SMITH FIRE SYSTEMS, INC.

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FIRE SPRINKLER EQUIPMENT INDEX

PROJECT INFORMATION:
MERIDIAN CENTER FAÇADE
4423 SOUTH MERIDIAN
PUYALLUP, WA 98373

11/12/2024

SFS PROJECT NUMBER: T124064

SPRINKLERS

NO.	MANUFACTURER	SIZE	MODEL	DESCRIPTION
	•	•	•	
1	RELIABLE	5.6K	F1FR56	QUICK RESPONSE SPRINKLERS
2	RELIABLE	5.6K	F3-56	CHROME DRY SPRINKLER

MISC. EQUIPMENT

NO.	MANUFACTURER	SIZE	MODEL	DESCRIPTION
14	TYCO	1"	DD-1	DRUM DRIP



F1FR56 Series **Quick Response Sprinklers**

K-factor 5.6 (80)

Features

- Standard coverage quick-response sprinklers
- Upright, pendent, horizontal sidewall, and vertical sidewall deflectors
- Low profile, compact design
- Available in a wide variety of finishes

Product Description

Reliable Model F1FR56 series sprinklers are quick-response standard spray automatic fire sprinklers utilizing a sensitive 3.0 mm glass bulb thermal element.

Pendent and horizontal sidewall sprinklers may be installed exposed or surface mounted using escutcheons such as the Reliable Models B, C, or HB (reference Technical Bulletin 204). When installed recessed or concealed, the Model F1FR56 series sprinklers are specifically listed with and may only be installed with listed Reliable escutcheons and cover plates. Refer to the technical information on the following pages for specific listings for recessed and concealed installations and refer to Figures 5 and 6 for dimensional information.

When fitted with an approved water shield, these sprinklers may considered intermediate sprinklers for use in racks, below grated walkways, and other areas where intermediate level sprinklers are required.

Table A provides a summary of the approvals and availability of specific Model F1FR series sprinkler configurations. Additional technical information for each sprinkler model is provided on the following pages.

Important! Reliable fire sprinklers must be handled, stored, and installed in accordance with the guidelines in Caution Sheet 310 and this bulletin. Failure to follow these instructions may result in unintended operation or nonoperation of the fire protection system.



Model F1FR56 Pendent



Model F1FR56 Upright



Model F1FR56 Vertical Sidewall



Model F1FR56 Horizontal Sidewall

Note: Not all versions of the product are shown.

Note: This bulletin may contain information on New and Legacy sprinklers that reflects a dimensional change only. Sprinkler Identification Number (SIN), application, performance, and listings/ approval are not otherwise affected. Sprinklers with New frames will include the suffix "N" in the order.

F1FR Series Sprinkler Summary						
Sprinkler Model	K-Factor gpm/psi ^{1/2} (lpm/bar ^{1/2})	Orientation	Listings & Approvals	Max. Working Pressure psi (bar)	Sprinkler Identification Number (SIN)	
F1FR56	5.6 (80)	Upright Intermediate Upright	cULus, FM, LPCB, VdS, EC, WM, UKCA	175 (12) 250 (17) (cULus only)	RA1425	
		Pendent	cULus, FM, LPCB, VdS, EC, WM, UKCA	175 (12) 250 (17) (cULus only)	RA1414	
		Concealed Pendent	cULus, VdS, EC, WM, UKCA	175 (12) 250 (17) (cULus only)	RA1414	
		Horizontal Sidewall	cULus, FM	175 (12)	RA1435	
		Vertical Sidewall	cULus, FM, LPCB, UKCA	175 (12)	RA1485	

Model F1FR56 Upright Sprinkler

SIN RA1425

Technical Specifications

Style: Upright, Intermediate Upright Threads: 1/2" NPT or ISO 7-R1/2 Nominal K-Factor: 5.6 (80 metric)

Max. Working Pressure:

175 psi (12 bar) 250 psi (17 bar) (cULus only)

Material Specifications

Thermal Sensor: 3 mm Glass Bulb Sprinkler Frame: Brass Alloy

Cap: Bronze Alloy

Sealing Washer: Nickel with PTFE Load Screw: Copper Alloy Deflector: Brass Alloy

Sprinkler Finishes

(See Table B)

Sensitivity

Quick response

Temperature Ratings

135°F (57°C)

155°F (68°C)

175°F (79°C) 200°F (93°C)

286°F (141°C)

Guards & Shields (New Frames)

Factory Water Shield (cULus, FM)

F-1 Guard (cULus, FM)

F-3 Guard with Shield (cULus, FM)

Guards and Shields (Legacy Frames)

Factory Water Shield

C-1 Guard (FM)

C-3 Guard with Shield (cULus, FM)

D-1 Guard (cULus)

D-3 Guard with Shield (cULus)

Sprinkler Wrench

Model W2

Model W14 (New frame with guard installed) Model W13 (Legacy frame with guard

installed)

Listings and Approvals

cULus Listed

FM Approved LPCB

VdS

EC

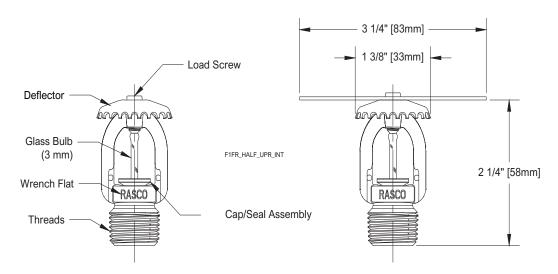
WM

UKCA: 0832-UKCA-CPR-S5045



Model F1FR56 Upright Sprinkler Components and Dimensions

Figure 1



Shown with Optional Factory Installed Water Shield (Intermediate Upright)

Model F1FR56 Pendent Sprinkler

SIN RA1414

Technical Specifications

Style:

Pendent

Recessed Pendent Concealed Pendent

Threads: 1/2" NPT or ISO 7-R1/2 Nominal K-Factor: 5.6 (80 metric)

Max. Working Pressure: 175 psi (12 bar)

250 psi (17 bar) (cULus only)

Material Specifications

Thermal Sensor: 3 mm Glass Bulb **Sprinkler Frame:** Brass Alloy

Cap: Bronze Alloy

Sealing Washer: Nickel with PTFE Load Screw: Copper Alloy Deflector: Brass Alloy

Sprinkler Finishes

(See Table B)

Sensitivity

Quick response

Temperature Ratings(1)

135°F (57°C) 155°F (68°C) 175°F (79°C) 200°F (93°C) 286°F (141°C)

Recessed Escutcheons

Model F1 (cULus, LPCB, VdS, CE, WM) Model F2 (cULus, FM, LPCB, VdS, CE, WM) Model FP (cULus, VdS, CE, WM)

Cover Plate

Model CCP (cULus, VdS(2), CE(2))

Guards & Shields (New Frames)(3)

F-1 Guard (FM)

F-5 Guard/Shield Kit (FM)

F-7 Guard (cULus)

F-8 Guard/Shield Kit (cULus) S-1 Shield (cULus, FM)

Guards & Shields (Legacy Frames)(3)

C-1 Guard (FM)

C-5 Guard/Shield Kit (FM)
D-1 Guard (cULus, FM)
D-4 Guard/Shield Kit (FM)
D-5 Guard/Shield Kit (cULus, FM)

S-1 Shield (cULus, FM)

Sprinkler Wrenches

Model W2 (pendent)

Model W4 (recessed or concealed)

Model W14 (New frame with guard installed) Model W13 (Legacy frame with guard in-

stalled)

Listings and Approvals(4)

cULus Listed FM Approved LPCB VdS EC WM

UKCA: 0832-UKCA-CPR-S5045, 0831-UK-

CA-CPR-5072 (CCP)

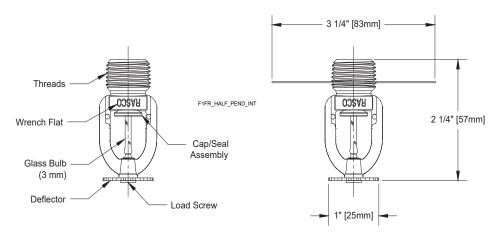


Notes

- 1. 286°F (141°C) temperature rated sprinkler not listed for recessed or concealed use.
- 2. VdS and CE approval for CCP concealed use is for 155°C (68°C) sprinkler ONLY.
- 3. Not suitable for recessed or concealed pendent installations.
- 4. When used surface mounted or exposed. See Recessed Escutcheon and Cover Plate section for specific approvals when installed recessed or concealed.

