

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

### GENERAL DESCRIPTION

Globe Series GL-SR sprinklers are Listed Standard Response sprinklers which utilize a 5mm 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).



84mm DIAMETER  
COVER PLATE



70mm DIAMETER  
COVER PLATE

### 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.*

### TECHNICAL DATA

#### S/N

- GL5658

#### 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 glycerin based solution, 5mm
- Escutcheon Assembly - carbon steel
- Cover Plate - brass

### FINISHES AND ACCESSORIES

#### Flat Plate Finishes

- Chrome • White Painted
- Other finishes - special order

#### NOTE:

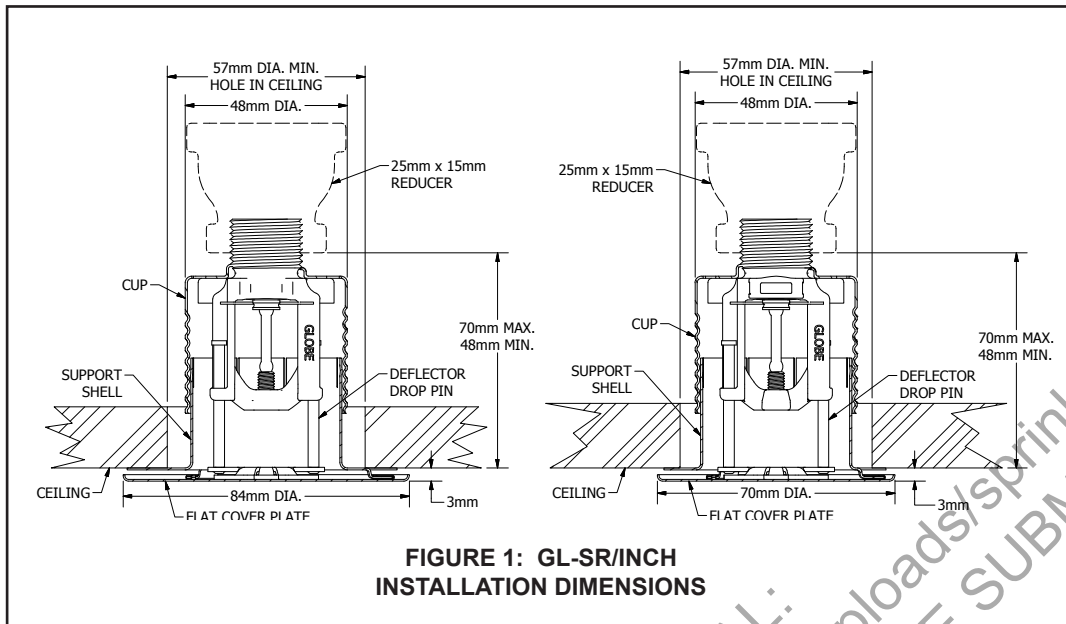
Factory painted cover plates must not be repainted. Non-factory applied paint may adversely delay or prevent sprinkler operation in the event of a fire.

#### Wrench

- P/N 332765

#### NOTE:

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



**FIGURE 1: GL-SR/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 #
(70mm) 2 3/4" DIA.	NA	332731	NA	332729
(84mm) 3 5/16" DIA.	332706	NA	332704	NA

## 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](http://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

### GL5658

SPRINKLERS	PART NUMBER
155°F (68°C) . . . . .	565815501
175°F (79°C) . . . . .	565817501
200°F (93°C) . . . . .	565820001

### 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).

