

K-factor 5.6 (80 metric)

Features

Various trim options available

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• Sprinklers and trim available in a wide variety of standard and special application finishes

Ia

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.













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

Sprinkler Summary				Table 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.

www.reliablesprinkler.com

Andel F3-56 Dry Pende "A" Dimension	Temperature	Temperature Rating			
in (mm)	Classification	°F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
2" to 48" (51mm to	Ordinary	155°F (68°C)	Red	cULus FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
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		175°F (79°C)	Yellow		
	Intermediate	200°F (93°C)	Green		C-2
	High	286°F (141°C)	Blue	cULus FM	





La System Fitting
2-1/8" "A" Dimension [54mm] Dia. Hole in Ceiling Escutcheon Adjustment 1/2" [12mm]
Nominal Escutcheon Position 1/2" [12mm] Escutcheon Adjustment 1/2" [12mm] Nominal Protrusion 3" [76mm] DIA.

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:

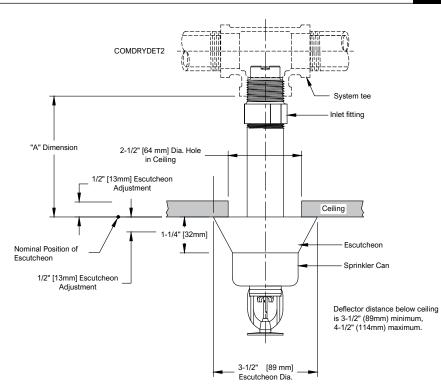
- 1. UL Listed as Corrosion Resistant.
- 2. Clear wax used on ordinary temperature rated sprinklers; brown wax used on intermediate temperature rated sprinklers. Brown wax may be used on high temperature rated sprinklers where the ambient temperature does not exceed 150°F (66°C).
- 3. Escutcheons do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



"A" Dimension	Temperature	Temperature Rating	Glass Bulb Color	Approvals	Sprinkler Guard
in (mm)	Classification	F (C)	Glass Bulb Color	Approvais	Sprinkier 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) UKCA (0832-UKCA-CPR-S5043) cULus FM	
	Internediate	200°F (93°C)	Green		C-2
	High	286°F (141°C)	Blue		

Model F3-56 Dry Pendent Sprinkler: HB Escutcheon

Figure 2



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.
- 5. FM Approved as Corrosion Resistant.

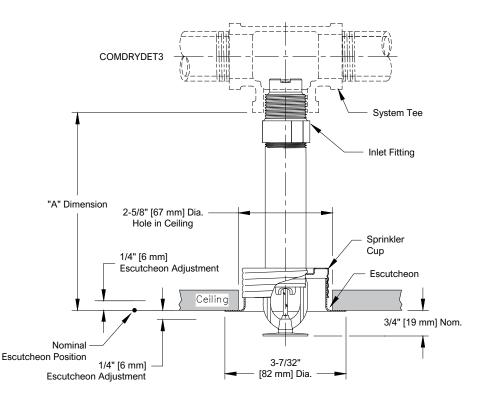
Note: The sprinkler can protrudes 1¼" when escutcheon is in nominal position. Escutcheon adjustment provides -½" (-12.7mm) to +½" (+12.7mm) "A" dimension adjustment range. Bulletin 153

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Model F3-56 Dry Pende	Iodel F3-56 Dry Pendent: FP Escutcheon - SIN R5314				
"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 FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
to 1219mm) in 1/4" (6mm) increments for 1" connections or		175°F (79°C)	Yellow		
31/2" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4"	Intermediate	200°F (93°C)	Green		N/A
connections	High	286°F (141°C)	Blue	cULus	

Model F3-56 Dry Pendent Sprinkler: FP Escutcheon



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 RecessedSprinkler(1)Escutcheon(3)(4)BronzeBrassChromeChromeWhite Polyester(2)White PolyesterBlack Polyester(2)Black PolyesterCustom Color Polyester(2)Custom Color PolyesterElectroless 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.
- 5. FM Approved as Corrosion Resistant.