Model F1FR56 Pendent Sprinkler Components and Dimensions

Figure 2



Shown with Optional S-1 Water Shield (Ordered Separately)

Note: Please refer to Figure 8 for recessed and concealed installation.



Model F1FR56 Horizontal Sidewall Sprinkler

Technical Specifications

Style:

Horizontal Sidewall

Recessed Horizontal Sidewall Threads: 1/2" NPT or ISO 7-R1/2 Nominal K-Factor: 5.6 (80 metric) Max. Working Pressure:

175 psi (12 bar) Material Specifications

Thermal Sensor: 3 mm Glass Bulb Sprinkler Frame: Brass Alloy

Cap: Bronze Alloy

Sealing Washer: Nickel with PTFE Load Screw: Copper Alloy Deflector: Brass Alloy

Sprinkler Finishes

(See Table B)

Sensitivity

Quick response

Temperature Ratings (1)

135°F (57°C)

155°F (68°C)

175°F (79°C)

200°F (93°C)

286°F (141°C)

Recessed Escutcheons(2)

Model F1 (cULus) Model F2 (cULus, FM) Model FP (cULus)

Guards & Shields (New Frames)(3)

F-4 Guard (FM) F-7 Guard (cULus)

Guards & Shields (Legacy Frames)(3)

C1 Guard (FM) D1 Guard (cULus)

Sprinkler Wrenches

Model W2 (non-recessed)
Model W4 (recessed)

Model W14 (New frame with guard installed)
Model W13 (Legacy frame with guard

installed)

Listings and Approvals

cULus Listed⁽⁴⁾ FM Approved⁽⁵⁾



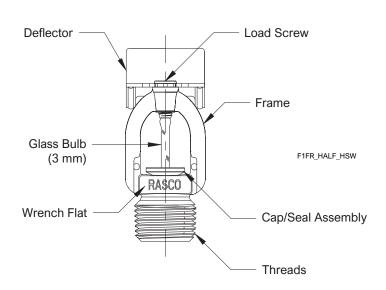
SIN RA1435

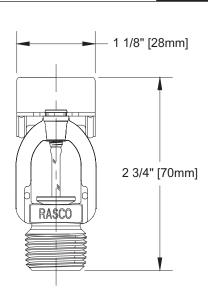
Notes:

- 1. 286°F (141°C) temperature rated sprinkler not listed for recessed use.
- 2. FM approved recessed installation when used with Model F2 escutcheon ONLY.
- 3. Not suitable for recessed horizontal sidewall installations.
- cULus Listed for Light and Ordinary Hazard when installed exposed or surface mounted. Listed for Light Hazard ONLY when installed recessed.
- 5. FM Approved for Light Hazard ONLY.

Model F1FR56 Horizontal Sidewall Sprinkler Components and Dimensions

Figure 3





Note: Please refer to Figure 9 for recessed installation.



Model F1FR56 Vertical Sidewall Sprinkler

SIN RA1485

Technical Specifications

Style:

Upright Vertical Sidewall Pendent Vertical Sidewall Threads: 1/2" NPT or ISO 7-R1/2 Nominal K-Factor: 5.6 (80 metric) Max. Working Pressure: 175 psi (12 bar)

Material Specifications

Thermal Sensor: 3 mm Glass Bulb Sprinkler Frame: Brass Alloy

Cap: Bronze Alloy

Sealing Washer: Nickel with PTFE Load Screw: Copper Alloy **Deflector:** Brass Alloy

Sprinkler Finishes

(See Table B)

Sensitivity

Quick response

Temperature Ratings

135°F (57°C)

155°F (68°C)

175°F (79°C)

200°F (93°C)

286°F (141°C)

Guards & Shields (New Frames)

F-2 Guard (FM)

Guards & Shields (Legacy Frames)

C1 Guard (FM)

Sprinkler Wrenches

Model W2

Model W14 (New frame with guard installed)

Model W13 (Legacy frame with guard

installed)

Listings and Approvals(1)

cULus Listed FM Approved LPCB(2)

UKCA: 0832-UKCA-CPR-S5045



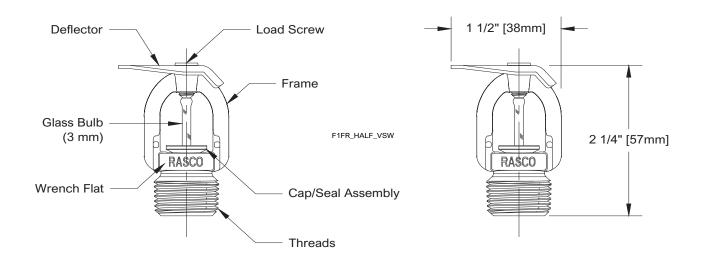
Notes:

Listed and approved for Light Hazard ONLY.

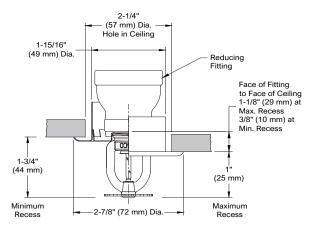
LPCB approved for use in pendent position ONLY.

Model F1FR56 Vertical Sprinkler Components and Dimensions

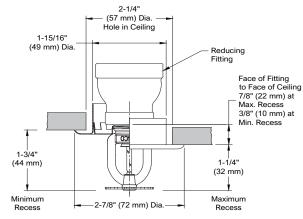
Figure 4



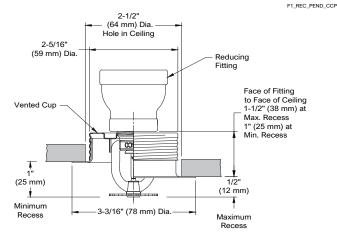




Models F1 & F1FR Pendent Sprinkler with Model F1 Recessed Escutcheon 3/4" (19mm) Nominal Adjustment

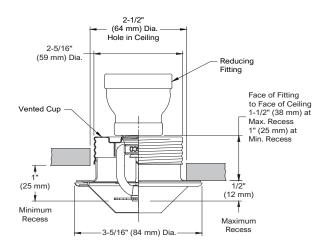


Models F1 & F1FR Pendent Sprinkler with Model F2 Recessed Escutcheon 1/2" (13mm) Nominal Adjustment



Models F1 & F1FR Pendent Sprinkler with Model FP Recessed Escutcheon 1/2" (13mm) Nominal Adjustment

Note: Model FP recessed assemblies may not be used where the pressure in the space above the ceiling is positive with respect to the protected area. Ensure that the openings in the Model FP cup are unobstructed following installation.



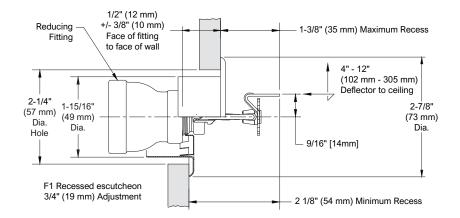
Model F1FR56 CCP Conical Concealed Sprinkler 1/2" (13mm) Nominal Adjustment (Nominal Cover Plate Projection is 1" (25 mm))

Note: Model CCP concealed assemblies may not be used where the pressure in the space above the ceiling is positive with respect to the protected area. Ensure that the openings in the Model CCP cup are unobstructed following installation.



