Victaulic® FireLock™ Series FL-QR/DRY/VSW
Dry, Quick Response
Vertical Sidewall, K5.6 (8.0), K8.0 (11.5)

45.05

1.0 PRODUCT DESCRIPTION

QUICK RESPONSE VERTICAL SIDEWALL DRY SPRINKLERS		
SIN	**V5643**	**V8143**
ORIENTATION	VSW	VSW
K-FACTOR[1]	5.6 Imp./8.1 S.I.	8.0 Imp./11.5 S.I.
CONNECTION	1" NPT/25mm BSPT/1" IGS	1" NPT/25mm BSPT/1" IGS
MAX. WORKING PRESSURE	175 psi (1200 kPa)	175 psi (1200 kPa)
ESCUTCHEON	Plain/Flush/Sleeve and Skirt/Extended	
GLOBE EQUIVALENT	GL5643	GL8143

AVAILABLE WRENCHES			
SPRINKLER	**V36 Recessed**	**V36 Open End**	**3/16 Hex-Bit (V9)**
VSW	■	■	■

Factory Hydrostatic Test: 100% @ 500 psi/3447 kPa/34 bar

Min. Operating Pressure: UL: 7 psi/48 kPa/.5 bar

Temperature Rating: See tables in section 2.0

[1] For K-Factor when pressure is measured in bar, multiply S.I. units by 10.0.

2.0 CERTIFICATION/LISTINGS

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APPROVALS/LISTINGS				
SIN	**V5643**	**V5643**	**V8143**	**V8143**
Nominal K Factor Imperial	5.6	5.6	8.0	8.0
Nominal K Factor S.I.[2]	8.1	8.1	11.5	11.5
Orientation	Upright	Pendent	Upright	Pendent
Escutcheon	Plain/Flush	Plain/Flush/Slv & Skt/Ext.	Plain/Flush	Plain/Flush/Slv & Skt/Ext.
Hazard	LH		LH/OH	
	Approved Temperature Ratings F°/C°			
cULus	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 286°F/141°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 286°F/141°C

[2] For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.

NOTES

- Listings and approval as of printing.
- Certifications/Listings and approvals as of printing for lengths up to 48".

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

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3.0 SPECIFICATIONS – MATERIAL

Deflector: Brass or Stainless Steel

Bulb Nominal Diameter: 3.0mm

Split Spacer: Stainless Steel

Load Screw: Brass

Pip Cap: Stainless Steel

Spring Seal Assembly: PTFE coated Beryllium nickel alloy and stainless steel

Frame: Brass

Inlet Fitting: Brass

Outer Tube: Galvanized steel pipe

Inner Tube: Stainless Steel

Orifice Insert: Stainless Steel

Escutcheon/Plate: Stainless steel

Torsion Spring: SST wire

Installation Wrench: Ductile iron

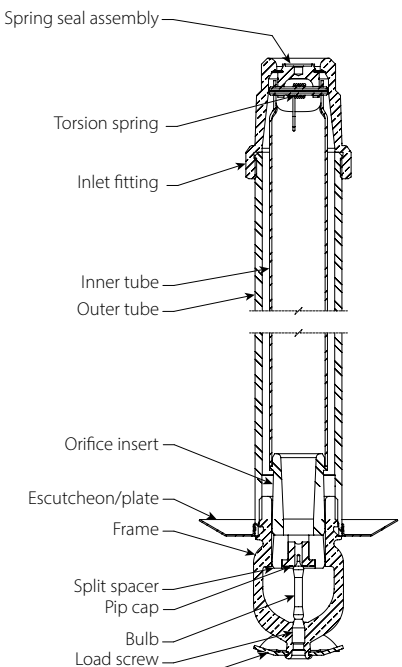
Sprinkler Frame Finishes:

- Plain brass
- Chrome plated
- White polyester painted[3]
- Bright White polyester painted[3]
- Flat black polyester painted[3]
- Custom polyester painted[3]
- VC-250[3]

[3] UL Listed for corrosion resistance.

NOTE

- Weather resistant escutcheon available upon request.
- For cabinets and other accessories refer to separate sheet.



