

Features

- 1. Available in the following configurations:
 - Pendent with standard escutcheon
 - Pendent with Model HB extended escutcheon
 - Pendent with Model FP recessed escutcheon
 - Pendent with Model F1 recessed escutcheon
 - Concealed Pendent with Model CCP cover plate
 - Horizontal Sidewall with Standard escutcheon Horizontal Sidewall with Model HB extended escutcheon
 - Horizontal Sidewall with Model FP recessed escutcheon (FM Standard Response)
 - Horizontal Sidewall with Model F1 recessed escutcheon (FM Standard Response)
 - Upright
- 2. Available with 1" NPT, ISO7-1R1, 3/4" NPT, or ISO7-1R3/4 inlet fitting.
- 3. 3/4" NPT inlet fittings permit replacement of older 3/4" inlet dry sprinklers without changing to a larger sprinkler fittina.
- 4. Sprinklers, escutcheons, and cover plates are available in a wide variety of standard and special application finishes.
- 5. White polyester, black polyester, and Electroless Nickel PTFE (ENT) finish sprinklers are cULus Listed as Corrosion Resistant.
- 6. Available with cULus Listed 250 psi (17.2 bar) pressure rating for Dry Pendent and select HSW configurations. FM Approved for 175 psi (12 bar).

Product Description

Model F3QR56 Dry sprinklers are quick-response, standard coverage sprinklers with a nominal K-Factor of 5.6 (80 metric). Available in Dry Pendent, Dry Horizontal Sidewall, and Dry Upright configurations, Model F3QR56 Dry sprinklers all use a 3 mm glass bulb operating element. See the Temperature Ratings table in this Bulletin for available temperature ratings. Model F3QR56 Dry sprinklers are intended for installation on wetpipe, dry-pipe, or preaction sprinkler systems in accordance with NFPA 13, FM Property Loss Prevention Data Sheets, and other applicable installation standards.

Model F3QR56 Dry Pendent and Sidewall sprinklers are available with a variety of escutcheon options as illustrated in Figs. 1 through 3 and Figs. 5 through 9. In addition, Model F3QR56 Dry Pendent sprinklers are also available with the Model CCP conical concealed cover plate as illustrated in Fig. 4. Available sprinkler, escutcheon, and cover plate finishes are identified in the Finishes table in this Bulletin. The Model F1 escutcheon, Model FP escutcheon, and Model CCP cover plate are the only recessed escutcheons and cover plate listed for use with Model F3QR56 Dry sprinklers; the use of any other recessed escutcheon or cover plate with Model F3QR56 Dry sprinklers will void all guarantees, warranties, listings and approvals.



Model F3QR56 Dry

Reliable Automatic Sprinkler Co., Inc., 103 Fairview Park Drive, Elmsford, New York 10523

Inlet fittings are available with 1" NPT, ISO 7-1R1, 3/4" NPT, or ISO7-1R3/4 threads. Sprinklers with 3/4" NPT and ISO7-1R3/4 inlet fittings are intended primarily for replacement of existing 3/4" or ISO7-1R3/4 inlet dry sprinklers, but may also be used in new installations.

See the Available Configurations, Listings, and Approvals table in this Bulletin for further information on Model F3QR56 Dry sprinklers.

| Sprinkler Model | Escutcheon or Cover Plate | Available Length (See Figs. 1-9) | Listings and Approvals ⁽¹⁾ | Inlet Threads | Sprinkler Identification Number (SIN) |
|-----------------------|------------------------------|--|---|--|--|
| | Standard Escutcheon | 2" to 36" (50 to 900 mm) | | 3/4" NPT or ISO7-1R3/4 | R5714 |
| | HB Extended Escutcheon | 3-1/2" to 36" (90 to 900 mm) | cULus, NYC | | |
| | F1 Recessed Escutcheon | | | | |
| | FP Recessed Escutcheon | | | | |
| F3QR56 Dry | CCP Cover Plate | | | | |
| Pendent | Standard Escutcheon | 2" to 48" (50 to 1200 mm) | | | K3714 |
| | HB Extended Escutcheon | 3-1/2" to 48" (90 to 1200 mm) | cULus, FM, NYC | 1" NPT or ISO7-1R1 | |
| | F1 Recessed Escutcheon | | | | |
| | FP Recessed Escutcheon | | | | |
| | CCP Cover Plate | | | | |
| | Standard Escutcheon | 2" to 48" (50 to 1200 mm) 3-1/2" to 48" (90 to 1200 mm) | cULus ⁽²⁾ , NYC ⁽²⁾ | 3/4" NPT or ISO7-1R3/4 | - R5734 |
| | HB Extended Escutcheon | | | | |
| | F1 Recessed Escutcheon | | | | |
| F3QR56 Dry | FP Recessed Escutcheon | | | | |
| Horizontal Sidewall | Standard Escutcheon | 2" to 48" (50 to 1200 mm) | cULus ⁽²⁾ , | FM ⁽³⁾ , NYC ⁽²⁾ 1" NPT or ISO7-1R1 | |
| | HB Extended Escutcheon | 3-1/2" to 48" (90 to 1200 mm) | ΓΙΨΙ ^(*) , ΝΥΟ ^(*) | | |
| | F1 Recessed Escutcheon | 3-1/2" to 48" | o 48" cULus ⁽²⁾ , | | |
| | FP Recessed Escutcheon | (90 to 1200 mm) | FM ⁽³⁾⁽⁴⁾ , NYC ⁽²⁾ | | |
| F3QR56 Dry Upright | N/A | 5" to 48" (127 to 1200 mm) | cULus ⁽²⁾ | 1" NPT or ISO7-1R1 | R5724 |

Available Configurations, Listings, and Approvals

⁽¹⁾ For available temperature ratings and finishes see the Temperature Ratings and Finishes tables, respectively, in this Bulletin.

⁽²⁾ cULus Listing and NYC for Light Hazard and Ordinary Hazard only.

⁽³⁾ FM Approved for Light Hazard only.