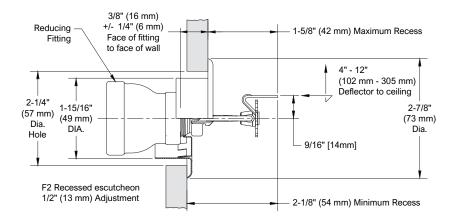




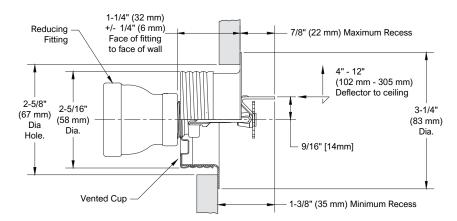


Model F1FR Horizontal Sidewall Sprinkler with Model F1 Recessed Escutcheon 3/4" (19mm) Nominal Adjustment

F1FR_REC_HSW

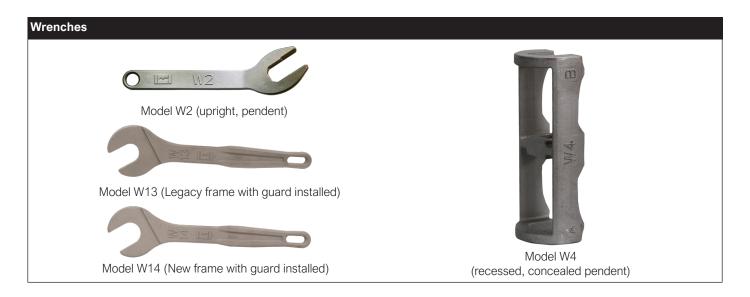


Model F1FR Horizontal Sidewall Sprinkler with Model F2 Recessed Escutcheon 1/2" (13mm) Nominal Adjustment



Model F1FR Horizontal Sidewall Sprinkler with Model FP Recessed Escutcheon 1/2" (13mm) Nominal Adjustment

Note: Model FP recessed assemblies may not be used where the pressure in the space behind the sprinkler is positive with respect to the space in the protected area. Ensure that the openings in the Model FP cup are unobstructed following installation.



Finishes ⁽¹⁾					Table B
S	tandard Finishes		Special Application Finishes		
Sprinkler	F1, F2 and FP ⁽²⁾ Escutcheons	CCP Cover Plate ⁽²⁾	Sprinkler	F1, F2 and FP ⁽²⁾ Escutcheons	CCP Cover Plate ⁽²⁾
Bronze	Brass	Chrome	Electroless Nickel PTFE(3)(4)	Bright Brass	Bright Brass
Chrome	Chrome	White Paint	Bright Brass ⁽⁵⁾	Satin Chrome	Satin Chrome
White Polyester(3)	White Polyester		Satin Chrome	Custom Color Polyester	Custom Color Paint
			Custom Color Polyester(3)		

Notes:

- 1. Paint or any other coating applied over the factory finish will void all approvals and warranties.
- 2. Model FP escutcheons and Model CCP sprinklers utilize a galvanized steel cup with a finished trim ring or cover plate.
- 3. cULus Listed as corrosion resistant.
- 4. FM Approved as corrosion resistant.
- 5. For 200°F (93°C) maximum temperature rated sprinklers only.

Installation

Model F1FR Series sprinklers must be installed in accordance with NFPA13 and the requirements of all applicable authorities having jurisdiction. Model F1FR Series sprinklers must be installed with the Reliable sprinkler installation wrench identified in this Bulletin. Any other wrench may damage the sprinkler. The Models W2 and W4 wrenches have two sets of jaws. Use the smallest set of jaws that fit on the wrench flats of 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.

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.

Maintenance

Reliable Model F1FR series sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25, as well as the requirements of any Authorities Having Jurisdiction.

Prior to installation, sprinklers should remain in the original cartons and packaging until used. This will minimize the potential for damage to sprinklers that could cause improper operation or non-operation.

Do not clean sprinklers with soap and water, ammonia liquid or any other cleaning fluids. Remove dust by gentle vacuuming without touching the sprinkler.

Replace any sprinkler which has been painted (other than factory applied). 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 guarantee, terms, and conditions, visit www. reliablesprinkler.com.

Ordering Information

Specify the following when ordering:

Model

• F1FR56

Deflector/Orientation

- Upright
- Intermediate Upright
- Pendent
- CCP Concealed Pendent
- Horizontal Sidewall
- Vertical Sidewall

Temperature Rating

• See sprinkler technical specifications

Sprinkler Finish

See Table B

Recessed Escutcheon(1)(2)

- F1
- F2
- FP

Escutcheon Finish

See Table B

CCP Cover Plate Temperature Rating

- 135°F (57°C) [For use with 135°F (57°C) and 155°F (68°C) sprinklers.]
- 165°F (74°C) [For use with 175°F (79°C) and 200°F (93°C) sprinklers.]

CCP Cover Plate Finish

See Table B

Sprinkler Wrench

- Model W2
- Model W4 (recessed, concealed)
- Model W14 (New frame with guard installed)
- Model W13 (Legacy frame with guard installed)

Notes:

- 1. 286°F (141°C) sprinklers are not listed to be used recessed or concealed.
- 2. For FM, recessed sprinklers must use the Model F2 escutcheon.



Model F3-56 Series Standard-Response Dry Sprinkler

K-factor 5.6 (80 metric)

Features

- Various trim options available
- Sprinklers and trim available in a wide variety of standard and special application finishes
- Listed corrosion resistant combinations of sprinkler and trim available

Product Description

Model F3-56 dry sprinklers are standard-response, standard coverage sprinklers with a nominal K-factor of 5.6 (80 metric). Available in pendent, horizontal sidewall, and upright configurations, Model F3-56 dry sprinklers utilize a 5mm glass bulb ordinary, intermediate, or high temperature classification operating element.

Model F3-56 dry sprinklers are intended for installation on wet pipe, dry pipe, or preaction systems in accordance with NFPA 13, FM Property Loss Prevention Data Sheets, or other applicable installation standards.

Model F3-56 dry sprinklers are available in a variety of trim options and finish combinations as shown on the following pages. The Reliable escutcheons and cover plates shown are the only escutcheons and cover plates listed for use with the sprinkler. The use of any other escutcheon or cover plate will void all guarantees, warranty, listing, and approvals.

Standard inlet fitting threads are 1" NPT or ISO7-R1 threads. An inlet fitting with 3/4" NPT or ISO7-R3/4 threads (cULus listed only) is also available for select sprinklers for replacement of existing sprinklers.

Table A provides a basic summary of Model F3-56 dry sprinklers. Additional technical information is provided on the following individual sprinkler pages.

Important! Reliable fire sprinklers must be handled, stored, and installed in accordance with the guidelines in Caution Sheet 310 and this bulletin. Failure to follow these instructions may result in unintended operation or nonoperation of the fire protection system.













(**Note**: not all versions of sprinkler shown, please see pages 2 through 13)

Sprinkler Summary

Sprinkler Summary				lable A
Model	K-Factor gpm/psi ^{1/2} (lpm/bar ^{1/2})	Approvals*	Max. Working Pressure psi (bar)	Sprinkler Identification Number (SIN)
F3-56 Dry Pendent	5.6 (80)	cULus, FM, LPCB, CE. VdS	175 (12.0) cULus 250 (17.2)	R5314
F3-56 Dry Horizontal Sidewall	5.6 (80)	cULus, FM, LPCB, CE	175 (12.0) cULus 250 (17.2)	R5334
F3-56 Dry Upright	5.6 (80)	cULus	175 (12.0)	R5324

^{*}Note: Approvals may not apply to all trim, inlet thread, temperature, and/or finish combinations. See pages 2-11 for additional technical information.

