Features

- Standard Coverage, Concealed Pendent (K2.8, 4.2, 5.6, & 8.0 [40, 60, 80, & 115 metric])
- Flat concealed cover plate available in a variety of finishes.
- Available with Stainless Steel Clad cover plate (see Table I).
- 3/4-inch (19 mm) cover plate adjustment.
- Cover plate available with optional gasket.

Product Description

Model G5 series sprinklers are standard coverage, flat plate concealed sprinklers designed for installation in accordance with NFPA 13 and FM Global Property Loss Prevention Data Sheets. The sprinklers are offered with a standard Model G4/G5 cover plate, a Model G4/G5 cover plate with a Quick-response (QR) gasket, or a Model G4/G5 cover plate with a Standard-response (SR) gasket. Model G5 sprinklers with a gasketed cover plate are intended for use in dust free environments such as clean rooms. Model G5 sprinklers must only be used with the Model G4/G5 cover plate listed or approved with the sprinkler. All Model G5 series sprinklers use a fusible-link operating element. Table A provides a summary of available Model G5 series sprinklers, along with Listing and Approval information for each sprinkler and cover plate combination.

Model G5 Series Sprinkler Summary

<table>
<thead>
<tr>
<th>Sprinkler Model</th>
<th>K-Factor gpm/psi¹⁄² (L/min/bar¹⁄²)</th>
<th>Cover Plate Model</th>
<th>Listings and Approvals</th>
<th>Sensitivity</th>
<th>Max. Working Pressure psi (bar)</th>
<th>Sprinkler Identification Number (SIN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G5-28</td>
<td>2.8 (40)</td>
<td>G4/G5</td>
<td>cULus</td>
<td>QR</td>
<td>175 (12)</td>
<td>RA3411</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 QR Gasket</td>
<td>cULus</td>
<td>QR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 SR Gasket</td>
<td>cULus, FM</td>
<td>SR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G5-42</td>
<td>4.2 (60)</td>
<td>G5</td>
<td>cULus</td>
<td>QR</td>
<td>175 (12)</td>
<td>RA3413</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 QR Gasket</td>
<td>cULus</td>
<td>QR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 SR Gasket</td>
<td>cULus</td>
<td>SR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G5-56</td>
<td>5.6 (80)</td>
<td>G5</td>
<td>cULus</td>
<td>QR</td>
<td>250 (17)</td>
<td>RA3415</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FM, LPCB, VdS, CE</td>
<td>SR</td>
<td>175 (12)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 QR Gasket</td>
<td>cULus</td>
<td>QR</td>
<td>250 (17)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 SR Gasket</td>
<td>cULus</td>
<td>SR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>FM</td>
<td>SR</td>
<td>175 (12)</td>
<td></td>
</tr>
<tr>
<td>G5-56 300</td>
<td>5.6 (80)</td>
<td>G5</td>
<td>cULus</td>
<td>QR</td>
<td>300 (21)</td>
<td>RA4014</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 QR Gasket</td>
<td>cULus</td>
<td>QR</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 SR Gasket</td>
<td>cULus</td>
<td>SR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G5-80</td>
<td>8.0 (115)</td>
<td>G5</td>
<td>cULus</td>
<td>QR</td>
<td>175 (12)</td>
<td>RA3412</td>
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<td>G4/G5 QR Gasket</td>
<td>cULus</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>G4/G5 SR Gasket</td>
<td>cULus</td>
<td>SR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G5-80F</td>
<td>8.0 (115)</td>
<td>G5</td>
<td>FM</td>
<td>SR</td>
<td>175 (12)</td>
<td>RA3417</td>
</tr>
</tbody>
</table>

Table A

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*www.reliablesprinkler.com*
Model G5-28 Standard Coverage, Concealed Pendent Sprinkler