Vertical Sidewall Material Specifications V5643, V8143

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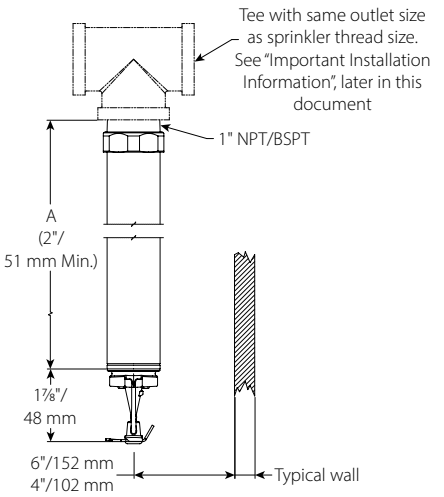
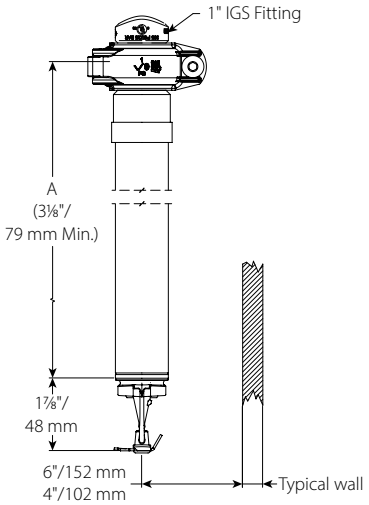
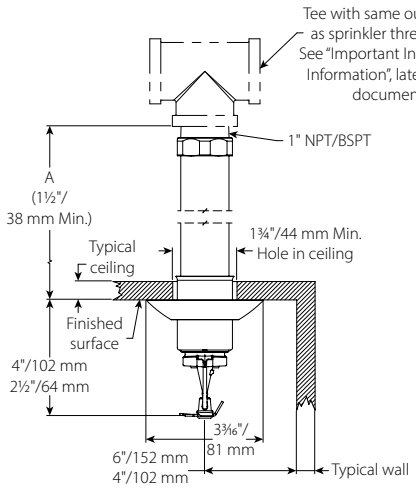
4.0 DIMENSIONS



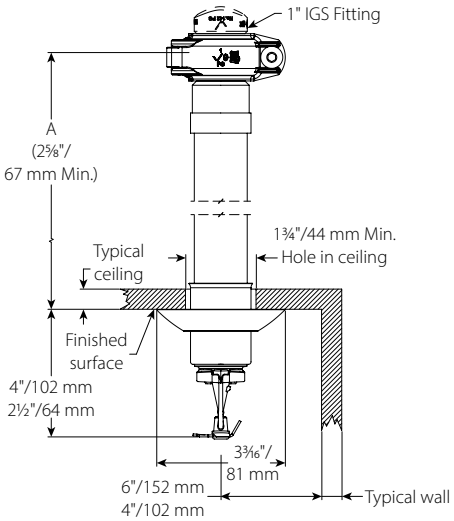
Plain Barrel, Threaded
V5643, V8143



Plain Barrel, Grooved
V5643, V8143



Sleeve and Skirt, Threaded
V5643, V8143



Sleeve and Skirt, Grooved
V5643, V8143

Standard offering includes made-on escutcheon with "A" dimension shown above. Use the "Adjustments for Optional Interchangeable Escutcheons" table when making optional field adjustments to the standard ordered escutcheon.

ADJUSTMENTS FOR OPTIONAL INTERCHANGEABLE ESCUTCHEONS	
ESCUTCHEON	**"A" DIMENSION ADJUSTMENT**
Plain Barrel	A = A
Flush	A = -¼"/6mm
Recessed	A = +¼"/6mm
Slv/Skrt	A = -1⅜"/35mm

Extended escutcheons are not available as interchangeable.

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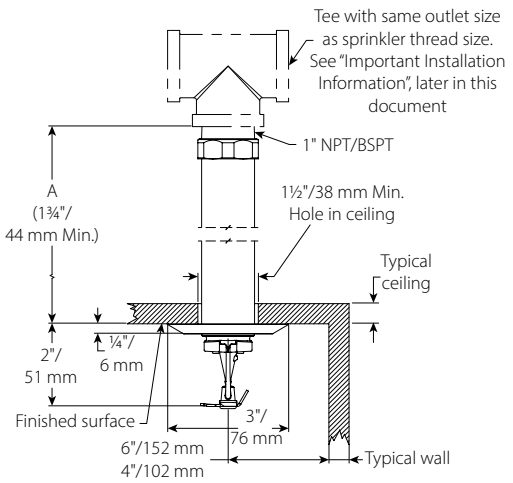
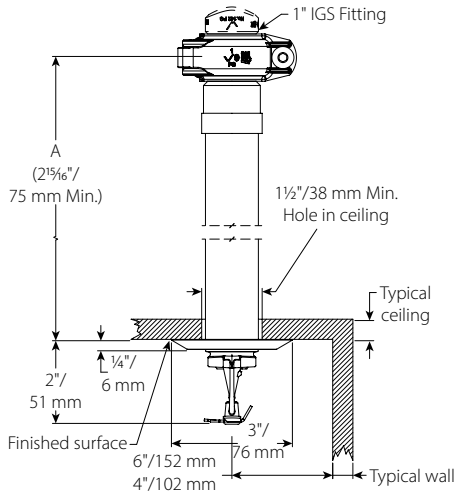
4.0 DIMENSIONS (CONTINUED)



