

## Series TY-FRB – 2.8, 4.2, 5.6, and 8.0 K-Factor Upright, Pendent, and Recessed Pendent Sprinklers Quick Response, Standard Coverage

### IMPORTANT

Refer to Technical Data Sheet TFP2300 for warnings pertaining to regulatory and health information.

Always refer to Technical Data Sheet TFP700 for the "INSTALLER WARNING" that provides cautions with respect to handling and installation of sprinkler systems and components. Improper handling and installation can permanently damage a sprinkler system or its components and cause the sprinkler to fail to operate in a fire situation or cause it to operate prematurely.

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# General Description

The TYCO Series TY-FRB 2.8, 4.2, 5.6, and 8.0 K-factor Upright, Pendent, and Recessed Pendent Sprinklers described in herein are quick response, standard coverage, decorative 3 mm glass bulb-type spray sprinklers. They are designed for use in light or ordinary hazard, commercial occupancies such as banks, hotels, and shopping malls.

The sprinkler, where applicable, is intended for use in areas with a finished

ceiling. This recessed pendent sprinkler uses one of the following recessed escutcheons:

- Two-piece Style 10 (1/2 in. NPT) or Style 40 (3/4 in. NPT) Recessed Escutcheon with 1/2 in. (12,7 mm) of recessed adjustment or up to 3/4 in. (19,1 mm) of total adjustment from the flush pendent position.
- Two-piece Style 20 (1/2 in. NPT) or Style 30 (3/4 in. NPT) Recessed Escutcheon with 1/4 in. (6,4 mm) of recessed adjustment or up to 1/2 in. (12,7 mm) of total adjustment from the flush pendent position.

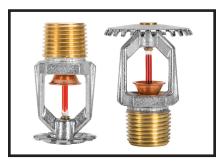
The adjustment provided by the recessed escutcheon reduces the accuracy to which the fixed pipe drops to the sprinklers must be cut.

Corrosion-resistant coatings, where applicable, are utilized to extend the life of copper alloy sprinklers beyond what would be obtained when exposed to corrosive atmospheres. Although corrosion-resistant coated sprinklers have passed the standard corrosion tests of the applicable approval agencies, the testing is not representative of all possible corrosive atmospheres. Consequently, it is recommended that the end user be consulted with respect to the suitability of these coatings for any given corrosive environment. The effects of ambient temperature, concentration of chemicals, and gas/ chemical velocity, should be considered, as a minimum, along with the corrosive nature of the chemical to which the sprinklers will be exposed.

An intermediate level version of the Series TY-FRB Pendent Sprinklers is detailed in technical data sheet TFP356. Sprinkler guards are detailed in technical data sheet TFP780.

### NOTICE

The Series TY-FRB 2.8, 4.2, 5.6, and 8.0 K-factor Upright, Pendent, and Recessed Pendent Sprinklers described herein must be installed and maintained in compliance with this document and with the applicable standards of the National Fire Protection Association (NFPA), in addition to





the standards of any authorities having jurisdiction. Failure to do so may impair the performance of these devices.

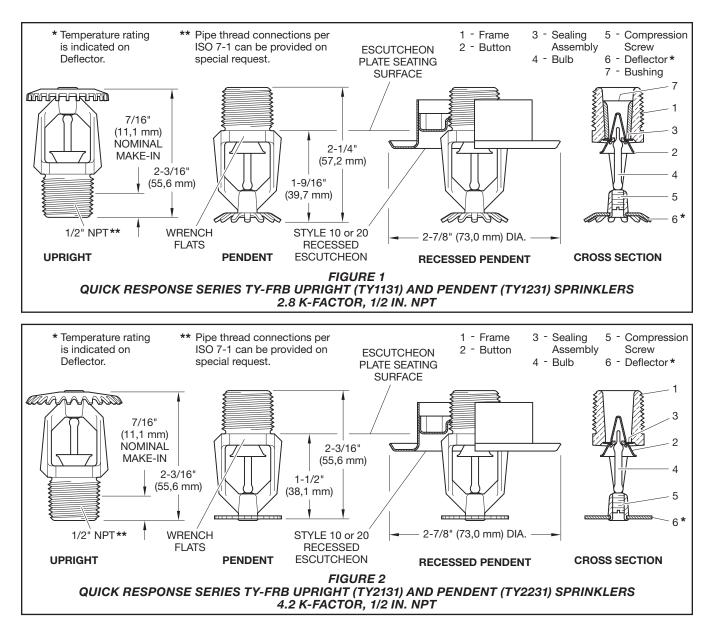
The owner is responsible for maintaining their fire protection system and devices in proper operating condition. The installing contractor or sprinkler manufacturer should be contacted with any questions.

