Reliable

Model KFR56 Series Quick Response Standard Spray

Model KFR56 Sprinkler Types

Standard Upright Standard Pendent Horizontal Sidewall

Model KFR56 Recessed Sprinkler Types

Recessed Pendent F1/F2/FP
Recessed Horizontal Sidewall F1/F2/FP

Model KFR56 Concealed Sprinkler Types

Concealed Pendent CCP

Listing & Approvals

- 1. Underwriters Laboratories Inc. and Certified for Canada (cULus)(All orientations).
- 2. Factory Mutual Approvals (FM) (Pendent & Recessed Pendent at current time).

UL Listing Category

Sprinklers, Automatic & Open (VNIV) Quick Response Sprinkler

Product Description

Reliable Model KFR56 Series Sprinklers are quick response sprinklers which combine the durability of a standard sprinkler with the attractive low profile of a decorative sprinkler.

The automatic sprinklers utilize a soldered link and have demonstrated response times in laboratory tests which are five to ten times faster than standard response sprinklers. This quick response enables these sprinklers to apply water to a fire much faster than standard sprinklers of the same temperature rating.

The temperature rating of the sprinkler is identified by marking on deflector: for visual temperature identification, the 212°F soldered links are factory marked with green stripe as shown in Figure 1.

Application

Quick response sprinklers are used in fixed fire protection systems: Wet, Dry or Preaction. Care must be exercised that the orifice size, temperature rating, deflector style and sprinkler type are in accordance with the latest published standards of the National Fire Protection Association or the approving Authority Having Jurisdiction (AHJ). Models KFR56 sprinklers are intended for installation as specified in NFPA 13 in both light and ordinary Hazard applications. Quick response sprinklers and standard response sprinklers should not be intermixed.



Upright



Recessed Pendent/FP



Horizontal Sidewall (HSW)



Recessed Horizontal Sidewall FP (HSW)



Pendent



Recessed Pendent/F1/F2



Recessed Horizontal Sidewall F1/F2



CCP Concealed Pendent

Installation

Quick response sprinklers are intended for installation as specified in NFPA 13. Quick response sprinklers and standard response sprinklers should not be intermixed.

The Model KFR56 Recessed Quick Response Sprinklers are to be installed as shown. The Model F1, F2 & FP Escutcheons illustrated are the only recessed escutcheons to be used with the Model KFR56 Sprinklers. The use of any other recessed escutcheon will void all approvals and negate all warranties.

Model KFR56 Sprinkler Information Table

					-						
Orientation	Nominal	Thread	Nominal K Factor			Approvals	Temperature	Frame / Deflector	Fusible Element	Sprinkler Identification	Installation
	Onlice	Size	US M	Metric	пеідпі	•		FINISN	Color	Number (SIN)	Wrench
								Bronze	White		
							165°F / 74°C	Chrome	Silver*		
1	1/2"	1/2"			2.25"			White Polyester	White	0	- (
Fendent	(15mm)	(R1/2)	ص. ٥.	(2) —	(27mm)	COLUS, FIM		Bronze	White w/ Green stripe	HA3014	Model D
							212°F / 100°C	Chrome	Silver w/ Green stripe*		
								White Polyester	White w/ Green stripe		
								Bronze	White		
							165°F / 74°C	Chrome	Silver*		
Recessed Pendent		 			: !	cULus,		White Polyester	White		
(FP, F1 & F2) (Refer to Figures	1/2" (15mm)	(R1/2)	5.6	80 (5)	2.25" (57mm)	FM (F1 Escutcheon	•	Bronze	White w/ Green stripe	RA3614	Model RC1
2 & 3)					`	only)	212°F / 100°C	Chrome	Silver w/ Green stripe*		
								White Polyester	White w/ Green stripe		
Concealed (Refer		1/2" NPT	Q L	.,	2.25"	=======================================	165°F / 74°C Sprinkler 135°F / 57°C Coverplate	Bronze	White	000	
to Figures 4 & 5)	(15mm)	(R1/2)			(57mm)	SOCIO	212°F / 100°C Sprinkler 165°F / 74°C Coverplate	Bronze	White w/ Green stripe	41000	טר ושטטואו
								Bronze	White		
							165°F / 74°C	Chrome	Silver		
3	1/2"	1/2" NPT	Q.		2.25"	=		White Polyester	White	000	
ווווווווווווווווווווווווווווווווווווווו	(15mm)	(R1/2)			(27mm)	SOCIO	•	Bronze	White w/ Green stripe	143024	Model
							212°F/100°C	Chrome	Silver w/ Green stripe		
								White Polyester	White w/ Green stripe		
							•	Bronze	White		
							165°F / 74°C	Chrome	Silver		
WUH	1/2"	1/2" NPT	ις (C	~~ ~~	2.63"			White Polyester	White	R A 3634	
2	(15mm)	(R1/2)			(67mm)	S 200	•	Bronze	White w/ Green stripe	1	
							212°F/100°C	Chrome	Silver w/ Green stripe		
								White Polyester	White w/ Green stripe		
								Bronze	White		
Recessed HSW							165°F / 74°C	Chrome	Silver		
(FP, F1 & F2)	1/2"	1/2" NPT	υ U	~~ ~~	2.63"			White Polyester	White	B A 3634	Model GERO
(Refer to Figures	(15mm)	(R1/2)			(Mm78)	2		Bronze	White w/ Green stripe	t	NO N
์ ช ว							212°F/100°C	Chrome	Silver w/ Green stripe		
								White Polyester	White w/ Green stripe		