Model F3-56 Dry Pendent: Standard Escutcheon - SIN R5314

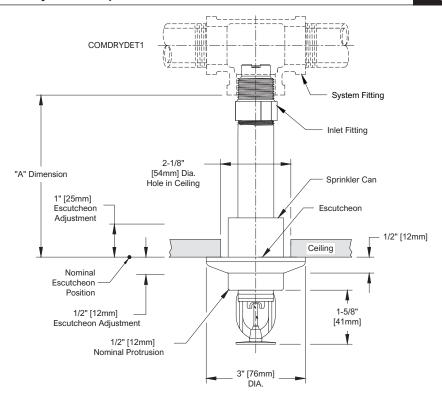
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
2" to 48" (51mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 2" to 36" (51mm to 914mm) in 1/4" (6mm) increments for 3/4" connections	Ordinary	155°F (68°C)	Red	cULus	
	Intermediate	175°F (79°C)	Yellow	FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
	memediate	200°F (93°C)	Green		C-2
	High	286°F (141°C)	Blue	cULus FM	



Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Pendent Sprinkler: Standard Escutcheon

Figure 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(3)(4)			
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)(5)	Polished Stainless			
Wax ⁽¹⁾⁽²⁾	Polished Stainless			
Lead ⁽¹⁾	Polished Stainless			
Wax over Lead(1)(2)	Polished Stainless			

Notes:

1. UL Listed as Corrosion Resistant.

Table B

- Clear wax used on ordinary temperature rated sprinklers; brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).
- 3. Escutcheons do not carry corrosion resistant listings.
- 4. Base material is 316 stainless steel unless noted.
- 5. FM Approved as Corrosion Resistant.



Model F3-56 Dry Pendent: HB Escutcheon - SIN R5314

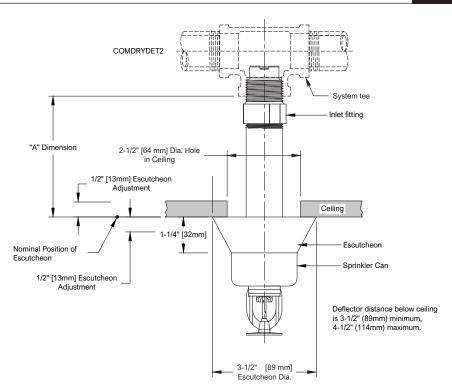
initiation of Differential in Description on the contract of t					
"A" Dimension in (mm)	Temperature Classification	Temperature Rating F (C)	Glass Bulb Color	Approvals	Sprinkler Guard
3½" to 48" (89mm	Ordinary	155°F (68°C)	Red	cULus	
to 1219mm) in 1/4" (6mm) increments for 1" connections or 3½" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4"		175°F (79°C)	Yellow	FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
	Intermediate	200°F (93°C)	Green		C-2
connections	High	286°F (141°C)	Blue	cULus FM	



Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Pendent Sprinkler: HB Escutcheon

Figure 2



Note: The sprinkler can protrudes 11/4" when escutcheon is in nominal p	position. Escutcheon adjustment
provides -1/2" (-12.7mm) to +1/2" (+12.7mm) "A" dimension adjustments at 52	ent range.

R	e	ia	Ь	lể

Finish Combinations: HB Escutcheon				
Sprinkler	Escutcheon(3)(4)			
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⁾⁽⁵⁾	Stainless Steel			
Wax ⁽¹⁾⁽²⁾	Chrome			
Lead ⁽¹⁾	Stainless Steel			
Wax over Lead ⁽¹⁾⁽²⁾	Stainless Steel			

Notes:

- 1. UL Listed as Corrosion Resistant.
- Clear wax used on ordinary temperature rated sprinklers; brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).
- 3. Escutcheons do not carry corrosion resistant listings.
- 4. Base material is cold rolled steel unless noted.

Table C

5. FM Approved as Corrosion Resistant.

Model F3-56 Dry Pendent: FP Escutcheon - SIN R5314

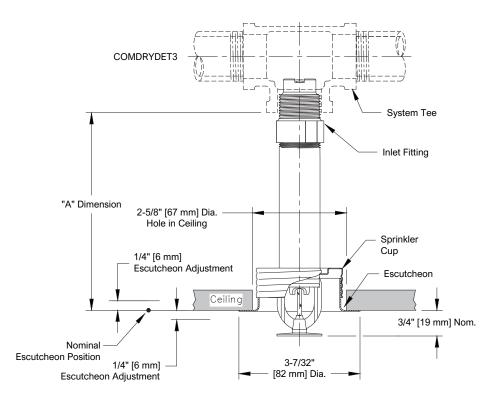
Model 1 5-50 big 1 endent. 11 Escutcheon - 514 K5514					
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
3 ¹ / ₂ " to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 3½" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4"	Ordinary	155°F (68°C)	Red	cULus	
	Lata and a Pata	175°F (79°C)	Yellow	FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
	Intermediate	200°F (93°C)	Green		N/A
connections	High	286°F (141°C)	Blue	cULus	



Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Pendent Sprinkler: FP Escutcheon

Figure 3



Note: Do not install the Model F3-56 Dry Pendent sprinkler with the Model FP escutcheon in ceilings which have positive pressure in the space above.

Finish Combinations: FP Recessed			
Sprinkler ⁽¹⁾	Escutcheon(3)(4)		
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		

Notes:

- Cup for FP Recessed is unfinished galvanized steel except electroless nickel PTFE sprinklers which are provided with 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.

Table D

5. FM Approved as Corrosion Resistant.

Model F3-56 Dry Pendent: CCP Cover Plate - SIN R5314

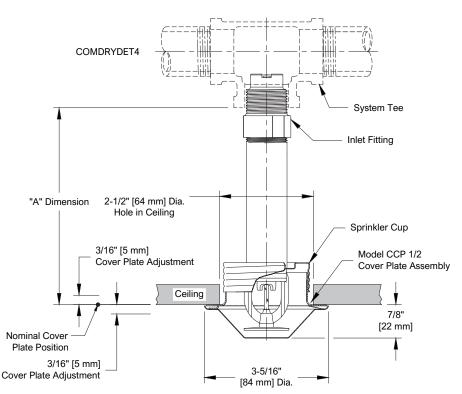
Moder 1 3-30 bry 1 endent. Oor Gover 1 late - on 10314					Idble L
"A" Dimension in (mm)	Temperature Classification	Temperature Rating F (C)	Glass Bulb Color	Approvals	Sprinkler Guard
31/2" to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 31/2" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections	Ordinary	155°F (68°C)	Red	cULus	
	Intermediate	175°F (79°C)	Yellow	FM LPCB CE (2381-CPR-S2006)	N/4
	Intermediate	200°F (93°C)	Green	UKCA (0832-UKCA-CPR-S5043)	N/A
	High (See Caution)	286°F (141°C)	Blue	cULus	



Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Pendent Sprinkler: CCP Cover Plate

Figure 4



Note: Do not install the Model F3-56 Dry Pendent sprinkler with the Model CCP cover plate in ceilings which have positive pressure in the space above.

Finish Combinations: CCP Concealed			
Sprinkler ⁽¹⁾	Cover Plate ⁽²⁾		
Bronze	White Polyester		
	Chrome Bright		
	Satin Chrome		
	Bright Brass		
	Unfinished Bronze		
	Black Plate		
	Custom Color		

Notes:

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

Table F

Caution: High temperature CCP sprinklers are provided with a 165°F (74°C) rated cover plate that is suitable for use where the ceiling temperature will not exceed 150°F (66°C). Do not use CCP style sprinklers where the ceiling temperature exceeds 150°F (66°C).

