

# MODEL JL-14 & JL-17 ESFR PENDENT SPRINKLERS

## 175 PSI (12 BAR) RATED

### PRODUCT DESCRIPTION

The Reliable Models JL-14 and JL-17 are Early Suppression Fast Response (ESFR) Sprinklers with nominal K-factors of 14.0 (200 metric) and 16.8 (240 metric), respectively. The sprinklers use a levered fusible alloy solder link in either a 165°F (74°C) or a 212°F (100°C) temperature rating. These sprinklers are designed to respond quickly to growing fires and will deliver a heavy water discharge to “suppress” rather than “control” fires.

FM Approvals classifies the Model JL-14 and JL-17 as quick-response sprinklers, storage and non-storage, when used in accordance with FM Global Property Loss Prevention Data Sheets.

The JL-14 and JL-17 sprinklers are available with 3/4” NPT or ISO7-1R3/4 (BSPT) threads, and the JL-17 is also available with the Victaulic® IGS™ Style V9 Sprinkler Coupling\*.

Model JL-14 and JL-17 ESFR sprinklers are designed to be shorter and more compact than other ESFR sprinklers, allowing greater flexibility with regard to distance from ceilings and obstructions. The JL-14 and JL-17 ESFR sprinklers are also less susceptible to damage due to smaller deflector and frame design. The lighter JL-14 and JL-17 ESFR sprinklers passed rough use and abuse listing tests without plastic protectors.

\*Note: Victaulic® and IGS™ are trademarks of Victaulic Company.



**TABLE A: Models JL-14 & JL-17 ESFR Pendent Sprinklers**

Model	Nominal K-factor gpm/psi <sup>1/2</sup> (L/min/bar <sup>1/2</sup> )	Approvals	Sprinkler Identification Number (SIN)
JL-14	14.0 (200)	cULus, FM, VdS, LPCB, CNBOP-PIB	RA1812
JL-17	16.8 (240)	cULus, FM, VdS, LPCB, CNBOP-PIB	RA1914

