

SERIES GL-QR/INCH (LPCB/CE) STANDARD COVERAGE, QUICK RESPONSE THE INCH® CONCEALED PENDENT SPRINKLER K-FACTOR 5.6

GENERAL DESCRIPTION

Globe Series GL-QR sprinklers are Listed Quick Response sprinklers which utilize a 3mm frangible glass bulb as the thermosensitive operating element. They are Listed and Approved as Standard Coverage sprinklers and are to be installed in accordance with the guidelines of the appropriate Installation Standard being mandated by the AHJ (i.e. NFPA 13).

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

NOTICE

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 overtightened as this can result in distortion and subsequent leakage. It is recommended not to exceed 14 ft.-lb. (19.0 Nm) torque for 1/2 inch NPT sprinkler 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.*



84mm DIAMETER
COVER PLATE



70mm DIAMETER
COVER PLATE

TECHNICAL DATA

S/N

- GL5607

Approvals

- LPCB Ref. No. 147c/06 • CE

Maximum Working Pressure

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

Minimum Operating Pressure

- 7 psi (48 kPa)

Temperature Ratings

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

Materials of Construction

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

FINISHES AND ACCESSORIES

Flat Plate Finishes

- Chrome • White Painted
- Other finishes - *special order*

NOTE:

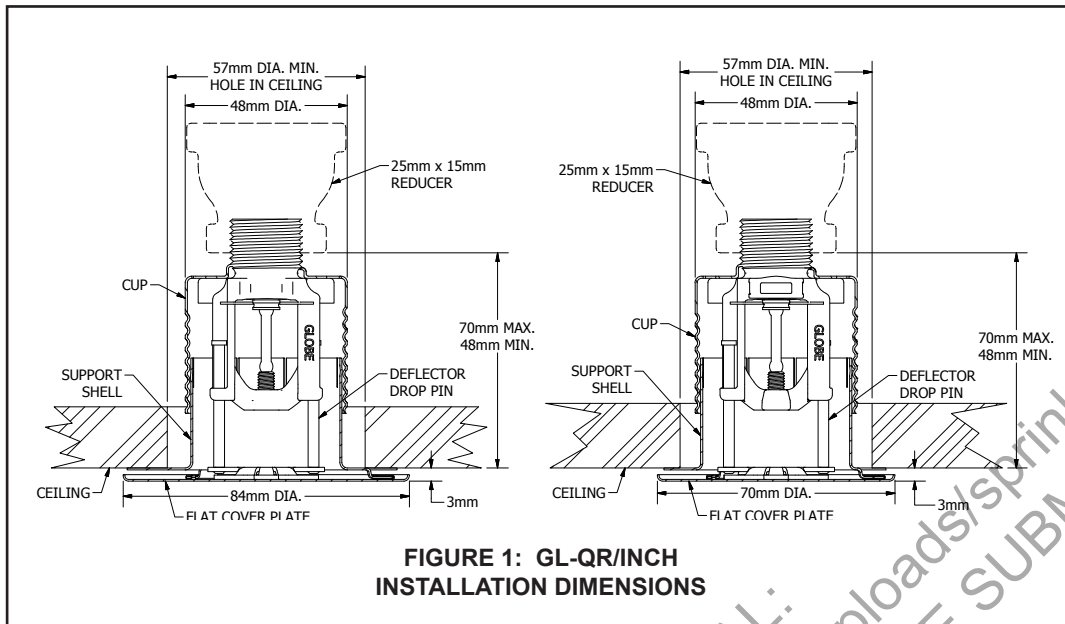
Factory painted cover plates must not be repainted. Non-factory applied paint may adversely delay or prevent sprinkler operation in the event of a fire.

Wrench

- P/N 332765

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
INSTALLATION DIMENSIONS**

TABLE A: COVER PLATE PART NUMBERS

FLAT COVER PLATE SIZES	WHITE 135°F (57°C) PART #	WHITE 155°F (68°C) PART #	CHROME 135°F (57°C) PART #	CHROME 155°F (68°C) PART #
2 3/4" DIA.	332726	332731	332724	332729
3 5/16" DIA.	332706	332711	332704	332709
4 1/2" DIA (SEISMIC)	332828	332822	332821	332827

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).

ORDERING INFORMATION

SPECIFY

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

GL5607

SPRINKLERS	PART NUMBER
135°F (57°C)	560713501
155°F (68°C)	560715501
175°F (79°C)	560717501
200°F (93°C)	560720001

COVER PLATES

SEE TABLE A

- WRENCH
 - Quantity • Part Number: 332765
- PROTECTIVE CAP
 - Quantity • Part Number: 332695

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).

