

MODEL GXLO SERIES SPRINKLER

Storage and Non-Storage Sprinkler K11.2 (160 metric)



Upright



Pendent

Model GXLO Series Sprinklers



**Upright with Factory Installed Shield
(Factory installed water shield)**

Reliable Model GXLO (extra-large orifice) upright and pendent sprinklers are standard coverage standard-response sprinklers that utilize a robust center strut, solder in compression thermal element. 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 GXLO sprinkler is FM Approved as a standard response storage and non-storage sprinkler when used in accordance with FM Global Property Loss Prevention Data Sheets.

For new installations, the sprinkler is provided with either 3/4-inch NPT or ISO 7-R3/4 threads. The upright version is also available with 1/2-inch NPT or ISO 7-R1/2 threads for retrofit installations only. Sprinklers without guards are installed using the Model H wrench.

For use as an intermediate level sprinkler, the Model GXLO 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 GXLO Specifications

Style	Sprinkler Identification Number (SIN)	Listings and Approvals	Sensitivity	K-Factor
Upright Intermediate Upright	R2921	cULus, FM	Standard Response	11.2 (160 metric)
Pendent	R2916	FM		

REF: SRGXLO_082022_REV1

AQL PROTECCION
Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)
Tel. (+34) 936800376 * WhatsApp pedidos: 660781482 * www.aqlproteccion.com * aql@aqlproteccion.com

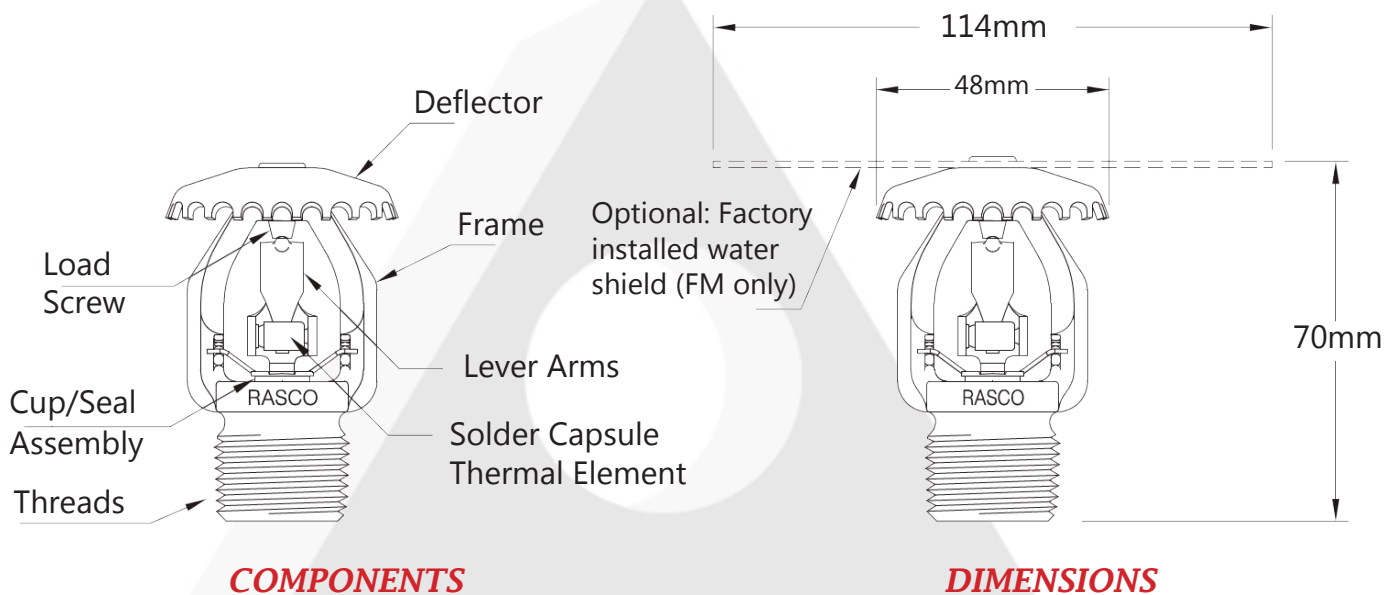
ANBER
Avda. de las Flores, 13-15 P.E. El Molino 28970 Humanes de Madrid, Madrid (España)
Tel. (+34) 916063711 * WhatsApp pedidos: 649787619 * www.anber.es * anber@anber.es

- Technical Specifications:**
Style: Upright, intermediate 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: Solder Capsule.
Sprinkler Frame: Brass Alloy.
Button/Cup: Brass Alloy.
Sealing Assembly: Brass with PTFE.
Load Screw: Bronze.
Deflector: Bronze Alloy.
Levers: Bronze Alloy.
Ejection Spring: Stainless Steel.
- Sprinkler Finishes:**
 See Table C.
- Temperature Ratings:**
 See Table D.
- Listings and Approvals:**
 cULus.
 FM Approved.
- Sensitivity:**
 Standard Response.
- Sprinkler Wrenches:**
 Model H.
 Model JV (with guard installed).
- Guards & Shields:**
 D-6 Guard & Water Shield (cULus).
 D-7 Guard & Water Shield (FM).
 D-8 Guard (FM).
 Water Shield (factory installed; FM).