Technical Specifications
- **Style:** Flat Concealed Pendent
- **Threads:** 1/2" NPT or ISO 7-1 R 1/2
- **Nominal K-Factor:** 2.8 (40 metric)
- **Max. Working Pressure:** 175 psi (12 bar)

Material Specifications
- **Fusible Link:** Beryllium Nickel
- **Sprinkler Body:** Brass Alloy
- **Levers:** Bronze Alloy
- **Yoke:** Brass Alloy
- **Sealing washer:** Nickel with PTFE
- **Load Screw:** Bronze Alloy
- **Towers:** Copper Alloy
- **Pins:** Stainless Steel
- **Deflector:** Bronze Alloy
- **Cup:** Steel

Sprinkler Temperature Ratings
- 165°F (74°C)
- 212°F (100°C)

Sensitivity
(See Table B)

Cover Plates
- Model G4/G5
- Model G4/G5 QR Gasket (cULus only)
- Model G4/G5 SR Gasket

Cover Plate Finishes
(See Table I)

Sprinkler Wrench
- Model W3
- Model FC

Listings and Approvals
- cULus Listed (Light Hazard only)
- FM Approved

Model G5-28 Sprinkler Components and Dimensions

![Model G5-28 Sprinkler Components and Dimensions](image)

Model G5-28 Sprinkler Sensitivity

<table>
<thead>
<tr>
<th>Cover Plate Model</th>
<th>Listing or Approval Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>cULus</td>
</tr>
<tr>
<td>G4/G5</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 QR Gasket</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 SR Gasket</td>
<td>SR</td>
</tr>
</tbody>
</table>

QR: Quick-response
SR: Standard-response
Model G5-42 Standard Coverage, Concealed Pendent Sprinkler

**Technical Specifications**
- **Style:** Flat Concealed Pendent
- **Threads:** 1/2" NPT or ISO 7-1 R1/2
- **Nominal K-Factor:** 4.2 (60 metric)
- **Max. Working Pressure:** 175 psi (12 bar)

**Material Specifications**
- **Fusible Link:** Beryllium Nickel
- **Sprinkler Body:** Brass Alloy
- **Levers:** Bronze Alloy
- **Yoke:** Brass Alloy
- **Sealing washer:** Nickel with PTFE
- **Load Screw:** Bronze Alloy
- **Towers:** Copper Alloy
- **Pins:** Stainless Steel
- **Deflector:** Bronze Alloy
- **Cup:** Steel

**Sprinkler Temperature Ratings**
- 165°F (74°C)
- 212°F (100°C)

**Sensitivity**
(See Table C)

**Cover Plates**
- Model G4/G5
- Model G4/G5 QR Gasket
- Model G4/G5 SR Gasket

**Cover Plate Finishes**
(See Table I)

**Sprinkler Wrench**
- Model W3
- Model FC

**Listings and Approvals**
cULus Listed (Light Hazard only)

---

**Model G5-42 Sprinkler Components and Dimensions Figure 2**

**Model G5-42 Sensitivity Table C**

<table>
<thead>
<tr>
<th>Cover Plate Model</th>
<th>Listing or Approval Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4/G5</td>
<td>cULus QR</td>
</tr>
<tr>
<td>G4/G5 QR Gasket</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 SR Gasket</td>
<td>SR</td>
</tr>
</tbody>
</table>

QR: Quick-response
SR: Standard-response
Model G5-56 Standard Coverage, Concealed Pendent Sprinkler

Technical Specifications
- **Style:** Flat Concealed Pendent
- **Threads:** 1/2” NPT or ISO 7-1 R1/2
- **Nominal K-Factor:** 5.6 (80 metric)
- **Max. Working Pressure:**
  - 175 psi (12 bar)
  - 250 psi (17 bar) (cULus only)