⁽⁴⁾ Model F3QR56 Dry Horizontal Sidewall with Model F1 or Model FP recessed escutcheon are FM Approved as Standard Response.

Listing and Approval Agencies

See the Available Configurations, Listings, and Approvals table in this Bulletin for listings and approvals applicable to each available configuration.

- 1. Listed by Underwriters Laboratories, Inc. and UL Certified for Canada (cULus)
- 2. Certified by FM Approvals (FM)
- 3. Permitted in New York City based on UL Listing per Local Law 33/2007 (NYC)

Technical Data

Nominal K-Factor: 5.6 gpm/psi^{1/2} (80 L/min/bar^{1/2})

| Sprinkler | Listing or Approval | Deflector to Ceiling Distance | Maximum Working Pressure |
|---------------------|---------------------|-------------------------------|--------------------------|
| F3QR56 Dry | cULus, NYC | See note below | 250 psi (17.2 bar) |
| Pendent | FM | See note below | 175 psi (12 bar) |
| F3QR56 Dry | cULus, NYC | 4" to 6 " | 250 psi (17.2 bar) |
| Horizontal Sidewall | 00203, 1110 | 4" to 12" | 175 psi (12 bar) |
| | FM | See note below | 175 psi (12 bar) |
| F3QR56 Dry Upright | cULus | See note below | 175 psi (12 bar) |

Note: Deflector distance to be in accordance with applicable NFPA, FM, or other agency requirements. Information is provided only when additional clarification is necessary.

| Temperature Classification | Glass Bulb Color | Sprinkler Temperature Rating | Cover Plate Temperature Rating | Maximum Ceiling Temperature | Listings and Approvals ⁽¹⁾ |
|-------------------------------|------------------|---------------------------------|-----------------------------------|--------------------------------|--|
| Ordinany | Orange | 135°F (57°C) | 135°F (57°C) | 100°F (38°C) | cULus, FM, NYC |
| Ordinary | Red | 155°F (68°C) | 135 F (57 C) | 135 F (57 C) 100 F (38 C) | COLUS, FIVI, NTC |
| Intermediate | Yellow | 175°F (79°C) | 165°F (74°C) | 150°F (66°C) | cULus, NYC |
| Intermediate | Green | 200°F (93°C) | 165°F (74°C) | 150°F (66°C) | cULus, FM, NYC |
| Lligh | | | None | 225°F (107°C) | cULus, FM ⁽²⁾ , NYC |
| High | Blue | 286°F (141°C) | 165°F (74°C) | 150°F (66°C) | cULus, NYC |

⁽¹⁾ For listed and approved sprinkler, escutcheon, and inlet configurations see the Available Configurations, Listings, and Approvals table in this Bulletin.

⁽²⁾ High temperature classification is FM Approved with Standard and Model HB escutcheons only.

Finish Notes

1. Finishes vary with type of trim selected. See table provided with each sprinkler detail for finish combinations.

- 2. Paint or any other coating applied over the factory finish will void all approvals and warranties.
- 3. Other finishes and colors may be available on special order. Consult your Reliable sales representative for details.
- 4. For Standard, Model HB, and Model F1 trims, both components of escutcheon are finished.
- 5. For Model FP and CCP trims, only the trim ring and cover plate are finished. The threaded sprinkler cup is unfinished.

Model F3QR56 Dry Pendent Sprinkler with Standard Escutcheon (SIN R5714)

"A" Dim. 2" to 48" (51mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 2" to 36" (51mm to 914mm) in 1/4" (6mm) increments for 3/4" connections

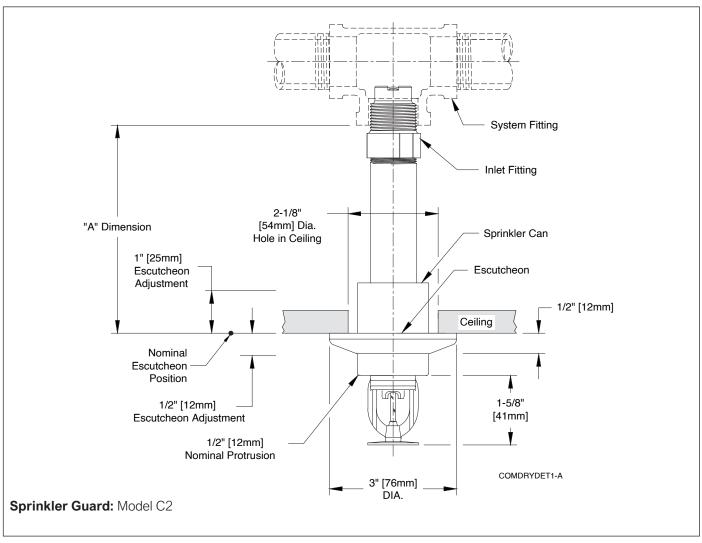


Fig. 1

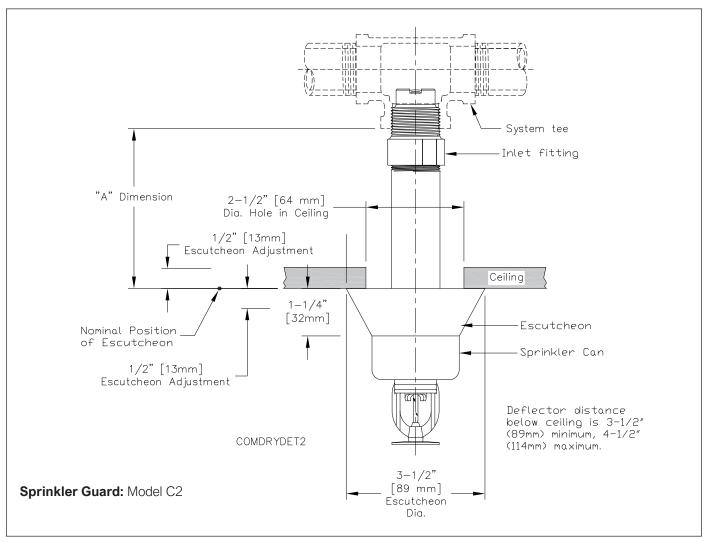
Note: The sprinkler can protrudes 1/2" (12mm) when escutcheon is in nominal position. Escutcheon adjustment provides -1/2" (12mm) to +1" (25mm) "A" dimension adjustment range.