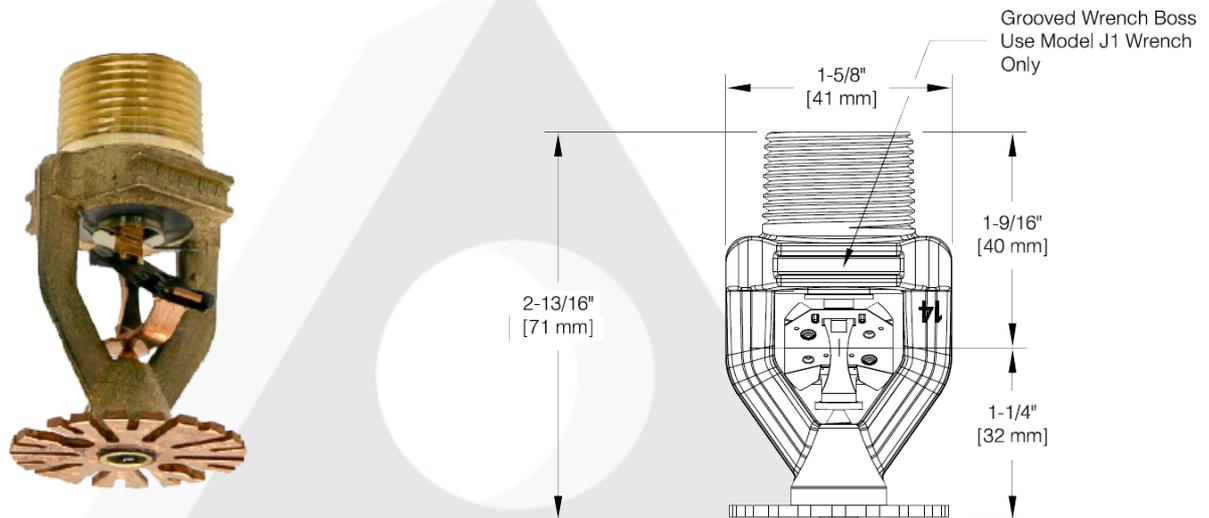
REF: SRPK14K17\_032021\_REV0

AQL PROTECCION  
Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)  
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- Technical Specifications:**  
**Style:** Pendent  
**Connection:** 3/4" NPT or ISO7-1R3/4 (BSPT) threads.  
**Nominal K-Factor:** 14.0 (200 metric).  
**Max. Working Pressure:** 175 psi (12 bar).
- Material Specifications:**  
**Operating Element:** Brass Alloy.  
**Sprinkler Frame:** Brass Alloy.  
**Cap:** Bronze Alloy.  
**Sealing Assembly:** Nickel Alloy with PTFE.  
**Load Screw:** Bronze Alloy.  
**Deflector:** Bronze Alloy.  
**Kick Spring:** Stainless Steel Alloy.
- Sprinkler Finishes:**  
 Bronze.
- Temperature Ratings:**  
 Ordinary: 165°F (74°C).  
 Intermediate: 212°F (100°C).
- Listings and Approvals:**  
 cULus.  
 FM Approved.  
 VdS.  
 LPCB.  
 CNBOP-PIB.
- Sensitivity:**  
 Fast-Response.  
 Quick-Response (FM).
- Sprinkler Wrench:**  
 Model J1.

**Figure 1: Model JL-14 Sprinklers Components and Dimensions**



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■ **Technical Specifications:**

**Style:** Pendent

**Connection:** 3/4" NPT or ISO7-1R3/4 (BSPT) threads, Victaulic® IGS™ Style V9 Sprinkler Coupling

**Nominal K-Factor:** 16.8 (240 metric)

**Max. Working Pressure:** 175 psi (12 bar).

■ **Material Specifications:**

**Operating Element:** Brass Alloy.

**Sprinkler Frame:** Brass Alloy.

**Cap:** Bronze Alloy.

**Sealing Assembly:** Nickel Alloy with PTFE.

**Load Screw:** Bronze Alloy.

**Deflector:** Bronze Alloy.

**Kick Spring:** Stainless Steel Alloy.

■ **Sprinkler Finishes:**

Bronze.

■ **Temperature Ratings:**

Ordinary: 165°F (74°C).

Intermediate: 212°F (100°C).

■ **Listings and Approvals:**

cULus.

FM Approved.

VdS.

LPCB.

CNBOP-PIB.

■ **Sensitivity:**

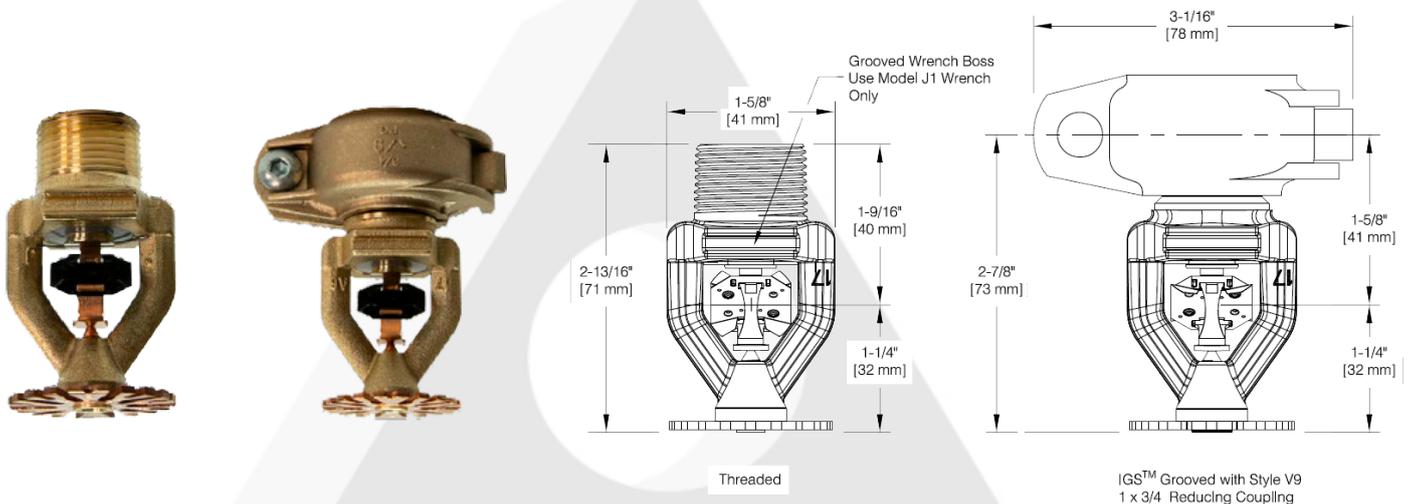
Fast-Response.

Quick-Response (FM).

■ **Sprinkler Wrench:**

Model J1.