Model F3-56 Dry Pendent: F1 Escutcheon - SIN R5314

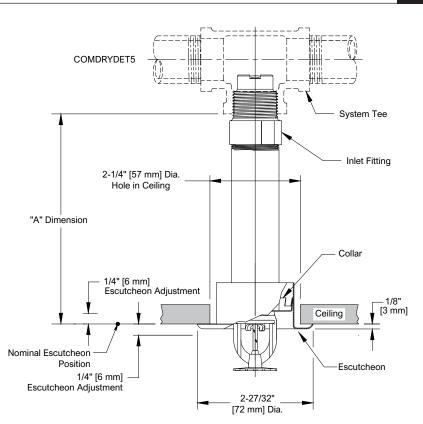
model i e ee zij i ende	Jiiti I Loodtonoon	OII TROOT I			Table I
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
31/2" to 48" (89mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 31/2" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections.	Ordinary	155°F (68°C)	Red	cULus FM LPCB CE (2381-CPR-S2006)	
	lata an adiata	175°F (79°C)	Yellow		
	Intermediate	200°F (93°C)	Green	UKCA (0832-UKCA-CPR-S5043)	N/A
	High	286°F (141°C)	Blue	cULus	



Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Pendent Sprinkler: F1 Escutcheon

Figure 5



Finish Combinations: F1 Recessed			
Sprinkler	Escutcheon(2)(3)		
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		
	,		

Notes:

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

Table F

4. FM Approved as Corrosion Resistant.



Model F3-56 Dry Pendent: No Escutcheon - SIN R5314

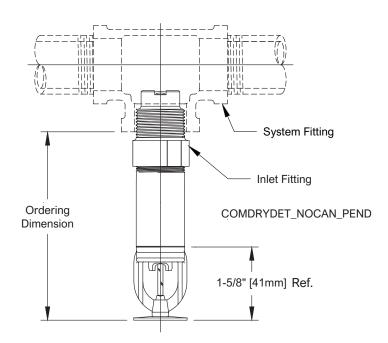
Order Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
5" to 48" (127mm to 1219mm) in 1/4" (6mm) increments for 1" connections or 5" to 36" (127mm to 914mm) in 1/4" (6mm) increments for 3/4" connections.	Ordinary	155°F (68°C)	Red	cULus FM LPCB CE (2381-CPR-S2006)	
	Intermediate	175°F (79°C)	Yellow		A1//A
	Intermediate	200°F (93°C)	Green	UKCA (0832-UKCA-CPR-S5043)	N/A
	High	286°F (141°C)	Blue	cULus FM	



Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Pendent Sprinkler: No Escutcheon

Figure 6



Note: Customer is responsible for determining the correct deflector distance from the ceiling or structure above.

Available Finishes: No Escutcheon				
Sprinkler				
Bronze				
Chrome				
White Polyester ⁽¹⁾				
Black Polyester ⁽¹⁾				
Custom Color Polyester ⁽¹⁾				
Electroless Nickel PTFE ⁽¹⁾⁽³⁾				
Wax ⁽¹⁾⁽²⁾				
Lead ⁽¹⁾				
Wax over Lead ⁽¹⁾⁽²⁾				

Notes:

- 1. UL Listed as Corrosion Resistant.
- Clear wax used on ordinary temperature rated sprinklers; brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).
- 3. FM Approved as Corrosion Resistant.



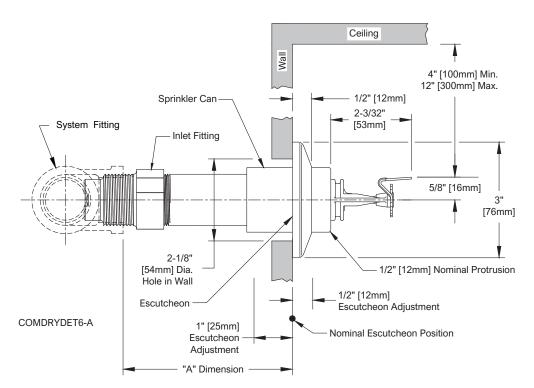
Model F3-56 Dry Horizontal Sidewall: Standard Escutcheon - SIN R5334

"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard	
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	Ordinary	155°F (68°C)	Red	cULus (Light Hazard Only) FM (HC-1 Only) LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	cULus (Light Hazard Only)	
	Intermediate	175°F (79°C)	Yellow		C-2	
	mermediate	200°F (93°C)	Green		(FM Only)	
	High	286°F (141°C)	Blue	cULus (Light Hazard Only) FM (HC-1 Only)		

Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Horizontal Sidewall: Standard Escutcheon

Figure 7



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

Finish Combinations: Standard Escutcheon				
Sprinkler	Escutcheon(3)(4)			
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⁾⁽⁵⁾	Polished Stainless			
Wax ⁽¹⁾⁽²⁾	Polished Stainless			
Lead ⁽¹⁾	Polished Stainless			
Wax over Lead(1)(2)	Polished Stainless			

Notes:

- 1. UL Listed as Corrosion Resistant.
- Clear wax used on ordinary temperature rated sprinklers; brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).
- 3. Escutcheons do not carry corrosion resistant listings.
- 4. Base material is 316 stainless steel unless noted.

Table H

5. FM Approved as Corrosion Resistant.



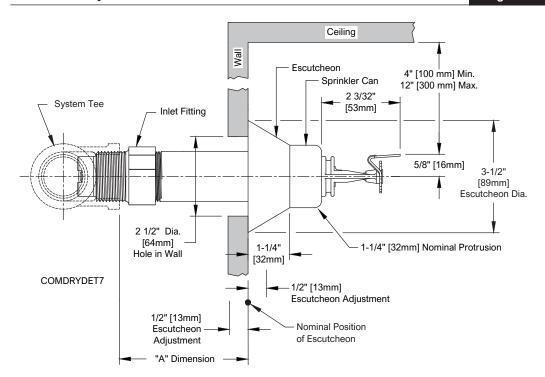
Model F3-56 Dry Horizontal Sidewall: HB Escutcheon - SIN R5334

model 1 3-30 bity florizontal oldewall. Tib Escatcheon - one 13334				lable I	
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
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	Ordinary	155°F (68°C)	Red	cULus (Light Hazard Only) FM (HC-1 Only) LPCB CE (2381-CPR-S2006)	
	late and dieta	175°F (79°C)	Yellow		C-2
	Intermediate	200°F (93°C)	Green	UKCA (0832-UKCA-CPR-S5043)	(FM Only)
	High	286°F (141°C)	Blue	cULus (Light Hazard Only) FM (HC-1 Only)	

Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Horizontal Sidewall: HB Escutcheon

Figure 8



Finish Combinations: HB Escutcheon			
Sprinkler	Escutcheon(3)(4)		
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⁾⁽⁵⁾	Stainless Steel		
Wax ⁽¹⁾⁽²⁾	Chrome		
Lead ⁽¹⁾	Stainless Steel		
Wax over Lead ⁽¹⁾⁽²⁾	Stainless Steel		

Notes:

- 1. UL Listed as Corrosion Resistant.
- Clear wax used on ordinary temperature rated sprinklers; brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).
- 3. Escutcheons do not carry corrosion resistant listings.
- 4. Base material is cold rolled steel unless noted.

Table I

5. FM Approved as Corrosion Resistant.

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.