| Finish Combinations: Standard Escutcheon | | | |
|--|------------------------------|--|--|
| Sprinkler | Escutcheon ⁽²⁾⁽³⁾ | | |
| Bronze | Polished Stainless | | |
| Bronze | Laquered Brass | | |
| Chrome | Polished Stainless | | |
| White Polyester ⁽¹⁾ | White Polyester | | |
| Black Polyester ⁽¹⁾ | Black Polyester | | |
| Custom Color Polyester ⁽¹⁾ | Custom Color Polyester | | |
| Electroless Nickel PTFE ⁽⁴⁾ | Polished Stainless | | |

- 1. UL Listed as Corrosion Resistant.
- 2. Escutcheons do not carry corrosion resistant listings.
- 3. Base material is 316 stainless steel unless noted.
- 4. FM Approved as Corrosion Resistant.

Model F3QR56 Dry Pendent Sprinkler with Model HB Extended Escutcheon (SIN R5714)

"A" Dim. 3¹/₂" to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 3¹/₂" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections





Note: The sprinkler can protrudes 1¼" when escutcheon is in nominal position. Escutcheon adjustment provides -½" (-12.7mm) to +½" (+12.7mm) "A" dimension adjustment range.

| Finish Combinations: HB Escutcheon | | | |
|---|------------------------------|--|--|
| Sprinkler | Escutcheon ⁽²⁾⁽³⁾ | | |
| Bronze | Chrome | | |
| Chrome | Chrome | | |
| White Polyester ⁽¹⁾ | White Polyester | | |
| Black Polyester ⁽¹⁾ | Black Polyester | | |
| Custom Color Polyester ⁽¹⁾ | Custom Color Polyester | | |
| Electroless Nickel PTFE ⁽¹⁾⁽⁴⁾ | Stainless Steel | | |

- 1. UL Listed as Corrosion Resistant.
- 2. Escutcheons do not carry corrosion resistant listings.
- 3. Base material is cold rolled steel unless noted.
- 4. FM Approved as Corrosion Resistant.

Model F3QR56 Dry Pendent Sprinkler with Model FP Recessed Escutcheon (SIN R5714)

"A" Dim. 3¹/₂" to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 3¹/₂" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections

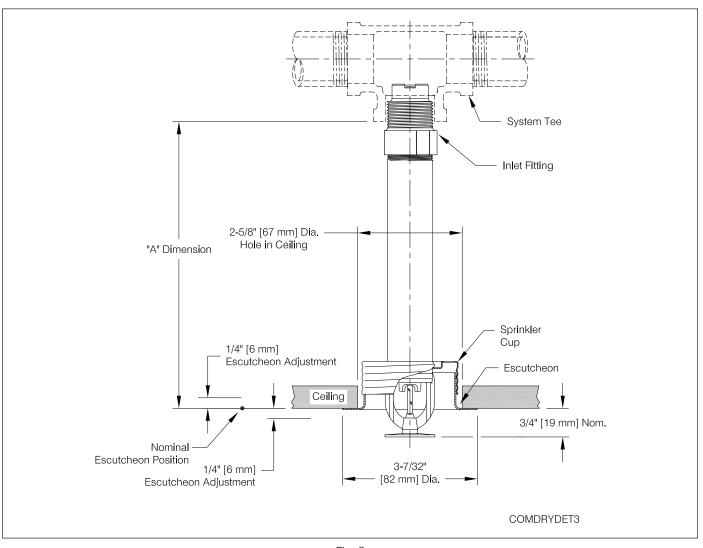


Fig. 3

Note: Do not install the Model F3QR56 Dry Pendent sprinkler with the Model FP escutcheon in ceilings which have positive pressure in the space above.

| Finish Combinations: FP Recessed Escutcheon | | | |
|---|------------------------------|--|--|
| Sprinkler ⁽¹⁾ | Escutcheon ⁽³⁾⁽⁴⁾ | | |
| Bronze | Chrome | | |
| Bronze | Brass | | |
| Chrome | Chrome | | |
| White Polyester ⁽²⁾ | White Polyester | | |
| Black Polyester ⁽²⁾ | Black Polyester | | |
| Custom Color Polyester ⁽²⁾ | Custom Color Polyester | | |
| Electroless Nickel PTFE ⁽²⁾⁽⁵⁾ | Stainless Steel | | |

- 1. Cup for FP Recessed is unfinished galvanized steel except electroless nickel PTFE sprinkler uses a stainless steel cup.
- 2. UL Listed as Corrosion Resistant.
- 3. Escutcheons do not carry corrosion resistant listings.
- 4. Base material is cold rolled steel unless noted.
- 5. FM Approved as Corrosion Resistant.

