

**Model GB & GBLO****5.6 & 8.0 K-Factor - Standard Response Standard Coverage**

Upright, Pendent &amp; Recessed Pendent Glass Bulb Automatic Sprinkler

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**Product Description**

The Central Model GB 5.6 K-Factor (1/2 inch orifice) & 8.0 K-Factor (17/32 inch orifice) Standard Response Upright, Pendent & Recessed Pendent Sprinklers are automatic sprinklers of the frangible bulb type. They are standard response - standard orifice spray sprinklers intended for use in fire sprinkler systems designed in accordance with the standard installation rules recognized by the applicable listing or Approval agency (e.g., UL listing is based on NFPA 13 requirements). The Pendent, Recessed Pendent & Upright Sprinklers all produce a hemispherical water distribution pattern below the deflector.

The recessed version of the Model GB Sprinkler is obtained by utilizing the Model GB Pendent Sprinkler in combination with the Model GB Recessed Escutcheon Assembly. The recessed version of the Model GBLO Sprinkler is obtained by utilizing the Model GBLO Pendent Sprinkler in combination with the Model ELO Recessed Escutcheon Assembly. The Recessed Escutcheons have a separable two-piece design which allows installation of the sprinklers and pressure testing of the fire protection system, prior to ceiling construction and/or application of a finish coat to the ceiling. They also permit refinishing of a ceiling surface without having to first shut down the fire protection system and remove the sprinklers.

**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, which then allows the sprinkler to activate and flow water.

**WARNINGS**

*The Model GB & GBLO Upright, Pendent & Recessed Pendent Sprinklers described herein must be installed and maintained in compliance with this document, as well as with the appli-*

*cable standards of the National Fire Protection Association, in addition to the standards of any other authorities having jurisdiction. Failure to do so may impair the integrity of these devices.*

*The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted relative to any questions.*

**Technical Data****Sprinkler Identification Number**

SIN C3200 - GB Pend (K=5.6)  
 SIN C3100 - GB UP (K=5.6)  
 SIN C4200 - GBLO Pend (K=8.0)  
 SIN C4100 - GBLO (K=8.0)

**Approvals**

K=5.6 - UL & ULC Listed. FM Approved  
 MEA (466-92-E Vol.III)  
 K=8.0 - UL & C-UL Listed. FM Approved  
 (Refer to the Design Criteria Section)

**Maximum Working Pressure**

175 psi (12.1 bar)

**Pipe Thread Connection**

1/2 inch NPT - GB (K=5.6)  
 3/4 inch NPT - GBLO (K=8.0)

**Discharge Coefficient**

K = 5.6 GPM/psi<sup>1/2</sup> (80.6 LPM/bar<sup>1/2</sup>)  
 K = 8.0 GPM/psi<sup>1/2</sup> (116.8 LPM/bar<sup>1/2</sup>)

**Temperature Ratings**

135°F/57°C, 155°F/68°C, 200°F/93°C,  
 286°F/141°C, 360°F/182°C

**Finishes**

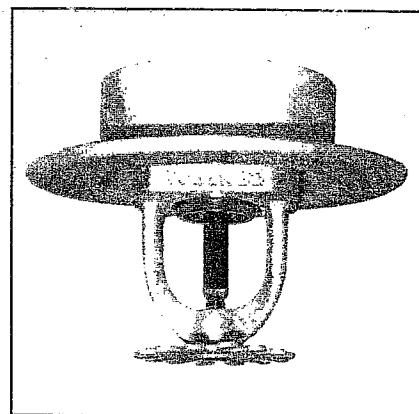
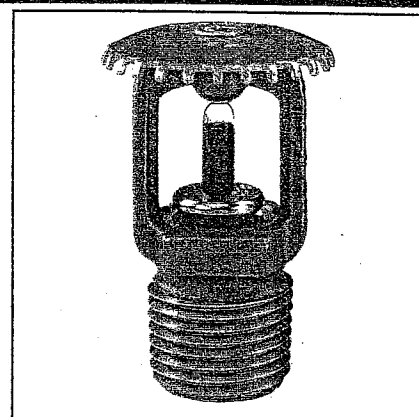
Sprinkler: White Polyester, Chrome Plated, or Natural Brass  
 Recessed Escutcheon: White Coated, Chrome Plated, or Brass Plated

**Corrosion Resistant Coatings**

Sprinkler: White Polyester (UL only)

