

SERIES GL-SR/DC STANDARD COVERAGE. STANDARD RESPONSE ESUBNIT ALS DOMED CONCEALED PENDENT SPRINKLER K-FACTOR: 2.8, 4.2, 5.6, 8.0

GENERAL DESCRIPTION

The Globe Series GL-SR/DC sprinklers are listed Standard Response domed concealed 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 guideline of the appropriate Installation Standard being mandated by the AHJ (i.e. NFPA 13). While providing additional aesthetic appeal from that of a semi-recessed sprinkler, the GL-SR/DC additionally provides a 1/2" of total adjustment. The sprinkler is available in five temperatures and the domed cover plate is available in two temperatures. An optional protective cap (P/N 327119) can be ordered to prevent ceiling installation damage to the sprinkler. The protective cap is removed and the cover plate is installed when the system is ready for service. See "Installation" steps within this document.

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. As heat encompasses the glass bulb operating element of the sprinkler, the fluid in the bub 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.

FINISHES AND ACCESSORIES

Sprinkler Finish

Factory Bronze

Dome Cover Plates

 Chrome • White Painted • Black Painted • Custom 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.

Wrenches

- 1/2" NPT Recessed/Concealed
- 3/4" NPT Recessed/Concealed

TECHNICAL DATA

SIN

GL2856, GL4256, GL5656, GL8173

Approvals

- CULus Listed
- Maximum Working Pressure
- 175 psi (12 bar)
- Factory tested to 500 psi (34 bar)
- Minimum Operating Pressure
- 7 psi (48 kPa)
- Temperature Ratings
- See Table A for Temperature combinations
- Materials of Construction
- Frame bronze Deflector brass Screw brass

ALSUDIOSOE

- Bulb seat copper
- Spring nickel alloy Seal teflon
- · Bulb glass with alcohol based solution, 3mm
- · Cover Plate Brass
- Upper Escutcheon Assembly carbon steel

NOTE:

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

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; 20 ft.-lb. (26.8 Nm) to 3/4 inch NPT threads.

- **Step 1.** Install pendent sprinklers in the pendent position, with the centerline of the sprinkler perpendicular to the mounting surface.
- Step 2. Remove the Protective Cap.
- Step 3. With pipe-thread sealant applied to the pipe threads, and using the Concealed Sprinkler Wrench P/N 325391 or P/N 325401 (FIGURE 2), install and tighten the Sprinkler/Concealed Cup Assembly into the fitting.
- **Step 4.** Replace the Protective Cap by pushing it upwards until it bottoms out against the Support Cup. The Protective Cap helps prevent damage to the Deflector and Drop Pins during ceiling installation and/or during application of the finish coating of the ceiling. *NOTICE:*

The system is considered Out of Service when the protective caps are in place.

- **Step 5.** After the ceiling has been completed with the 2-1/2" (63.2mm) diameter hole, remove and discard the Protective Cap and verify that the Deflector has not been damaged. If the sprinkler has been damaged , replace the entire sprinkler assembly. Do not attempt to modify or repair.
- **Step 6.** Thread on the Cover Plate Assembly until its flange contacts the ceiling Never attempt to screw on the Cover Plate Assembly such that it lifts a ceiling panel out of its normal position. If the Cover Plate Assembly cannot be engaged with the Mounting Cup or the Cover Plate Assembly cannot be engaged sufficiently to contact the ceiling, the Sprinkler Fitting must be repositioned.

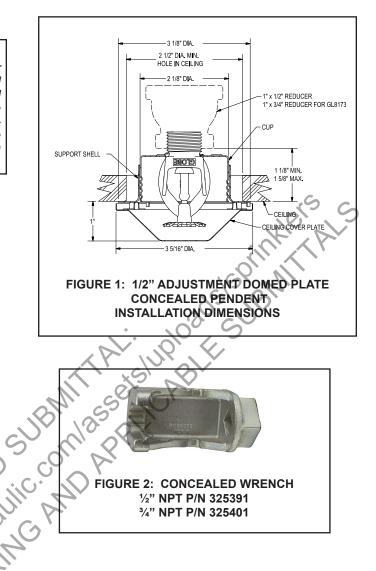


TABLE A: cULus LISTING

SIN	GL2	856	GL4	256	GL	656	GL8173				
K-FACTOR	2.8 (40	metric)	4.2 (60	metric)	5.6 (80	metric)	8.0 (115 metric)				
NPT	1/2" (1	5mm)	1/2" (1	l5mm)	1/2" (1	5mm)	3/4" (20mm)				
COVER PLATE	135°F (57°C)	155°F (68°C)	135°F (57°C)	155°F (68°C)	135°F (57°C)	155°F (68°C)	155°F (68°C)				
SPRINKLER TEMPERATURE	135°F (57°C) 155°F (68°C)	155°F (68°C) 175°F (79°C) 200°F (93°C)	135°F (57°C) 155°F (68°C)	155°F (68°C) 175°F (79°C) 200°F (93°C)	135°F (57°C) 155°F (68°C)	155°F (68°C) 175°F (79°C) 200°F (93°C)	155°F (68°C) 175°F (79°C) 200°F (93°C)				

TABLE B: DOMED COVER PLATE PART NUMBERS

DOMED COVER	WHITE	CHROME	WHITE	CHROME	BLACK	BLACK	CUSTOM	CUSTOM
PLATE SIZE	135°F (57°C)	135°F (57°C)	155°F (68°C)	155°F (68°C)	135°F (57°C)	155°F (68°C)	135°F (57°C)	155°F (68°C)
3-1/4" DIA.	326048	326046	326053	326051	326048-B	326053-B	326049	

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 or cover plate 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 CENTRE INNOF as set forth by the local Authority Having Jurisdiction (AHJ).

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).

ORDERING INFORMATION

SPECIFY

- SPRINKLER
- Quantity SIN Temperature Rating Finish Part

GL2846	
SPRINKLERS	PART NUMBER
135°F (57°C)	. 285613501
155°F (68°C)	. 285615501
175°F (79°C)	. 285617501
200°F (93°C)	. 285620001
GL4245	
SPRINKLERS	PART NUMBER
135°F (57°C)	. 425613501
155°F (68°C).	. 425615501
175°F (79°C)	. 425617501
200°F (93°C)	. 425620001
GL5645	
SPRINKLERS	PART NUMBER
135°F (57°C)	. 565613501
155°F (68°C)	. 565615501
175°F (79°C)	. 565617501
200°F (93°C)	. 565620001
GL8145	
SPRINKLERS	PART NUMBER

135°F (5	7°C).										817313501	
155°F (6	8°C).										817315501	
175°F (79	9°C).										817317501	
200°F (93	3°C).										817320001	

COVER PLATES

SEE TABLE B

WRENCH

Quantity • Part Number																		
1/2" NPT																		325391
3/4" NPT																		325401

PROTECTIVE CAP

Quantity • Part Number 327119

