Victaulic® FireLock™ Series FL-ECOH Extended Coverage, Standard and Quick Response Upright, Pendent and Recessed Pendent Sprinklers K11.2 (16.2), K14.0 (20.2)











1.0 PRODUCT DESCRIPTION

EXTENDED COVERAGE UPRIGHT SPRINKLERS							
SIN V1121 V3425							
ORIENTATION	UPRIGHT	UPRIGHT					
K-FACTOR ¹	11.2 lmp./16.1 S.I.	14.0 lmp./20.2 S.I.1					
CONNECTION	34" NPT/ 20mm BSPT	3/4" NPT/ 20mm BSPT/IGS Grooved					
MAX. WORKING PRESSURE	175 psi (1200 kPa)	175 psi (1200 kPa)					
GLOBE RE-DESIGNATION	GL1121	_					

EXTENDED COVERAGE PENDENT SPRINKLERS							
SIN V1113 V3421							
ORIENTATION	PENDENT	PENDENT					
K-FACTOR ¹	11.2 lmp./16.1 S.l.	14.0 lmp./20.2 S.I.					
CONNECTION	3/4" NPT/ 20mm BSPT	3/4" NPT/ 20mm BSPT/IGS Grooved					
MAX. WORKING PRESSURE	175 psi (1200 kPa)	175 psi (1200 kPa)					
GLOBE RE-DESIGNATION	GL1113	_					

EXTENDED COVERAGE RECESSED PENDENT SPRINKLERS							
SIN V1113 V3421							
ORIENTATION	RECESSED PENDENT	RECESSED PENDENT					
K-FACTOR ¹	11.2 lmp./16.1 S.l.	14.0 lmp./20.2 S.I.					
CONNECTION	3/4" NPT/ 20mm BSPT	34" NPT/ 20mm BSPT					
MAX. WORKING PRESSURE	175 psi (1200 kPa)	175 psi (1200 kPa)					
GLOBE RE-DESIGNATION	GL1113	_					

AVAILABLE WRENCHES									
SPRINKLER	SPRINKLER V11 Recessed V11 Open End V34 Recessed V34 Open End 3/16 Hex-Bit (V9)								
Upright									
Pendent									

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

Min. Operating Pressure: UL: 7psi/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.

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



2.0 CERTIFICATION/LISTINGS



SI	N	V1121						
Nominal K Fa	ctor Imperial	11.2						
Nominal K	Factor S.I. ²	16.2						
Installati	ion Type				UPRIGHT			
Maximum Coverage Area Width x Length			OH1 Flow	OH1 Pressure	OH2 Flow	OH2 Pressure	Approved Temperature Ratings	Minimum Spacing
Ft. x Ft	Listing	_	GPM	PSI	GPM	PSI		Ft.
m x m	Agency	Response	L/min	kPa	L/min	kPa	F°/C°	m
14 x 14 4.3 x 4.3	UL	QR	30 114	7.2 50	39 148	12.1 83	155°F/68°C 200°F/93°C	
16 x 16 4.9 x 4.9	UL	SR	39 148	12.1 83	51 196	20.7 143	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	
18 x 18 5.5 x 5.5	UL	SR	49 185	19.1 132	65 246	33.7 232	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	11 3.4
20 x 20 6.1 x 6.1	UL	SR	60 227	28.7 198	80 303	51 352	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	

SI	N	V3425						
Nominal K Fa	ctor Imperial	14.0						
	Nominal K Factor S.I. ²		20.2					
Installat	ion Type				UPRIGHT			
Maximum Coverage Area Width x Length			OH1 Flow	OH1 Pressure	OH2 Flow	OH2 Pressure	Approved Temperature Ratings	Minimum Spacing
Ft. x Ft m x m	Listing Agency	Response	GPM L/min	PSI kPa	GPM L/min	PSI kPa	F°/C°	Ft. m
14 x 14 4.3 x 4.3	UL	SR	39 148	7.8 54	51 193	13.3 92	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	
16 x 16 4.9 x 4.9	UL	SR	39 149	7.8 54	51 196	13.3 92	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	8
18 x 18 5.5 x 5.5	UL	SR	49 186	12.3 85	65 246	21.6 149	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	2.4
20 x 20 6.1 x 6.1	UL	SR	60 227	18.4 127	80 303	32.7 226	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 10.0.

NOTES

Listings and approval as of printing.