Flush, Threaded
V5643, V8143



Flush, Grooved
V5643, V8143

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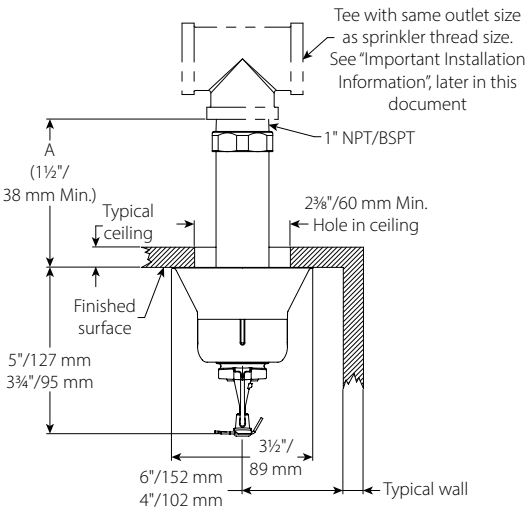
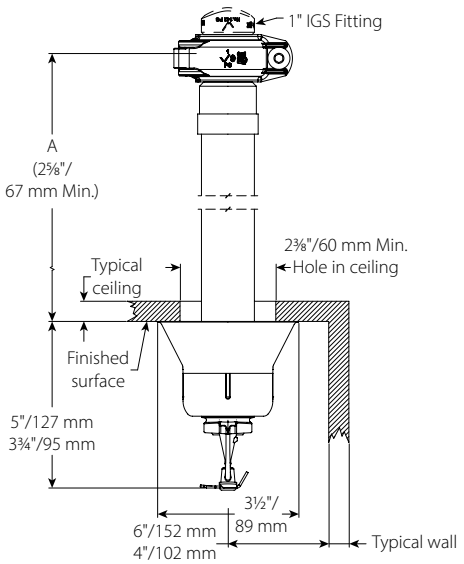


Extended Sleeve and Skirt, Threaded
V5643, V8143



Extended Sleeve and Skirt, Grooved
V5643, V8143

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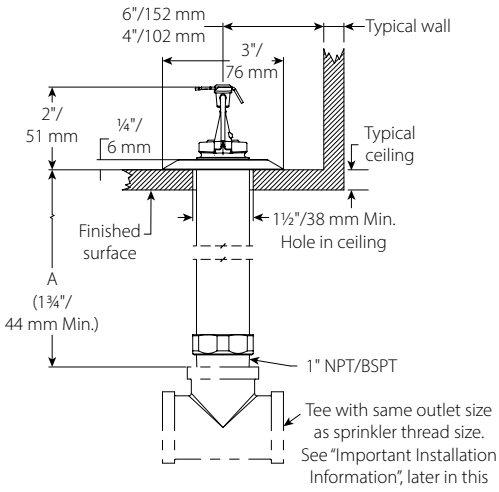
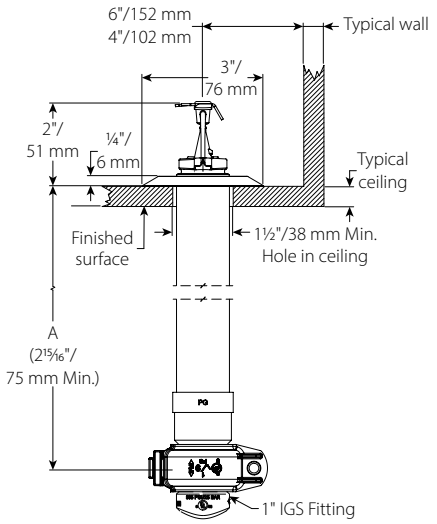
4.0 DIMENSIONS (CONTINUED)



Upright Flush, Threaded
V5643, V8143



Upright Flush, Grooved
V5643, V8143

Standard offering includes made-on escutcheon with "A" dimension shown above. Use the "Adjustments for Optional Interchangeable Escutcheons" table when making optional field adjustments to the standard ordered escutcheon.

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5.0 PERFORMANCE

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

6.0 NOTIFICATIONS

⚠ WARNING

- **Read and understand all instructions before attempting to install any Victaulic products.**
- **Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.**
- **Wear safety glasses, hardhat, and foot protection.**

Failure to follow these instructions could result in death or serious personal injury and property damage.

- **These products shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA 13, 13D, 13R, etc.) standards, or equivalent standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.**
- **The installer shall understand the use of this product and why it was specified for the particular application.**
- **The installer shall understand common industry safety standards and potential consequences of improper product installation.**
- **It is the system designer's responsibility to verify suitability of materials for use with the intended fluid media within the piping system and external environment.**
- **The material specifier shall evaluate the effect of chemical composition, pH level, operating temperature, chloride level, oxygen level, and flow rate on materials to confirm system life will be acceptable for the intended service.**

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.

7.0 REFERENCE MATERIALS

Ratings: All glass bulbs are rated for temperatures from -67°F/-55°C.

1-40: Victaulic FireLock™ Automatic Sprinklers Installation and Maintenance Instructions

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

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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