Series TY-B — 5.6 K-factor
Conventional (Old Style) Sprinklers
Standard Response

General Description
The TYCO Series TY-B, 5.6 K-factor, Conventional Sprinklers (TY365) described in this data sheet are standard response - standard coverage, decorative 5 mm glass bulb type spray sprinklers. These sprinklers are intended to be installed either pendent or upright, and in either position, they produce a spherical water discharge pattern with approximately 50% of the discharge directed upwards and approximately 50% of the discharge directed downwards.

Conventional sprinklers are generally used with Ordinary and Extra High Hazard Class Systems, as defined by the automatic sprinkler system installation rules of the country and authority having jurisdiction. The NFPA permits the use of “Old Style Sprinklers” where special construction features require a unique water distribution; for the protection of fur vaults; or, the replacement of similar sprinklers that had been installed prior to 1955.

NOTICE
The TYCO Series TY-B 5.6 K-factor Conventional Sprinklers described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the NATIONAL FIRE PROTECTION ASSOCIATION, in addition to the standards of any other 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. Contact the installing contractor or product manufacturer with any questions.

Sprinkler Identification Number (SIN)
TY365
TY3650 (LPCB Approved only)

Technical Data

Operation
The glass bulb contains a fluid which 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-B, 5.6 K-factor, Conventional Sprinklers (TY365) are intended for fire protection systems designed in accordance with the standard installation rules recognized by the applicable Listing or Approval agency (e.g., UL Listing is based on NFPA 13 requirements). The Series TY-B Conventional Sprinklers are only for non-recessed applications.
Installation

The TYCO Series TY-B, 5.6 K-factor, Conventional Sprinklers (TY365) 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) to 3/32 in. (2.4 mm) for the 360°F (182°C) temperature ratings.

A leak tight 1/2 in. NPT sprinkler joint should be obtained with a torque of 7 to 14 lb-ft (9.5 to 19.0 N·m). Higher levels of torque may distort the sprinkler inlet and cause leakage or impairment of the sprinkler.

Step 1. 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 6 Sprinkler Wrench (Figure 2), except that an 8 in. or 10 in. adjustable Crescent wrench is to be used for wax coated sprinklers. With reference to Figure 1, the W-Type 6 Sprinkler Wrench or the Crescent wrench, as applicable, is to be applied to the wrench flats.

Care and Maintenance

The TYCO Series TY-B, 5.6 K-factor, Conventional Sprinklers (TY365) 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.

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 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. Refer to the Installation section for additional information.

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 (e.g., NFPA 25), in addition to the standards of any other authorities having jurisdiction. Contact the installing contractor or sprinkler manufacturer regarding any questions.

It is recommended that automatic sprinkler systems be inspected, tested, and maintained by a qualified Inspection Service in accordance with local requirements and/or national codes.
**Use suffix “I” for ISO 7-1 connection; for example, 77-573-4-175-I**

**LPCB approved Series TY-B Conventional Sprinkler assemblies only: Use suffix “L” for LPCB Approved assemblies (e.g., 77-573-4-175-L or 77-573-4-175-IL for LPCB Approved and ISO 7-1 connection)**

**Eastern Hemisphere sales only**

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

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

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**Ordering Procedure**

Contact your local distributor for availability. When placing an order, indicate the full product name.

**Sprinkler Assemblies with NPT**

**Thread Connections**
Specify: Series TY-B Conventional Sprinklers, SIN TY365, K=5.6, Standard Response, (specify) temperature rating, (specify) finish, P/N (specify, refer to Table B)