# Victaulic<sup>®</sup> FireLock<sup>™</sup> Series FL-QR Standard Coverage, Quick Response Upright, Pendent and Recessed Pendent Sprinklers K2.8 (4.0), K4.2 (6.1), K5.6 (8.1), K8.0 (11.5)











## 1.0 PRODUCT DESCRIPTION

QUICK RESPONSE UPRIGHT SPRINKLERS								
SIN V2815 V4215 V2704 V3402								
ORIENTATION	UPRIGHT	UPRIGHT	UPRIGHT	UPRIGHT				
K-FACTOR <sup>1</sup>	2.8 lmp./4.0 S.I.	4.2 lmp./6.1 S.I.	5.6 lmp./8.1 S.I.	8.0 lmp./11.5 S.I.				
CONNECTION	1/2" NPT/15mm BSPT	1/2" NPT/15mm BSPT	1/2" NPT/15mm BSPT/IGS	34" NPT/20mm BSPT/IGS				
MAX. WORKING PRESSURE	175 psi/1200 kPa	175 psi/1200 kPa	175 psi/1200 kPa cULus 250 psi /1725 kPa	175 psi/1200 kPa				
GLOBE RE-DESIGNATION	GL2815	GL4215	_	_				
GLOBE EQUIVALENT	-	_	GL5615	GL8118				

QUICK RESPONSE PENDENT SPRINKLERS							
SIN	V2801 V4201 V2708						
ORIENTATION	PENDENT	PENDENT	PENDENT	PENDENT			
K-FACTOR <sup>1</sup>	2.8 lmp./4.0 S.I.	4.2 lmp./6.1 S.I.	5.6 lmp./8.1 S.I.	8.0 lmp./11.5 S.I.			
CONNECTION	1/2" NPT/15mm BSPT	1/2" NPT/15mm BSPT	1/2" NPT/15mm BSPT/IGS	34" NPT/20mm BSPT/IGS			
MAX. WORKING PRESSURE	175 psi /1200 kPa	175 psi /1200 kPa	175 psi /1200 kPa cULus 250 psi/1725 kPa	175 psi/1200 kPa			
GLOBE RE-DESIGNATION	GL2801	GL4201	-	_			
GLOBE EQUIVALENT	-	_	GL5601	GL8101			
			GL5601				

QUICK RESPONSE RECESSED PENDENT SPRINKLERS						
SIN	SIN V2801 V4201 V2708					
ORIENTATION	PENDENT	PENDENT	PENDENT	PENDENT		
K-FACTOR <sup>1</sup>	2.8 lmp./4.0 S.I.	4.2 lmp./6.1 S.I.	5.6 lmp./8.1 S.I.	8.0 lmp./11.5 S.I.		
CONNECTION	1/2" NPT/15mm BSPT	1/2" NPT/15mm BSPT	1/2" NPT/15mm BSPT/IGS	3/4" NPT/20mm BSPT/IGS		
MAX. WORKING PRESSURE	175 psi/1200 kPa	175 psi/1200 kPa	175 psi/1200 kPa cULus 250 psi/1725 kPa	175 psi/1200 kPa		
ESCUTCHEON	Recessed	Recessed	Recessed	Recessed		
GLOBE RE-DESIGNATION	GL2801	GL4201	-	-		
GLOBE EQUIVALENT	_	_	GL5601	GL8101		

AVAILABLE GUARDS/SHIELDS						
SPRINKLER	SPRINKLER     V28     V42     V27     V34					
Upright						
Pendent						

	AVAILABLE WRENCHES							
SPRINKLER	V56-2 Recessed	V56 Open End	V27-2 Recessed	V27 Open End	V34-2 Recessed	V34 Open End	³∕16 Hex-Bit	
V2815 and V4215								
V2707 and V2704								
V3402								
V2801, and V4201								
V2706 and V2708								
V3406								

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

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

VdS: 5 psi/35 kPa/.35 bar (Upright only)

Temperature Rating: See tables in section 2.0

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

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

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## 2.0 CERTIFICATION/LISTINGS

UPRIGHT APPROVALS/LISTINGS							
SIN	V2815						
Nominal K Factor Imperial	2.8	4.2	5.6	8.0			
Nominal K Factor S.I. <sup>2</sup>	4.0	6.1	8.1	11.5			
Orientation	UPRIGHT	UPRIGHT	UPRIGHT	UPRIGHT			
		Approved Tempera	ature 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			
FM	_	-	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			
LPCB	-	-	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			
CE	_	-	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			
VdS	-	-	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			
CCC K-ZSTZ	_	-	155°F/68°C 175°F/79°C 286°F/141℃	155°F/68℃ 286°F/141℃			

<sup>2</sup> For K-Factor when pressure is measured in Bar, multiply S.I. units by 10.