Material Specifications
- **Fusible Link:** Beryllium Nickel
- **Sprinkler Body:** Brass Alloy
- **Levers:** Bronze Alloy
- **Yoke:** Brass Alloy
- **Sealing washer:** Nickel with PTFE
- **Load Screw:** Bronze Alloy
- **Towers:** Copper Alloy
- **Pins:** Stainless Steel
- **Deflector:** Bronze Alloy
- **Cup:** Steel

Sprinkler Temperature Ratings
- 165°F (74°C)
- 212°F (100°C) (cULus, FM, LPCB, CE only)

Sensitivity
- (See Table D)

Cover Plates
- Model G4/G5
- Model G4/G5 QR Gasket (cULus only)
- Model G4/G5 SR Gasket (cULus and FM only)

Cover Plate Finishes
- (See Table I)

Sprinkler Wrench
- Model W3
- Model FC

Listings and Approvals
- cULus Listed (Light & Ordinary Hazard only)
- FM Approved
- LPCB Approved
- VdS Approved [165°F (74°C) only]
- CE Listed

Model G5-56 Sprinkler Components and Dimensions

Model G5-56 Sensitivity

<table>
<thead>
<tr>
<th>Cover Plate Model</th>
<th>Listing or Approval Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>cULus</td>
</tr>
<tr>
<td>G4/G5</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 QR Gasket</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 SR Gasket</td>
<td>SR</td>
</tr>
</tbody>
</table>

QR: Quick-response
SR: Standard-response
**Technical Specifications**
- **Style:** Flat Concealed Pendent
- **Threads:** 1/2” NPT or ISO 7-1 R1/2
- **Nominal K-Factor:** 5.6 (80 metric)
- **Max. Working Pressure:** 300 psi (21 bar)

**Material Specifications**
- **Fusible Link:** Beryllium Nickel
- **Sprinkler Body:** Brass Alloy
- **Levers:** Bronze Alloy
- **Yoke:** Brass Alloy
- **Sealing washer:** Nickel with PTFE
- **Load Screw:** Bronze Alloy
- **Towers:** Copper Alloy
- **Pins:** Stainless Steel
- **Deflector:** Bronze Alloy
- **Cup:** Steel

**Sprinkler Temperature Ratings**
- 165°F (74°C)
- 212°F (100°C)

**Sensitivity**
(See Table E)

**Cover Plates**
- Model G4/G5
- Model G4/G5 QR Gasket
- Model G4/G5 SR Gasket

**Cover Plate Finishes**
(See Table I)

**Sprinkler Wrench**
- Model W3
- Model FC

**Listings and Approvals**
cULus Listed (Light & Ordinary Hazard only)

---

**Model G5-56 300 Sprinkler Components and Dimensions**

**Model G5-56 300 Sensitivity Table E**

<table>
<thead>
<tr>
<th>Cover Plate Model</th>
<th>Listing or Approval Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4/G5</td>
<td>cULus</td>
</tr>
<tr>
<td>G4/G5 QR Gasket</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 SR Gasket</td>
<td>SR</td>
</tr>
</tbody>
</table>

QR: Quick-response
SR: Standard-response
Model G5-80 Standard Coverage, Concealed Pendent Sprinkler

Technical Specifications
- **Style:** Flat Concealed Pendent
- **Threads:** ⅜" NPT or ISO 7-1 R
- **Nominal K-Factor:** 8.0 (115 metric)
- **Max. Working Pressure:** 175 psi (12 bar)

Material Specifications
- **Fusible Link:** Beryllium Nickel
- **Sprinkler Body:** Brass Alloy
- **Levers:** Bronze Alloy
- **Yoke:** Brass Alloy
- **Sealing washer:** Nickel with PTFE
- **Load Screw:** Bronze Alloy
- **Towers:** Copper Alloy
- **Pins:** Stainless Steel
- **Deflector:** Bronze Alloy
- **Cup:** Steel

Sprinkler Temperature Ratings
- 165°F (74°C)
- 212°F (100°C)

Sensitivity
- (See Table F)

