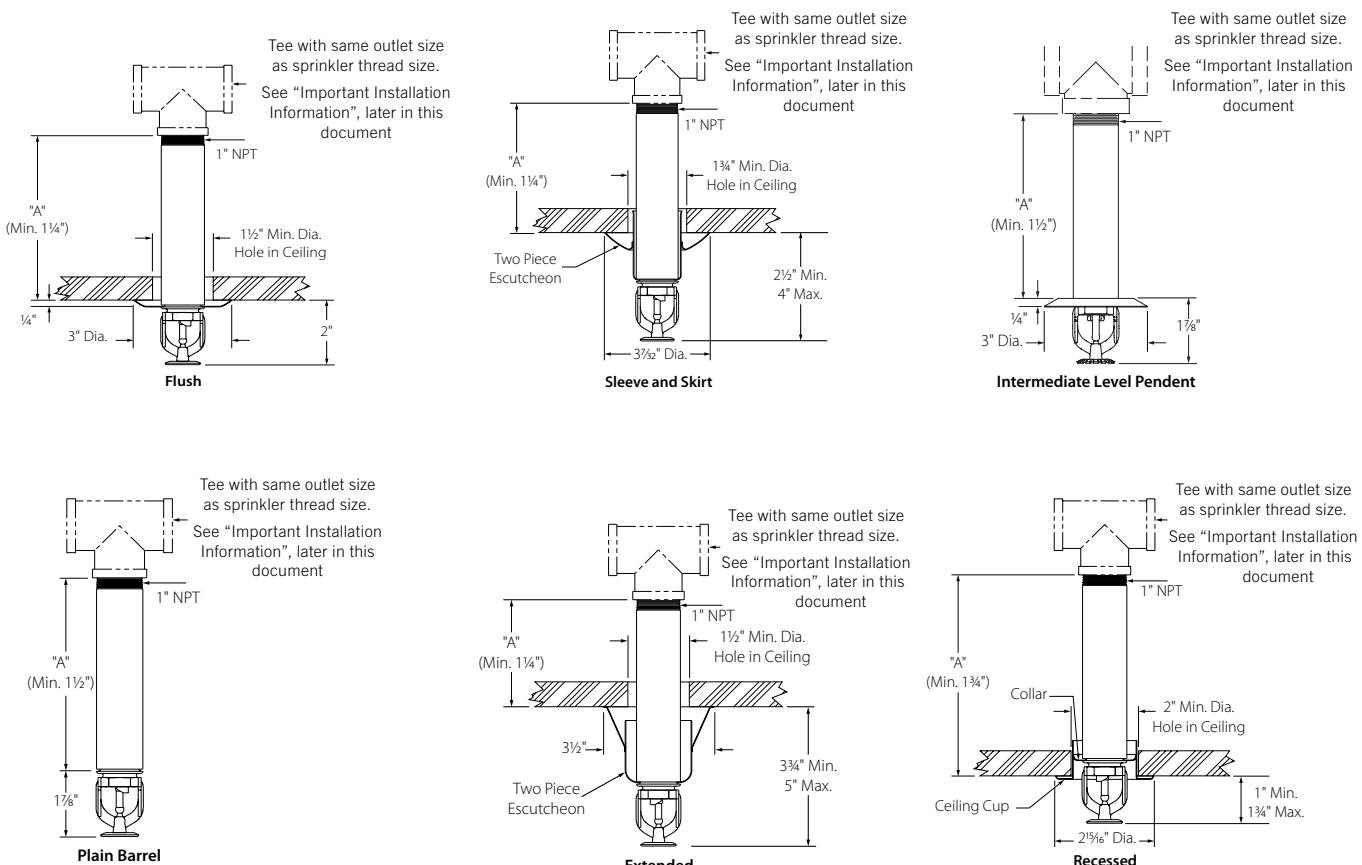
APPROVALS/LISTINGS	Model			
	V3606	V3606	V3605	V3605
Orifice Size (inches)	1/2	1/2	1/2	1/2
Orifice Size (mm)	13	13	13	13
Nominal K Factor Imperial	5.6	5.6	5.6	5.6
Nominal K Factor S.I. <sup>6</sup>	8.1	8.1	8.1	8.1
Response	Quick	Quick	Standard	Standard
Deflector Type	Pendent	Recessed Pendent	Pendent	Recessed Pendent
Approved Temperature Ratings	F°/C°			
cULus	135°F/57°C 155°F/68°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 200°F/93°C 286°F/141°C
FM	135°F/57°C 155°F/68°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 200°F/93°C 286°F/141°C	135°F/57°C 155°F/68°C 200°F/93°C

<sup>6</sup> For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.

Note: Listings and approval as of printing. Temperatures are listed for all hazards and approved for V3605 and V3606 dry sprinklers up to 48" length.

