

MODEL GL112 SERIES SPRINKLER

PRODUCT DESCRIPTION



Upright



Pendent

Model GL112 Series Sprinklers



Upright with Factory Installed Shield

Reliable Model GL112 upright and pendent sprinklers are standard coverage, quick response sprinklers utilizing a levered fusible allow solder link thermal element in 165°F (74°C) or 212°F (100°C) temperature rating. These sprinklers are intended for use in hydraulically calculated control mode density area (CMDA) storage and non-storage occupancies in accordance with the area/density curves of NFPA 13 or other applicable standards.

The Model GL112 sprinkler is FM Approved as a quick response storage and non-storage sprinkler when used in accordance with FM Global Property Loss Prevention Data Sheets.

The Model GL112 is provided with 3/4-inch NPT or ISO 7-R3/4 threads. Sprinklers without guards are installed using the Model H wrench.

For use as an intermediate level sprinkler, the Model GL112 upright sprinkler is available with a factory installed water shield. Various other water shields, guards, or guard/shield options are also available for both upright and pendent models (please refer to Technical Specifications on following pages). Sprinkler guards or guard/shields may be installed in the field or factory installed. Use of the Model JV sprinkler wrench is required for installation where a guard is added to the sprinkler prior to threading the assembly into a fitting.

TABLE A: Model GL112 Specifications

Style	Sprinkler Identification Number (SIN)	Listings and Approvals	Sensitivity	K-Factor
Upright	R3226	FM	Quick Response	11.2 (160 metric)
Pendent	R3216	FM		

REF: SRGL112_032021_REVO

AQL PROTECCION

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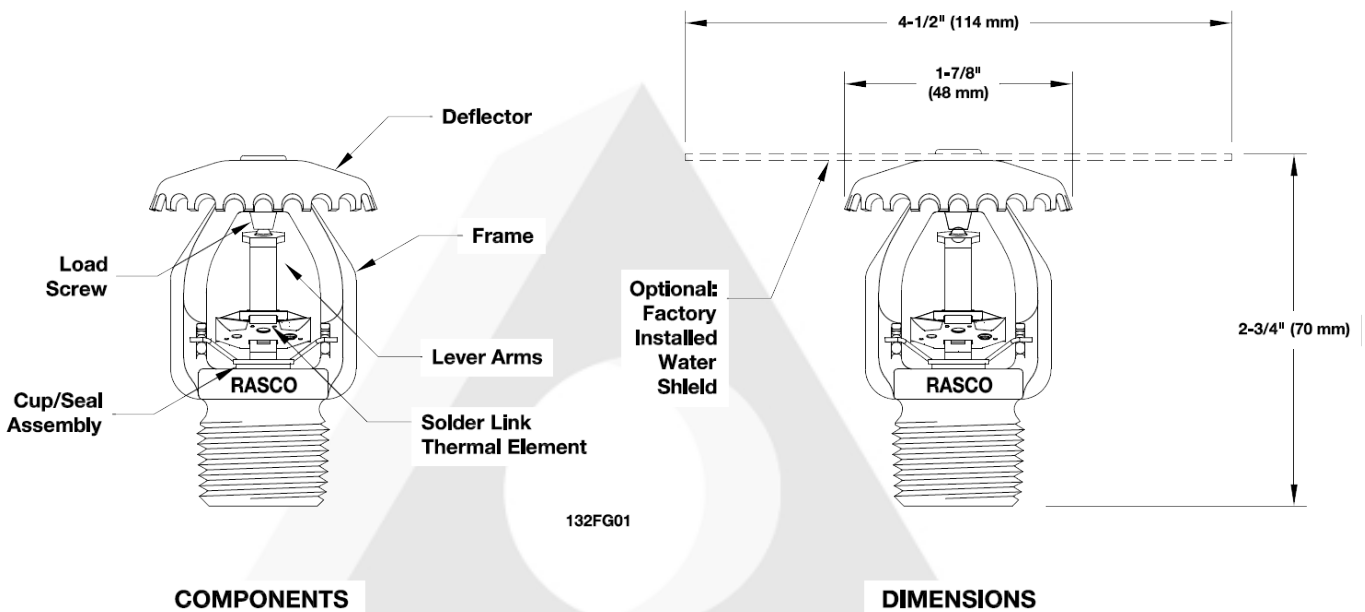
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- Technical Specifications:**
Style: Upright.
Threads: 3/4" NPT or ISO 7-1R3/4.
Nominal K-Factor: 11.2 (160 metric).
Max. Working Pressure: 175 psi (12 bar).
- Material Specifications:**
Thermal Sensor: Nickel Alloy Solder Link.
Sprinkler Frame: Brass Alloy.
Button/Cup: Brass Alloy.
Sealing Assembly: Brass with PTFE.
Load Screw: Bronze.
Deflector: Bronze Alloy.
Lever Arms: Bronze Alloy.
Ejection Spring: Stainless Steel.
- Sprinkler Finishes:**
 Standard (Bronze) Only.
- Temperature Ratings:**
 165 °F (74 °C).
 212 °F (100 °C).
- Listings and Approvals:**
 FM Approved.
- Sensitivity:**
 Quick Response.
- Sprinkler Wrenches:**
 Model H.
 Model JV (when guard is installed prior to make-in).
- Guards & Shields:**
 D-7 Guard & Water Shield (FM).
 Water Shield (factory installed).