NFPA 13 prohibits installation of 1/2 in. NPT sprinklers with K-factors greater than 5.6 in new construction. They are intended for retrofit in existing sprinkler systems only.

## Sprinkler Identification Number (SIN)

TY1131 ... Upright 2.8K, 1/2 in. NPT TY1231 .. Pendent 2.8K, 1/2 in. NPT TY2131 ... Upright 4.2K, 1/2 in. NPT TY2231 .. Pendent 4.2K, 1/2 in. NPT TY3131 ... Upright 5.6K, 1/2 in. NPT TY3231 .. Pendent 5.6K, 1/2 in. NPT TY4131 ... Upright 8.0K, 3/4 in. NPT TY4231 .. Pendent 8.0K, 3/4 in. NPT TY4831 ... Upright 8.0K, 1/2 in. NPT TY4931 .. Pendent 8.0K, 1/2 in. NPT

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# **Technical** Data

### **Approvals**

UL and C-UL Listed FM, LPCB, and NYC Approved EAC Approved

Note: For complete approval information, including corrosion-resistant status, see Tables A, B, C and D.

#### **Maximum Working Pressure** See Table E

### **Discharge Coefficient**

K=2.8 gpm/psi<sup>1/2</sup> (40,3 Lpm/bar<sup>1/2</sup>) K=4.2 gpm/psi<sup>1/2</sup> (60,5 Lpm/bar<sup>1/2</sup>) K=5.6 gpm/psi<sup>1/2</sup> (80,6 Lpm/bar<sup>1/2</sup>) K=8.0 gpm/psi<sup>1/2</sup> (115,2 Lpm/bar<sup>1/2</sup>)

## **Temperature Rating**

See Tables A and B

#### Finishes Sprinkler: See Table D

Recessed Escutcheon: Signal or Pure White, Grey Aluminum, Jet Black, Chrome Plated, or Natural Brass

### **Physical Characteristics**

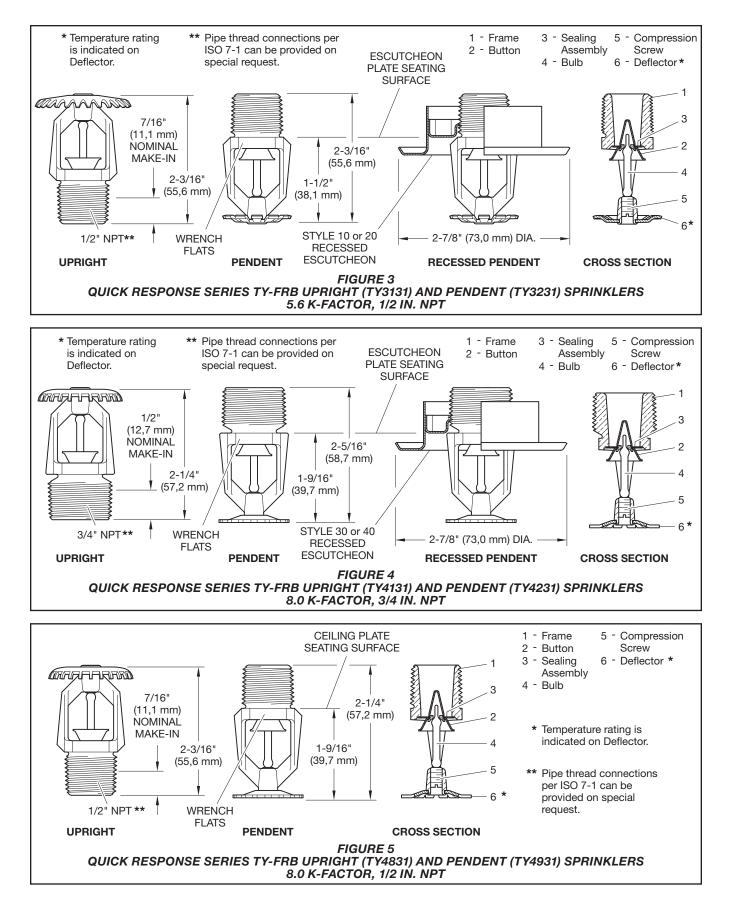
FrameBronze
Button Brass/Copper
Sealing Assembly Beryllium Nickel w/TEFLON
BulbGlass
Compression Screw Bronze
Deflector Copper/Bronze
Bushing (K=2.8)Bronze