PENDENT APPROVALS/LISTINGS								
SIN	V2801 V4201 V2708 V3406							
Nominal K Factor Imperial	2.8	4.2	5.6	8.0				
Nominal K Factor S.I. <sup>2</sup>	4.0	6.1	8.1	11.5				
Orientation	PENDENT	PENDENT	PENDENT	PENDENT				
Escutcheon	Flush/Extended	Flush/Extended	Flush/Extended	Flush/Extended				
		Approved Tempera	ature 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				
FM	_	_	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				
CCC K-ZSTX	_	_	155°F/68°C 200°F/93°C 286°F/141°C	155°F/68°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.
- Where cULus Listed, Polyester and VC-250 Coatings Listed as Corrosion Resistant (V3402 with VC-250 Only)
- Where FM Approved, VC-250 Coating Approved as Corrosion Resistant
- New York City Acceptance All UL Listed and/or FM Approved sprinklers acceptable to NYC per section 28-113 of the Administrative Code and the OTCR Rule.



## 2.0 CERTIFICATION/LISTINGS (CONTINUED)

RECESSED PENDENT APPROVALS/LISTINGS								
SIN								
Nominal K Factor Imperial	2.8	4.2	5.6	8.0				
Nominal K Factor S.I. <sup>2</sup>	4.0	6.1	8.1	11.5				
Orientation	PENDENT	PENDENT	PENDENT	PENDENT				
Escutcheon	Recessed	Recessed	Recessed	Recessed				
	Арр	proved 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	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C				
FM WITH ½" ADJUSTMENT ESCUTCHEON ONLY	_	_	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C	135°F/57°C 155°F/68°C 175°F/79°C 200°F/93°C				
CCC K-ZSTX	-	-	155°F/68°C 200°F/93°C 286°F/141°C	155°F/68°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.
- Where cULus Listed, Polyester and VC-250 Coatings Listed as Corrosion Resistant (V3402 with VC-250 Only)
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## 3.0 SPECIFICATIONS - MATERIAL

## Deflector: Bronze

Bulb Nominal Diameter: 3.0mm

Load Screw: Bronze

Pip Cap: Bronze

Spring Seal: PTFE coated Beryllium nickel alloy

## Frame: Brass

Lodgement Spring: Stainless steel Installation Wrench: Ductile iron

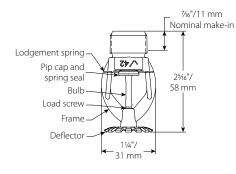
## Sprinkler Frame Finishes:

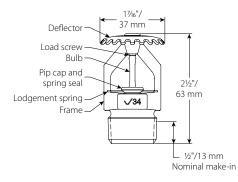
### Sprinkler Frame Finish

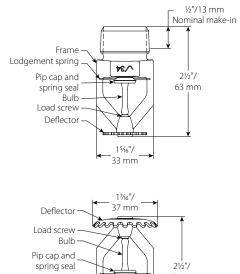
- Plain brass
- Chrome plated
- White polyester painted<sup>3, 4</sup>
- Flat black polyester painted<sup>3, 4</sup>
- Custom polyester painted<sup>3, 4</sup>
- VC-250<sup>5</sup>
- <sup>3</sup> Not available on the Intermediate Level Style Pendent.
- <sup>4</sup> UL Listed for corrosion resistance.
- <sup>5</sup> UL Listed and FM Approved for corrosion resistance.

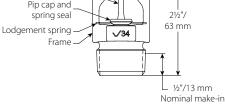
#### NOTE

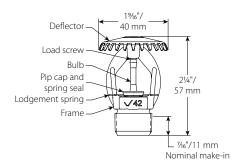
• For cabinets and other accessories refer to separate sheet.

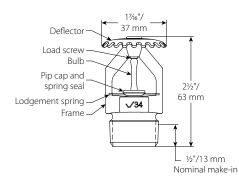






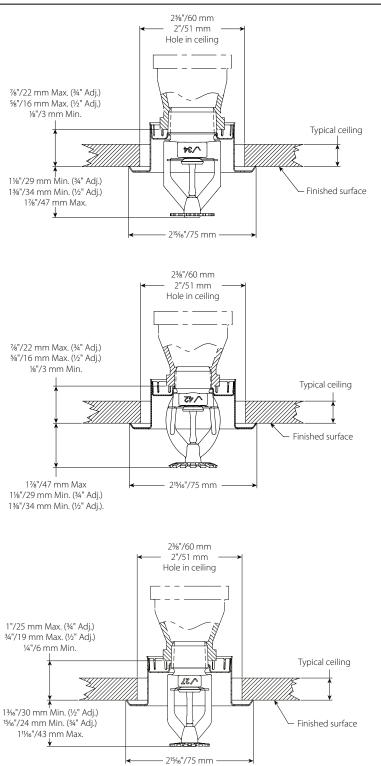








## 4.0 **DIMENSIONS**





## 5.0 PERFORMANCE

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

## 6.0 NOTIFICATIONS

# WARNING 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 to those shown in the table below. I-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, 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.

#### Intellectual Property Rights

No statement contained herein concerning a possible or suggested use of any material, product, service, or design is intended, or should be constructed, to grant any license under any patent or other intellectual property right of Victaulic or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service, or design in the infringement of any patent or other intellectual property right. The terms "Patented" or "Patent Pending" refer to design or utility patents or patent applications for articles and/or methods of use in the United States and/or other countries.

#### 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. Trademarks
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