

# Reliable®

## Model F156 Model F1FR56 Intermediate Level Sprinklers

### Features

1. Upright and pendent installations.
2. Available as either a standard response Model F156 or quick response Model F1FR56.
3. 1/2" (15mm) orifice with a 1/2" NPT (R1/2).
4. Maximum working pressure of 250 PSI (cULus).

For Model F1/F1FR 3/4" K 8.0 (115) Sprinkler Types refer to Bulletin 170 for technical specifications and approvals.

### Approval Organizations

1. Listed by Underwriters Laboratories, Inc. and Certified for Canada (cULus)
2. Certified by FM Approvals

### UL Listing Category

Sprinklers, Automatic & Open (VNIIV)

### Product Description

The Reliable Models F156 and F1FR56 Intermediate Level Sprinklers include shields which protect the glass bulb from water spray impingement caused by sprinklers located at a higher elevation.

Typical applications are for storage racks which require multi-level sprinklers and beneath open grid catwalks.

### Application

Model F156 and F1FR56 Intermediate Level sprinklers are used in fixed fire protection systems: Wet, Dry, Deluge or Pre-action. 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 Authority Having Jurisdiction.

### Installation

Model F156 sprinklers are standard response sprinklers and Model F1FR56 are quick response sprinklers. Both types are intended for installation as specified in NFPA 13. Upright sprinklers must be installed with the Model D Sprinkler Wrench specifically designed by Reliable for use with these sprinklers, and pendent sprinklers must be installed with the Model W4 Sprinkler Wrench specifically designed by Reliable for use with these sprinklers.



Model F156  
Upright Intermediate



Model F156  
Pendent Intermediate



Model F1FR56  
Upright Intermediate



Model F1FR56  
Pendent Intermediate

Glass bulb sprinklers have orange covers to protect the bulb during the installation process. REMOVE THIS PROTECTION ONLY AFTER THE SYSTEM HAS BEEN HYDROSTATICALLY TESTED. Model W2 and W4 wrenches are designed to install sprinklers when covers are in place.

### Maintenance

The Models F156 and F1FR56 Sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluid. 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 until used to minimize the potential for damage to sprinklers that would cause improper or non-operation.

# Model F1FR56 Quick Response Upright & Pendent Intermediate Level Sprinklers

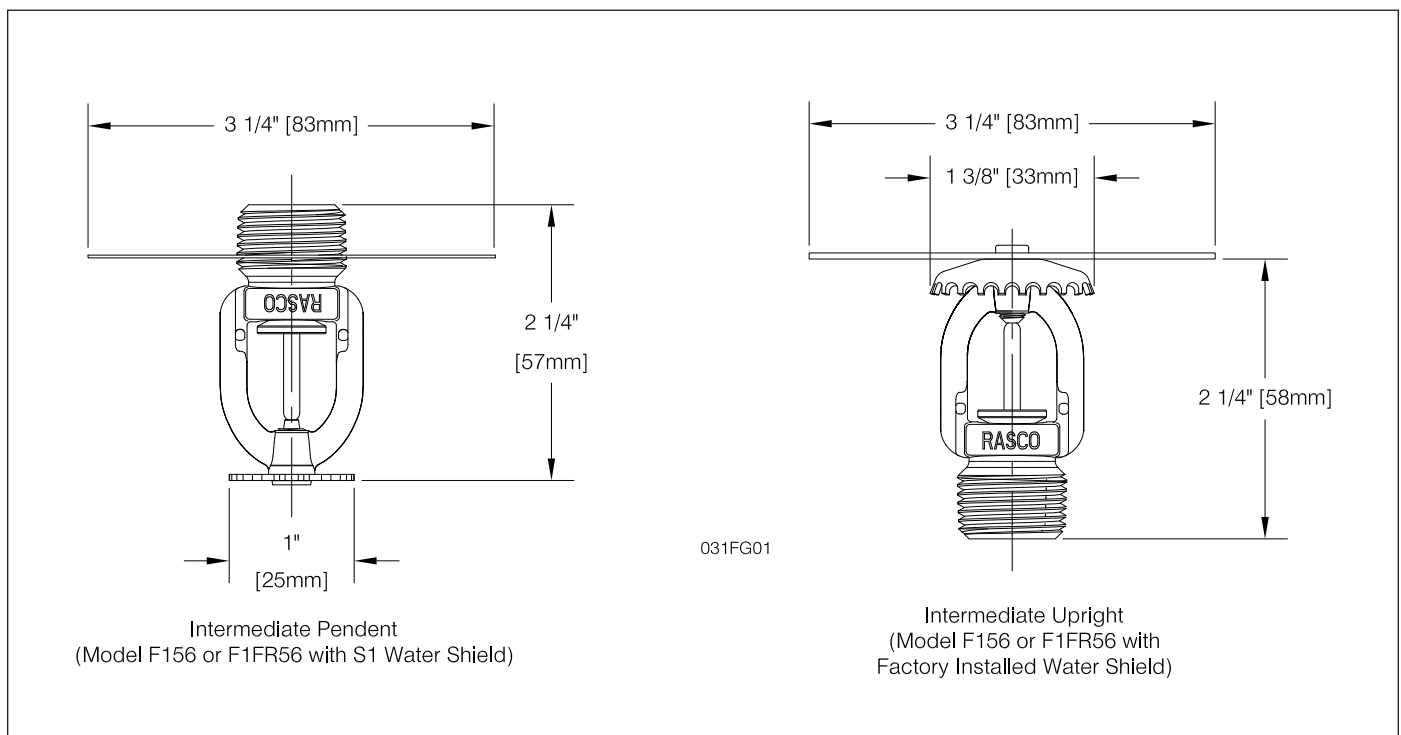
## Installation Data:

Sprinkler Type	Nominal Orifice	Thread Size	"K" Factor		Max. Working Pressure	Sprinkler Identification Number (SIN)	Sprinkler Height	Approvals
			US	Metric				
Pendent	½" (15mm)	½" NPT (R ½)	5.6	80	250 PSI (cULus) 175 psi (FM)	RA1414	2.25"	1,2
Upright	½" (15mm)	½" NPT (R ½)	5.6	80		RA3195	2.25"	1,2

# Model F156 Standard Response Upright & Pendent Intermediate Level Sprinklers

## Installation Data:

Sprinkler Type	Nominal Orifice	Thread Size	"K" Factor		Max. Working Pressure	Sprinkler Identification Number (SIN)	Sprinkler Height	Approvals
			US	Metric				
Pendent	½" (15mm)	½" NPT (R ½)	5.6	80	250 PSI (cULus) 175 psi (FM)	RA1314	2.25"	1,2
Upright	½" (15mm)	½" NPT (R ½)	5.6	80		RA1325	2.25"	1,2



Model F156 and F1FR56 Intermediate Level Sprinklers

Fig. 1

### Temperature Ratings For F1FR56:

Classification	Sprinkler Temperature		Bulb Color
	°F	°C	
Ordinary	135	57	Orange
Ordinary	155	68	Red
Intermediate	175	79	Yellow
Intermediate	200	93	Green
High	286	141	Blue

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Classification	Sprinkler Temperature		Bulb Color
	°F	°C	
Ordinary	135	57	Orange
Ordinary	155	68	Red
Intermediate	175	79	Yellow
Intermediate	200	93	Green
High	286	141	Blue
Extra High	360	182	Mauve

### Ordering Information

#### Specify:

1. Sprinkler Model
2. Sprinkler Type
3. Orifice Size
4. Temperature Rating
5. Sprinkler Finish

### Installation Wrenches

Upright — Model W2 Sprinkler Wrench  
 Pendent — Model W4 Sprinkler Wrench

### Pendent Sprinkler Finishes <sup>(1)</sup>

Standard Finish
Bronze
Special Application Finishes
Electroless Nickel PTFE <sup>(4)(5)</sup> Bright Chrome Chrome Dull Lead Plated <sup>(2)(4)</sup> Wax Coated <sup>(2)(3)(4)</sup> Wax Over Lead <sup>(2)(3)(4)</sup>

- <sup>(1)</sup> Other colors and finishes are available. Consult factory for details.  
<sup>(2)</sup> Model F156 Standard Response only.  
<sup>(3)</sup> 55°F (68°C), 175°F (79°C), 200°F (93°C) and 286°F (141°C) temperature ratings only.  
<sup>(4)</sup> Only the sprinkler is wax coated, lead or Electroless Nickel PTFE plated. The shield finish remains galvanized steel.  
<sup>(5)</sup> cULus listed Corrosion Resistant.

### Upright Sprinkler Finishes

Standard Finish
Bronze
Special Application Finishes
White Polyester

**Note:** Paint or any other coating applied over the factory finish will void approvals and warranties.

### Shields

Galvanized Steel

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.

Manufactured by



#### The Reliable Automatic Sprinkler Co., Inc.

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Revision lines indicate updated or new data.

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