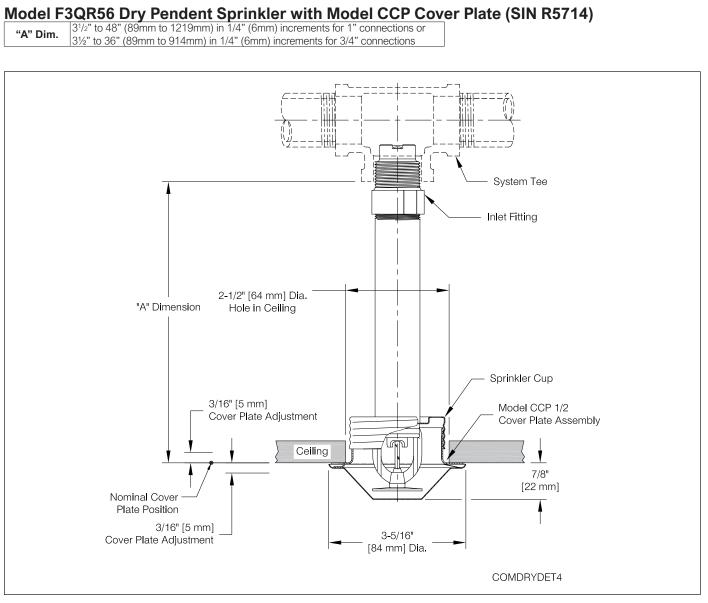
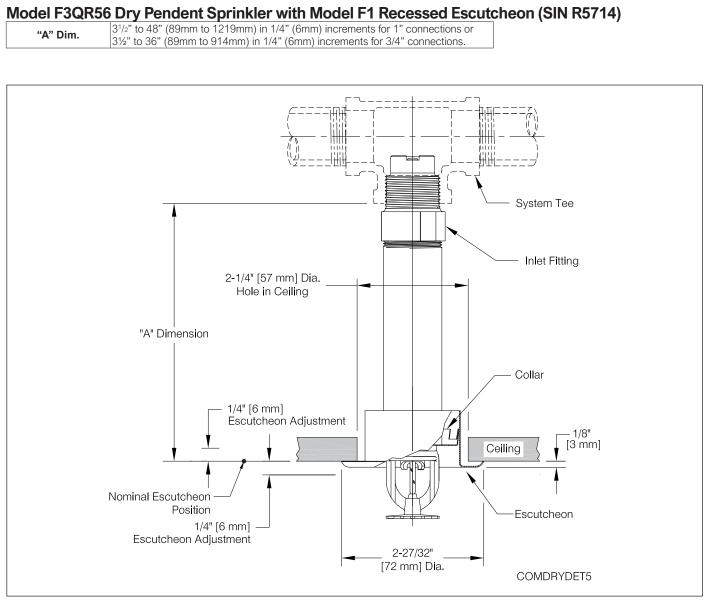


Fig. 4

Note: Do not install the Model F3QR56 Dry Pendent sprinkler with the Model CCP cover plate in ceilings which have positive pressure in the space above.

| Finish Combinations: CCP Conical Cover Plate | | |
|--|-------------------|--|
| Sprinkler Cover Plate ⁽²⁾ | | |
| | White Polyester | |
| | Chrome Bright | |
| Bronze | Chrome Dull | |
| | Bright Brass | |
| | Unfinished Bronze | |
| | Custom Color | |

- 1. Cup for CCP Concealed in unfinished galvanized steel.
- 2. Cover plates do not carry corrosion resistant listings.





| Finish Combinations: F1 Recessed Escutcheon | | |
|---|------------------------------|--|
| Sprinkler | Escutcheon ⁽²⁾⁽³⁾ | |
| Bronze | Chrome | |
| Bronze | Brass | |
| Chrome | Chrome | |
| White Polyester ⁽¹⁾ | White Polyester | |
| Black Polyester ⁽¹⁾ | Black Polyester | |
| Custom Color Polyester ⁽¹⁾ | Custom Color Polyester | |
| Electroless Nickel PTFE ⁽¹⁾⁽⁴⁾ | Stainless Steel | |

- 1. UL Listed as Corrosion Resistant.
- 2. Escutcheons do not carry corrosion resistant listings.
- 3. Base material is cold rolled steel unless noted.
- 4. FM Approved as Corrosion Resistant.

Model F3QR56 Dry Horizontal Sidewall Sprinkler with Standard Escutcheon (SIN R5734)

"A" Dim. 2" to 48" (51mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 2' to 36" (51mm to 914mm) in 1/4" (6mm) increments for 3/4" connections

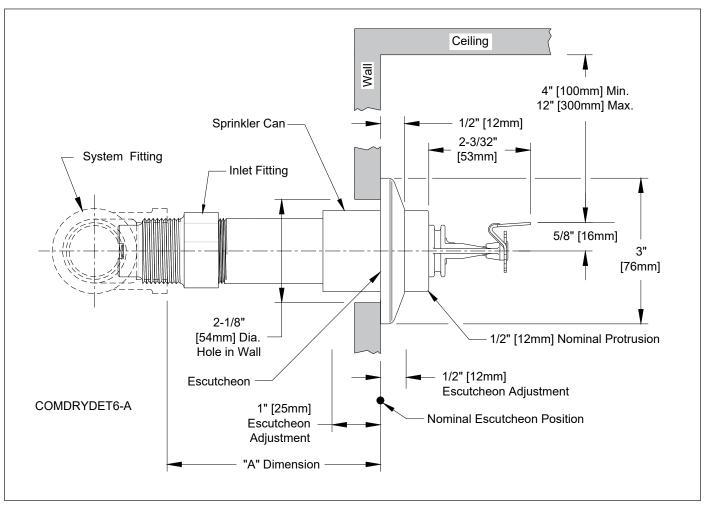


Fig. 6

Note: The sprinkler can protrudes 1/2" when escutcheon is in nominal position. Escutcheon adjustment provides -1/2" (-12mm) to +1" (25mm) "A" dimension adjustment range.

| Finish Combinations: Standard Escutcheon | | | |
|---|------------------------------|--|--|
| Sprinkler | Escutcheon ⁽²⁾⁽³⁾ | | |
| Bronze | Polished Stainless | | |
| Bronze | Laquered Brass | | |
| Chrome | Polished Stainless | | |
| White Polyester ⁽¹⁾ | White Polyester | | |
| Black Polyester ⁽¹⁾ | Black Polyester | | |
| Custom Color Polyester ⁽¹⁾ | Custom Color Polyester | | |
| Electroless Nickel PTFE ⁽¹⁾⁽⁴⁾ | Polished Stainless | | |

- 1. UL Listed as Corrosion Resistant.
- 2. Escutcheons do not carry corrosion resistant listings.
- 3. Base material is 316 stainless steel unless noted.
- 4. FM Approved as Corrosion Resistant.