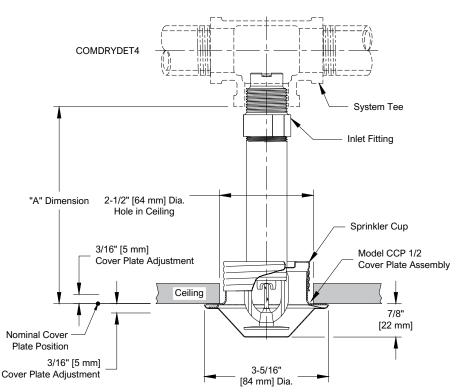




"A" Dimension in (mm)	Temperature Classification	Temperature Rating F (C)	Glass Bulb Color	Approvals	Sprinkler Guard
31/2" to 48" (89mm	Ordinary	155°F (68°C)	Red	cULus	
to 1219mm) in 1/4" (6mm) increments for 1" connections or 3½" to 36" (89mm to 914mm) in 1/4" (6mm) increments for 3/4" connections		175°F (79°C)	Yellow	FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
	Intermediate	200°F (93°C)	Green		N/A
	High (See Caution)	286°F (141°C)	Blue	cULus	

Figure 4

Model F3-56 Dry Pendent Sprinkler: CCP Cover Plate



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⁾			
	White Polyester			
	Chrome Bright			
	Chrome Dull			
Bronze	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.

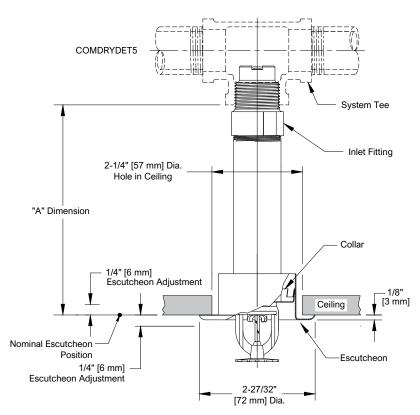
Caution: High temperature CCP sprinklers are provided with a 165°F (74°C) rated cover plate that is suitable for use where the ceiling temperature will not exceed 150°F (66°C). Do not use CCP style sprinklers where the ceiling temperature exceeds 150°F (66°C).



lodel F3-56 Dry Pendent: F1 Escutcheon - SIN R5314					Table F
"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	
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.	late or ellete	175°F (79°C)	Yellow	FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
	Intermediate	200°F (93°C)	Green		N/A
	High	286°F (141°C)	Blue	cULus	

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.

4. FM Approved as Corrosion Resistant.



Model F3-56 Dry Pende	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	Ordinary	155°F (68°C)	Red	cULus FM LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	
to 1219mm) in 1/4" (6mm) increments for 1" connections or	ments for 1"	175°F (79°C)	Yellow		
5" to 36" (127mm to 914mm) in 1/4" (6mm) increments for 3/4"	Intermediate	200°F (93°C)	Green		N/A
connections.	High	286°F (141°C)	Blue	cULus FM	

Figure 6

Model F3-56 Dry Pendent Sprinkler: No Escutcheon

Ordering Dimension Ordering Ordering Dimension Ordering Dimension Ordering Ordering Dimension Ordering Ordering Dimension Ordering Ordering Dimension Ordering Ordering Dimension Ordering Orderi

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

Available Finishes: No Escutcheon
Sprinkler
Bronze
Chrome



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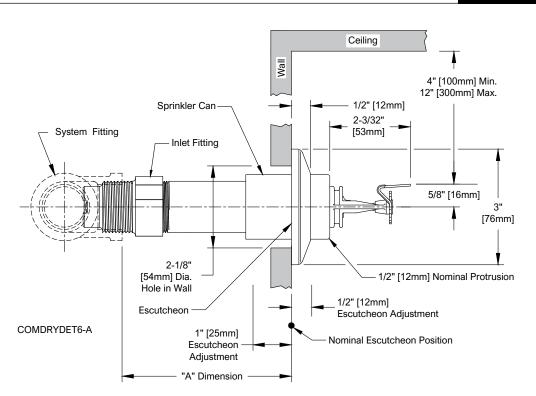
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Model F3-56 Dry Horizontal Sidewall: Standard Escutcheon - SIN R5334					
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
0" - 40" / 54	Ordinary	155°F (68°C)	Red	cULus (Light Hazard Only) FM (HC-1 Only) LPCB CE (2381-CPR-S2006) C-2	
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		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)	

Figure 7

Model F3-56 Dry Horizontal Sidewall: Standard Escutcheon



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				

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

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.
- 5. FM Approved as Corrosion Resistant.