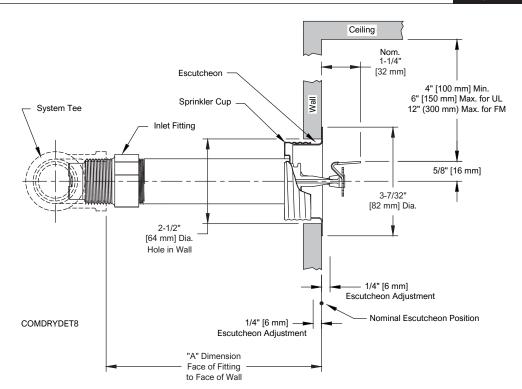
Model F3-56 Dry Horizontal Sidewall: FP Escutcheon - SIN R5334

Model i 3-30 Di y Horizo	ontai Sidewan. i F L	Scutcheon - 3114 113334			lable 3
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
3 ¹ / ₂ " to 48" (89mm	Ordinary	155°F (68°C)	Red	cULus (Light Hazard Only)	
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	Intermediate	175°F (79°C)	Yellow	FM (HC-1 Only) LPCB CE (2381-CPR-S2006)	N/A
	Intermediate	200°F (93°C)	Green	UKCA (0832-UKCA-CPR-S5043)	N/A
	High	286°F (141°C)	Blue	cULus (Light Hazard Only) FM (HC-1 Only)	

Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Horizontal Sidewall: FP Escutcheon

Figure 9



Note: Do not install the Model F3-56 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			
Sprinkler ⁽¹⁾	Escutcheon(3)(4)		
Bronze	Brass		
Chrome	Chrome		
White Polyester ⁽²⁾	White Polyester		
Black Polyester ⁽²⁾	Black Polyester		
Custom Color Polyester ⁽²⁾ Custom Color Polyeste			
Electroless Nickel PTFE(2)(5)	Stainless Steel		

Notes:

- Cup for FP Recessed is unfinished galvanized steel except electroless nickel PTFE sprinklers which are provided with a stainless steel cup
- 2. UL Listed as Corrosion Resistant.
- 3. Escutcheons do not carry corrosion resistant listings.
- Base material is cold rolled steel unless noted.

Table

5. FM Approved as Corrosion Resistant.

Model F3-56 Dry Horizontal Sidewall: F1 Escutcheon - SIN R5334

"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
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	Ordinary	155°F (68°C)	Red	cULus (Light Hazard Only) FM (HC-1 Only) LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
	lata and Pata	175°F (79°C)	Yellow		N//A
	Intermediate	200°F (93°C)	Green		N/A
	High	286°F (141°C)	Blue	cULus (Light Hazard Only) FM (HC-1 Only)	

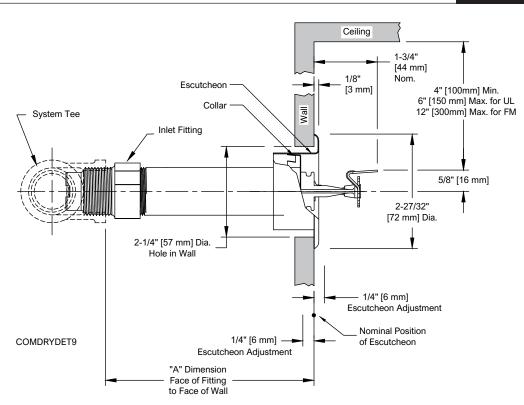
Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).



Note: Model F3-56 standard response sidewall sprinklers should be considered as replacement sprinklers only in light hazard occupancies.

Model F3-56 Dry Horizontal Sidewall: F1 Escutcheon

Figure 10



Finish Combinations: F1 Recessed			
Sprinkler	Escutcheon(2)(3)		
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		

Notes:

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

Table K

4. FM Approved as Corrosion Resistant.

Model F3-56 Dry Horizontal Sidewall: No Escutcheon - SIN R5334

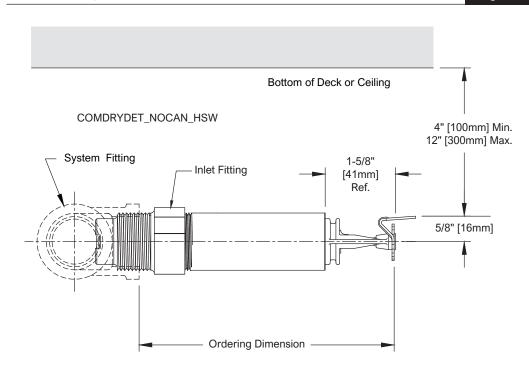
rate 19-30 by Horizontal oldewall. No Escutcheon - Oliv 13354				Idble L	
Order Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
5" to 48" (127mm	Ordinary	155°F (68°C)	Red	cULus (Light Hazard Only)	
to 1219mm) in 1/4" (6mm) increments for 1" connections or 5" to 36" (127mm to 914mm) in 1/4" (6mm) increments for 3/4" connections	late and dieta	175°F (79°C)	Yellow	FM (HC-1 Only) LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	N/A
	Intermediate	200°F (93°C)	Green		N/A
	High	286°F (141°C)	Blue	cULus (Light Hazard Only) FM (HC-1 Only)	



Note: Standard inlet fitting threads are 1" NPT or ISO7-R1. Inlet fitting is also available with 3/4" NPT and ISO-R3/4 threads for replacement of existing sprinklers (cULus Listed only).

Model F3-56 Dry Horizontal Sidewall: No Escutcheon

Figure 11



Note: Customer is responsible for determining the correct distance from the wall to the sprinkler deflector.

Sprinkler Bronze Chrome White Polyester(1) Black Polyester(1) Custom Color Polyester(1) Electroless Nickel PTFE(1)(3) Wax(1)(2) Lead(1)	Available Finishes: No Escutcheon			
Chrome White Polyester ⁽¹⁾ Black Polyester ⁽¹⁾ Custom Color Polyester ⁽¹⁾ Electroless Nickel PTFE ⁽¹⁾⁽³⁾ Wax ⁽¹⁾⁽²⁾	Sprinkler			
White Polyester ⁽¹⁾ Black Polyester ⁽¹⁾ Custom Color Polyester ⁽¹⁾ Electroless Nickel PTFE ⁽¹⁾⁽³⁾ Wax ⁽¹⁾⁽²⁾	Bronze			
Black Polyester ⁽¹⁾ Custom Color Polyester ⁽¹⁾ Electroless Nickel PTFE ⁽¹⁾⁽³⁾ Wax ⁽¹⁾⁽²⁾	Chrome			
Custom Color Polyester ⁽¹⁾ Electroless Nickel PTFE ⁽¹⁾⁽³⁾ Wax ⁽¹⁾⁽²⁾	White Polyester ⁽¹⁾			
Electroless Nickel PTFE ⁽¹⁾⁽³⁾ Wax ⁽¹⁾⁽²⁾	Black Polyester ⁽¹⁾			
Wax ⁽¹⁾⁽²⁾	Custom Color Polyester ⁽¹⁾			
	Electroless Nickel PTFE ⁽¹⁾⁽³⁾			
Lead ⁽¹⁾	Wax ⁽¹⁾⁽²⁾			
Ecua	Lead ⁽¹⁾			
Wax over Lead ⁽¹⁾⁽²⁾	Wax over Lead ⁽¹⁾⁽²⁾			

Table I

Notes:

- 1. UL Listed as Corrosion Resistant.
- Clear wax used on ordinary temperature rated sprinklers; brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).
- 3. FM Approved as Corrosion Resistant.



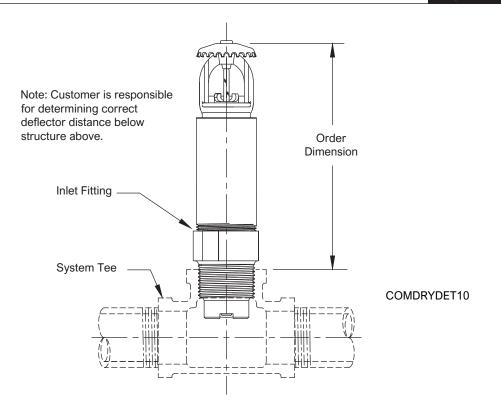
Model F3-56 Dry Upright - SIN R5324

woder F3-96 Dry Oprignt - 314 K5324				Table W	
Order Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
	Ordinary	155°F (68°C)	Red		
5" to 48"	late are a dista	175°F (79°C)	Yellow	21112	NI/A
(127 mm to 1219 mm)	Intermediate	200°F (93°C)	Green	- cULus	N/A
	High	286°F (141°C)	Blue	1	



Model F3-56 Dry Upright Sprinkler

Figure 12



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

Notes:

1. UL Listed as Corrosion Resistant.



Installation (General)

Dry sprinklers connected to wet pipe systems must be installed as indicated in Figure 14 and as required by NFPA 13 with the Exposed Minimum Barrel Length located in a heated area.