Cover Plates
- Model G4/G5
- Model G4/G5 QR Gasket
- Model G4/G5 SR Gasket

Cover Plate Finishes
- (See Table I)

Sprinkler Wrench
- Model W3
- Model FC

Listings and Approvals
- cULus Listed (Light & Ordinary Hazard only)

Model G5-80 Sprinkler Components and Dimensions

Model G5-80 Sensitivity

<table>
<thead>
<tr>
<th>Cover Plate Model</th>
<th>Listing or Approval Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4/G5</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 QR Gasket</td>
<td>QR</td>
</tr>
<tr>
<td>G4/G5 SR Gasket</td>
<td>SR</td>
</tr>
</tbody>
</table>

QR: Quick-response
SR: Standard-response
**Technical Specifications**

- **Style:** Flat Concealed Pendent
- **Threads:** ¾” NPT or ISO 7-1 R¾
- **Nominal K-Factor:** 8.0 (115 metric)
- **Max. Working Pressure:** 175 psi (12 bar)

**Material Specifications**

- **Fusible Link:** Beryllium Nickel
- **Sprinkler Body:** Brass Alloy
- **Levers:** Bronze Alloy
- **Yoke:** Brass Alloy
- **Sealing washer:** Nickel with PTFE
- **Load Screw:** Bronze Alloy
- **Towers:** Copper Alloy
- **Pins:** Stainless Steel
- **Deflector:** Stainless Steel
- **Cup:** Steel

---

**Sprinkler Temperature Ratings**

- 165°F (74°C)
- 212°F (100°C)

**Sensitivity**

- Standard Response

**Cover Plates**

- Model G4/G5
- Model G4/G5 SR Gasket

**Cover Plate Finishes**

(See Table I)

**Sprinkler Wrench**

- Model W3
- Model FC

**Listings and Approvals**

- FM Approved

---

**Model G5-80F Sensitivity**

<table>
<thead>
<tr>
<th>Cover Plate Model</th>
<th>Listing or Approval Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4/G5 SR Gasket</td>
<td>SR</td>
</tr>
<tr>
<td>G4/G5</td>
<td>SR</td>
</tr>
</tbody>
</table>

SR: Standard-response

---

**Model G5-80F Sprinkler Components and Dimensions**

---

**Table G**

---
### Installation Dimensions and Cover Plate Information

<table>
<thead>
<tr>
<th>Cover Plate Model</th>
<th>Cover Plate Diameter Inch (mm)</th>
<th>Recommended Hole Diameter in Ceiling Inch (mm)</th>
<th>Cover Plate Adjustment Inch (mm)</th>
<th>Min. to Max. Face of Fitting to Ceiling(1) Inch (mm)</th>
<th>Min. to Max. Dropped Deflector Distance below Ceiling Inch (mm)</th>
<th>Cover Plate Temperature Rating °F (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G4/G5</td>
<td>3(\frac{3}{16}) (84)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>135°F (57°C)</td>
</tr>
<tr>
<td>G4/G5 QR Gasket(2)</td>
<td>3(\frac{1}{16}) (94)</td>
<td>2(\frac{5}{8}) (67)</td>
<td>(\frac{3}{4}) (19)</td>
<td>1(\frac{1}{2}) to 2(\frac{1}{4}) (38 to 57)</td>
<td>(\frac{1}{4}) to 1 (6 to 25)</td>
<td>or 165°F (74°C)</td>
</tr>
<tr>
<td>G4/G5 SR Gasket(2)</td>
<td>4 (101 mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Notes:
1. Face of fitting to ceiling dimensions are based on nominal thread make up. Verify dimensions based on fitting and thread sealing method prior to installation. A 1/2” x 1/2” brass nipple extension (Reliable P/N 6999991900) is available to assist with replacement of Reliable Model G4A sprinklers.
2. Model G4/G5 QR Gasket and Model G4/G5 SR Gasket cover plates are sold as assembled units including both the cover plate and gasket. Model G4/G5 QR Gasket and Model G4/G5 SR Gasket cover plates and gaskets are not interchangeable.
3. For use with 165°F (74°C) temperature rated sprinklers where the Maximum Ceiling Temperature does not exceed 100°F (38°C).
4. For use with 212°F (100°C) temperature rated sprinklers where the Maximum Ceiling Temperature does not exceed 150°F (66°C).