Fig. 1 - Model GL112 Upright Components and Dimensions



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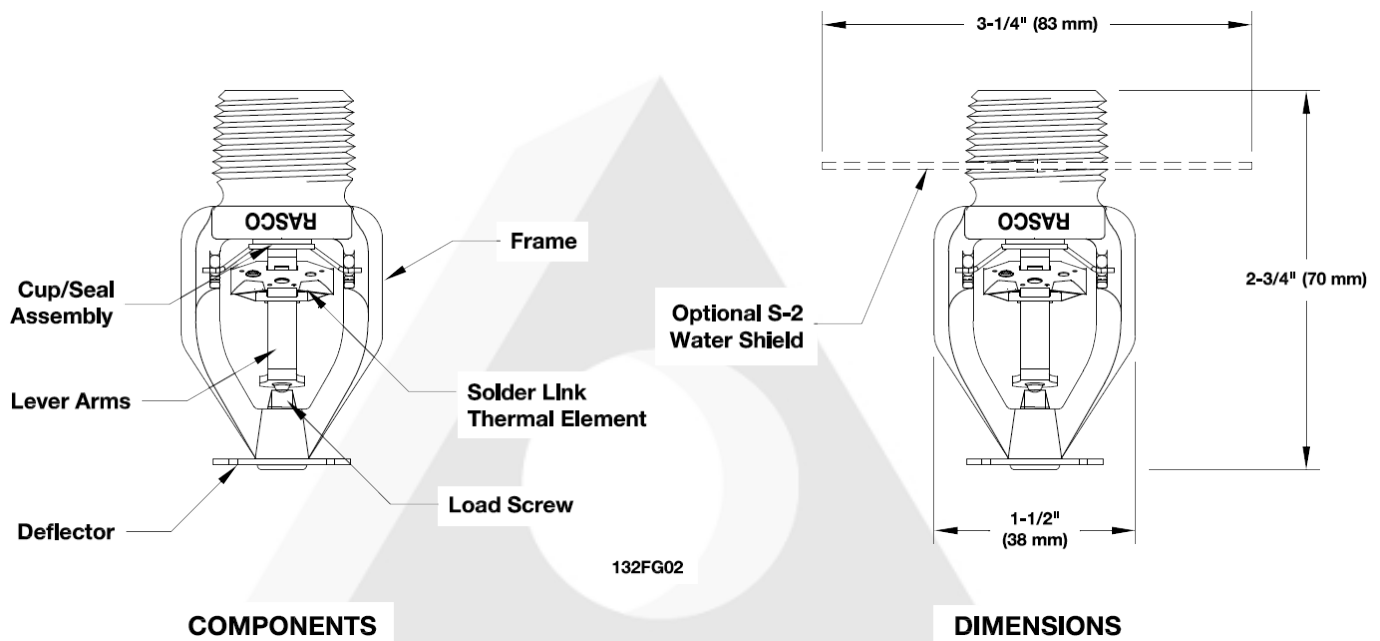
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- Technical Specifications:**
Style: Pendent.
Threads: 3/4" NPT or ISO 7-1R3/4.
Nominal K-Factor: 11.2 (160 metric).
Max. Working Pressure: 175 psi (12 bar).
- Material Specifications:**
Thermal Sensor: Nickel Alloy Solder Link.
Sprinkler Frame: Brass Alloy.
Button/Cup: Brass Alloy.
Sealing Assembly: Brass Alloy with PTFE.
Load Screw: Bronze.
Deflector: Bronze Alloy.
Lever Arms: Bronze Alloy.
Ejection Spring: Stainless Steel.
- Temperature Ratings:**
 165 °F (74 °C).
 212 °F (100 °C).
- Listings and Approvals:**
 FM Approved.
- Sensitivity:**
 Quick Response.
- Sprinkler Wrenches:**
 Model H.
 Model JV (when guard is installed prior to make-in).
- Guards & Shields:**
 D-8 Guard.
 D-9 Guard & Water Shield (FM).
 S-2 Water Shield.
- Sprinkler Finishes:**
 Standard (Bronze) Only.