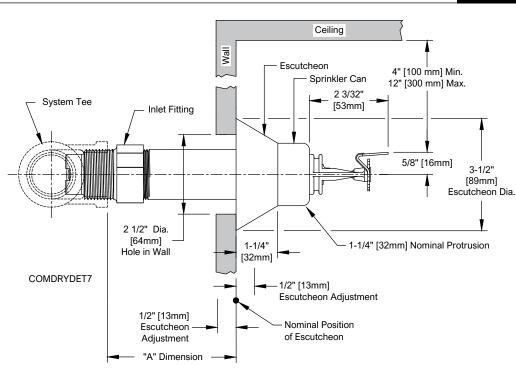
Note: The sprinkler can protrude 1/2" when escutcheon is in nominal position. Escutcheon adjustment provides -1/2" (-12mm) to +1" (25mm) "A" dimension adjustment range.



Model F3-56 Dry Horizontal Sidewall: HB Escutcheon - SIN R5334					
"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		
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"	la la sur alla la	175°F (79°C)	Yellow		C-2
	Intermediate	200°F (93°C)	Green		(FM Only)
connections	High	286°F (141°C)	Blue	cULus (Light Hazard Only) FM (HC-1 Only)	

Figure 8

Model F3-56 Dry Horizontal Sidewall: HB Escutcheon



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.
- 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.

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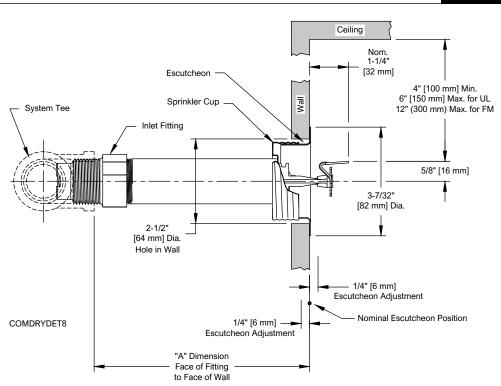


Note: Model F3-56 standard response sidewall sprinklers should be considered as replacement sprinklers only in light hazard occupancies.

Iodel F3-56 Dry Horizontal Sidewall: FP Escutcheon - SIN R5334					
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
31/2" 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	lata ang d'ata	175°F (79°C)	Yellow	FM (HC-1 Only) LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043) cULus (Light Hazard Only) FM (HC-1 Only)	
	Intermediate	200°F (93°C)	Green		N/A
	High	286°F (141°C)	Blue		

Figure 9

Model F3-56 Dry Horizontal Sidewall: FP Escutcheon



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 Polyester				
Electroless Nickel PTFE ⁽²⁾⁽⁵⁾	Stainless Steel				

Notes:

1. 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.
- 5. FM Approved as Corrosion Resistant.





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

Model F3-56 Dry Horizo	Model F3-56 Dry Horizontal Sidewall: F1 Escutcheon - SIN R5334						
"A" Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Glass Bulb Color Approvals			
	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)	cULus (Light Hazard Only)	
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	lata an adiata	175°F (79°C)	Yellow				
	Intermediate	200°F (93°C)	Green		N/A		
for 3/4" connections	High	286°F (141°C)	Blue	cULus (Light Hazard Only) FM (HC-1 Only)			

Figure 10

Model F3-56 Dry Horizontal Sidewall: F1 Escutcheon

Ceiling 1-3/4" [44 mm] 1/8" Nom. Escutcheon 4" [100mm] Min. 6" [150 mm] Max. for UL [3 mm] Collar Wall 12" [300mm] Max. for FM System Tee Inlet Fitting 5/8" [16 mm] 2-27/32" [72 mm] Dia. 2-1/4" [57 mm] Dia. Hole in Wall – 1/4" [6 mm] Escutcheon Adjustment Nominal Position 1/4" [6 mm] — COMDRYDET9 of Escutcheon Escutcheon Adjustment "A" Dimension Face of Fitting to Face of Wall

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				

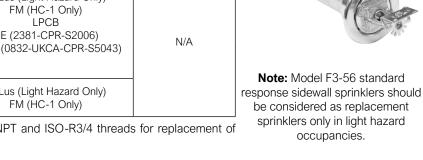
Notes:

1. UL Listed as Corrosion Resistant.

2. Escutcheons do not carry corrosion resistant listings.

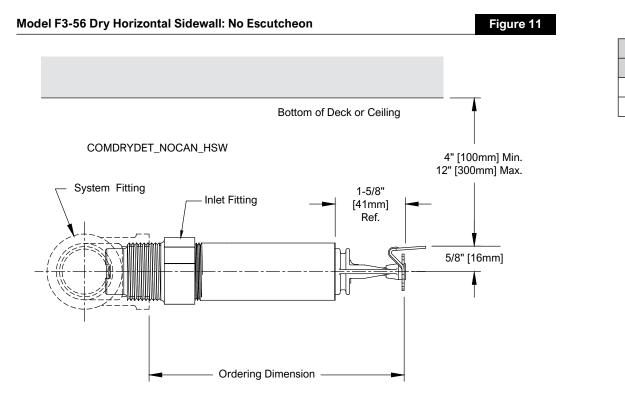
3. Base material is cold rolled steel unless noted.

4. FM Approved as Corrosion Resistant.





Nodel F3-56 Dry Horizo	ntal Sidewall: No E	scutcheon - SIN R5334			Table 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) FM (HC-1 Only) LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043) CULus (Light Hazard Only) FM (HC-1 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	lata wa alfata	175°F (79°C)	Yellow		FM (HC-1 Only) / LPCB CE (2381-CPR-S2006) UKCA (0832-UKCA-CPR-S5043)	FM (HC-1 Only) LPCB		
	Intermediate	200°F (93°C)	Green			N/A	Note: Model F3-56 standard response sidewall sprinklers should be apprinklers should be apprinklers and the standard second se	
	High	286°F (141°C)	Blue		-	be considered as replacement sprinklers only in light hazard occupancies.		



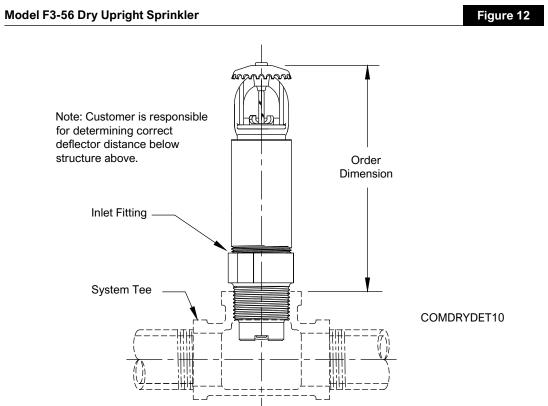
Note: Customer is responsible for determining the correct distance from the wall to the sprinkler deflector.

Available Finishes: No Escutcheon				
Sprinkler				
Bronze				
Chrome				



Model F3-56 Dry Uprigl	ht - SIN R5324				Table M
Order Dimension in (mm)	Temperature Classification	Temperature Rating °F (°C)	Glass Bulb Color	Approvals	Sprinkler Guard
	Ordinary	155°F (68°C)	Red		N//A
5" to 48"		175°F (79°C)	Yellow		
(127 mm to 1219 mm)	Intermediate	200°F (93°C) Green	cULus	N/A	
	High	286°F (141°C)	Blue		





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

Notes:

1. UL Listed as Corrosion Resistant.

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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

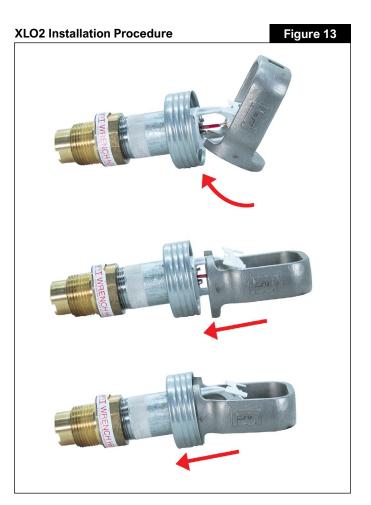
Cut a 2-5/8" (67mm) diameter hole in the wall as shown in Fig. 3. Apply a PTFE based sealant to the sprinkler threads before installing into the fitting. Use the Model XLO2 installation wrench (see Fig. 13) on the square boss to tighten the sprinkler until it is secured in the sprinkler fitting. Installation 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

