

Reliable®

F1FR42LL & F1FR56LL Low-Lead Quick-Response Sprinklers

Features

- Standard coverage quick-response pendent sprinklers
- Less than 0.25% lead content
- Low profile, compact design
- Available in a wide variety of finishes

Product Description

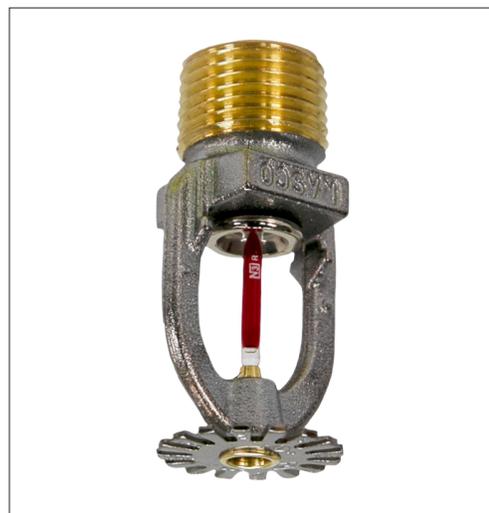
Reliable Model F1FR42LL and F1FR56LL sprinklers are quick-response standard spray automatic fire sprinklers utilizing a sensitive 3.0 mm glass bulb thermal element and are cULus certified to contain less than 0.25% lead in accordance with NSF/ANSI 372 Annex G.

Application

Model F1FR42LL and F1FR56LL sprinklers are generally used on combined fire/domestic residential systems to protect fuel fired equipment in non-occupied areas.

Table A provides a summary of the approvals and availability of specific Model F1FR42LL and F1FR56LL sprinklers. Additional technical information for each sprinkler model is provided on the following pages.

Important! Reliable fire sprinklers must be handled, stored, and installed in accordance with the guidelines in Caution Sheet 310 and this bulletin. Failure to follow these instructions may result in unintended operation or nonoperation of the fire protection system.



Model F1FR42LL Pendent
(Model F1FR56LL Similar)

Sprinkler Summary

Table A

Sprinkler Model	K-Factor gpm/psi ^{1/2} (lpm/bar ^{1/2})	Orientation	Listings & Approvals	Max. Working Pressure psi (bar)	Sprinkler Identification Number (SIN)
F1FR42LL	4.2 (60)	Pendent	cULus, ULH	175 (12)	RA1410
F1FR56LL	5.6 (80)	Pendent	cULus, ULH	175 (12)	RA1415

Model F1FR42LL Pendent Sprinkler

SIN RA1410

Technical Specifications

Style:
Pendent
Threads: 1/2" NPT
Nominal K-Factor: 4.2 (60)
Max. Working Pressure: 175 psi (12 bar)

Material Specifications

Thermal Sensor: 3 mm Glass Bulb
Sprinkler Frame: Low-Lead Brass Alloy
Cap: Bronze Alloy
Sealing Washer: Nickel with PTFE
Load Screw: Copper Alloy
Deflector: Brass Alloy

Sprinkler Finishes

(See Table B)

Sensitivity

Quick Response

Temperature Ratings

200°F (93°C)

Guards

D-1 Guard

Sprinkler Wrenches

Model W2 (without guard)
Model JD (with guard)

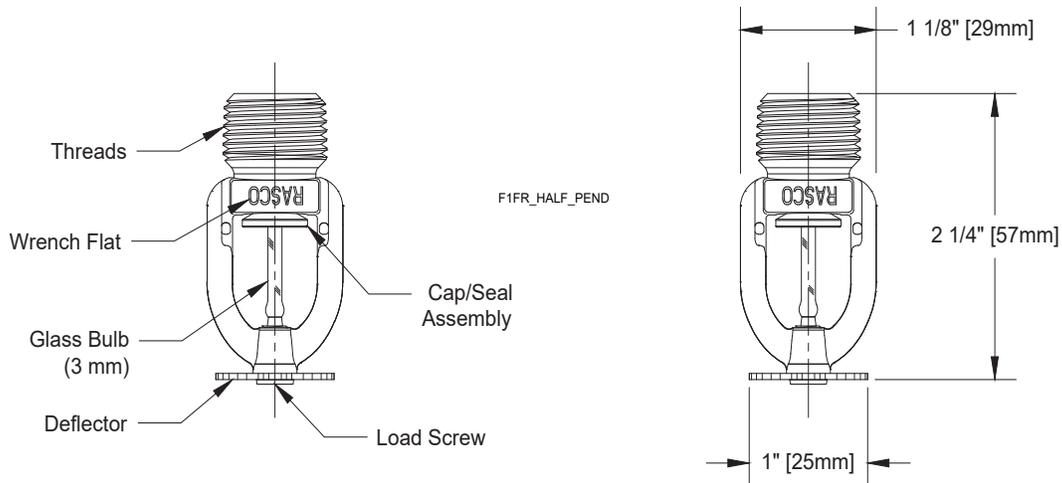
Listings and Approvals

ULH, WM



Model F1FR42LL Pendent Sprinkler Components and Dimensions

Figure 1



Technical Specifications

Style:
Pendent
Threads: 1/2" NPT
Nominal K-Factor: 5.6 (80)
Max. Working Pressure: 175 psi (12 bar)