Model F3QR56 Dry Horizontal Sidewall Sprinkler with Model HB Escutcheon (SIN R5734)



3¹/₂" to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 3¹/₂" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections

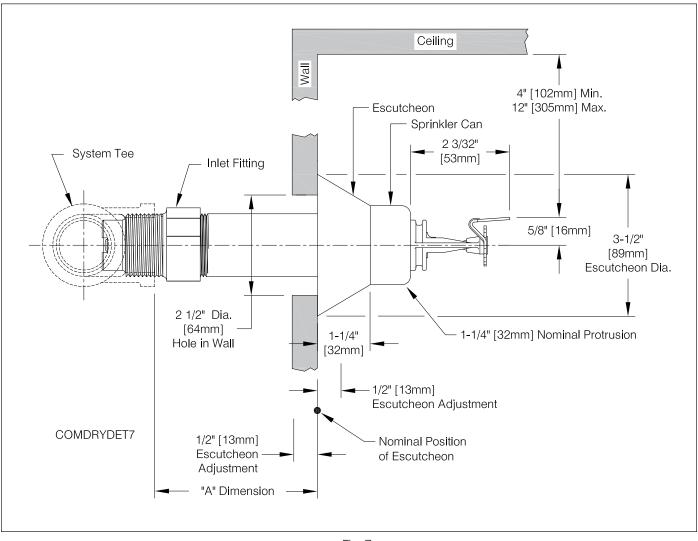


Fig. 7

Note: The sprinkler can protrudes 1¼" when escutcheon is in nominal position. Escutcheon adjustment provides -½" (-12.7mm) to +½" (+12.7mm) "A" dimension adjustment range.

| Finish Combinations: HB Escutcheon | | | |
|---|------------------------------|--|--|
| Sprinkler | Escutcheon ⁽²⁾⁽³⁾ | | |
| Bronze | Chrome | | |
| Chrome | Chrome | | |
| White Polyester ⁽¹⁾ | White Polyester | | |
| Black Polyester ⁽¹⁾ | Black Polyester | | |
| Custom Color Polyester ⁽¹⁾ | Custom Color Polyester | | |
| Electroless Nickel PTFE ⁽¹⁾⁽⁴⁾ | Stainless Steel | | |

- 1. UL Listed as Corrosion Resistant.
- 2. Escutcheons do not carry corrosion resistant listings.
- 3. Base material is cold rolled steel unless noted.
- 4. FM Approved as Corrosion Resistant.

Model F3QR56 Dry Horizontal Sidewall Sprinkler with Model FP Recessed Escutcheon (SIN R5734)

"A" Dim.

3¹/2" to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 3½" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections

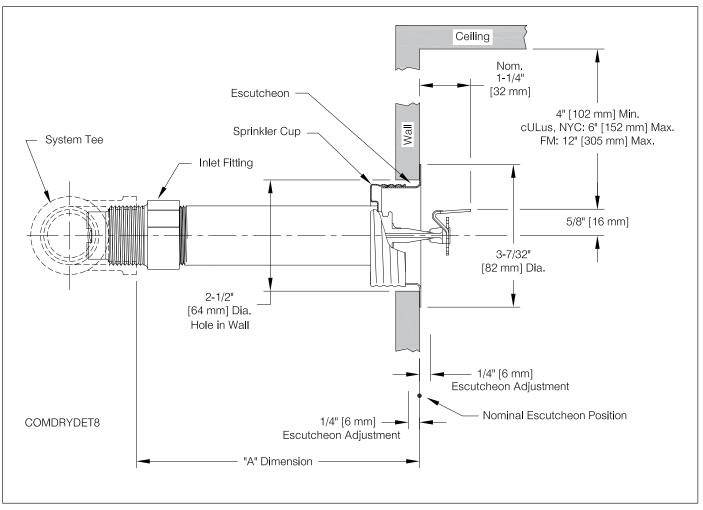


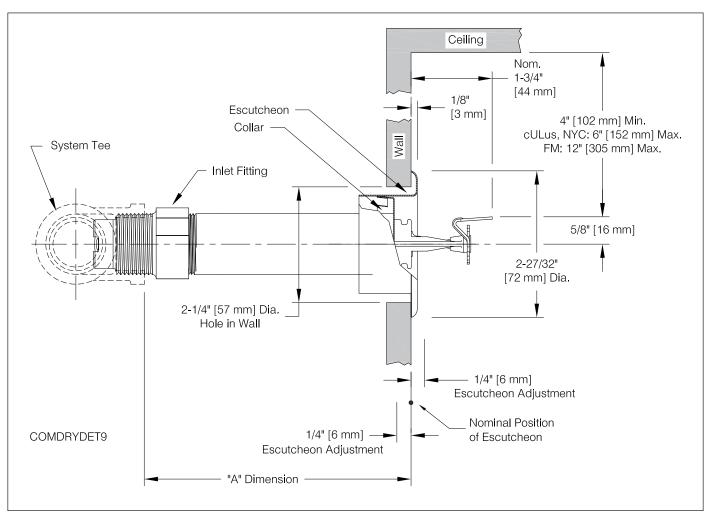
Fig. 8

Note: Do not install the Model F3QR56 Dry Horizontal Sidewall sprinkler with the Model FP escutcheon in walls which are positively pressurized with respect to the protected space.

| Finish Combinations: FP Recessed Escutcheon | | | |
|---|------------------------------|--|--|
| Sprinkler ⁽¹⁾ | Escutcheon ⁽³⁾⁽⁴⁾ | | |
| Bronze | Chrome | | |
| Bronze | Brass | | |
| Chrome | Chrome | | |
| White Polyester ⁽²⁾ | White Polyester | | |
| Black Polyester ⁽²⁾ | Black Polyester | | |
| Custom Color Polyester ⁽²⁾ | Custom Color Polyester | | |
| Electroless Nickel PTFE ⁽²⁾⁽⁵⁾ | Stainless Steel | | |

- Cup for FP Recessed is unfinished galvanized steel except electroless nickel PTFE sprinkler uses a stainless steel cup.
 UL Listed as Correction Decistant
- 2. UL Listed as Corrosion Resistant.
- 3. Escutcheons do not carry corrosion resistant listings.
- 4. Base material is cold rolled steel unless noted.
- 5. FM Approved as Corrosion Resistant.