## Dimensions:

NOTE : The "A" dimension of a dry sprinkler, which extends into a freezer from a wet piping system, must take into account the wall or ceiling thickness of the freezer. See IMPORTANT INSTALLATION INFORMATION later in this document.



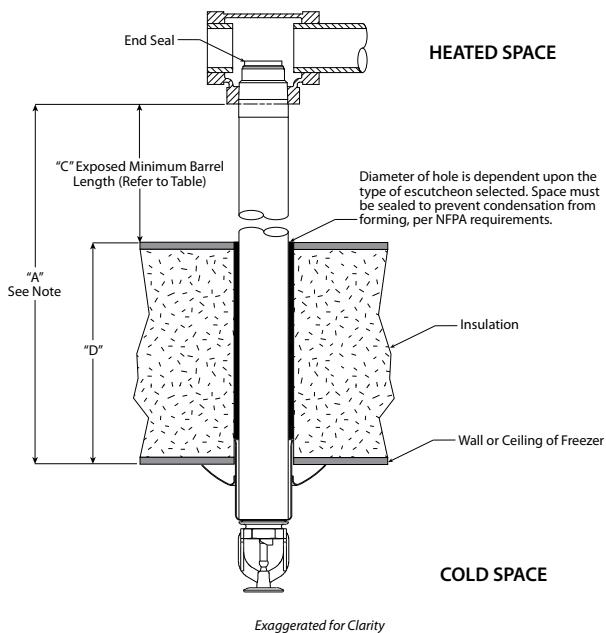
**Important Installation Information:**

**For detailed installation instructions, see publication I-40.**

No. 1 Victaulic Model V36 Series Dry sprinklers should be installed in accordance with NFPA 13. These sprinklers are to be installed using a pipe wrench applied to the outer tube. When this is not possible, the proper sprinkler wrench may be used with extreme care for lengths up to approximately 18". Excessive force may distort the frame thus destroying the unit.

No. 2 Dry sprinklers MUST be installed only into the outlet of a cast or malleable iron tee.

No. 3 DO NOT install dry sprinklers into any couplings or threaded elbows. In addition, DO NOT install dry sprinklers into any fitting that interferes with thread penetration. NOTE : The end seal of the dry sprinkler MUST NOT bottom out in the fitting.



TYPICAL SLEEVE AND SKIRT CONFIGURATION FOR EXAMPLE ONLY

NOTE :

The "A" dimension of a dry sprinkler, which extends into a freezer from a wet piping system, must take into account the wall or ceiling thickness of the freezer. The minimum length of the dry sprinkler should not be less than the lengths specified in the following table, plus the thickness of the freezer's wall or ceiling ("A" = "C" + "D").

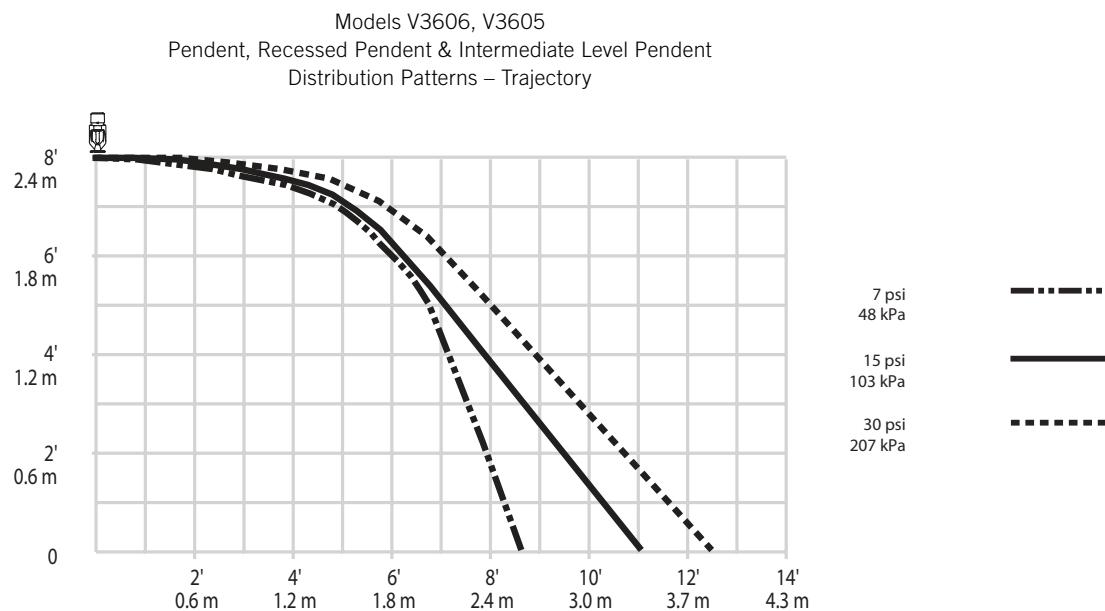
Refer to the drawing for a representation of the "A" dimension. DO NOT attempt to modify dry sprinklers, since they are manufactured to this specific "A" dimension.