## **Operation**

The glass bulb contains a fluid that expands when exposed to heat. When the rated temperature is reached, the fluid expands sufficiently to shatter the glass bulb, allowing the sprinkler to activate and water to flow.

# Design Criteria

The TYCO Series TY-FRB 2.8, 4.2, 5.6, and 8.0 K-factor Upright, Pendent, and Recessed Pendent Sprinklers are intended for fire protection systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency, such as UL Listing based on the requirements of NFPA 13 and FM Approval based on the requirements of the FM Global Loss Prevention Data Sheets. Use only the style 10, 20, 30, or 40 recessed escutcheon, as applicable, for recessed pendent installations.



# Installation

The TYCO Series TY-FRB 2.8, 4.2, 5.6, and 8.0 K-factor Upright, Pendent, and Recessed Pendent Sprinklers must be installed in accordance with this section.

### **General Instructions**

Do not install any bulb type sprinkler if the bulb is cracked or there is a loss of liquid from the bulb. With the sprinkler held horizontally, a small air bubble should be present. The diameter of the air bubble is approximately 1/16 in. (1,6 mm) for the 135°F (57°C) and 3/32 in. (2,4 mm) for the 286°F (141°C) temperature ratings. A leak-tight 1/2 in. NPT sprinkler joint should be obtained by applying a minimum-to-maximum torque of 7 ft-lb to 14 ft-lb (9,5 N·m to 19,0 N·m). A leak tight 3/4 in. NPT sprinkler joint should be obtained with a torque of 10 ft-lb to 20 ft-lb (13,4 N·m to 26,8 N·m). Higher levels of torgue can distort the sprinkler inlet and cause leakage or impairment of the sprinkler. Do not attempt to compensate for insufficient adjustment in the escutcheon plate by under or over-tightening the sprinkler. Re-adjust the position of the sprinkler fitting to suit.

# Series TY-FRB Upright and Pendent Sprinklers

The Series TY-FRB Upright and Pendent Sprinklers must be installed in accordance with the following instructions:

**Step 1.** Install pendent sprinklers in the pendent position. Install upright sprinklers in the upright position.

**Step 2.** With pipe thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

**Step 3.** Tighten the sprinkler into the sprinkler fitting using only the W-Type 6 Sprinkler Wrench as shown in Figure 14. Apply the sprinkler wrench to the sprinkler wrench flats as shown in Figure 1 to Figure 5.

### Series TY-FRB Recessed Pendent Sprinklers

The Series TY-FRB Recessed Pendent Sprinklers must be installed in accordance with the following instructions:

**Step 1.** After installing the Style 10, 20, 30, or 40 Mounting Plate, as applicable, over the sprinkler threads and with pipe-thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

**Step 2.** Tighten the sprinkler into the sprinkler fitting using only the W-Type 7 Recessed Sprinkler Wrench as shown in Figure 15. Apply the sprinkler wrench to the sprinkler wrench flats as shown in Figure 1 to 4.

**Step 3.** After the ceiling is installed or the finish coat is applied, slide on the Style 10, 20, 30, or 40 closure over the Series TY-FRB Recessed Pendent Sprinkler and push the closure over the mounting plate until its flange comes in contact with the ceiling.

# **Care and Maintenance**

The TYCO Series TY-FRB 2.8, 4.2, 5.6, and 8.0 K-factor Upright, Pendent, and Recessed Pendent Sprinklers must be maintained and serviced in accordance with this section. Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, obtain permission to shut down the affected fire protection systems from the proper authorities and notify all personnel who may be affected by this action.