Model F3QR56 Dry Horizontal Sidewall Sprinkler with Model F1 Recessed Escutcheon (SIN R5734) "A" Dim. 3^{1/2}" to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 3¹/₂" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections

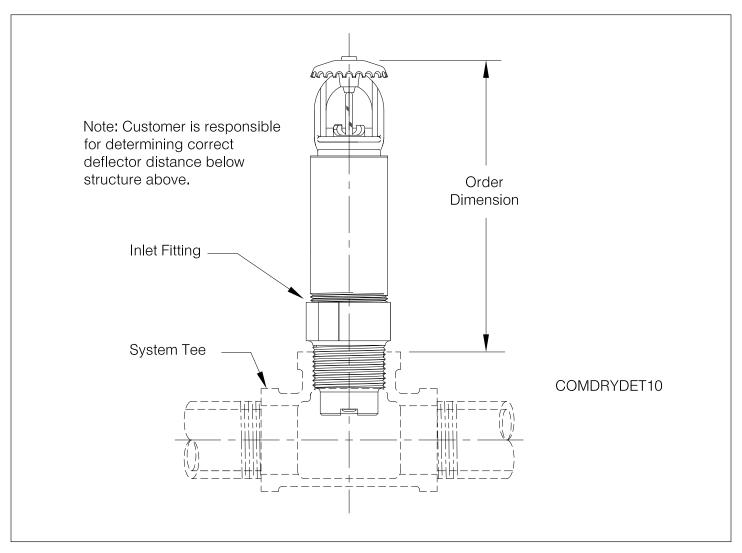




| Finish Combinations: F1 Recessed Escutcheon | | |
|---|------------------------------|--|
| Sprinkler | Escutcheon ⁽²⁾⁽³⁾ | |
| Bronze | Chrome | |
| Bronze | Brass | |
| Chrome | Chrome | |
| White Polyester ⁽¹⁾ | White Polyester | |
| Black Polyester ⁽¹⁾ | Black Polyester | |
| Custom Color Polyester ⁽¹⁾ | Custom Color Polyester | |
| Electroless Nickel PTFE ⁽¹⁾⁽⁴⁾ | Stainless Steel | |

- 1. UL Listed as Corrosion Resistant.
- 2. Escutcheons do not carry corrosion resistant listings.
- 3. Base material is cold rolled steel unless noted.
- 4. FM Approved as Corrosion Resistant.

Model F3QR56 Dry Upright (SIN 5724) Order Dimensions 5" to 48" (127 mm to 1219 mm)





| Finish Combinations: Upright | | | | |
|--|------------|--|--|--|
| Sprinkler | Escutcheon | | | |
| Bronze | NA | | | |
| Electroless Nickel PTFE ⁽¹⁾ | NA | | | |

- 1. UL Listed as Corrosion Resistant.
- Escutcheons do not carry corrosion resistant listings. Base material is cold rolled steel unless noted. 2.
- 3.

MINIMUM EXPOSED BARREL LENGTH WHEN CONNECTED TO WET PIPE SPRINKLER SYSTEM

NOTE: STANDARD DRY PENDENT IS SHOWN, HOWEVER, MINIMUM EXPOSED BARREL LENGTH APPLIES TO <u>ALL STYLES OF DRY SPRINKLERS</u> CONNECTED TO A WET PIPE SYSTEM.