**Figure 2: Model JL-17 Sprinklers Components and Dimensions**



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**TABLE B: Model JL-14 and JL-17 Commodity Selection and Design Criteria Overview**

Storage Type	NFPA	FM GLOBAL
Sprinkler Type	ESFR	Storage
Response Type	ESFR	Quick Response
System Type	Wet	Wet
Temperature Rating °F (°C)	165 (74), 212 (100)	165 (74), 212 (100)
Roof Construction	See NFPA 13	See FM Global 2-0
Ceiling Slope	See NFPA 13	See FM Global 2-0
Maximum Coverage Area	See NFPA 13	See FM Global 2-0
Minimum Coverage Area	See NFPA 13	See FM Global 2-0
Maximum Spacing	See NFPA 13	See FM Global 2-0
Minimum Spacing	See NFPA 13	See FM Global 2-0
Minimum Clearance to Commodity	See NFPA 13	See FM Global 2-0
Sprinkler Distance to Ceiling	See NFPA 13	See FM Global 2-0
Open Frame, Single, Double, Multiple Row, or Portable Rack Storage of Class I-IV, Cartoned Unexp Plastics	See NFPA 13	See FM 2-0 & 8-9
Solid Pile or Palletized Storage of Class I - IV and Cartoned Unexp Plastics	See NFPA 13	See FM 2-0 & 8-9
Idle Pallet Storage	See NFPA 13	See FM 2-0, 8-9 & 8-24
Rubber Tire Storage	See NFPA 13	See FM 2-0 & 8-3
Rolled Paper Storage	See NFPA 13	See FM 8-21
Flammable Liquid Storage	See NFPA 30	See FM 7-29
Aerosol Storage	See NFPA 30B	See FM 7-31
Auto Components in Portable Racks	N/A	N/A

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## INSTALLATION

Model JL-14 and JL-17 sprinklers are intended for installation in accordance with NFPA 13 and FM Loss Prevention Data Sheets 2-0 and 8-9, as well as the requirements of any Authorities Having Jurisdiction. See Table B for information on NFPA and FM Global design criteria for the Model JL-14 and JL-17 sprinklers.

For threaded sprinklers only, use the Model J1 sprinkler wrench for removal and installation. Any other type of wrench may damage the sprinkler. A grooved wrench boss is provided on the sprinkler to limit the potential for the wrench to slip during installation.

When handling sprinklers, hold sprinklers only on frame arms and do not apply any force on the link assembly. Model JL-14 and JL-17 sprinklers should be tightened between 14 - 40 ft-lbs (19 - 54 N-m) torque. Sprinklers not tightened to recommended torque may cause leakage or impairment of the sprinkler. Damaged sprinklers must be replaced immediately.

For grooved sprinklers, push the IGS™ Style V9 Sprinkler Coupling onto the grooved outlet until contact with the center leg of the gasket occurs. Align the sprinkler frame arms and the pads of the coupling with the sprinkler piping and tighten the coupling until the pads of the coupling meet. For additional information, please reference Victaulic® technical bulletin I-V9.

**Caution:** When handling sprinklers, hold sprinklers only by the frame arms and do not apply any force on the link assembly.

## MAINTENANCE

Model JL-14 and JL-17 ESFR Sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinkler with soap and water, ammonia or any other cleaning fluid. Replace any sprinkler that has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging until used, to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Once operated, automatic sprinklers cannot be reassembled and reused. New sprinklers of the same size, type and temperature rating must be installed. A cabinet of replacement sprinklers should be provided for this purpose.

## LISTINGS AND APPROVALS

- UL Listed and ULC Certified for Canada (cULus).
- FM Approved (FM).
- VdS Certified (VdS).
- Loss Prevention Certification Board Approved (LPCB).
- CNBOP-PIB Technical Approval (CNBOP-PIB).

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## GUARANTEE

For the Reliable Automatic Sprinkler Co., Inc. guarantee, terms, and conditions, visit [www.reliablesprinkler.com](http://www.reliablesprinkler.com).

## ORDERING INFORMATION

### Specify:

- **Sprinkler:**
  - [JL-14]
  - [JL-17]
- **Temperature Rating:**
  - [165°F (64°C)]
  - [212°F (100°C)]
- **End Connection:**
  - [3/4" NPT]
  - [ISO7-1R3/4 (BSPT)]
  - [\*JL-17 only\* Victaulic® IGS™ Style V9 Sprinkler Coupling]

## ACCESSORIES



Victaulic® IGS™ Style V9 Sprinkler Coupling installation bit - One bit provided in each box of 25 sprinklers.



**Note:** 1" S/142 IGS™ grooved welded outlets are also available from Reliable.

**Figure 3: Model J1 Sprinkler Wrench**



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