Absence of the outer piece of an escutcheon, which is used to cover a clearance hole, can delay sprinkler operation in a fire situation.

Sprinklers which are found to be leaking or exhibiting visible signs of corrosion must be replaced.

Automatic sprinklers must never be painted, plated, coated, or otherwise altered after leaving the factory. Modified sprinklers must be replaced. Sprinklers that have been exposed to corrosive products of combustion, but have not operated, should be replaced if they cannot be completely cleaned by wiping the sprinkler with a cloth or by brushing it with a soft bristle brush.

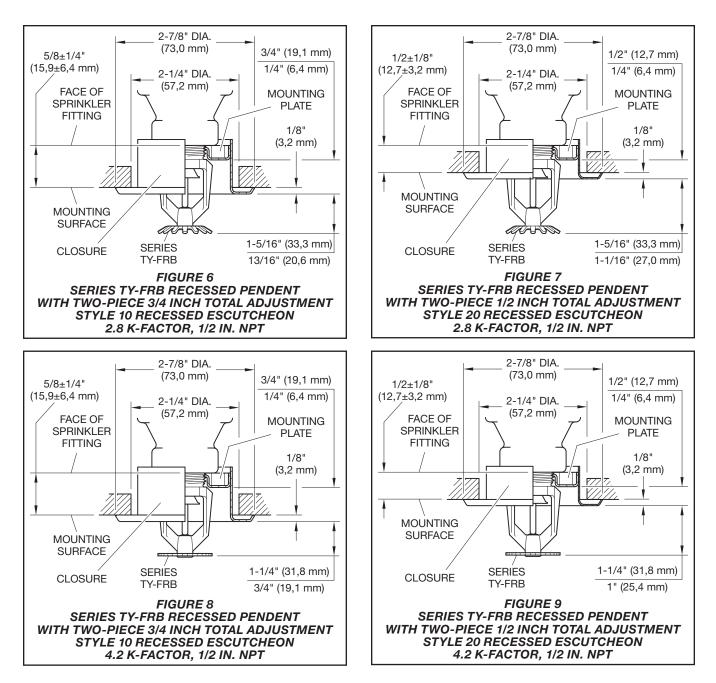
Care must be taken to avoid damage to the sprinklers before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/ slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. For more information, see Installation section.

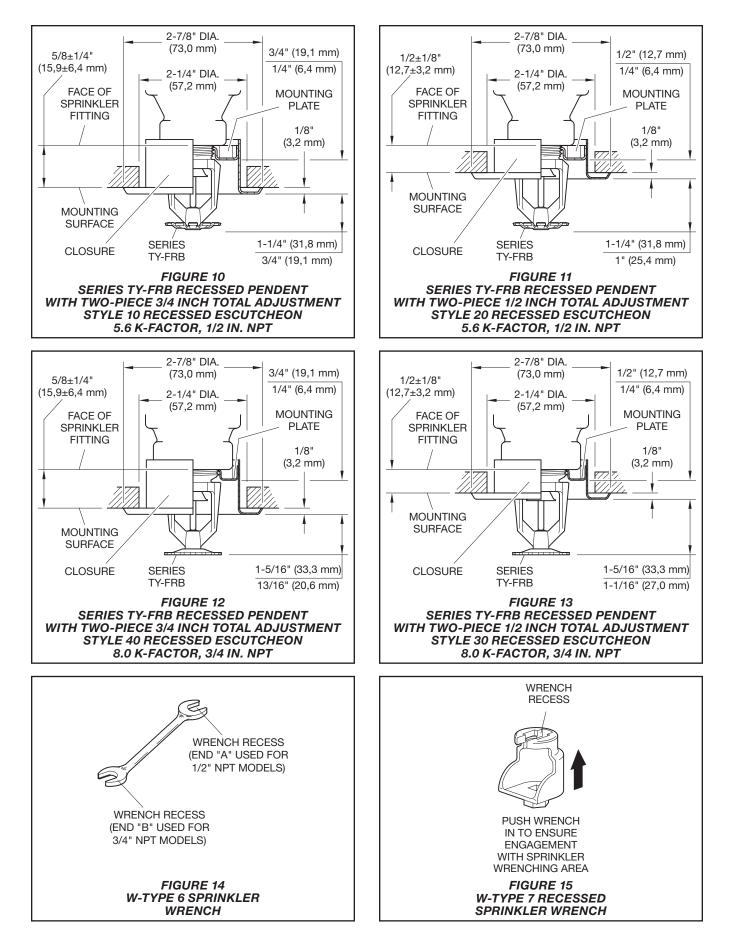
The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the National Fire Protection Association such as NFPA 25, in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or sprinkler manufacturer regarding any questions.

Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.

Care must be exercised to avoid damage to the sprinklers before, during, and after installation. Sprinklers damaged by dropping, striking, wrench twist/slippage, or the like, must be replaced. Also, replace any sprinkler that has a cracked bulb or that has lost liquid from its bulb. For more information, see Installation section.

Initial and frequent visual inspections of random samples are recommended for corrosion-resistant sprinklers to verify the integrity of the corrosion-resistant material of construction. Thereafter, annual inspections according to NFPA 25 should suffice. Inspections of corrosion-resistant sprinklers are recommended at close range, instead of from the floor level per NFPA. Inspection at close range can better determine the exact sprinkler condition and the longterm integrity of the corrosion-resistant material, which can be affected by the corrosive conditions present.





K-Factor	Туре	Temperature	Dulla Liquial	Sprinkler Finish <sup>5</sup>					
			Bulb Liquid Color	Natural Brass	Chrome Plated	Polyester			
		135°F (57°C)	Orange	-					
		155°F (68°C)	Red						
	Pendent (TY1231)	175°F (79°C)	Yellow	1					
	(111201)	200°F (93°C)	Green	1					
		286°F (141°C)	Blue	- - - - -					
2.8	Upright (TY1131)	135°F (57°C)	Orange						
		155°F (68°C)	Red						
		175°F (79°C)	Yellow						
		200°F (93°C)	Green						
1/2 in. NPT		286°F (141°C)	Blue						
	Recessed Pendent (TY1231)ª Figure 6	135°F (57°C)	Orange	-					
		155°F (68°C)	Red						
		175°F (79°C)	Yellow						
		200°F (93°C)	Green	1.0.4					
		135°F (57°C)	Orange	1, 2, 4					
	Recessed Pendent	155°F (68°C)	Red	-					
	(TY1231) <sup>b</sup> Figure 7	175°F (79°C)	Yellow						
	rigure /	200°F (93°C)	Green						

 NOTES

 a. Installed with Style 10 (1/2 in. NPT) or Style 40 (3/4 in. NPT) 3/4 in. Total Adjustment Recessed Escutcheon, as applicable.

 b. Installed with Style 20 (1/2 in. NPT) or Style 30 (3/4 in. NPT) 1/2 in. Total Adjustment Recessed Escutcheon, as applicable.

 c. Frame and Deflector only.

 1. Listed by Underwriters Laboratories, Inc., (UL) as Quick Response Sprinklers.

 2. Listed by Underwriters Laboratories, Inc., for use in Canada (C-UL) as Quick Response Sprinklers.

 3. Approved by Factory Mutual Research Corporation (FM) as Quick Response Sprinklers.

 4. Approved by the City of New York under MEA 354-01-E.

 5. Where Polyester Coated Sprinklers are noted to be UL and C-UL Listed, the sprinklers are UL and C-UL Listed as corrosion-resistant sprinklers.

 sprinklers.

#### TABLE A LABORATORY LISTINGS AND APPROVALS FOR 2.8 K-FACTOR SPRINKLERS

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K-Factor	Туре	Temperature Bulb Co	Dulla Liauri-l		Sprinkler Finish <sup>3</sup>			
			Bulb Liquid Color	Natural Brass	Chrome Plated	Polyester		
		135°F (57°C)	Orange		· · ·			
		155°F (68°C)	Red					
	Pendent (TY2231)	175°F (79°C)	Yellow	1				
	(112201)	200°F (93°C)	Green					
		286°F (141°C)	Blue					
	Upright (TY2131)	135°F (57°C)	Orange					
		155°F (68°C)	Red					
		175°F (79°C)	Yellow					
4.2		200°F (93°C)	Green		1, 2			
1/2 in. NPT		286°F (141°C)	Blue					
	Recessed Pendent (TY2231)ª Figure 8	135°F (57°C)	Orange	]				
		155°F (68°C)	Red					
		175°F (79°C)	Yellow					
	riguie e	200°F (93°C)	Green					
		135°F (57°C)	Orange					
	Recessed Pendent	155°F (68°C)	Red					
	(TY2231) <sup>b</sup> Figure 9	175°F (79°C)	Yellow					
	Figure 9	200°F (93°C)	Green					

