

SERIES GL-QR/INCH®/ELOC EXTENDED COVERAGE, QUICK RESPONSE LIGHT HAZARD CONCEALED SPRINKLER K-FACTOR 11.2

GENERAL DESCRIPTION

The Globe Series GL-QR/INCH/ELOC sprinkler is a Listed Quick Response Extended Coverage Light Hazard sprinkler which utilizes a 3mm frangible glass bulb as the thermosensitive operating element. It features a flat Cover Plate Assembly that conceals the sprinkler operating elements above the ceiling. It is Listed as an Extended Coverage sprinkler and is to be installed in accordance with the guidelines of the appropriate Installation Standard being mandated by the AHJ (i.e. NFPA 13). This sprinkler is available with a nominal K-Factor of 11.2 (161,4) and 3/4" npt threads as well as in various temperatures and finishes as shown.

OPERATION

The soldered cover plate drops off the retainer assembly when exposed to heat, as from a fire, that has reached the plate's Listed temperature rating, exposing the sprinkler above. Upon the releasing of the cover plate, the deflector, which is connected to two guide pins, drops down below the ceiling into its intended position. As heat encompasses the glass bulb operating element of the sprinkler, the fluid in the bulb expands, compressing the air bubble within the bulb. When the air bubble can no longer compress, the fluid expansion causes breakage of the glass bulb, resulting in release of the water seat assembly, and discharge of water from the sprinkler.

INSTALLATION

Caution:

Do not install any bulb-type sprinkler if the bulb is cracked or there is loss of liquid from the bulb. Sprinklers should be tightened enough to obtain a leak-tight joint when water pressure is applied and/or hydrostatic test is performed. Sprinklers should not be over-tightened as this can result in distortion and subsequent leakage. It is recommended not to exceed 20 ft.-lb. (26.8 Nm) torque for 3/4 inch NPT threads.

- Step1.** Sprinklers must be properly oriented.
Step2. With pipe thread sealant applied to the pipe threads, hand tighten the sprinkler into the sprinkler fitting. *Note: Do not grasp the sprinkler by the deflector.*
Step3. Wrench-tighten the sprinkler using only the appropriate wrench. Wrenches are only to be applied to the sprinkler wrench flats or wrench hex as applicable. *Note: Do not apply wrench to frame arms.*

TECHNICAL DATA

SIN

- GL1106

Approvals

- cULus - Light Hazard

Maximum Working Pressure

- 175 psi (12 bar)
- Factory tested to 500 psi (34 bar)

Minimum Operating Pressure

- See TABLE A.

Minimum Spacing

- 9 ft.

Temperature Rating

- 135°F (57°C) Sprinkler/ 135°F (57°C) Plate
- 155°F (68°C) Sprinkler/ 135°F (57°C) Plate
- 175°F (79°C) Sprinkler/ 155°F (68°C) Plate
- 200°F (93°C) Sprinkler/ 155°F (68°C) Plate

Materials of Construction

- Frame - bronze • Deflector - brass • Screw - brass
- Lodgement Wire - stainless steel • Bulb seat - copper
- Spring - nickel alloy • Seal - teflon
- Bulb - glass with alcohol based solution, 3mm
- Escutcheon Assembly - steel

