



Series LFII 4.9K Concealed Pendent Sprinkler Lead-Free for 13D



Features and benefits:

- Innovative polymeric frame
- Anti-heat and anti-corrosive
- $\frac{3}{4}$ " adjustability
- Efficient installation using Tyco Rapid Seal Adapters
- Flat-plate concealed design, with various colors available
- Meets NFPA 13D Standard
- UL Listed – first and only to meet UL 199 test protocol
- Certified to NSF/ANSI/CAN 61 and 372

Break away from brass with a polymeric sprinkler

At a glance

The Tyco® Series LFII 4.9K Lead-Free for 13D Sprinkler (Model TY3534) is shifting the sprinkler paradigm. This innovative sprinkler features a polymeric frame that performs to brass sprinkler testing standards and beyond. It is the first and only lead-free sprinkler to pass the rigorous UL 199 test protocol, which is specifically for NFPA 13D applications. The sprinkler is lightweight, high-heat tested and anti-corrosive, making it a cost-effective alternative to brass.

TY3534 sprinklers feature adjustability up to three-quarters of an inch, providing additional flexibility during installation. The flat-plate concealed design allows for an uninterrupted design aesthetic for residential applications. These sprinklers are installed using proprietary Tyco Rapid Seal Adapters to increase installation efficiency. A unique breakaway wrench, which fragments if too much pressure is applied, helps prevent over-torquing (torque limit: 7lb-ft/9.5N-m).



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Series LFII 4.9K Lead-Free for 13D Sprinkler

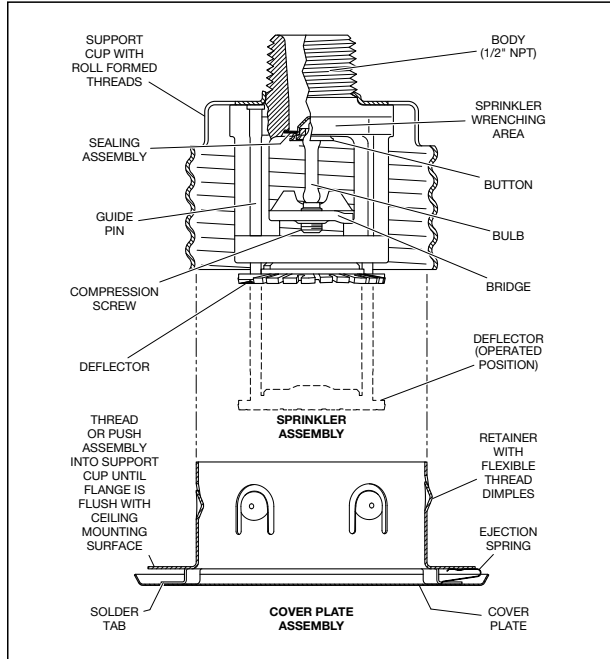


Figure 1: Lead-free rapid response | Series LFII Residential 4.9 K-Factor Flat-Plate Concealed Pendent Sprinkler (TY3534)

W-Type 43 breakaway wrench

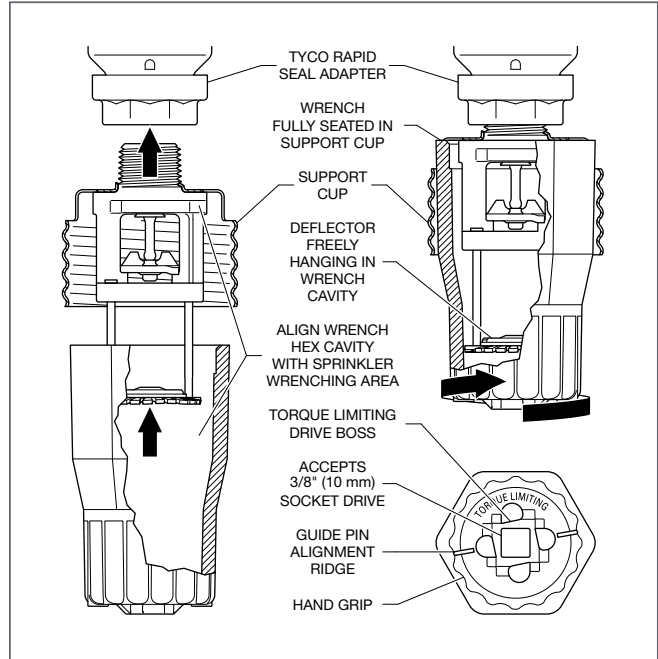


Figure 2: W-Type 43 breakaway sprinkler wrench. Torque limit: 7lb-ft/9.5N-m.

Wet Pipe System – NFPA 13D Hydraulic Design Criteria

Maximum Coverage Area ¹ ft x ft (m x m)	Maximum Spacing ft (m)	Wet Pipe System Minimum Flow and Residual Pressure ²				
		Temp. Rating 155°F (68°C), 200°F (93°C)		Deflector to Ceiling	Installation Type	Minimum Spacing ft (m)
		Flow GPM (LPM)	Pressure psi (bar)			
12 x 12 (3.7 x 3.7)	12 (3.7)	13 (49.2)	7.0 (0.48)	Smooth Ceilings 1/2 to 1¼ in.	Concealed	8 (2.4)
14 x 14 (4.3 x 4.3)	14 (4.3)	13 (49.2)	7.0 (0.48)			
16 x 16 (4.9 x 4.9)	16 (4.9)	13 (49.2)	7.0 (0.48)	Beamed Ceilings per NFPA 13D. Installed in beam 1/2 to 1¼ in. below bottom of beam		
18 x 18 (5.5 x 5.5)	18 (5.5)	17 (63.5)	12.0 (0.83)			
20 x 20 (6.1 x 6.1)	20 (6.1)	20 (75.7)	16.7 (1.15)			

Notes:

1. For coverage area dimensions less than or between those indicated, use the minimum required flow for the next highest coverage area for which hydraulic design criteria are stated.
2. Requirement is based on minimum flow in GPM (LPM) from each sprinkler. The associated residual pressures are calculated using the nominal K-factor. See Hydraulic Design under the Design Criteria section of TFP447.

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Always refer to the Technical Data Sheet (TFP447) for a complete description of all listing criteria, design parameters, installation instructions, care and maintenance guidelines, and our limited warranty.

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