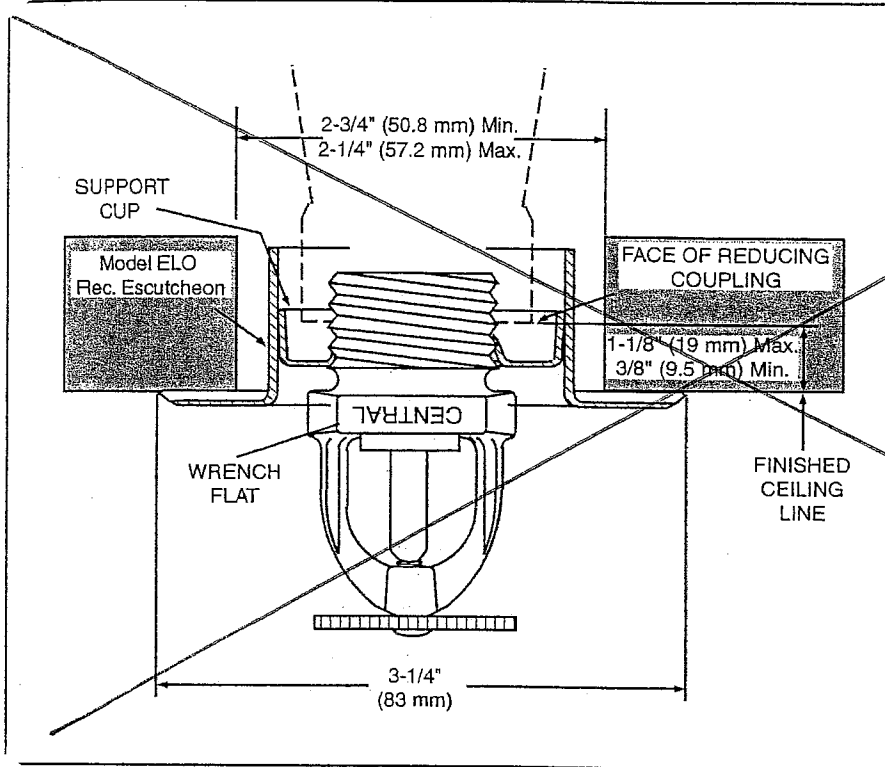
**Head Guard:**

G-3 (Guard) - GB (K=5.6) Up. & Pend.  
 WSG-3 (Guard & Shield) - GB (K=5.6) Up  
 WS-3 (Shield) - GB (K=5.6) Pendent  
 (See Data Sheet 3-13.0 for details)

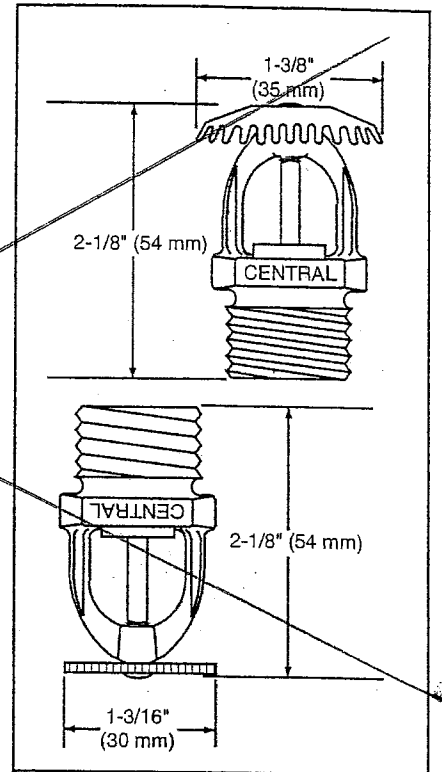
**Standard Spray Upright, Pendent & Rec. Pendent Sprinklers****Physical Characteristics**

The Model GB & GBLO Upright, Pendent & Recessed Pendent Sprinklers utilizes a dezincification resistant (DZR) bronze frame and a 5 mm bulb. The sprinkler frame orifice is sealed with a gasketed spring plate (Belleville Seal) consisting of a beryllium nickel disc spring that is sealed on both its inside and outside edges with a Teflon™ gasket. The compression screw is bronze, and the deflector is brass.

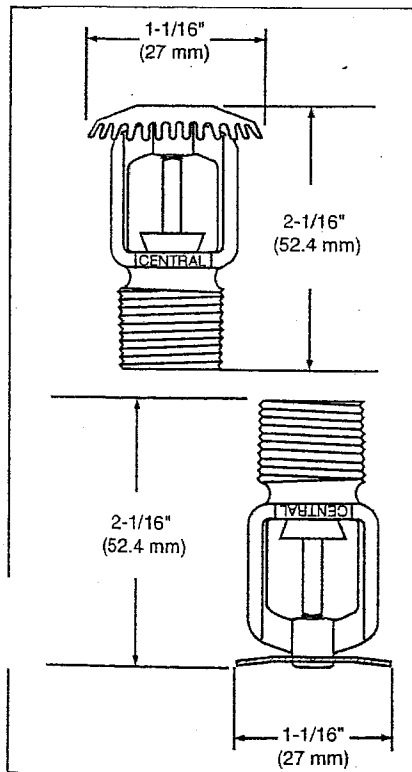
**Figure 1 - GBLO, 8.0 K-Factor  
Recessed Pendant**



**Figure 2 - GBLO, 8.0 K-Factor  
Upright & Pendant**



**Figure 3 - GB, 5.6 K-Factor  
Upright & Pendant**



**Figure 4 - GB, 5.6 K-Factor  
Recessed Pendant**

