



Model H (SIN R5012) Early Suppression Fast Response Sprinkler

Product Description

The Reliable Model H Early Suppression Fast Response (ESFR) Sprinkler is intended for use against severe fire challenges. This sprinkler is designed to respond quickly to growing fires and will deliver a heavy water discharge to “suppress” rather than “control” fires.

The Model H Sprinkler utilizes a 2.5 mm glass bulb in either the 155°F (68°C), 200°F (93°C), or 286°F (141°C) ratings. The sprinkler has a Nominal K Factor of 14.0 (metric 200) and will deliver approximately 100 gpm (397 L/min) of water at 50 psi (3,4 bar).

The deflector and frame provide a broad, very symmetrical, hemispherical pattern capable of suppressing fires between sprinklers in high storage height areas and at the same time retaining a high momentum central core to penetrate and suppress fires occurring directly beneath the sprinkler in low storage height areas.



Model H ESFR Sprinkler

Application and Installation

The Model H ESFR sprinkler is intended for installation in accordance with NFPA 13, NFPA 231, NFPA 231C and FM Loss Prevention Data Sheet 2-2 as well as the Authority Having Jurisdiction.

This sprinkler is intended for protection of palletized and solid piled and open frame single row, double row, multiple row and portable rack storage of most common materials including unexpanded and cartoned expanded plastics.

The 286°F (141°C) temperature rated Model H Sprinkler is intended for installation in the proximity of localized heat sources.

Approvals

The Model H ESFR Sprinkler is FM approved [155°F (68°C) and 200°F (93°C) temperature ratings only] for use in buildings to 45 ft. (13.7m) high with storage heights to 40 ft. (12.1m) when installed in accordance with Factory Mutual Loss Prevention Data Sheet 2-2 or other FM Installation Standards.

The Model H ESFR Sprinkler is UL and ULC Listed (all ratings) for installation in accordance with NFPA Standards for storage heights to 35 ft. (10.7m) in buildings to 40 ft. (12.1m). high.

The Model H ESFR Sprinkler [155°F (68°C) and 200°F (93°C) ratings only] is also approved by both the Verband der Schadenversicherer e.V. (VdS Germany) and the Loss Prevention Council (LPC, UK). VdS Germany requires review prior to each installation.

Listings

1. Listed by Underwriters Laboratories Inc. and UL certified for Canada (cULus)
2. Certified by FM Approvals
3. NYC MEA 258-93-E
4. Verband der Schadenversicherer e.V. (VdS Germany)
5. Loss Prevention Council (LPC, UK)

Model H Temperature Ratings and Approvals

Classification	Sprinkler Temperature		Bulb Color	Frame Color	Maximum Ambient Temperature		Approvals	Sprinkler Identification Number (SIN)
	°F	°C			°F	°C		
Ordinary	155	68	Red	Uncolored	100	38	UL, FM, ULC, MEA, VdS, LPC	R5012
Intermediate	200	93	Green	White	150	66	UL, FM, ULC, MEA, VdS, LPC	
High	286	141	Blue	Uncolored	225	107	UL, ULC	

Installation Data

Sprinkler Type	Thread Size	"K" Factor		Maximum Working Pressure	Finish
		US	Metric		
Pendent Only	3/4" (R3/4)	14.0	200	175 psi (12,1 bar)	Bronze

Model H Sprinkler Wrench

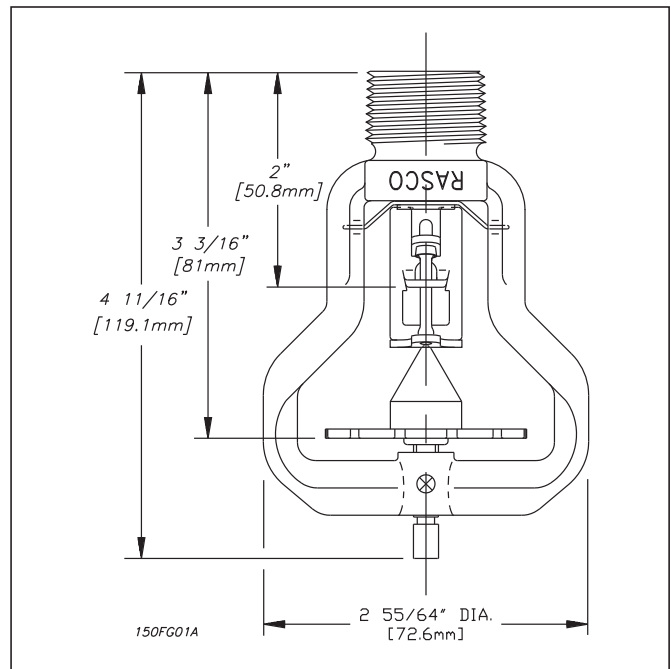


Use only the Model H sprinkler wrench for removal and installation. Any other type of wrench may damage the sprinkler.

Maintenance

The Model H ESFR Sprinkler should be inspected quarterly and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinkler with soap and water, ammonia or any other cleaning fluid. Remove any sprinkler that has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging until used to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Once operated, automatic sprinklers cannot be reassembled and reused. New sprinklers of the same size, type and temperature rating must be installed. A cabinet of replacement sprinklers should be provided for this purpose.



Ordering Information Specify:

1. Temperature rating
2. Thread type 3/4" NPT or ISO-7-R3/4

The equipment presented in this bulletin is to be installed in accordance with the latest pertinent 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 80 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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