



Fire Safety

Worldwide
Contacts

www.gsfiresafety.com

CONCEALED — 8.0 K-factor Extra Large Orifice Concealed Pendent Sprinklers @uick & Standard Response, Standard Coverage

General Description

The GS Fire Safety Concealed Sprinkler 8.0 K-factor.

The GSC289 concealed sprinkler is divided into two types: quick response (3mm glass bulb) and special response (5mm glass bulb). This sprinkler features a flat concealed cover, making it aesthetically pleasing and the best choice for architecturally sensitive or decorative areas. It is used in automatic fire extinguishing systems and can adjust the cover height according to the ceiling height. Installation locations include hotels, offices, schools, and shops.

The concealed fire sprinkler consists of the sprinkler, installation seat, outer cover, and inner cover. The sprinkler and installation seat are installed on the pipeline and together with the outer cover. The outer and inner covers are connected by a fusible alloy. When a fire occurs, the temperature rises, and the fusible alloy reaches its melting point, causing the outer cover to automatically fall off. The glass bulb in the sprinkler breaks due to the temperature increase, thereby activating the sprinkler to spray water.

As an option, the CONCEALED pendent sprinklers may be fitted with a silicone air and dust seal as shown in Figure 4. The air and dust seal is intended for sensitive areas where it is desirable to stop air and dust travel through the cover plate from the area above the ceiling.



NOTICE

The GS CONCEALED Concealed Pendent Sprinklers described herein must be installed and maintained in compliance with this document and with the applicable standards of the National Fire Protection Association (NFPA), in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Sprinkler



Fire Safety

CONCEALED — 8.0 K-factor Extra Large Orifice Concealed Pendent Sprinklers Quick & Standard Response, Standard Coverage

Technical Data

Maximum Working Pressure

175 psi (12,1 bar)

Test Pressure

30 psi (30,1 bar)

Discharge Coefficient

$K = 11.2 \text{ GPM/psi}^{1/2} (161,3 \text{ LPM/bar}^{1/2})$

Temperature Ratings

155°F (68°C) Sprinkler; 165°F (74°C) Plate

Adjustment

3/4" NPT or BSPT.

Finishes

Cover Plate: Refer to Ordering Procedure section

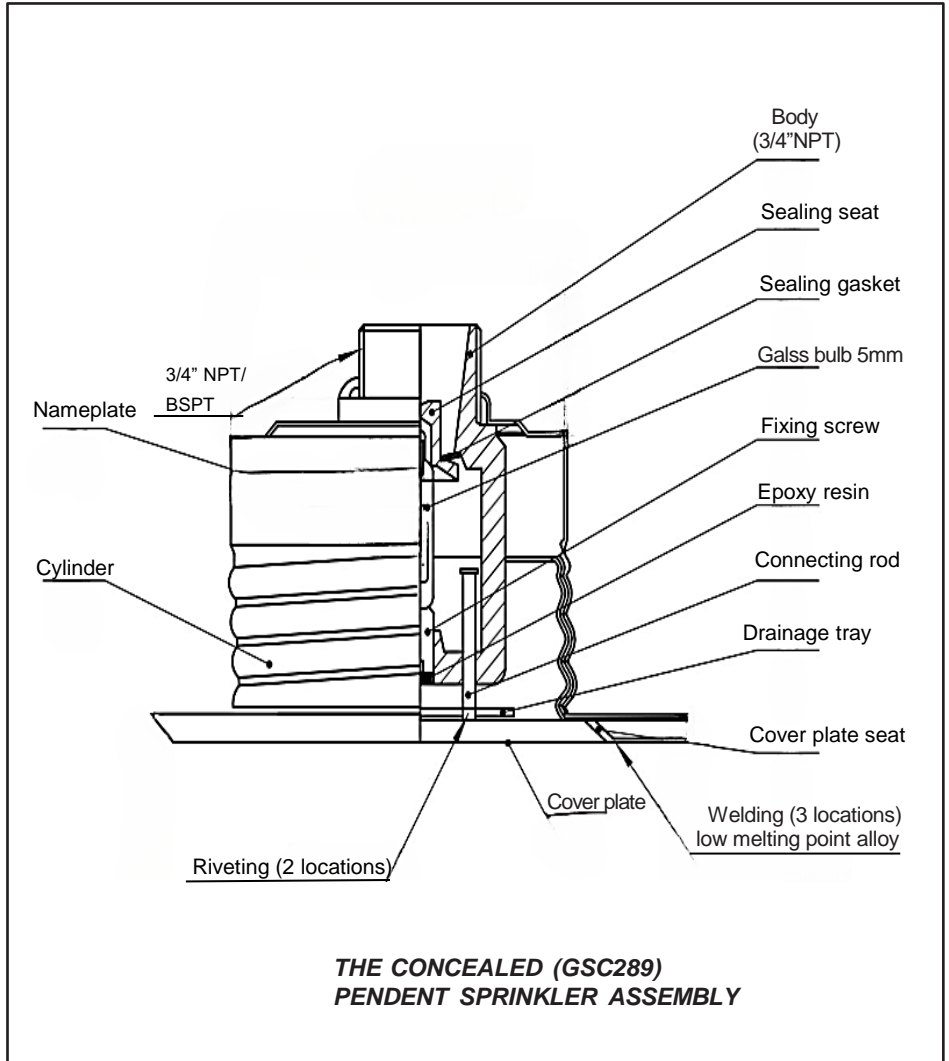
Physical Characteristics

- 1/ Body Brass
- 2/ Sealing seat Brass
- 3/ Glass bulb JOB, Q5, 68°C
- 4/ Sealing gasket Rubber
- 5/ Fixing screw Bronze/Brass
- 6/ Epoxy resin Epoxy
- 7/ Connecting rod Plated Steel
- 8/ Drainage tray Brass
- 9/ Cover plate seat Brass
- 10/ Cover plate Brass
- 11/ Cylinder Carbon Steel
- 12/ Nameplate Self-adhesive

Operation

When exposed to heat from a fire, the cover plate, soldered to the retainer at three points, falls away to expose the sprinkler assembly. At this point the deflector supported by the guide pins drops down to its operational position.

When the rated temperature of the solder link element is reached, the link element separates, allowing the sprinkler to activate and flow water.



Installation

The GS Fire Safety Concealed , 8.0 K-factor, Extra Large Orifice Concealed Pendent Sprinklers must be installed in accordance with this section.

General Instructions

A 3/4 in. NPT sprinkler joint should be obtained with a minimum to maximum torque of 10 ft-lb to 20 ft-lb (13,4 N·m to 26,8 N·m). Higher levels of torque may distort the sprinkler inlet with consequent leakage or impairment of the sprinkler.