### Cover Plate Finishes(1)

<table>
<thead>
<tr>
<th>Standard Finishes</th>
<th>Special Application Finishes</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Paint Chrome</td>
<td>Off-White Paint</td>
</tr>
<tr>
<td></td>
<td>Black Paint</td>
</tr>
<tr>
<td>Custom Color Paint – Specify(2)</td>
<td>Raw Brass (Lacquered)</td>
</tr>
<tr>
<td></td>
<td>Bright Brass</td>
</tr>
<tr>
<td></td>
<td>Finished Bronze</td>
</tr>
<tr>
<td></td>
<td>Black Plated</td>
</tr>
<tr>
<td></td>
<td>Satin Chrome</td>
</tr>
<tr>
<td></td>
<td>Stainless Steel Clad(3)</td>
</tr>
</tbody>
</table>

#### Notes:
1. Paint or any other coating applied over the factory finish will void all approvals and warranties. Gaskets for Model G5 QR Gasket and Model G4/G5 SR Gasket cover plates are only available in white.
2. Custom color paint is semi-gloss unless specified otherwise.
3. Stainless steel clad cover plates are Type 316 Stainless Steel on the finished side and C102 Copper Alloy on the back side. Cover plates are not listed or approved as corrosion resistant.

### Listing & Approval Agencies

Individual Model G5 series sprinkler may be listed or approved by the following agencies:
- Underwriters Laboratories, Inc. and UL Canada (cULus)  
  Listing Category: Sprinklers, Automatic and Open  
  Guide Number: VNIV
- FM Approvals (FM)
- Loss Prevention Certification Board (LPCB)
- VdS Schadenverhütung GmbH (VdS)
- EC-Certificate of Conformity 0832-CPD-2062 (CE)

See Table A and the individual sprinkler data sheets in this Bulletin for listings and approvals applicable to each sprinkler.

### Application

Model G5 series sprinklers are standard coverage, flat plate concealed pendent sprinklers. The sprinklers are intended for use in accordance with NFPA 13 and FM Global Property Loss Prevention Data Sheets, as well as the requirements of the applicable approval agencies.

Model G5 series sprinklers are available as either Quick-response (QR) or Standard-response (SR) depending on the approval agency and cover plate selected.

Model G5 series sprinklers use Model G4/G5 flat cover plates. Model G4/G5 QR Gasket and G4/G5 SR Gasket cover plates are available to limit air and dust movement through the ceiling.
Replace any sprinkler or cover plate which has been painted (other than factory applied). Properly installed Model G5 cover plates will have an air gap that is required for proper operation, do not seal the gap or paint the cover plates. Model G5 series sprinklers have holes in the cup that must remain unobstructed.

Replace any sprinkler which has been damaged. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Failure to properly maintain sprinklers may result in inadvertent operation or non-operation during a fire event.

Guarantee
For the Reliable Automatic Sprinkler Co., Inc. guarantee, terms, and conditions, visit www.reliablesprinkler.com.

Patents
Model G5 series sprinklers may be covered by one or more of the following patents:

Ordering Information
Specify the following when ordering.

**Sprinkler**
- Model [G5-28] [G5-42] [G5-56] [G5-56 300] [G5-80] [G5-80F]
- Temperature Rating [165°F (74°C)] [212°F (100°C)]
- Threads [NPT or ISO 7-1]

**Cover Plate**
- Finish (See Table I)

**Sprinkler Wrench**
- Model W3
- Model FC