***Note:** 1/2" NPT and ISO 7-R1/2 threads available for RETROFIT APPLICATIONS ONLY on upright sprinkler. This sprinkler will be identified with a pintle on the deflector. Not available on intermediate upright sprinkler.

Fig. 1 - Model GXLO Upright Components and Dimensions



REF: SRGXLO_082022_REV1

AQL PROTECCION

Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)
 Tel. (+34) 936800376 * WhatsApp pedidos: 660781482 * www.aqlproteccion.com * aql@aqlproteccion.com

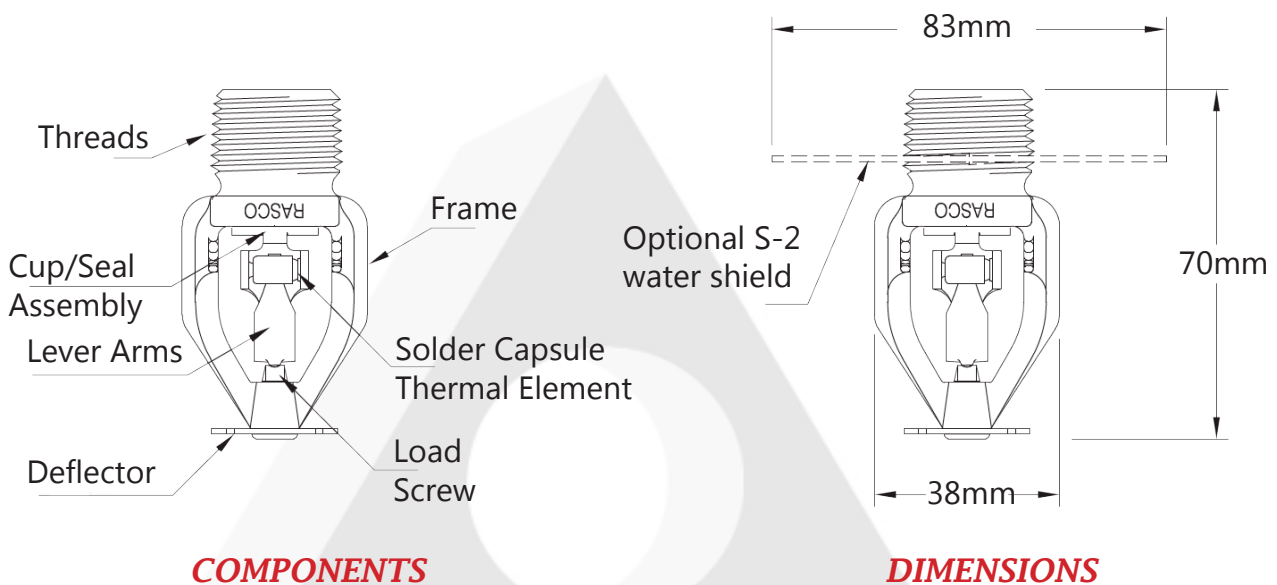
ANBER

Avda. de las Flores, 13-15 P.E. El Molino 28970 Humanes de Madrid, Madrid (España)
 Tel. (+34) 916063711 * WhatsApp pedidos: 649787619 * www.anber.es * anber@anber.es

- 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: Beryllium Nickel Solder Link.
Sprinkler Frame: Brass Alloy.
Button/Cup: Brass Alloy.
Sealing Assembly: Brass Alloy with PTFE.
Load Screw: Bronze.
Deflector: Bronze Alloy.
Levers: Bronze Alloy.
- Sprinkler Finishes:**
 See Table C.
- Temperature Ratings:**
 See Table D.
- Listings and Approvals:**
 FM Approved.
- Sensitivity:**
 Standard Response.
- Sprinkler Wrenches:**
 Model H.
 Model JV (with guard installed).
- Guards & Shields:**
 D-8 Guard (FM).
 D-9 Guard & Water Shield (FM).
 S-2 Water Shield



Fig. 2 - Model GXLO Pendent Components and Dimensions



REF: SRGXLO_082022_REV1

AQL PROTECCION

Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)
 Tel. (+34) 936800376 * WhatsApp pedidos: 660781482 * www.aqlproteccion.com * aql@aqlproteccion.com