The following table is used when the ambient temperature is maintained between 40° F/4° C and 60° F/16°C around the wet piping system.

Ambient Temperature Exposed to Discharge End of Sprinkler °F/°C	Exposed Minimum Barrel Length inches/mm		
	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	102	0	0
10	8	1	0
-12	203	25	0
0	12	3	0
-18	305	76	0
-10	14	4	1
-23	356	102	25
-20	14	6	3
-29	356	152	76
-30	16	8	4
-34	406	203	102
-40	18	8	4
-40	457	203	102
-50	20	10	6
-46	508	254	152
-60	20	10	6
-51	508	254	152

Note: Exposed minimum barrel lengths are inclusive up to 30-mph/48-kph wind velocities

**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.

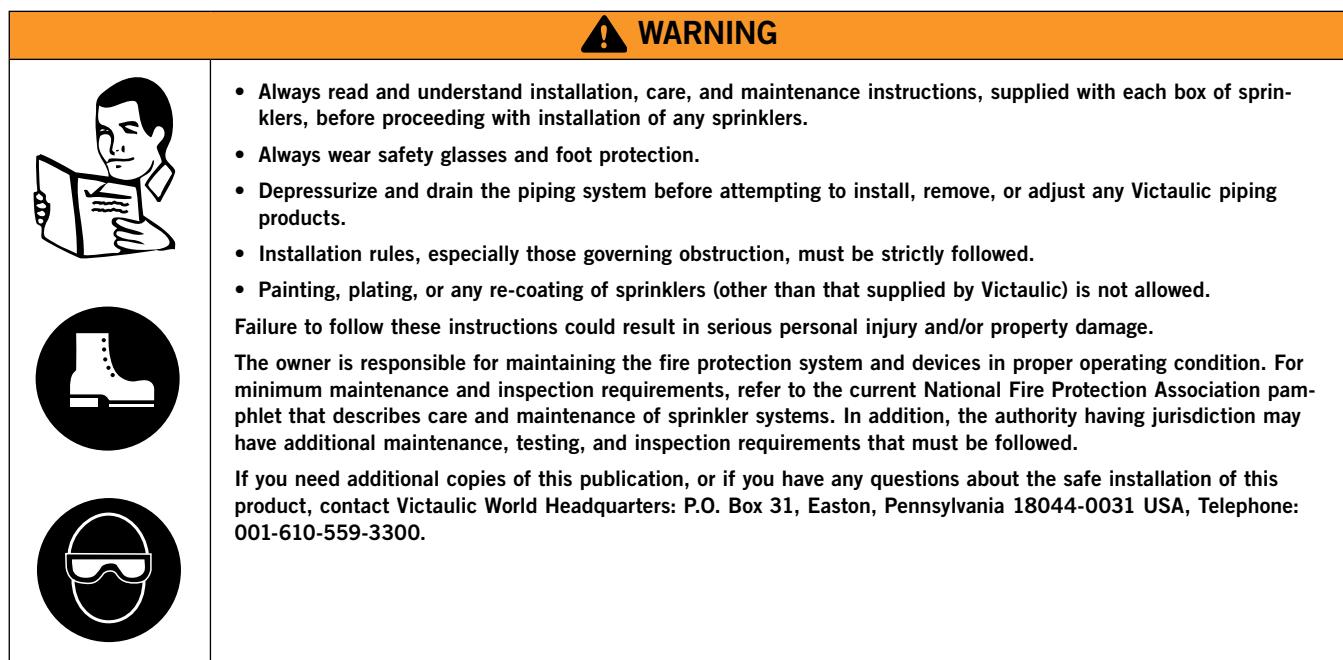
**Ratings:**

All glass bulbs are rated for temperatures from -67°F/-55°C to those shown in table below.

Sprinkler Temperature Classification	Temperature – °F/°C		Glass Bulb Color
	Nominal Temperature Rating	Maximum Ambient Temperature Allowed	
Ordinary	135°F/57°C	100°F/38°C	Orange
Ordinary	155°F/68°C	100°F/38°C	Red
Intermediate	200°F/93°C	150°F/65°C	Green
Intermediate	286°F/141°C	225°F/107°C	Blue
Extra High <sup>8</sup>	360°F/182°C	300°F/149°C	Purple
–	Open	–	No Bulb

**Available Wrenches:**

Model V36 Open End and Recessed Wrenches fit all V36 Series frames.

**Installation**

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at [www.victaulic.com](http://www.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 and standard equipment without notice and without incurring obligations.

**Trademarks**

Victaulic and Firelock® are registered trademarks of Victaulic Company.