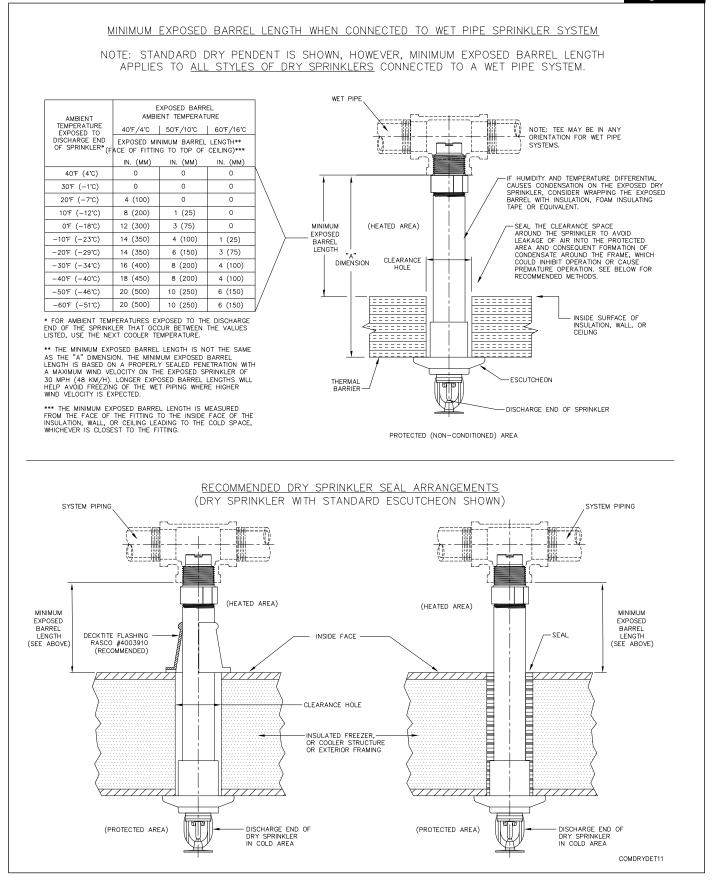
Cut a 2-5/8" (67mm) diameter hole in the wall as shown in Fig. 4. Apply a PTFE based sealant to the sprinkler threads before installing into the fitting. Use the Model XLO2 installation wrench (see Fig. 13) on the square boss to tighten the sprinkler until it is secured in the sprinkler fitting. Installation 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.









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.