ANBER

Avda. de las Flores, 13-15 P.E. El Molino 28970 Humanes de Madrid, Madrid (España)
 Tel. (+34) 916063711 * WhatsApp pedidos: 649787619 * www.anber.es * anber@anber.es

TABLE B: Model GXLO Commodity Selection and Design Criteria Overview

Storage Type	NFPA	FM GLOBAL
Sprinkler Type	CMDA	Storage
Response Type	SR	SR
System Type	Pendent - Wet Upright - Wet, Dry, Preaction	Pendent - Wet Upright - Wet, Dry, Preaction
Temperature Rating °F (°C)	165, 212, 286 (74, 100, 141)	165, 212, 286 (74, 100, 141)
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 30	See FM 7-29 and 8-9
Aerosol Storage	See NFPA 13	See FM 7-31
Auto Components in Portable Racks	N/A	See FM 2-0 and 8-9

TABLE C: Sprinkler Finishes

Upright (R2921)	Pendent (R2916)
Bronze	Bronze
Chrome ⁽¹⁾	
Lead ⁽¹⁾⁽²⁾	
Wax ⁽¹⁾⁽²⁾⁽³⁾	
Wax over Lead ⁽¹⁾⁽²⁾⁽³⁾	

Notes:

- (1) Not available with factory attached water shield.
- (2) cULus listed as corrosion resistant.
- (3) Clear wax used on ordinary temperature rated sprinklers. Brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).

REF: SRGXLO_082022_REV1

AQL PROTECCION

Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)
 Tel. (+34) 936800376 * WhatsApp pedidos: 660781482 * www.aqlproteccion.com * aql@aqlproteccion.com

ANBER

Avda. de las Flores, 13-15 P.E. El Molino 28970 Humanes de Madrid, Madrid (España)
 Tel. (+34) 916063711 * WhatsApp pedidos: 649787619 * www.anber.es * anber@anber.es

TABLE D: Temperature Ratings

Classification	Sprinkler Rating		Maximum Ambient		Frame Color
	°F	°C	°F	°C	
Ordinary	165	74	100	38	Uncolored
Intermediate	212	100	150	66	White
High	286	141	225	107	Blue

INSTALLATION

Model GXLO sprinklers must be installed according to appropriate NFPA Standards, FM Global Loss Prevention Data Sheets, and/or the requirements of 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.

A leak tight joint should be obtained with a torque of 14 to 20 lb-ft (19 to 27 N·m) for 3/4" NPT and ISO 7-R3/4 thread sprinklers. For 1/2" NPT and ISO 7-R1/2 thread sprinklers the recommended installation torque is 8 to 18 lb-ft (11 to 24 N·m). Exceeding the maximum recommended torque may cause leakage or impairment of the sprinklers.

MAINTENANCE

Reliable Model GXLO 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



REF: SRGXLO_082022_REV1

AQL PROTECCION

Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)
Tel. (+34) 936800376 * WhatsApp pedidos: 660781482 * www.aqlproteccion.com * aql@aqlproteccion.com

ANBER

Avda. de las Flores, 13-15 P.E. El Molino 28970 Humanes de Madrid, Madrid (España)
Tel. (+34) 916063711 * WhatsApp pedidos: 649787619 * www.anber.es * anber@anber.es

GUARANTEE

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

ORDERING INFORMATION

Specify the following when ordering:

- **Model GXLO Sprinkler:**
 - Upright
 - Intermediate Upright
 - Pendent
- **Threads:**
 - 3/4" NPT
 - ISO 7-R3/4
 - 1/2" NPT (Retrofit installations only, upright only)
 - ISO 7-R1/2 (Retrofit installations only, upright only)
- **Temperature Rating:**
 - 165°F (74°C).
 - 212°F (100°C).
 - 286°F (141°C).
- **Finish:**
 - See Table C.
- **Guard/Shield:**
 - See Technical Specifications.
- **Sprinkler Wrench:**
 - Model H.
 - Model JV (required with pre-installed guards).

REF: SRGXLO_082022_REV1

AQL PROTECCION

Carretera N-340 Km 1245, 3 Nave B-5 Polígono industrial El Pla 08750 Molins de Rei, Barcelona (España)
Tel. (+34) 936800376 * WhatsApp pedidos: 660781482 * www.aqlproteccion.com * aql@aqlproteccion.com

ANBER

Avda. de las Flores, 13-15 P.E. El Molino 28970 Humanes de Madrid, Madrid (España)
Tel. (+34) 916063711 * WhatsApp pedidos: 649787619 * www.anber.es * anber@anber.es