 NOTES

 a. Installed with Style 10 (1/2 in. NPT) or Style 40 (3/4 in. NPT) 3/4 in. Total Adjustment Recessed Escutcheon, as applicable.

 b. Installed with Style 20 (1/2 in. NPT) or Style 30 (3/4 in. NPT) 1/2 in. Total Adjustment Recessed Escutcheon, as applicable.

 c. Frame and Deflector only.

 1. Listed by Underwriters Laboratories, Inc., (UL) as Quick Response Sprinklers.

 2. Listed by Underwriters Laboratories, Inc., for use in Canada (C-UL) as Quick Response Sprinklers.

 3. Where Polyester Coated Sprinklers are noted to be UL and C-UL Listed, the sprinklers are UL and C-UL Listed as corrosion-resistant sprinklers.

## TABLE B LABORATORY LISTINGS AND APPROVALS FOR 4.2 K-FACTOR SPRINKLERS

K-Factor				Sprinkler Finish <sup>8</sup>					
	Туре	Temperature Bulb Liquid - Color	Natural Brass	Chrome Plated	Polyester <sup>c</sup>	Lead Coated			
		135°F (57°C)	Orange						
	_	155°F (68°C)	Red	]					
	Pendent (TY3231)	175°F (79°C)	Yellow	]	1, 2, 3, 4, 5, 6, 7				
	(110201)	200°F (93°C)	Green						
		286°F (141°C)	Blue	]					
		135°F (57°C)	Orange						
	Upright (TY3131)	155°F (68°C)	Red						
		175°F (79°C)	Yellow	]	1, 2, 3, 5, 7				
	(110101)	200°F (93°C)	Green	]					
5.6 1/2 in.		286°F (141°C)	Blue						
NPT		135°F (57°C)	Orange	1, 2, 4, 5, 7					
	Recessed	155°F (68°C)	Red						
	Pendent (TY3231) <sup>a</sup>	175°F (79°C)	Yellow			N/A <sup>d</sup>			
	Figure 10	200°F (93°C)	Green	]					
		286°F (141°C)	Blue						
		135°F (57°C)	Orange						
	Recessed	155°F (68°C)	Red	1, 2, 3, 4, 5, 7		N/A			
	Pendent (TY3231) <sup>b</sup>	175°F (79°C)	Yellow						
	Figure 11	200°F (93°C)	Green	]					
		286°F (141°C)	Blue	]					

NOTES

a. Installed with Style 10 (1/2 in. NPT) or Style 40 (3/4 in. NPT) 3/4 in. Total Adjustment Recessed Escutcheon, as applicable.
 b. Installed with Style 20 (1/2 in. NPT) or Style 30 (3/4 in. NPT) 1/2 in. Total Adjustment Recessed Escutcheon, as applicable.
 c. Frame and Deflector only.

d. Not available (N/A).

d. Not available (N/A).
Listed by Underwriters Laboratories, Inc., (UL) as Quick Response Sprinklers.
Listed by Underwriters Laboratories, Inc., for use in Canada (C-UL) as Quick Response Sprinklers.
Approved by Factory Mutual Research Corporation (FM) as Quick Response Sprinklers.
Approved by the Loss Prevention Certification Board (LPCB Ref. No. 007k/04) as Quick Response Sprinklers. Note the following exceptions:

LPCB does not rate the thermal sensitivity of recessed sprinklers.
The recessed pendent (TY3231) sprinklers with a 286°F (141°C) temperature rating are not LPCB Approved.

Approved by the City of New York under MEA 354-01-E.
VdS Approved (For details, contact Johnson Controls, Enschede, Netherlands, Tel. 31-53-428-4444/Fax 31-53-428-3377.)
EAC Approved.

