Model F1FR56 Sprinkler Types
- Standard Spray Upright
- Standard Spray Pendent
- Conventional Upright/Pendent
- Vertical Sidewall
- Horizontal Sidewall

Model F1FR56 Recessed Sprinkler Types
- Standard Spray Pendent
- Horizontal Sidewall

Model F1FR56 Concealed Sprinkler Types
- Standard Spray Pendent

Model F1FR42, F1FRXLH & F1FR28 Sprinkler Types
- Standard Spray Upright
- Standard Spray Pendent

Model F1FR40 Sprinkler Types
- Standard Spray Pendent

Model F1FR42, F1FR40, F1FRXLH & F1FR28 Recessed Sprinkler Types
- Standard Spray Pendent

Model F1FR56LL & F1FR42LL Low Lead Sprinkler Types
- Standard Spray Pendent with less than 0.25% Lead Content

Listing & Approvals
The following organizations provide Listings or Approvals for various Model F1FR series sprinklers. See the Design and Installation table in this Bulletin for information on specific listings and approvals applicable to each sprinkler.
1. Underwriters Laboratories Inc. and Certified for Canada (cULus) in accordance with ANSI/UL199.
2. FM Approvals (FM)
3. Loss Prevention Certification Board (LPCB)
4. VdS Schadenverhütung GmbH (VdS)
5. Underwriters Laboratories Inc. and Underwriters Laboratories of Canada Certified for Health Effects to NSF/ANSI Standard 61 Annex G (ULH)
6. EC Certificate: 0786-CPD-40239 (RA1414), 0786-CPD-40251 (RA1425), 0786-CPD-40252 (RA1475) (EC)

UL Listing Category
- Sprinklers, Automatic & Open (VNI)
- Quick Response Sprinkler

Product Description
Reliable Model F1FR series sprinklers are quick-response automatic sprinklers with a glass bulb thermal element. Model F1FR series sprinklers are Standard Spray sprinklers, with the exception of the Model F1FR56 Conventional sprinkler which is an Old-style/Conventional sprinkler.

The Model F1FR Series automatic sprinklers utilize a 3.0 mm frangible glass bulb. These sprinklers have demonstrated response times in laboratory tests which are five to ten times faster than standard response sprinklers. This quick response enables the Model F1FR Series sprinklers to apply water to a fire faster than standard-response sprinklers of the same temperature rating.

The glass bulb consists of an accurately controlled amount of special fluid hermetically sealed inside a precisely manufactured glass capsule. This glass bulb is specially constructed to provide fast thermal response.
At normal temperatures, the glass bulb contains the fluid in both the liquid and vapor phases. The vapor phase can be seen as a small bubble. As heat is applied, the liquid expands, forcing the bubble smaller and smaller as the liquid pressure increases. Continued heating forces the liquid to push out against the bulb, causing the glass to shatter, opening the waterway and allowing the deflector to distribute the discharging water.

Model F1FR Series sprinklers provide a wide range of options where quick-response, glass bulb sprinklers are used:

- Pendent, recessed pendent, upright, horizontal sidewall, and vertical sidewall deflectors
- K-factors of 2.8 (40 metric), 4.0 (57 metric), 4.2 (60 metric), and 5.6 (80 metric)
- Flush, recessed, and concealed installations

See the Design and Installation Information table in this Bulletin for information on the approvals and availability of specific Model F1FR series sprinkler configurations.

Model F1FR Recessed Pendent and Recessed Horizontal Sidewall sprinklers are required to be used with Reliable Model F1, F2, or FP recessed escutcheons. See the Recessed Escutcheon Data table in this Bulletin for listing and approval information with each specific Model F1FR series sprinkler. Model F1 and F2 recessed escutcheons, shown in Fig. 1 and 3, are a friction fit assembly allowing for 3/4-inch (19mm) and 1/2-inch (12.7mm) of adjustment, respectively. Model FP recessed escutcheons, shown in Fig. 2, provide a 1/2-inch (12.7mm) threaded adjustment.

Model F1FR56 Concealed Pendent and Model F1FR56LL Concealed Pendent sprinklers are required to be used with Model CCP cover plates. A standard profile Model CCP cover plate is available that provides up to 1/2-inch (12.7mm) of cover plate adjustment. In addition, a low profile Model CCP cover plate is also available that provides up to 5/16-inch (8.0mm) of cover plate adjustment. See the Design and Installation Information and Listed and Approved Temperature Ratings tables in this Bulletin for further information on approved cover plate options.