Reliable Model F3-56 dry sidewall 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 15).

DO NOT install Reliable Model F3-56 dry sidewall sprinklers into elbows or couplings, welded outlets, mechanical tees, or gasket sealed CPVC fittings.

See Figure 16 for acceptable and unacceptable installation practices.

F3-56 with Standard Escutcheon

Cut a 2-1/8" (54mm) diameter hole in the wall as shown in Fig. 1. Apply a PTFE based sealant to the sprinkler threads before installing into the fitting. Use the Model F3R installation wrench on the square boss to tighten the sprinkler until it is secured in the sprinkler fitting. Installation is completed by removing the orange glass bulb protector and sliding the escutcheon over the finished sleeve until tight to the finished surface.

F3-56 with HB Escutcheon

Cut a 2-1/2" (64mm) diameter hole in the wall as shown in Fig. 2. Apply a PTFE based sealant to the sprinkler threads before installing into the fitting. Use the Model F3R installation wrench on the square boss to tighten the sprinkler until it is secured in the sprinkler fitting. Installation is completed by removing the orange glass bulb protector and sliding the skirt over the finished sleeve until tight to the finished suface.

F3-56 with FP Recessed Escutcheon

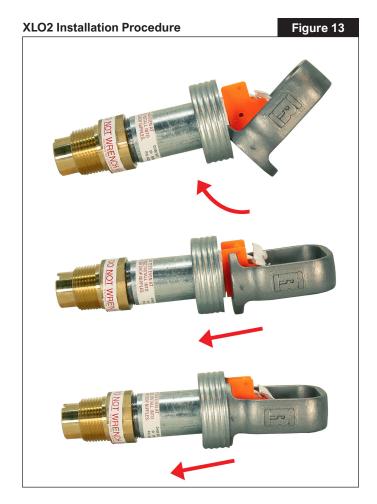
Cut a 2-5/8" (67mm) diameter hole in the wall as shown in Fig. 3. Apply a PTFE based sealant to the sprinkler threads before installing into the fitting. Use the Model XLO2 installation wrench (see Fig. 13) on the square boss to tighten the sprinkler until it is secured in the sprinkler fitting. Installation is completed by removing the orange glass bulb protector and pushing (or threading) the FP escutcheon into the threaded cup. Final adjustment is made by turning the FP escutcheon clockwise until the flange makes full contact with the wall surface.

F3-56 CCP Concealed Cover Plate

Cut a 2-5/8" (67mm) diameter hole in the wall as shown in Fig. 4. Apply a PTFE based sealant to the sprinkler threads before installing into the fitting. Use the Model XLO2 installation wrench (see Fig. 13) on the square boss to tighten the sprinkler until it is secured in the sprinkler fitting. Installation is completed by removing the orange glass bulb protector and pushing (or threading) the SWC cover plate into the threaded cup. Final adjustment is made by turning the cover plate clockwise until the cover plate flange makes full contact with the finished surface.

Note:

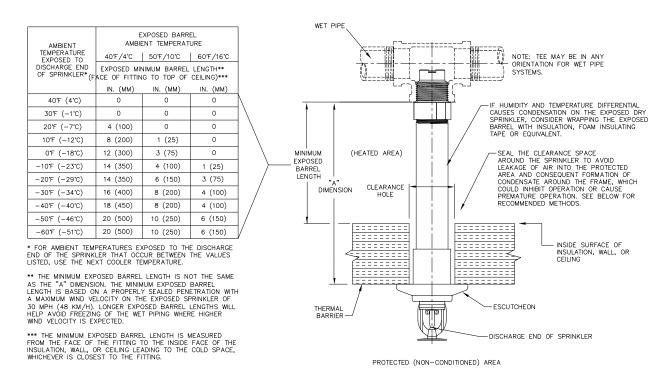
- The Model XLO2 installation wrench for recessed and concealed installations has a open side to accommodate the sprinkler deflector and can only be inserted in one way (see Figure 13). Care must be taken not to damage the deflector during installation.
- 2. Do not over-tighten sprinklers into fittings. It is recommended that Reliable dry sprinklers be installed using the wrench referenced in this bulletin. A pipe wrench may also be used to install dry sprinklers provided that it only engages the outer tube (steel pipe) of the assembly. Note that a pipe wrench will impart a large amount of torque into the final assembly. This torque will need to be matched or exceeded to remove the sprinkler at a later date. A leak free joint can normally be obtained by installing the sprinkler to a minimum torque of 22 ft-lb (30 N·m) after applying an appropriate thread sealant.
- 3. Glass bulb sprinklers have orange bulb protectors to minimize bulb damage during shipping, handling, and installation. Reliable installation wrenches are designed to install sprinklers while bulb protectors are in place. REMOVE THE PROTECTORS AT THE TIME THE SPRINKLER SYSTEM IS PLACED INTO SERVICE. Removal of the protectors before this time may leave the glass bulb vulnerable to damage. Remove protectors by undoing the clasp by hand. DO NOT USE TOOLS TO REMOVE THE PROTECTORS.
- 4. Do not remove the wax fillet in the gap between the cup that supports the bulb and the wrenching boss.

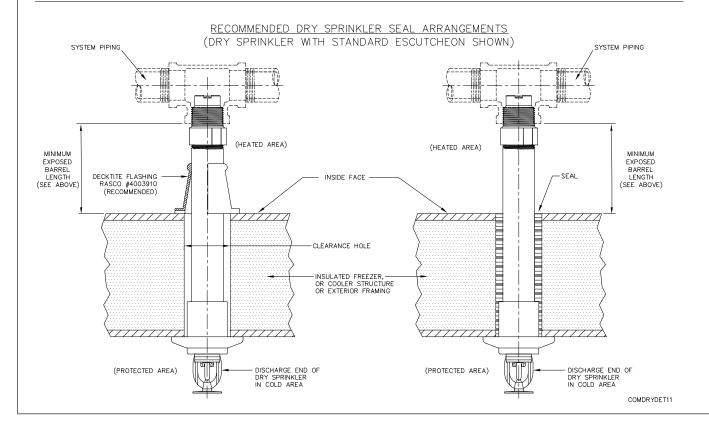




MINIMUM EXPOSED BARREL LENGTH WHEN CONNECTED TO WET PIPE SPRINKLER SYSTEM

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.





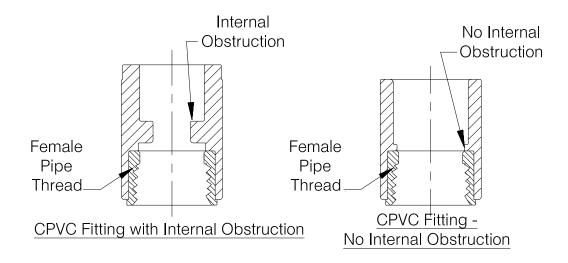
CAUTION

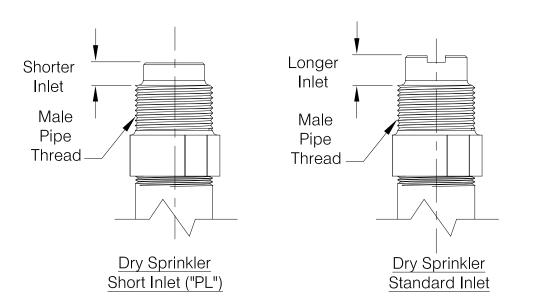
RELIABLE DRY SPRINKLERS MAY BE INSTALLED IN A LISTED CPVC SPRINKLER FITTING, ONLY UPON VERIFICATION THAT THE FITTING DOES NOT INTERFERE WITH THE SPRINKLER'S INLET.