EAC Approved.
 Where Polyester Coated and Lead-Coated Sprinklers are noted to be UL and C-UL Listed, the sprinklers are UL and C-UL Listed as Corrosion-Resistant Sprinklers. Where Lead-Coated Sprinklers are noted to be FM Approved, the sprinklers are FM Approved as a Corrosion-Resistant Sprinklers.

#### TABLE C LABORATORY LISTINGS AND APPROVALS FOR **5.6 K-FACTOR SPRINKLERS**

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					Sprinkler	<sup>·</sup> Finish <sup>9</sup>	
K-Factor	Туре	Temperature	Bulb Liquid Color	Natural Brass	Chrome Plated	Polyesterc	Lead Coated
		135°F (57°C)	Orange	İ			
		155°F (68°C)	Red				
	Pendent (TY4231)	175°F (79°C)	Yellow	1			
	(114201)	200°F (93°C)	Green				1
		286°F (141°C)	Blue		1, 2, 3, 4, 5, 6, 7, 8	1050	
		135°F (57°C)	Orange	1		1, 2, 5, 8	
		155°F (68°C)	Red	]			
	Upright (TY4131)	175°F (79°C)	Yellow				
	(114101)	200°F (93°C)	Green				
8.0 3/4 in.		286°F (141°C)	Blue				
3/4 In. NPT		135°F (57°C)	Orange				
	Recessed Pendent (TY4231)ª Figure 12	155°F (68°C)	Red			N/A <sup>d</sup>	
		175°F (79°C)	Yellow	1, 2, 5, 8			
		200°F (93°C)	Green				
		286°F (141°C)	Blue	1			
		135°F (57°C)	Orange				
	Recessed	155°F (68°C)	Red				
	Pendent (TY4231) <sup>b</sup>	175°F (79°C)	Yellow	1, 2, 3, 5,	1, 2, 3, 5, 8	5, 8	
	Figure 13	200°F (93°C)	Green	]			
		286°F (141°C)	Blue				
		135°F (57°C)	Orange				
		155°F (68°C)	Red	]			
	Pendent (TY4931)         175°F (79°C)         Yello	Yellow					
	(114931)	200°F (93°C)	200°F (93°C) Green				
8.0	286°F (141°C) Blue		104500				
1/2 in. NPT		135°F (57°C)	Orange	- 1, 2, 4, 5, 6, 8	1, 2, 5, 8		
		155°F (68°C)	Red	ed			
	Upright (TY4831)	175°F (79°C)	Yellow	]			
		200°F (93°C)	Green	]			
		286°F (141°C)	Blue	]			

NOTES

a. Installed with Style 10 (1/2 in. NPT) or Style 40 (3/4 in. NPT) 3/4 in. Total Adjustment Recessed Escutcheon, as applicable.
b. Installed with Style 20 (1/2 in. NPT) or Style 30 (3/4 in. NPT) 1/2 in. Total Adjustment Recessed Escutcheon, as applicable.
c. Frame and Deflector only.

d. Not available (N/A).

Listed by Underwriters Laboratories, Inc., (UL) as Quick Response Sprinklers.
 Listed by Underwriters Laboratories, Inc., for use in Canada (C-UL) as Quick Response Sprinklers.

Approved by Factory Mutual Research Corporation (FM) as Quick Response Sprinklers.
 Approved by the Loss Prevention Certification Board (LPCB Ref. No. 007k/04) as Quick Response Sprinklers. However, LPCB does not rate the thermal sensitivity of recessed sprinklers.

5. Approved by the City of New York under MEA 354-01-E.
6. VdS Approved (For details, contact Johnson Controls, Enschede, Netherlands, Tel. 31-53-428-4444/Fax 31-53-428-3377.)
7. Approved by the Loss Prevention Certification Board (LPCB Ref. No. 094a/06) as Quick Response Sprinklers.

EAC Approved.
 Where Polyester Coated and Lead-Coated Sprinklers are noted to be UL and C-UL Listed, the sprinklers are UL and C-UL Listed as Corrosion-Resistant Sprinklers. Where Lead-Coated Sprinklers are noted to be FM Approved, the sprinklers are FM Approved as a Corrosion-Resistant Sprinklers.