*FM Approved version of this chrome sprinkler utilizes a white fusible element. A silver fusible element is available in cULus Listed "only" chrome sprinkler.

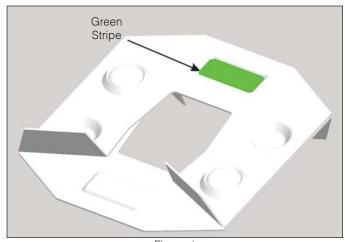


Figure 1

When installing Model KFR56 Sprinklers, use the installation wrench specified in the information table on page 2 of this bulletin. Any other type of wrench may damage these sprinklers.

NOTE: A leak tight ½" NPT (R1/2) sprinkler joint can be obtained with a torque of 8-18 ft-lbs (10,8 - 24,4 N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of the sprinklers.

The Model KFR56/ CCP Concealed Sprinkler uses the $\frac{1}{2}$ " orifice, $\frac{1}{2}$ " NPT (R1/2), 165°F (74°C) or 212°F (100°C) Model KFR56 Pendent Sprinkler with a threaded Model CCP cup which is factory attached to the sprinkler. The assembly is completed by the installation of the attractive, low profile, 135°F (57°C) or 165°F (74°C) rated Model CCP push on cover plate assembly. The cover plate and sprinkler cup assemblies are joined using a cover plate skirt with flexible tabs for threaded engagement. A choice of two cover plate assemblies provide either $\frac{1}{2}$ " (13mm) or $\frac{5}{16}$ " (8mm) of cover adjustment.

Do not install these sprinklers in ceilings which have positive pressure in the space above.

After a 25/8" (67mm) diameter hole is cut in the ceiling, the sprinkler is easily installed with the Model RC1 Wrench. A Teflon* based thread sealant should be applied to the sprinkler threads only. The Model RC1 Wrench is then used to engage the sprinkler wrenching surfaces and to install the sprinkler in the fitting. When inserting or removing the wrench from the sprinkler/cup assembly, care should be taken to prevent damage to the sprinkler. DO NOT WRENCH ON ANY OTHER PART OF THE SPRINKLER. The cover plate is then pushed onto the cup. Final adjustment is made by hand turning the cover plate until the skirt flange makes full contact with the ceiling. Cover plate removal requires turning in the counter clockwise direction.

After installation, inspect all sprinklers to ensure that there is a gap between the cover plate and ceiling and that the four cup slots are open and free from any air flow impediment to the space above.

*DuPont Registered Trade Mark

Concealed cover plate/cup assemblies are listed only for use with specific sprinklers. The use of any other concealed cover plate/cup assembly with the Model KFR56 Pendent Sprinkler or the use of the Model CCP Concealed cover plate assembly on any sprinkler with which it is not specifically listed my prevent good fire protection and will void all guarantees, warranties, listings and approvals.