FINISHES AND ACCESSORIES

Sprinkler Frame

- Factory Bronze

Cover Plate

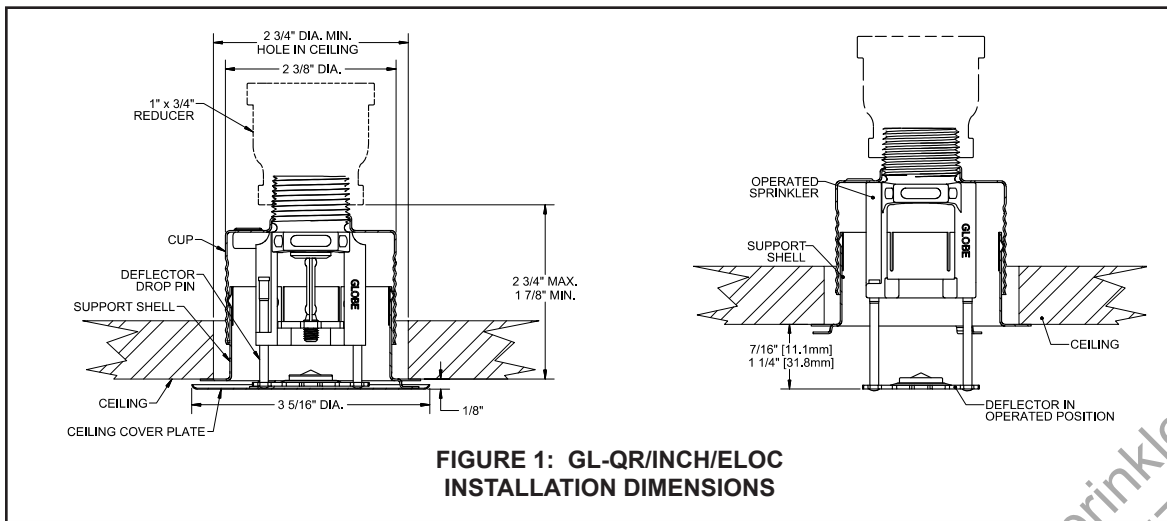
- Chrome • White Polyester • Black Polyester
- For custom colors, contact Globe Customer Service

Wrench

- 337014

Note:

Users should refer to Globe's web site (www.globesprinkler.com) to ensure that the most recent technical literature is being utilized.



**FIGURE 1: GL-QR/INCH/ELOC
INSTALLATION DIMENSIONS**

TABLE A: HYDRAULIC DESIGN AREA

RESPONSE RATING	SPACING ft. (m)	MINIMUM FLOW gpm (lpm)	MINIMUM PRESSURE psi (bar)	TEMPERATURE RATING
QUICK	16 x 16 (4.9 x 4.9)	30.0 (113.6)	7.2 (0.50)	135°F, 155°F, 175°F, 200°F (57°C, 68°C, 79°C, 93°C)
QUICK	18 x 18 (5.5 x 5.5)	33.0 (125)	8.7 (0.60)	135°F, 155°F, 175°F, 200°F (57°C, 68°C, 79°C, 93°C)
QUICK	20 x 20 (6.1 x 6.1)	40.0 (151.4)	12.8 (0.88)	135°F, 155°F, 175°F, 200°F (57°C, 68°C, 79°C, 93°C)

ORDERING INFORMATION

SPECIFY

- SPRINKLER
 - Quantity • SIN • Temperature Rating • Finish • Part Number
- WRENCH
 - Quantity • Part Number 337014

**GL1106 ELOC
SPRINKLERS**

	PART NUMBER
135°F (57°C)	110613501
155°F (68°C)	110615501
175°F (79°C)	110617501
200°F (93°C)	110620001

COVER PLATES

135°F (57°C) Chrome	332891
155°F (68°C) Chrome	332897
135°F (57°C) White	332892
155°F (68°C) White	332898
135°F (57°C) Black	332892-B
155°F (68°C) Black	332898-B
Custom	Contact Customer Services

- PROTECTIVE CAP
 - Quantity • Part Number 332871

GLOBE® PRODUCT WARRANTY

Globe agrees to repair or replace any of its manufactured products found to be defective in material or workmanship for a period of one year from date of shipment.

For specific details of our warranty please refer to Price List Terms and Conditions of Sale (Our Price List).

CARE AND MAINTENANCE

Prior to installation, it is important to read and follow the “Sprinkler Caution” sheet (GFS-840) included within each box of sprinklers. This sheet is available on Globe’s web site (www.globesprinkler.com).

Store sprinklers in a cool, dry place. Exposure to extreme heat will damage the thermal sensing element, possibly resulting in premature activation. Avoid direct sunlight.

Replace any sprinkler that shows any corrosion, damage, or loss of liquid from the glass bulb.

Do not attempt to paint or alter the sprinkler’s coating in any manner after leaving the manufacturing plant.

Do not attach wiring, ropes, decorations or fixtures to a sprinkler.

Absence of an escutcheon, used to cover a ceiling hole, may delay sprinkler operation in a fire situation.

It is the owner’s responsibility for inspection, testing and maintenance of the fire sprinkler system with all components and devices in accordance with the National Fire Protection Association Pamphlet 25 as well as any other requirements as set forth by the local Authority Having Jurisdiction (AHJ).