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2.0 CERTIFICATION/LISTINGS (CONTINUED)



SIN	1	V1113							
Nominal K Fac	tor Imperial	11.2							
Nominal K F					16.2				
Installatio	n Type				Pendent/Recess	sed Pendent			
Maximum Coverage Area Width x Length			Adjustment	OH1 Flow	OH1 Pressure	OH2 Flow	OH2 Pressure	Approved Temperature Ratings	Minimum Spacing
Ft. x Ft	Listing		In	GPM	PSI	GPM	PSI		Ft.
m x m	Agency	Response	mm	L/min	kPa	L/min	kPa	F°/C°	m
14 x 14 4.3 x 4.3	UL	QR	½ and ¾ 15 and 20	30 114	7.2 50	39 148	12.1 83	155°F/68°C 200°F/93°C	
16 x 16 4.9 x 4.9	UL	SR	½ and ¾ 15 and 20	39 148	12.1 83	51 196	20.7 143	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	
18 x 18 5.5 x 5.5	UL	SR	½ and ¾ 15 and 20	49 185	19.1 132	65 246	33.7 232	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	9 2.7
20 x 20 6.1 x 6.1	UL	SR	½ and ¾ 15 and 20	60 227	28.7 198	80 303	51 352	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	

SIN	١	V3421							
Nominal K Fac	tor Imperial	14.0							
Nominal K F	actor S.I. ²		20.2						
Installatio	on Type				Pendent/Reces	sed Pendent			
Maximum Coverage Area Width x Length			Adjustment	OH1 Flow	OH1 Pressure	OH2 Flow	OH2 Pressure	Approved Temperature Ratings	Minimum Spacing
Ft. x Ft	Listing	D	In	GPM	PSI	GPM	PSI	F0./C0	Ft.
m x m	Agency	Response	mm	L/min	kPa	L/min	kPa	F°/C°	m
14 X 14 4.3 X 4.3	UL	SR	½ and ¾ 15 and 20	39.0 148	7.8 54	51.0 193	13.3 92	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	
16 X 16 4.9 X 4.9	UL	SR	½ and ¾ 15 and 20	39.0 149	7.8 55	51 196	13.3 93	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	12
18 x 18 5.5 x 5.5	UL	SR	½ and ¾ 15 and 20	49.0 186	12.3 85	65 246	21.6 149	155°F/68°C 175°F/79°C 200°F/93°C 286°F/141°C	3.7
20 x 20 6.1 x 6.1	UL	SR	½ and ¾ 15 and 20	60 227	18.4 127	80.0 303	32.7 226	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 10.0.

NOTES

Listings and approval as of printing.



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SPECIFICATIONS - MATERIAL

Deflector: Bronze

Bulb Nominal Diameter: 3.0mm

Load Screw: Bronze Pip Cap: Bronze

Spring Seal Assembly: PTFE coated Beryllium nickel

alloy

Frame: Brass

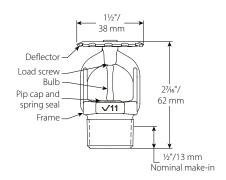
Lodgement Spring: Stainless Steel Installation Wrench: Ductile iron

Sprinkler Frame Finishes:

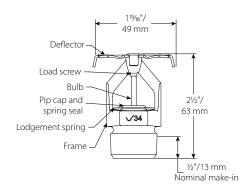
- Plain brass
- Chrome plated
- White polyester painted^{3, 4}
- Flat black polyester painted^{3, 4}
- Custom polyester painted^{3, 4}
- VC-250⁵
- Not available on the Intermediate Level Style Pendent.
- UL Listed for corrosion resistance.
- UL Listed and FM Approved for corrosion resistance.

NOTE

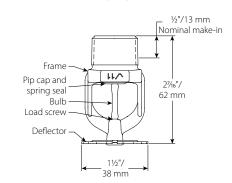
For cabinets and other accessories refer to separate sheet.



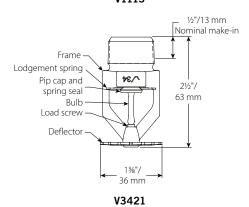
V1121



V3425

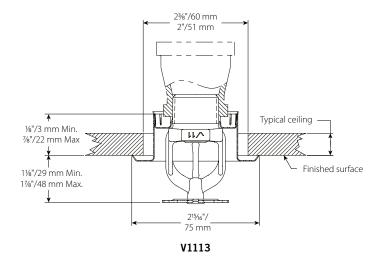


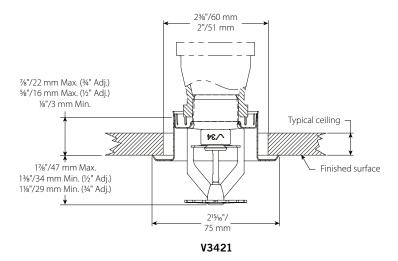
V1113





4.0 DIMENSIONS





5.0 PERFORMANCE

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



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NOTIFICATIONS 6.0



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
- 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.

REFERENCE MATERIALS 7.0

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, 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

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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.

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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