Do not install dry sprinklers with standard inlets into CPVC fittings that have an internal obstruction; this will damage the sprinkler, the fitting, or both.

Short inlet ("PL") versions of Reliable dry sprinklers are available that may or may not be compatible with fittings having internal obstructions in existing installations. Sprinklers with the short inlet ("PL") should only be installed in CPVC fittings of wet-pipe systems.

In all cases, verify sprinkler and fitting dimensions prior to installation to avoid interference.



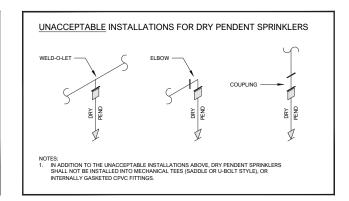


BE SURE TO ORDER THE CORRECT SPRINKLERS FOR YOUR APPLICATION

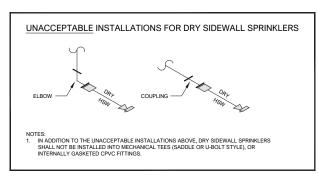
COMDRYDET2

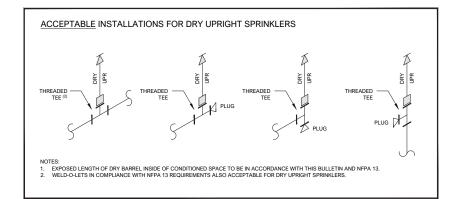


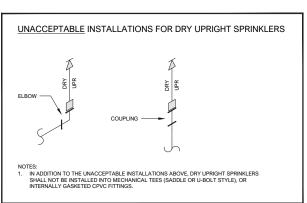
ACCEPTABLE INSTALLATIONS FOR DRY PENDENT SPRINKLERS THREADED THE TEE THE ADED THE TEE THE ADED THE AD



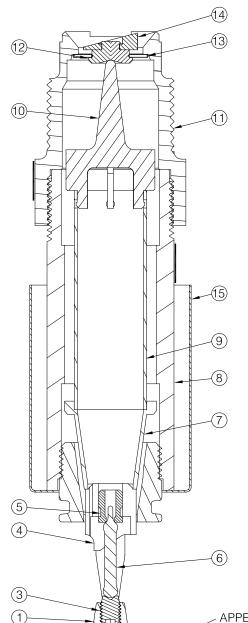
ACCEPTABLE INSTALLATIONS FOR DRY SIDEWALL SPRINKLERS THREADED THE (1) THREADED THE (2) THREADED THE (3) THREADED THE (4) THREADED THE (5) THREADED THE (6) THREADED THE (7) THREADED THE (8) THREADED THE (9) THREADED THE (10) THE (10) THREADED THR







Material Specifications Figure 17



Item	Description	Material	
1	Frame	UNS C83600 Brass	
2	Deflector	UNS C51000 Bronze	
3	Load Screw	UNS C22000 Brass	
4	Seat Adapter	UNS C36000 Brass	
5	Bulb Insert	UNS C31400 Copper	
6	Glass Bulb	Glass/Glycerin Solution	
7	Orifice Adapater	UNS C36000 Brass	
8	Outer Tube	Galvanized Steel	
9	Inner Tube	UNS C23000 Brass	
10	Yoke	UNS C38000 Brass	
11	Inlet	UNS C35330 Brass	
12	Cap	UNS C54400 Brass	
13	Spring Washer/Seal	PTFE Coated Beryllium Nickel	
14	Flip Disk	UNS C54400 Brass	
15	Can/Escutcheon	Varies (Not used on all models)	

NOTE: PIPE WRENCH MAY ONLY BE USED ON OUTER STEEL BARREL OF SPRINKLER

COMDRYDET13

APPEARANCE OF DEFLECTOR WILL VARY DEPENDING ON MODEL

Wrench Options



F3R Wrench (Standard, HB, and No Escutcheon trims)



XLO2 Wrench (FP Recessed, F1 Recessed, and CCP trims)

Maintenance

Reliable Model F3-56 series sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25, as well as the requirements of any Authorities Having Jurisdiction. Prior to installation, sprinklers should remain in the original cartons and packaging until used. This will minimize the potential for damage to sprinklers that could cause improper operation or non-operation.

Do not clean sprinklers with soap and water, ammonia liquid or any other cleaning fluids. Remove dust by gentle vacuuming without touching the sprinkler.

Replace any sprinkler which has been painted (other than factory applied). 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

US Patent No. 7,841,418

Ordering Information

Specify:

Model F3-56 Dry Sprinkler

- Upright
- Pendent
- Horizontal Sidewall

Trim Style

- Standard Escutcheon
- HB Escutcheon
- FP Recessed Escutcheon
- F1 Recessed Escutcheon
- CCP Cover Plate (Pendent only)
- No Escutcheon

Temperature Rating

 See available temperatures (depending on trim style and approvals) on pages 2-13

Finish

 See available finish combinations (depending on trim style and approvals) on pages 2-13

Length

- For dry pendent and sidewall sprinklers with trim, "A" dimension is measured from face of fitting to face of finished ceiling or wall in 1/4" (6mm) increments.
- For dry upright sprinklers and sprinklers with no trim, order dimension is from face of fitting to deflector in 1/4" (6mm) increments.

Notes:

 Lengths are based upon a normally gauged pipe thread "make-up" of .60 inch (15mm) per ANSI B2.1 (approximately 7-1/2 threads).

Installation Wrench

- Model F3R (Standard, HB, and No Escutcheon trims)
- Model XLO2 (FP Recessed, F1 Recessed & CCP trims)



tyco Fire & Building Products

FEATURES & BENEFITS

- Ready to Install
- ◆ No Fabrication Required
- Eliminates Searching for Materials
- 175 psi Rated
- 24 Hour Ice Build-up Test with No Damage
- 600 psi Pressure Tested

GENERAL DESCRIPTION

The DD-1 Condensate Drain is a Pre-manufactured drum drip for installation in Dry Pipe, Deluge and Preaction Automatic Sprinkler Systems. The DD-1 Condensate Drain body is made from Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing.

Other drains are usually constructed from various parts that must be assembled at the time of installation. There is no comparison in the quality and look of the DD-1 Condensate Drain, and it is quick and easy to install.



Contact a TFBP distributor for a complete description of all Listing criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

Model DD-1

ORDERING PROCEDURE & SPECIFICATIONS

MODEL-DD1 CONDENSATE DRAIN

Part Number: 52-380-1-001

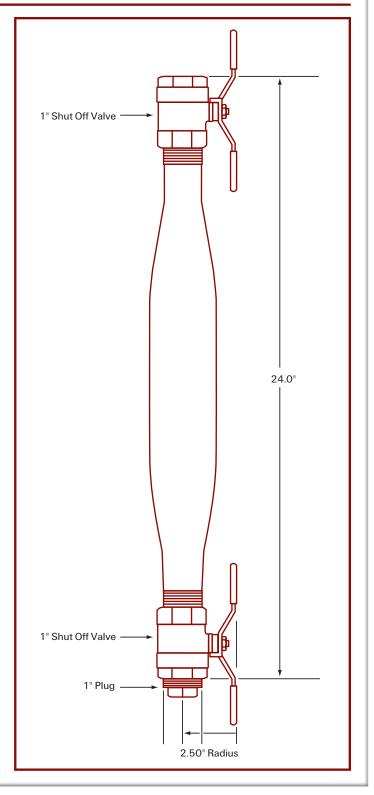
THE CONDENSATE DRAIN INCLUDES:

- One condensate barrel
- ◆ Two 1" shut off valves (valve manufacturer may vary)
- ♦ One 1" plug



Example of a field generated drum drip with multiple fittings and pipe nipples.

NOTE: the example shows seven make-ups.



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Technical Services
Phone: 800-381-9312
Fax: 800-791-5500

www.Tyco-Fire.com



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