Application

Model F1FR Series sprinklers are intended for use in accordance with NFPA 13, FM Property Loss Prevention Data Sheets, and the requirements of the Authority Having Jurisdiction. Care must be exercised that the k-factor, temperature rating, deflector style, and sprinkler type are in accordance with the requirements of the applicable design and installation standards. In addition, Model F1FR Series sprinklers must be used in accordance with their listings and approvals, as well as the information provided in this Bulletin.

Installation

Glass bulb sprinklers have orange bulb protectors or protective caps to minimize bulb damage during shipping, handling and installation. Reliable sprinkler installation wrenches are designed to install sprinklers with bulb protectors in place. Remove the bulb protector at the time when the sprinkler system is placed in service for fire protection. Removal of the bulb protector before this time may leave the bulb vulnerable to damage. Remove bulb protectors by undoing the clasp by hand. Do not use tools to remove bulb protectors.

Model F1FR Series sprinklers must be installed with the Reliable sprinkler installation wrench identified in the Design and Installation Information table in this Bulletin. Any other wrench may damage the sprinkler. A leak tight sprinkler joint can be obtained with a torque of 8 to 18 lb-ft (11 to 24 N-m). Do not tighten sprinklers over the maximum recommended installation torque. Exceeding the maximum recommended installation torque may cause leakage or impairment of the sprinkler.

Recessed Sprinklers

Model F1FR Series Recessed sprinklers are to be installed as shown in Fig. 1, Fig. 2, or Fig. 3, as applicable to the specific model being installed. The Recessed Escutcheon Data table in the Bulletin identifies the only recessed escutcheons that are permitted to be used with each Model F1FR Series Recessed sprinkler. The use of any other recessed escutcheon will void all approvals and negate all warranties.

Concealed Sprinklers

Model F1FR Series Concealed Pendent sprinklers are to be installed as shown in Fig. 4 or Fig. 5, as applicable to the selected cover plate. Model F1FR56 Concealed Pendent and Model F1FR56LL Concealed Pendent sprinklers have a factory-installed Model CCP cup. A protective cap is installed at the factory that should remain on the sprinkler until the sprinkler is installed and should then be reinstalled on the sprinkler until the cover plate is installed. The concealed sprinkler assemblies are completed by the installation of a Model CCP push-on/thread-off cover plate assembly. The cover plate and sprinkler cup assemblies are joined using a cover plate skirt with flexible tabs for threaded engagement. A choice of two Model CCP cover plate assemblies provides either 1/2-inch (13mm) or 5/8-inch (8mm) of cover adjustment. Do not install Model F1FR Series Concealed Pendent sprinklers in ceilings which have positive pressure in the space above.

Model F1FR Series Concealed Pendent sprinklers require a 2-5/8-inch (67mm) diameter hole to be cut in the ceiling. The Model GFR2 wrench is used to engage the sprinkler wrenching surfaces and to install the sprinkler in the fitting. Remove the protective cap to install the sprinkler, then reinstall the protective cap until the cover plate is installed. When inserting or removing the wrench from the sprinkler/cup assembly, care should be taken to prevent damage to the sprinkler. Do not wrench any other part of the sprinkler/cup assembly. Installation is completed by removing the protective cap from the sprinkler and pushing the cover plate onto the cup. Final adjustment is made by hand turning the cover plate until the skirt flange makes full contact with the ceiling. Cover plate removal requires turning the cover plate in the counter clockwise direction. After installation, inspect all sprinklers to ensure that there is a gap between the cover plate and ceiling and that the four cup slots are open and free from any air flow impediment to the space above.

Concealed cover plate/cup assemblies are listed only for use with specific sprinklers. The use of any concealed cover plate/cup assembly other than the Reliable Model CCP with Model F1FR56 Concealed Pendent and Model F1FR56LL Concealed Pendent sprinklers or the use of the Model CCP Concealed cover plate assembly on any sprinkler with which it is not specifically listed may prevent good fire protection and will void all guarantees, warranties, listings and approvals.
### Technical Data:

**Sensitivity:** Quick-response  
**Thread Size:** 1/2-inch NPT standard; ISO 7-R1/2 optional  
**Maximum Working Pressure:** 175 psi (12 bar) - 100% Factory tested hydrostatically to 500 psi (34.5 bar)  
SIN RA1425, RA1414 & RA1435 cULus listed for 250 psi (17 bar)