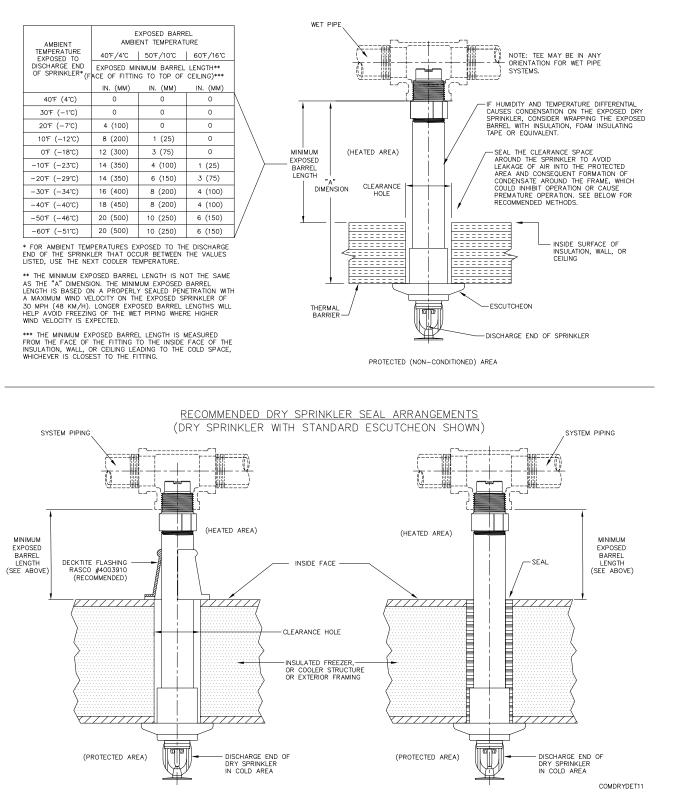


Fig. 11

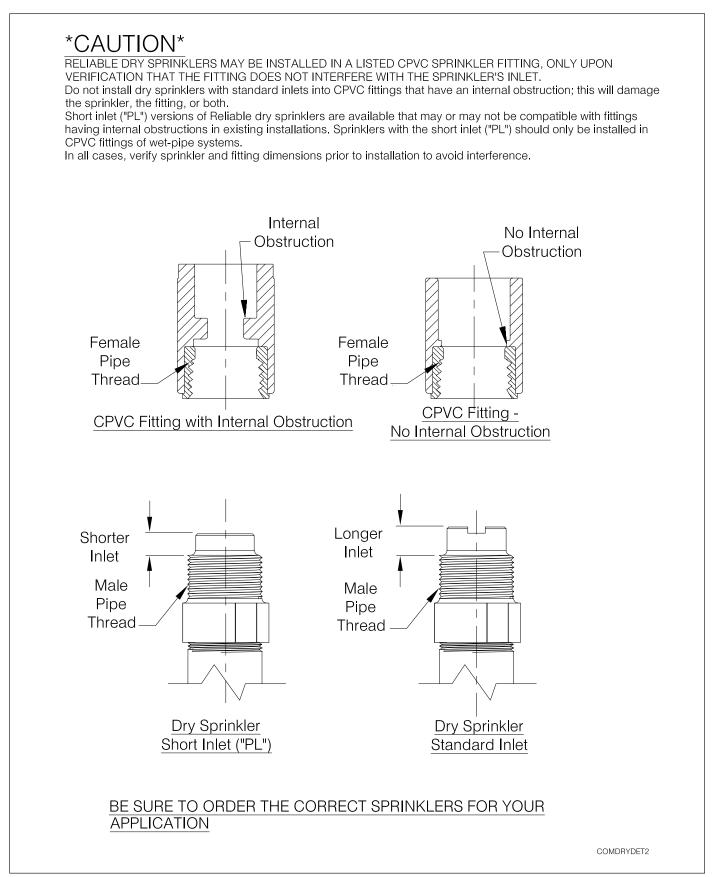


Fig. 12

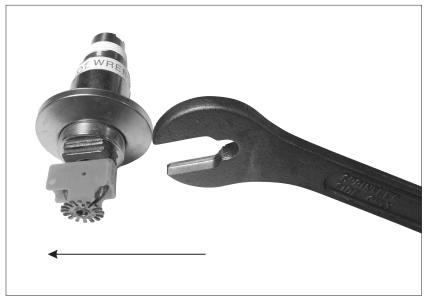


Fig. 13 - Model F3R Wrench

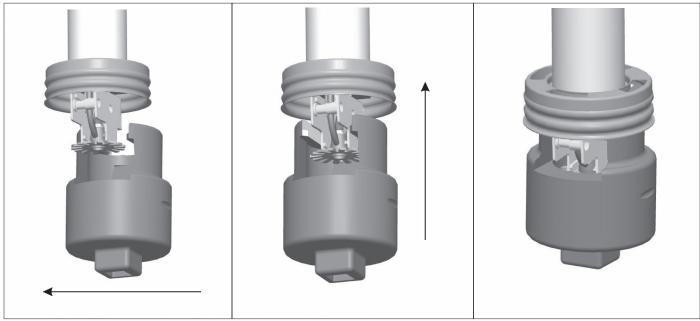


Fig. 14 - Model XLO2 Wrench

MATERIAL SPECIFICATIONS

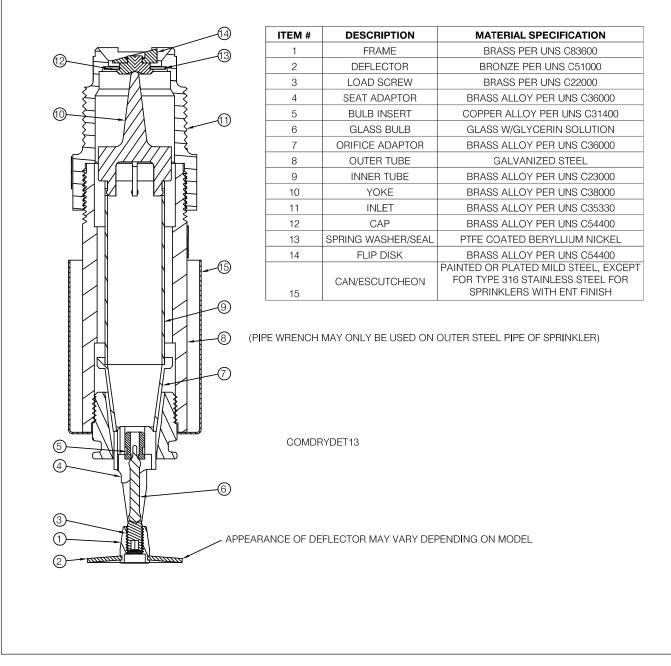


Fig. 15

Installation Instructions

When used on wet pipe systems, Reliable Model F3QR56 dry sprinklers may be installed in ductile or malleable cast iron threaded tees, or CPVC tees and adapters upon verification that the sprinkler inlet fitting does not interfere with the interior of the fitting (see Figure 12).

When used on dry pipe systems, Reliable Model F3QR56 dry pendent sprinklers MUST ONLY BE installed in the outlets of ductile or malleable cast iron threaded tees on horizontal pipe such that the inlet of the sprinkler protrudes above the bottom level of the pipe.

When used on dry pipe systems, Reliable Model F3QR56 dry sidewall and dry upright sprinklers may be installed in ductile or malleable cast iron threaded tees, or CPVC tees and adapters upon verification that the sprinkler inlet fitting does not interfere with the interior of the fitting (see Figure 12).

DO NOT install Reliable dry sprinklers into elbows or couplings, welded outlets, mechanical tees, or gasket sealed CPVC fittings.

Dry sprinklers connected to wet pipe systems must be installed as indicated in Figure 11 and as required by NFPA 13 with the Exposed Minimum Barrel Length located in a heated area.

An orange protective clip is factory installed on the sprinkler to protect the glass bulb thermal element from damage. The clip should remain in place during installation of the sprinkler and be removed when the sprinkler system is placed in service. Sprinklers with 3/4" NPT and ISO7-1R3/4 inlets are supplied with a protective cap on the inlet that must be removed before installation.