Material Specifications

Thermal Sensor: 3 mm Glass Bulb
Sprinkler Frame: Low-Lead Brass Alloy
Cap: Bronze Alloy
Sealing Washer: Nickel with PTFE
Load Screw: Copper Alloy
Deflector: Brass Alloy

Sprinkler Finishes

(See Table B)

Sensitivity

Quick Response

Temperature Ratings

200°F (93°C)

Guards

D-1 Guard

Sprinkler Wrenches

Model W2 (without guard)
Model JD (with guard)

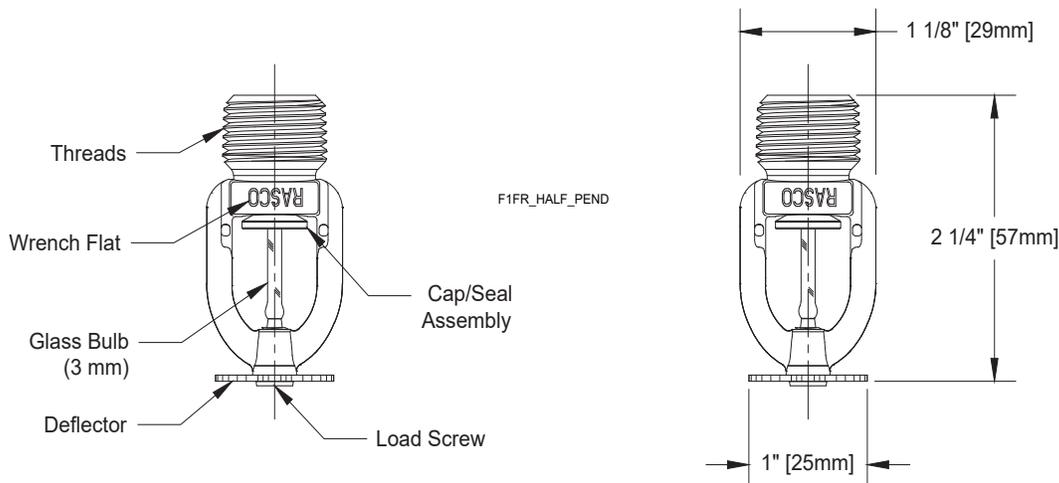
Listings and Approvals

ULH, WM



Model F1FR56LL Pendant Sprinkler Components and Dimensions

Figure 2



Wrenches



Model W2 (without guard)



Model JD (with guard)

Finishes⁽¹⁾

Table B

Standard Finishes

Bronze

Chrome Plated

White Polyester⁽²⁾

Notes:

1. Paint or any other coating applied over the factory finish will void all approvals and warranties.
2. cULus Listed as corrosion resistant.

Installation

Model F1FR42LL and F1FR56LL sprinklers must be installed in accordance with NFPA13 and the requirements of all applicable authorities having jurisdiction. Model F1FR42LL and F1FR56LL sprinklers must be installed with the Reliable sprinkler installation wrench identified in this Bulletin. Any other wrench may damage the sprinkler. A leak tight sprinkler joint can be obtained with a torque of 4 to 18 lb-ft (11 to 24 N-m). Do not tighten sprinklers over the maximum recommended installation torque. Exceeding the maximum recommended installation torque may cause leakage or impairment of the sprinkler.

Glass bulb sprinklers have orange bulb protectors or protective caps to minimize bulb damage during shipping, handling and installation. Reliable sprinkler installation wrenches are designed to install sprinklers with bulb protectors in place. Remove the bulb protector at the time when the sprinkler system is placed in service for fire protection. Removal of the bulb protector before this time may leave the bulb vulnerable to damage. Remove bulb protectors by undoing the clasp by hand. Do not use tools to remove bulb protectors.

Maintenance

Reliable Model F1FR42LL and F1FR56LL sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25, as well as the requirements of any Authorities Having Jurisdiction.

Prior to installation, sprinklers should remain in the original cartons and packaging until used. This will minimize the potential for damage to sprinklers that could cause improper operation or non-operation.

Do not clean sprinklers with soap and water, ammonia liquid or any other cleaning fluids. Remove dust by gentle vacuuming without touching the sprinkler.

Replace any sprinkler which has been painted (other than factory applied). A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Failure to properly maintain sprinklers may result in inadvertent operation or non-operation during a fire event.

Guarantee

For the guarantee, terms, and conditions, visit www.reliablesprinkler.com.

Ordering Information

Specify the following when ordering:

Model

- F1FR42LL Pendant
- F1FR56LL Pendant

Guard

- Model D-1

Sprinkler Finish

- See Table B

Sprinkler Wrench

- Model W2 (without guard)
- Model JD (with Model D-1 guard installed)