### Design and Installation Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal K-factor</th>
<th>Nominal Orifice Diameter</th>
<th>Deflector/Orientation</th>
<th>Nominal Sprinkler Height / Installation Wrench / SIN / Listings and Approvals / Approval Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>F1FR28</td>
<td>2.8</td>
<td>40 inches 3/8 mm</td>
<td>Pendant</td>
<td>2.25 inches 57 mm W2 RA1411 cULus 2</td>
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<tr>
<td></td>
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<td></td>
<td>Recessed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1411 cULus 2</td>
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<tr>
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<td></td>
<td>Upright</td>
<td>2.25 inches 57 mm W2 RA1421 cULus 2, 1,2</td>
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<tr>
<td>F1FR40</td>
<td>4.0</td>
<td>57 inches 3/8 mm</td>
<td>Pendant</td>
<td>2.25 inches 57 mm W2 RA1418 VdS</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Recessed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1418 VdS</td>
</tr>
<tr>
<td>F1FR42</td>
<td>4.2</td>
<td>60 inches 7/16 mm</td>
<td>Pendant</td>
<td>2.25 inches 57 mm W2 RA1413 cULus 2, 1,2</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Recessed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1413 cULus 2, 1,2</td>
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<tr>
<td></td>
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<td>Upright</td>
<td>2.25 inches 57 mm W2 RA1423 cULus 1,2, 2</td>
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<tr>
<td>F1FR42LL</td>
<td>4.2</td>
<td>60 inches 7/16 mm</td>
<td>Pendant</td>
<td>2.25 inches 57 mm W2 RA1410 cULus, ULH</td>
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<td>Recessed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1410 cULus, ULH</td>
</tr>
<tr>
<td>F1FRXLH (F1FR42 with Pintle)</td>
<td>4.2</td>
<td>60 inches 7/16 mm</td>
<td>Pendant</td>
<td>2.25 inches 57 mm W2 RA1413 cULus 2, 1,2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Recessed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1413 cULus 2, 1,2</td>
</tr>
<tr>
<td></td>
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<td>Upright</td>
<td>2.25 inches 57 mm W2 RA1423 cULus 1,2, 2</td>
</tr>
<tr>
<td>F1FR56</td>
<td>5.6</td>
<td>80 inches 1/2 mm</td>
<td>Pendant</td>
<td>2.25 inches 57 mm W2 RA1414 cULus, FM, LPCB, VdS, EC 1, 2, 3, 4</td>
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<tr>
<td></td>
<td></td>
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<td>Recessed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1414 cULus, FM, LPCB, VdS, EC 1, 2, 3, 4</td>
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<tr>
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<td>Concealed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1414 cULus, VdS, EC 5, 6</td>
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<td>Upright</td>
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<td>&quot;Conventional (Pendent or Upright)&quot;</td>
<td>2.25 inches 57 mm W2 RA1475 LPCB, VdS, EC 4</td>
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<td>F1FR56LL</td>
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<td>80 inches 1/2 mm</td>
<td>Pendant</td>
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<td>Recessed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1415 cULus, ULH</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Concealed Pendant</td>
<td>2.25 inches 57 mm GFR2 RA1415 cULus, ULH</td>
</tr>
<tr>
<td>F1FR56</td>
<td>5.6</td>
<td>80 inches 1/2 mm</td>
<td>Horizontal Sidewall</td>
<td>2.63 inches 67 mm W2 RA1435 cULus, FM 1, 2, 3, 7</td>
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<tr>
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<td></td>
<td></td>
<td>Recessed Horizontal Sidewall</td>
<td>2.63 inches 67 mm GFR2 RA1435 cULus, FM 8</td>
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<tr>
<td>F1FR56</td>
<td>5.6</td>
<td>80 inches 1/2 mm</td>
<td>Vertical Sidewall (Pendent or Upright)</td>
<td>2.25 inches 57 mm W2 RA1485 cULus, FM, LPCB 1, 2, 3, 9</td>
</tr>
</tbody>
</table>