Fig. 2 - Model GL112 Pendent Components and Dimensions



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TABLE B: Model GL112 Commodity Selection and Design Criteria Overview

Storage Type	NFPA	FM GLOBAL
Sprinkler Type	CMDA	Storage
Response Type	QR	QR
System Type	Pendent - Wet Upright - Wet, Dry, Preaction	Pendent - Wet Upright - Wet, Dry, Preaction
Temperature Rating °F (°C)	165, 212 (74, 100)	165, 212 (74, 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 Commodity and Group A Plastic	See NFPA 13	See FM 2-0 & 8-9
Solid Pile or Palletized Storage of Class I - IV Commodity and Group A Plastic	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 8-3
Rolled Paper Storage	See NFPA 13	Pendent - N/A Upright - See FM 8-21
Flammable Liquid Storage	See NFPA 13	See FM 7-29 and 8-9
Aerosol Storage	See NFPA 13	See FM 7-31
Auto Components in Portable Racks	See NFPA 13	N/A

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INSTALLATION

The Reliable Model GL112 QR sprinkler must be installed according to NFPA Standards or the appropriate FM Global Data Sheets for all area/density methods of design as well as the Authority Having Jurisdiction.

Use only the Model H sprinkler wrench for sprinkler installation or use the Model JV wrench to install the sprinkler/guard assembly (*Figure 3*). Any other type of wrench may damage the sprinkler. Damaged sprinklers must be replaced immediately.

Note: Sprinklers should be tightened between 14-20 lb-ft (19-27,1 N.m) torque. Exceeding the maximum recommended torque may cause leakage or impairment of the sprinklers.

MAINTENANCE

Reliable Model GL112 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.

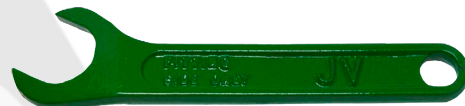
Replace any sprinkler which has been painted (other than factory applied). A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers.

Failure to properly maintain sprinklers may result in inadvertent operation or non-operation during a fire event.

Fig. 3 - Wrenches



Model H Wrench (sprinkler)



Model JV Wrench (with guard installed)

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GUARANTEE

For the Reliable Automatic Sprinkler Co., Inc. guarantee, terms, and conditions, visit www.reliablesprinkler.com.

ORDERING INFORMATION

Specify the following when ordering:

- **Model GL112 Sprinkler:**
 - [Upright].
 - [Pendent].
 - [Upright with factory installed shield].
- **Temperature Rating:**
 - [165°F (74°C)].
 - [212°F (100°C)].
- **Guard/Shield:**
 - See Technical Specifications.
- **Sprinkler Wrench:**
 - [Model H].
 - [Model JV (required with pre-installed guards)].

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