Maintenance

The Model KFR56 Sprinklers should be inspected quarterly and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gentle vacuuming. Remove 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 to minimize the potential for damage to sprinklers that would cause improper operation or nonoperation.

Maximum Working Pressure

175 psi (12 bar)

100% Factory tested hydrostatically to 500 psi (34.5 bar)

Finishes (1)

Sta	andard Finishes	
Sprinkler	Escutcheon	Cover plate
Bronze	Brass	
Chrome Plated	Chrome	Chrome
Black or White Polyester	Plated	White
Coated	White Painted	
Special	Application Finishes	
Sprinkler	Escutcheon	Cover plate
Bright Brass (3)	Bright Brass	Bright Brass
Black Plated	Black Plated	Satin
Black Paint (2)	Black Paint	Off White
Off White (2)	Off White	Black Paint
Satin Chrome	Satin Chrome	Black Plated

⁽¹⁾ Other finishes and colors are available on special order. Custom paints are semi-gloss unless specified otherwise.

Consult the factory for details on fusible element color and other details.

Ordering Information Specify:

- 1. Sprinkler Model
- 2. Sprinkler Orientation
- 3. Temperature Rating
- 4. Sprinkler Finish (See Above)
- 5. Link Finish: UL White, Silver

FM - White Only

- 6. Escutcheon Type (Where applicable)
- 7. Escutcheon Finish (where applicable)
- 8. Cover plate Model (Where applicable)
- 9. Cover plate Adjustment (Where applicable)
- 10. Cover plate Finish (See Above)

Note: When Model KFR56 Recessed sprinklers are ordered, the sprinklers and escutcheons are packaged separately.

