

Model GS251/ GS252, 5.6 K-factor Upright/ Pendent Sprinklers Standard response.

General Description

GS Upright/ Pendent sprinklers are designed for use in light and ordinary hazards. The temperature response is standard response (5mm glass bulb) and quick response (3mm glass bulb). The sprinklers come with compact design, glass bulb type, available in several different finishes and temperature ratings. The pendent sprinklers must be installed in pendent position, and upright sprinklers are to be installed in the upright position.

Pendent Recessed Sprinklers are installed with adjustable or non-adjustable Escutcheon plates. These are intended to be installed with finished ceilings. Escutcheon plate adjustment provides convenience in Pendent Sprinkler installation in case of areas with finished ceilings or walls.

NOTICE

The GS Model GS251/ GS252 Sprinklers described herein must be installed and maintained in compliance with this document, as well as 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.

In all cases, the appropriate NFPA installation standard, or other applicable standard, must be referenced to ensure applicability and to obtain complete installation guidelines. The general guidelines in this technical data sheet are not intended to provide complete installation criteria.



Sprinkler Identification

Frame	Brass
Deflector	Brass
Compression Screw	Brass
Plug	Brass
Bulb (5 mm)	Glass
Sealing Assembly ..	Rubber

Operation

The glass bulb contains a fluid which expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass bulb, allowing the sprinkler to activate and water to flow.

Fire Safety

Components:

- 1- Frame
- 2- Deflector*
- 3- Compression Screw
- 4- Bulb
- 5- Plug
- 6- Sealing Assembly

* Temperature rating is indicated on Deflector.

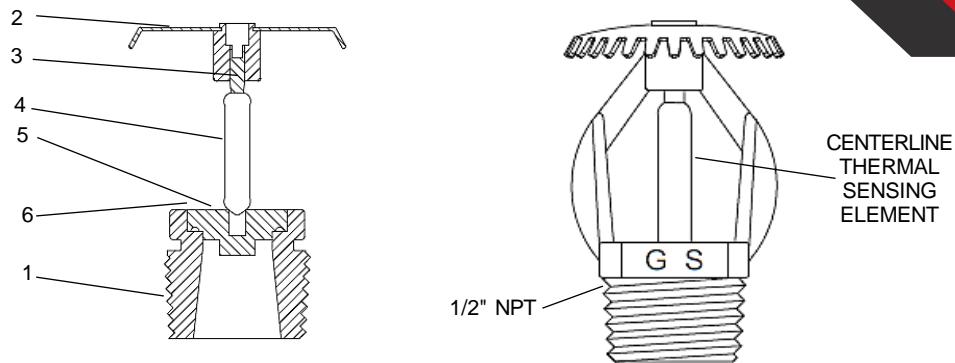


FIGURE 1
MODEL GS251, 5.6 K-FACTOR, UPRIGHT SPRINKLER STANDARD RESPONSE

Components:

- 1- Frame
- 2- Deflector*
- 3- Compression Screw
- 4- Bulb
- 5- Plug
- 6- Sealing Assembly

* Temperature rating is indicated on Deflector.

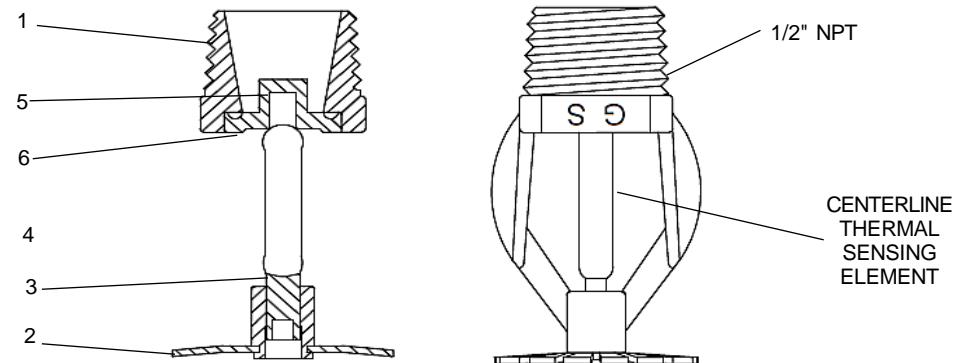


FIGURE 2
MODEL GS252, 5.6 K-FACTOR, PENDENT SPRINKLER STANDARD RESPONSE

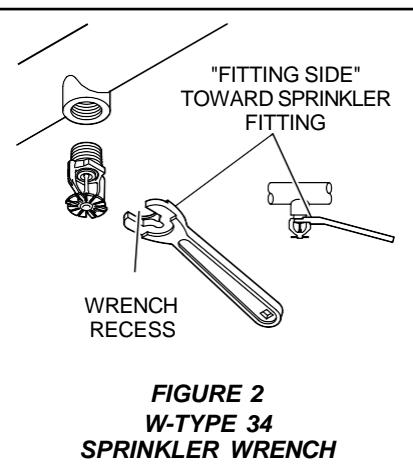


FIGURE 2
W-TYPE 34
SPRINKLER WRENCH

Item	Description
Sprinkler Identification	GS251/ GS252
K-factor, gpm/psi ^{1/2} (Lpm/bar ^{1/2})	5.6 (80 L/min/bar ^{0.5})
Temperature Rating °F (°C)	57°C (135°F), 68°C (155°F), 79°C (175°F), 93°C (200°F), 141°C (286°F), 182°C (360°F)
Thread Size	1/2 in. NPT
Sprinkler Orientation	Upright/ Pendent
Working Pressure, psi (bar)	175 psi (12 bar)

TECHNICAL DATA

Installation

- **Upright Sprinklers (GS251):** Install with the frame arms parallel to the branch line.
- **Pendent Sprinklers (GS252):** Install with the frame arms perpendicular to the ceiling.
- Use the appropriate sprinkler wrenches to prevent damage during installation.
- Maintain proper clearance from obstructions as per local fire codes and regulations.

Note:

- **Step 1.** With pipe thread sealant applied, hand-tighten the sprinkler into the sprinkler fitting.
- **Step 2.** Wrench-tighten the Model GS251/ GS252 Sprinkler using only the W-Type 34 Sprinkler Wrench as shown in Figure 2, and by fully engaging (seating) the wrench on the sprinkler wrench flats
- **Step 3.** After installation, inspect the bulb of each Model GS251/ GS252 Sprinkler for damage. In particular, verify that the bulb is not cracked. Replace damaged sprinklers.