Use the following steps for installation:

- 1. Cut a hole in the wall or ceiling directly in-line with the outlet of the fitting. See the Installation Data table for the recommended hole diameter based on the escutcheon or cover plate option selected.
- 2. Apply pipe joint compound or PTFE tape to the male threads of the sprinkler's inlet fitting.
- 3. Install the sprinkler in the fitting using the installation wrench specified in the Installation Data table. The Model F3R wrench is designed to be inserted into the groves in the sprinkler's wrench boss as shown in Fig. 13. The Model XLO2 wrench is designed to fit into the cup and engage the wrench boss as shown in Fig. 14. Do NOT wrench any part of the sprinkler assembly other than the wrench boss. When inserting or removing the wrench from the sprinkler, care should be taken to prevent damage to the sprinkler. The sprinkler is then tightened into the pipe fitting to achieve a leak free connection. The recommended minimum to maximum installation torque is 22 30 lb-ft (30 40 N-m) for 1" NPT and ISO7-1R1 sprinklers, and 14 20 lb-ft (19 27 N-m) for 3/4" NPT and ISO7-1R3/4 sprinklers.

- 3a. Alternatively, where access to the outer tube of the sprinkler is available, the Model F3QR56 Dry sprinkler may be installed using a pipe wrench. The pipe wrench shall only be permitted to interface with the galvanized steel outer tube portion of the sprinkler (Item #8 in Fig. 15). Do NOT wrench any other portion of the sprinkler assembly. A pipe wrench can install the sprinkler into the fitting with a large amount of torque; consideration should be given to the need for future removal of the sprinkler because the installation torque will have to be matched or exceeded to remove the sprinkler. The recommended minimum to maximum installation torque is 22 - 30 lb-ft (30 - 40 N-m) for 1" NPT and ISO7-1R1 sprinklers, and 14 -20 lb-ft (19 – 27 N-m) for 3/4" NPT and ISO7-1R3/4 sprinklers.
- 4. Standard and Model HB escutcheons can be installed by slipping the escutcheon over the can until the escutcheon is seated against the ceiling or wall. Model F1 escutcheons are installed by pressing the escutcheon onto the collar until the escutcheon is seated against the ceiling or wall. The Model FP escutcheon is installed by pressing or threading the escutcheon into the cup by hand; the escutcheon can be tightened against the ceiling or wall by turning the escutcheon in a clockwise direction and removed by turning the escutcheon in a counter-clockwise direction. To install the Model CCP cover plate, first remove the protective clip. Install the Model CCP cover plate on the sprinkler by pressing or threading the cover plate into the cup by hand; the cover plate can be tightened against the ceiling by turning the cover plate in a clockwise direction and removed by turning the cover plate in a counter-clockwise direction.
- 5. Remove the orange protective clip when placing the sprinkler system in service.

Installation Data

| Sprinkler Model | Escutcheon or Cover Plate | Suggested Hole Diameter in Wall or Ceiling | Installation Wrench | Required Centerline of Sprinkler Tube/Inlet to Finished Ceiling Vertical Dimension* |
|--------------------------------------|---------------------------|---|------------------------|---|
| F3QR56 Dry Pendent | Standard Escutcheon | 2-1/8" (54 mm) | F3R | Not Applicable |
| | HB Extended Escutcheon | 2-1/2" (64 mm) | F3R | |
| | F1 Recessed Escutcheon | 2-1/4" (57 mm) | XLO2 | |
| | FP Recessed Escutcheon | - 2-1/2" (64 mm) | XLO2 | |
| | CCP Cover Plate | | XLO2 | |
| F3QR56 Dry Horizontal Sidewall | Standard Escutcheon | 2-1/8" (54 mm) | F3R | 4-5/8" to 12-5/8" (118 mm to 321 mm) |
| | HB Extended Escutcheon | 2-1/2" (64 mm) | F3R | |
| | F1 Recessed Escutcheon | 2-1/4" (57 mm) | XLO2 | cULus, NYC 4-5/8" to 6-5/8" (118 mm to 168 mm) |
| | FP Recessed Escutcheon | 2-1/2" (64 mm) | XLO2 | |
| | F1 Recessed Escutcheon | 2-1/4" (57 mm) | XLO2 | FM 4-5/8" to 12-5/8" (118 mm to 321 mm) |
| | FP Recessed Escutcheon | 2-1/2" (64 mm) | XLO2 | |
| F3QR56 Dry Upright | N/A | 1-1/2" (38mm) | F3R | Not Applicable |

*Note: Based on 5/8" (16 mm) centerline of sprinkler tube/inlet to defector vertical distance.

Maintenance

The Model F3QR56 Dry Sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25. Do not remove the factory applied thermally sensitive wax fillet between the bulb supporting cup and the wrenching boss. Do not replace this wax with a substitute substance.

An Alternate substance may interfere with proper operation of the sprinkler. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gently 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. Prior to installation, sprinklers should be maintained in the original cartons and packaging until used to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Ordering Information

Specify:

- 1. Sprinkler: [Model F3QR56 Dry Pendent SIN R5714] [Model F3QR56 Dry Horizontal Sidewall SIN R5734] [Model F2QR Dry Upright SIN R5724]
- Escutcheon/Cover Plate: [None][Standard escutcheon] [Model HB extended escutcheon][Model F1 recessed escutcheon][Model FP recessed escutcheon][Model CCP cover plate – pendent only]
- 3. Inlet Threads: [1" NPT][ISO7-1R1][3/4" NPT][ISO7-1R3/4]

- 4. Inlet Fitting: [Long Standard Inlet Fitting][Short "PL" Wet Pipe Systems only]
- 5. Sprinkler Temperature Rating: See Temperature Ratings Table
- 6. Sprinkler Finish: See Finish Combinations Table
- 7. Escutcheon/Cover Plate Finish: See Finish Combinations Table
- 8. Length:

*For dry pendents and dry sidewalls: "A" Dimension is from face of tee to face of finished ceiling or wall in 1/4" (6mm) increments. See Fig. 1 through Fig. 9. *For dry uprights: Order dimension is from face of tee to top of deflector in 1/4" (6mm) increments. See Fig. 10.

Notes:

1. For Dry Upright, customer is responsible for determining the correct deflector distance from structure above.

2. Length is based on normally gauged pipe thread "make-up" of .600" (15mm) per ANSI B2.1 (approximately 7-1/2 threads).

Installation Wrench

Model F3R Sprinkler Wrench (Standard and HB escutcheons) Model XLO2 Sprinkler Wrench (FP Recessed and CCP Concealed)

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.

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