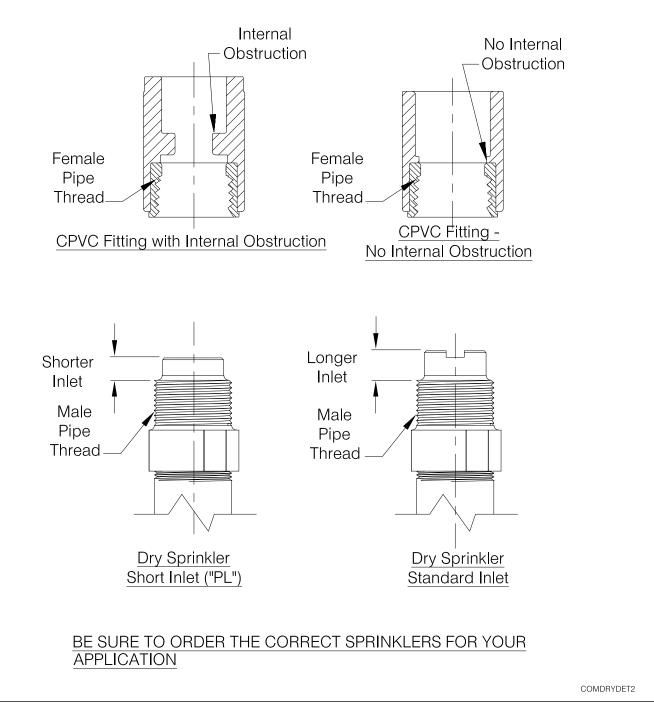
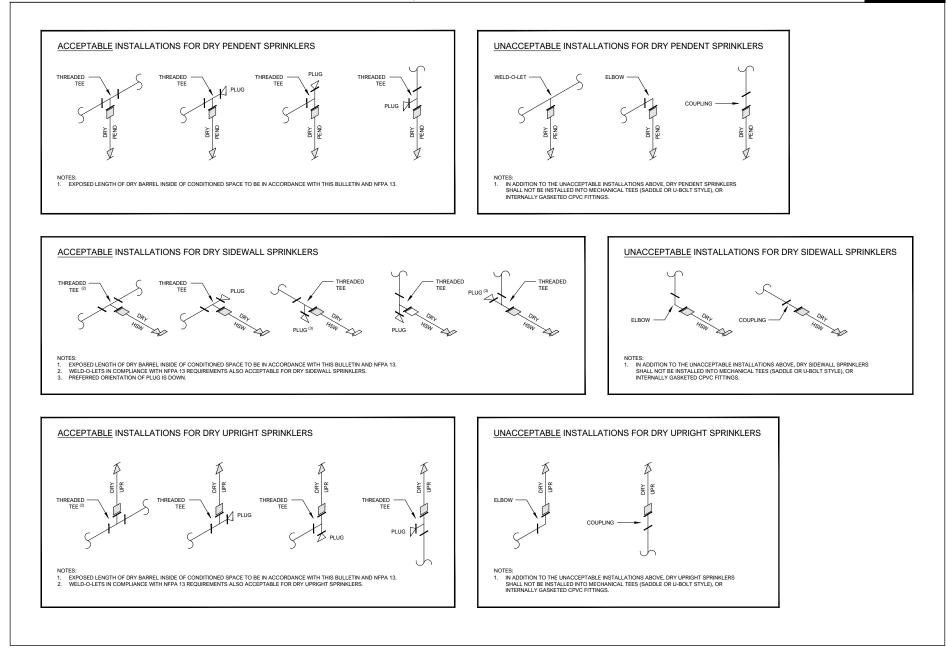
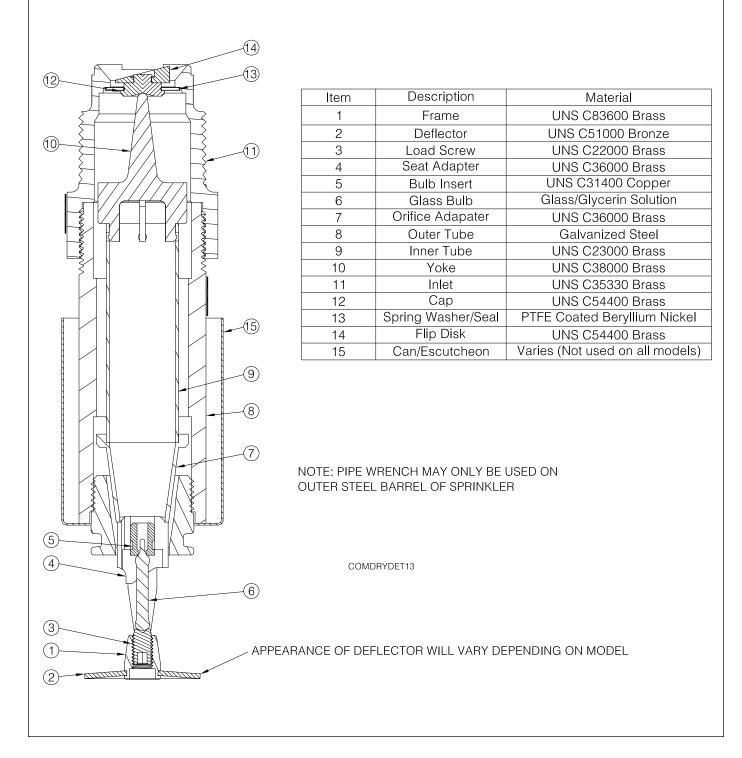




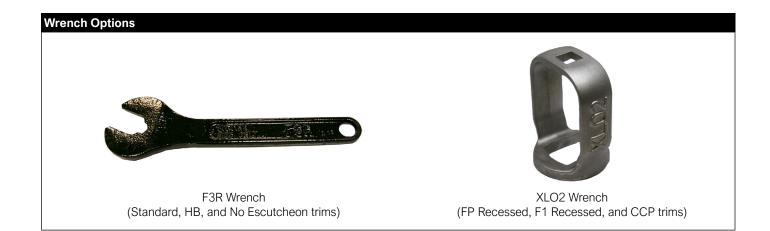
Figure 16











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:

1. 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)