(1) cULus Listed Corrosion Resistant sprinkler when ordered with available Polyester coating.  
(2) cULus Listed Corrosion Resistant sprinkler when ordered with available Electroless Nickel PTFE plating.  
(3) Available with FM approved Polyester coating in black or white.  
(4) Available with LPCB and VdS approved Polyester coating.  
(5) VdS and EC approvals of the F1FR56 Concealed Pendent sprinkler are for 155°F (68°C) temperature rated sprinklers only. VdS approved sprinklers must use Norbulb brand glass bulbs with the 1/2-inch (12.7mm) adjustment Model CCP cover plate only.  
(6) Model F1FR56 Concealed Pendent and Model F1FR56LL Concealed Pendent sprinklers must be used with Reliable Model CCP cover plates, available as either standard depth with 1/2-inch (12.7mm) of adjustment or low profile with 5/16-inch (8.0 mm) of adjustment.  
(7) cULus Listing of the F1FR56 Horizontal Sidewall sprinkler is for Light and Ordinary Hazard occupancies only. Minimum to maximum deflector to ceiling distance shall be 4 inches to 12 inches (102mm to 305mm). FM Approval of the F1FR56 Horizontal Sidewall sprinkler is for Light Hazard occupancies only.  
(8) cULus Listing and FM Approval of the F1FR56 Recessed Horizontal Sidewall sprinkler is for Light Hazard occupancies only.  
(9) The F1FR56 Vertical Sidewall sprinkler is listed and approved for use only in Light Hazard occupancies. LPCB approval of the F1FR56 Vertical Sidewall sprinkler is for installation in the Pendent position only.
### Listed and Approved Temperature Ratings

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Orange Bulb</td>
<td>Red Bulb</td>
<td>Yellow Bulb</td>
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<tr>
<td>F1FR28</td>
<td>Pendant</td>
<td>cULus</td>
<td>cULus</td>
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<tr>
<td>F1FR40</td>
<td>Recessed Pendant</td>
<td>cULus</td>
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<tr>
<td>F1FR42</td>
<td>Recessed Pendant</td>
<td>VdS</td>
<td>cULus</td>
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<tr>
<td>F1FR42LL</td>
<td>Recessed Pendant</td>
<td>cULus</td>
<td>cULus</td>
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<tr>
<td>F1FRXLH</td>
<td>Recessed Pendant</td>
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<td>cULus</td>
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<td>cULus</td>
<td>cULus</td>
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<tr>
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<td>Recessed Pendant</td>
<td>cULus, ULH</td>
<td>cULus</td>
<td>cULus, VdS, EC</td>
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<tr>
<td>F1FR56</td>
<td>Recessed Horizontal Sidewall</td>
<td>cULus, FM</td>
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<tr>
<td>F1FR56</td>
<td>Vertical Sidewall (Pendent or Upright)</td>
<td>cULus, FM, LPCB</td>
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</table>

*Model F1FR56 Concealed Pendent and F1FR56LL Concealed Pendent sprinklers must be used with Reliable Model CCP cover plates. For Ordinary Temperature Classification sprinklers use a 135°F (57°C) temperature rated cover plate. For Intermediate Temperature Classification sprinklers use a 165°F (74°C) temperature rated cover plate.

### Recessed Escutcheon Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Deflector/Orientation</th>
<th>Listed and Approved Recessed Escutcheons</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Model F1 (Fig. 1 &amp; 3) 3/4-inch (19mm) adjustment</td>
</tr>
<tr>
<td>F1FR28</td>
<td>Recessed Pendant</td>
<td>cULus</td>
</tr>
<tr>
<td>F1FR40</td>
<td>Recessed Pendant</td>
<td>VdS</td>
</tr>
<tr>
<td>F1FR42</td>
<td>Recessed Pendant</td>
<td>cULus</td>
</tr>
<tr>
<td>F1FR42LL</td>
<td>Recessed Pendant</td>
<td>cULus, ULH</td>
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<tr>
<td>F1FR42XLH</td>
<td>Recessed Pendant</td>
<td>cULus</td>
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<tr>
<td>F1FR56</td>
<td>Recessed Pendant</td>
<td>cULus, LPCB, VdS, EC</td>
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<tr>
<td>F1FR56LL</td>
<td>Recessed Pendant</td>
<td>cULus, ULH</td>
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<tr>
<td>F1FR56</td>
<td>Recessed Horizontal Sidewall</td>
<td>cULus</td>
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</tbody>
</table>
5.

Fig. 1
Model F1FR56, F1FR56LL, F1FR42, F1FR40, F1FR42LL, F1FRXLH & F1FR28
Recessed Pendent sprinkler with Model F1 or F2 escutcheon

Fig. 2
Model F1FR56, F1FR56LL, F1FR42, F1FR40, F1FR42LL, F1FRXLH & F1FR28
Recessed Pendent sprinkler with Model FP escutcheon
**Fig. 3**
Model F1FR56 Recessed Horizontal Sidewall sprinkler with Model F1 or F2 escutcheon

**Fig. 4**
Model F1FR56/F1FR56LL Concealed Pendent sprinkler with standard depth
1/2-inch (12.7mm) adjustment - Model CCP cover plate

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**RECESSED HSW W/F1 OR F2 ESCUTCHEON**

(1) FM APPROVED FOR 4” - 6” [101.6MM - 152.4MM] CEILING TO DEFLECTOR WITH F2 ONLY.
Maintenance

The Model F1FR Series sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gentle vacuuming. Replace any sprinkler which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers.