### TABLE D LABORATORY LISTINGS AND APPROVALS FOR 8.0 K-FACTOR SPRINKLERS

		Sprinkler Finish					
K-Factor	Туре	Natural Brass	Chrome Plated	Polyester	Lead Coated		
2.8 1/2 in.	Pendent (TY1231) and Upright (TY1131)			N/A <sup>2</sup>			
NPT	Recessed Pendent (TY1231)		175 psi (12,1 bar)				
4.2 Uprig 1/2 in. NPT Re	Pendent (TY2231) and Upright (TY2131)		175 psi (12,1 bar)		N/A		
	Recessed Pendent (TY2231)						
5.6	Pendent (TY3231) and Upright (TY3131)	250 psi (17,2 bar)					
1/2 in. NPT	Recessed Pendent (TY3231)		or 175 psi (12,1 bar) <sup>1</sup>				
8.0 3/4 in.	Pendent (TY4231) and Upright (TY4131)	175 psi (12,1 bar)			175 psi (12,1 bar)		
3/4 in. NPT	Recessed Pendent(TY4231)		110 por (12,1 bal)		N/A		
8.0 1/2 in. NPT	Pendent (TY4931) and Upright (TY4831)		175 psi (12,1 bar)		175 psi (12,1 bar)		

The maximum working pressure of 250 psi (17,2 bar) only applies to the Listing by Underwriters Laboratories Inc. (UL); the Listing by Underwriters Laboratories, Inc. for use in Canada (C-UL); and, the Approval by the City of New York.
 Not available (N/A).

# TABLE E MAXIMUM WORKING PRESSURE

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		SIN		SPRINKLER FINISH			TEMPERATURE RATINGS
330	2.8K UPRIGHT (1/2 in. NPT)	TY1131	1	NATURAL BRASS		135	135°F (57°C)
331	2.8K PENDENT (1/2 in. NPT)	TY1231	3	PURE WHITE POLYESTER (RAL9010) <sup>1</sup>		155	155°F (68°C)
340	4.2K UPRIGHT (1/2 in. NPT)	TY2131	4	SIGNAL WHITE POLYESTER (RAL9003)		175	175°F (79°C)
341	4.2K PENDENT (1/2 in. NPT)	TY2231	5	JET BLACK POLYESTER (RAL9005) <sup>2</sup>		200	200°F (93°C)
370	5.6K UPRIGHT (1/2 in. NPT)	TY3131	7	LEAD COATED		286	286°F (141°C)
371	5.6K PENDENT (1/2 in. NPT)	TY3231	9	CHROME PLATED	I		
390	8.0K UPRIGHT (3/4 in. NPT)	TY4131	NOTE	<b>S</b> stern Hemisphere sales only.			
391	8.0K PENDENT (3/4 in. NPT)	TY4231	2. Ava	ilable in only 2.8K, 4.2K, and 8.0K, 15 d time to manufacture.	5°F (68°	°C) and 200	°F (93°C); requires longer
360	8.0K UPRIGHT (1/2 in. NPT)	TY4831					
361	8.0K PENDENT (1/2 in. NPT)	TY4931					

#### TABLE F SERIES TY-FRB PENDENT AND UPRIGHT SPRINKLERS PART NUMBER SELECTION

# Limited Warranty

For warranty terms and conditions, visit www.tyco-fire.com.

# Ordering Procedure

Contact your local distributor for availability. When placing an order, indicate the full product name and Part Number (P/N).

### Sprinkler Assemblies with NPT Thread Connections

Specify: Series TY-FRB (Specify SIN), (specify K-factor), (specify Pendent or Upright) Sprinkler (specify) temperature rating, (specify) finish or coating, P/N (specify from Table F)

### **Recessed Escutcheon**

Specify: Style (10, 20, 30, or 40) Recessed Escutcheon with (specify\*) finish, P/N (specify\*)

\* Refer to technical data sheet TFP770

#### **Sprinkler Wrench**

Specify: W-Type 6 Sprinkler Wrench, P/N 56-000-6-387

Specify: W-Type 7 Sprinkler Wrench, P/N 56-850-4-001

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