Model KFR56 Quick Response Recessed Pendent Sprinklers

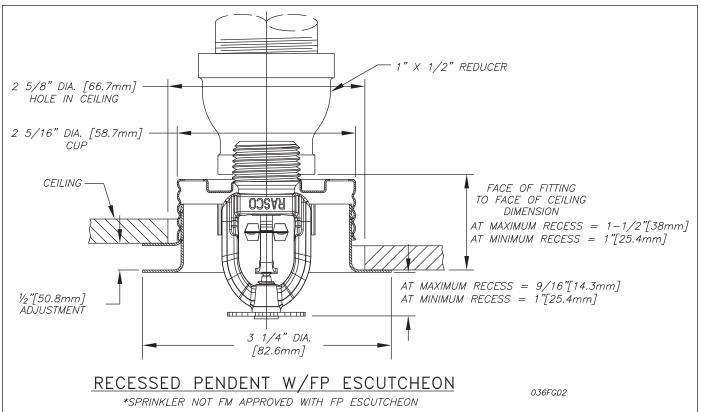


Figure 2

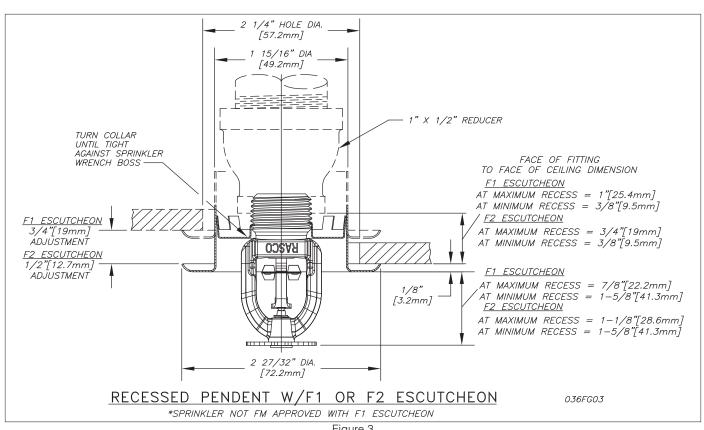


Figure 3

Model KFR56 Quick Response Concealed Pendent Sprinklers

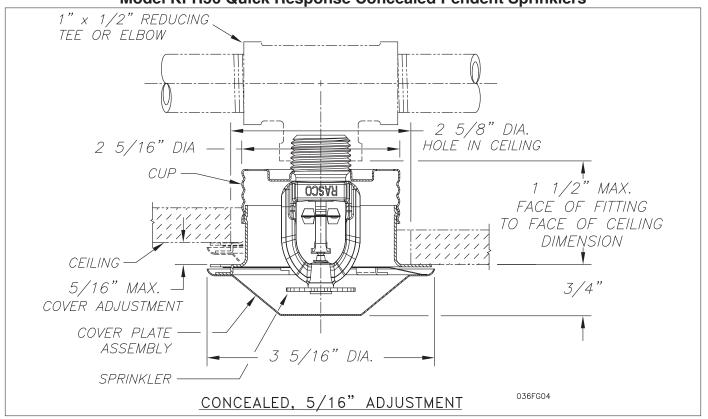


Figure 4

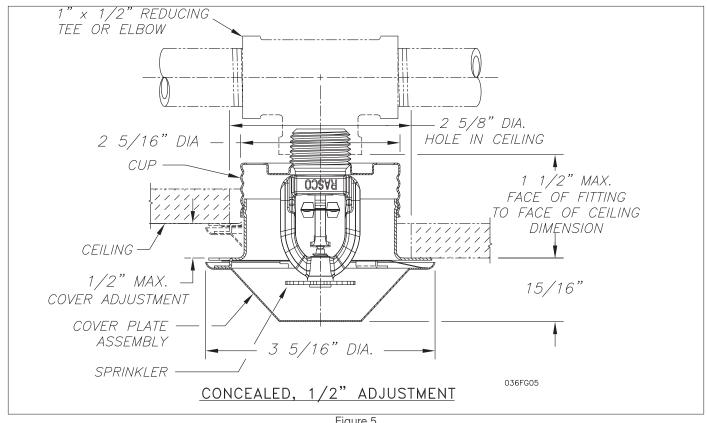


Figure 5

Model KFR56 Quick Response Horizontal Sidewall Sprinklers

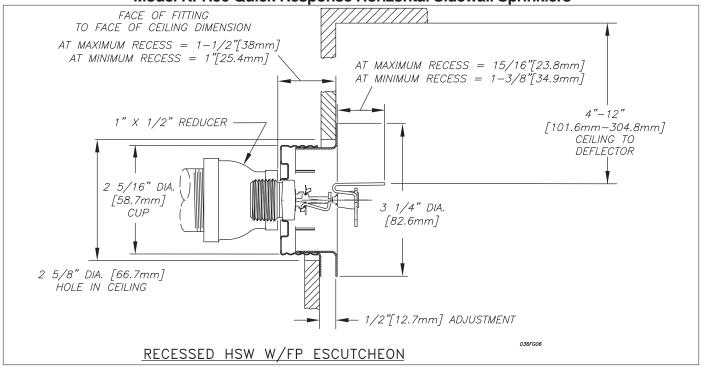


Figure 6

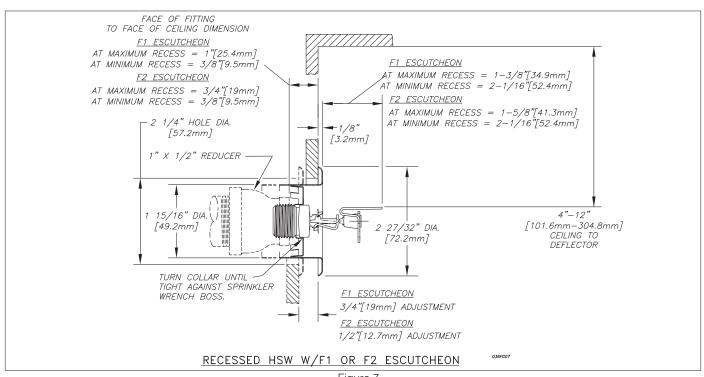


Figure 7

The equipment presented in this bulletin is to be installed in accordance with the latest published Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable. Products manufactured and distributed by Reliable have been protecting life and property for over 90 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

Manufactured by



The Reliable Automatic Sprinkler Co., Inc.

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Revision lines indicate updated or new data.

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