Finishes

<table>
<thead>
<tr>
<th>Standard Finishes</th>
<th>Special Application Finishes</th>
</tr>
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<tbody>
<tr>
<td>Sprinkler</td>
<td>Sprinkler</td>
</tr>
<tr>
<td>Escutcheon</td>
<td>Escutcheon</td>
</tr>
<tr>
<td>Cover plate</td>
<td>Cover plate</td>
</tr>
</tbody>
</table>

- **Standard Finishes**
  - **Sprinkler**: Bronze, Chrome Plated, Polyester Coated
  - **Escutcheon**: White, White Painted
  - **Cover plate**: Chrome, White

- **Special Application Finishes**
  - **Sprinkler**: Electroless Nickel, Bright Brass, Black Plated, Black Paint, Off White, Chrome Dull
  - **Escutcheon**: Electroless Nickel, Bright Brass, Black Plated, Black Paint, Off White, Chrome Dull

<table>
<thead>
<tr>
<th>Material Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame: DZR Brass, QM Brass, or Low Lead Brass</td>
</tr>
<tr>
<td>Deflector: CDA Alloy 220, 260, or 510</td>
</tr>
<tr>
<td>Load Screw\Pintle: CDA Alloy 360 or 544</td>
</tr>
<tr>
<td>Cup: CDA Alloy 651 or 693</td>
</tr>
<tr>
<td>Washer: Nickel Alloy 440 or 360, coated with PTFE Adhesive Tape</td>
</tr>
<tr>
<td>Bulb: Glass</td>
</tr>
</tbody>
</table>

Ordering Information

Specify:

1. Sprinkler Model: [F1FR28][F1FR40][F1FR42][F1FR42LL][F1FRXLH][F1FR56][F1FR56LL]
2. Sprinkler Deflector/Orientation: [Pendent][Recessed Pendent][Upright][Conventional][Horizontal Sidewall][Recessed Horizontal Sidewall][Vertical Sidewall]
3. Sprinkler threads: [1/2-inch NPT][ISO 7-R1/2]
4. Sprinkler Temperature Rating: [135°F (57°C)][155°F (68°C)][175°F (79°C)][200°F (93°C)][286°F (141°C)]
5. Sprinkler Finish
6. Escutcheon Model: [F1][F2][FP]
7. Escutcheon Finish (where applicable)
8. Cover plate Model: [standard profile CCP 1/2-inch (12.7mm) adjustment][low profile CCP 5/16-inch (8.0mm) adjustment]
9. Cover plate Temperature Rating: [135°F (57°C) for use with Ordinary Temperature sprinklers][165°F (74°C) for use with Intermediate Temperature sprinklers]
10. Cover plate Finish

Note: When Model F1FR Series Recessed sprinklers are ordered, the sprinklers and escutcheons are packaged separately.
Reliable...For Complete Protection

Reliable offers a wide selection of sprinkler components. Following are some of the many precision-made Reliable products that guard life and property from fire around the clock.

- Automatic sprinklers
- Flush automatic sprinklers
- Recessed automatic sprinklers
- Concealed automatic sprinklers
- Adjustable automatic sprinklers
- Dry automatic sprinklers
- Intermediate level sprinklers
- Open sprinklers
- Spray nozzles
- Alarm valves
- Retarding chambers
- Dry pipe valves
- Accelerators for dry pipe valves
- Mechanical sprinkler alarms
- Electrical sprinkler alarm switches
- Water flow detectors
- Deluge valves
- Detector check valves
- Check valves
- Electrical system
- Sprinkler emergency cabinets
- Sprinkler wrenches
- Sprinkler escutcheons and guards
- Inspectors test connections
- Sight drains
- Ball drips and drum drips
- Control valve seals
- Air maintenance devices
- Air compressors
- Pressure gauges
- Identification signs
- Fire department connection

The equipment presented in this bulletin is to be installed in accordance with the latest published Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable.

Products manufactured and distributed by Reliable have been protecting life and property for almost 100 years.

Manufactured by

Reliable Automatic Sprinkler Co., Inc.
(800) 431-1588
(800) 848-6051
(914) 829-2042
www.reliablesprinkler.com

Sales Offices
Sales Fax
Corporate Offices
Internet Address

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