Series TY-B — 40, 80, and 115 K-factor Upright, Pendent, and Recessed Pendent Sprinklers Standard Response, Standard Coverage

General Description

The Series TY-B, K40, K80 and K115 Upright and Pendent Sprinklers described in this data sheet are standard response - standard coverage, decorative 5 mm glass bulb type spray sprinklers designed for use in light, ordinary, or extra hazard, commercial occupancies such as banks, hotels, shopping malls, factories, refineries, chemical plants, etc.

The recessed version of the Series TY-B Pendent Sprinkler, where applicable, is intended for use in areas with a finished ceiling. It uses a two-piece Style 10 (1/2" NPT) or Style 40 (3/4"NPT) Recessed Escutcheon. The Recessed Escutcheon provides 12.5 mm (1/2") of recessed adjustment or up to 19 mm (3/4") of total adjustment from the flush pendent position. The adjustment provided by the Recessed Escutcheon allows the pipe drops to the sprinkler to be cut less accurately.

Corrosion resistant coatings, where applicable, are utilized to extend the life of copper alloy sprinklers beyond that which would otherwise 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-B Pendent Sprinkler can be obtained by utilizing the Series TY-B Pendent Sprinkler in combination with the Model S2 Shield.

WARNINGS
The Series TY-B 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. The installing contractor or sprinkler manufacturer should be contacted with any questions.

Model/Sprinkler Identification Numbers

TY1151 - Upright 40K, 1/2"NPT
TY1251 - Pendent 40K, 1/2"NPT
TY3151 - Upright 80K, 1/2"NPT
TY3251 - Pendent 80K, 1/2"NPT
TY4151 - Upright 115K, 3/4"NPT
TY4251 - Pendent 115K, 3/4"NPT
TY4851 - Upright 115K, 1/2"NPT
TY4951 - Pendent 115K, 1/2"NPT

IMPORTANT
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.
FIGURE 1

STANDARD RESPONSE SERIES TY-B UPRIGHT (TY1151) AND PENDENT (TY1251) SPRINKLERS K40, 1/2" NPT

Temperature rating is indicated on deflector or adjacent to orifice seat on frame.

Pipe thread connections per ISO 7/1 can be provided on special request.

FIGURE 2

STANDARD RESPONSE SERIES TY-B UPRIGHT (TY3151) AND PENDENT (TY3251) SPRINKLERS K80, 1/2" NPT

Temperature rating is indicated on deflector or adjacent to orifice seat on frame.

Pipe thread connections per ISO 7/1 can be provided on special request.
FIGURE 3
STANDARD RESPONSE SERIES TY-B UPRIGHT (TY4151) AND PENDENT (TY4251) SPRINKLERS K115, 3/4" NPT

FIGURE 4
STANDARD RESPONSE SERIES TY-B UPRIGHT (TY4851) AND PENDENT (TY4951) SPRINKLERS K115, 1/2" NPT
### SPRINKLER FINISH (See Note 8)

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**NOTES:**
1. Listed by Underwriters Laboratories, Inc. (UL)
2. Listed by Underwriters Laboratories, Inc. for use in Canada (C-UL)
3. Approved by Factory Mutual Research Corporation (FM)
4. Approved by the Loss Prevention Certification Board (LPCB Ref. No. 007k/03)
5. Approved by the City of New York under MEA 354-01-E
6. VdS Approved (For details contact Tyco Fire & Building Products, Enschede, Netherlands, Tel. +31-53-428-4444/Fax +31-53-428-3377)
7. Approved by the Loss Prevention Certification Board (LPCB Ref. No. 094a/05)
8. Where Polyester Coated, Lead Coated, Wax Coated, and Wax over 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, Wax Coated, and Wax over Lead Coated Sprinklers are noted to be FM Approved, the sprinklers are FM Approved as Corrosion Resistant Sprinklers
* Installed with Style 10 (1/2" NPT) or Style 40 (3/4" NPT) 3/4" Total Adjustment Recessed Escutcheon, as applicable
** 66°C (150°F) Maximum Ceiling Temperature

**TABLE A, LABORATORY LISTINGS AND APPROVALS**
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<th>K</th>
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**NOTE:**
1. The maximum working pressure of 17,2 bar (250 psi) 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.

**TABLE B, MAXIMUM WORKING PRESSURE**

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**Technical Data**

**Approvals**
UL and C-UL Listed. FM, LPCB, VdS, and NYC Approved. (Refer to Table A for complete approval information including corrosion resistant status.)

**Maximum Working Pressure**
Refer to Table B.

**Discharge Coefficient**
40.3 l/min-bar (2.8 usgpm/psig)
80.6 l/min-bar (5.6 usgpm/psig)
115.2 l/min-bar (8.0 usgpm/psig)

**Temperature Ratings**
Refer to Table A

**Finish**
Sprinkler: Refer to Table A. Recessed Escutcheon: White Coated, Chrome Plated, Brass Plated

**Physical Characteristics**
Frame ................................................. Bronze Button ................................................. Brass/Copper Sealing Assembly .................................................. Beryllium Nickel w/Teflon* Bulb ............................................................. Glass Compression Screw .............................................. Brass/Brass/Brass/Brass/Brass Copper Bushing (K40) .................................................. Bronze

*Registered trademark of DuPont.

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**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, activating the sprinkler and allowing water to flow.

**Design Criteria**

The Series TY-B Pendent and Upright Sprinklers 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 the requirements of NFPA 13, and FM Approval is based on the requirements of FM’s Loss Prevention Data Sheets). Only the Style 10 or 40 Recessed Escutcheon, as applicable, is to be used for recessed pendent installations.

**Installation**

The Series TY-B Sprinklers must be installed in accordance with the following instructions:

**NOTES**
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 1.5 mm (1/16") for the 57°C (135°F) to 2.5 mm (3/32") for the 182°C (360°F) temperature ratings.

A leak tight 1/2" NPT sprinkler joint should be obtained with a torque of 10 to 19 Nm (7 to 14 ft.lbs.). A maximum of 29 Nm (21 ft. lbs.) of torque may be used to install sprinklers with 1/2 NPT connections. A leak tight 3/4" NPT sprinkler joint should be obtained with a torque of 13 to 37 Nm (10 to 20 ft.lbs.). A maximum of 41 Nm (30 ft.lbs.) of torque is to be used to install sprinklers with 3/4 NPT connections. Higher levels of torque may distort the sprinkler inlet and cause leakage or impairment of the sprinkler.

Do not attempt to make-up for insufficient adjustment in the escutcheon plate by under- or over-tightening the sprinkler. Readjust the position of the sprinkler fitting to suit.
The Series TY-B Pendent and Upright Sprinklers must be installed in accordance with the following instructions.

Step 1. Pendent sprinklers are to be installed in the pendent position, and upright sprinklers are to be installed 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 (Ref. Figure 7), except that a 200 or 250 mm (8 or 10") adjustable Crescent wrench is to be used for wax coated sprinklers. With reference to Figures 1, 2, 3, and 4 the W-Type 7 Sprinkler Wrench or the adjustable Crescent wrench, as applicable is to be applied to the wrench flats.

When installing wax coated sprinklers with the adjustable Crescent wrench, additional care needs to be exercised to prevent damage to the wax coating on the sprinkler wrench flats or frame arms and, consequently, exposure of bare metal to the corrosive environment. The jaws of the wrench should be opened sufficiently wide to pass...
over the wrench flats without damaging the wax coating. Before wrench tightening the sprinkler, the jaws of the wrench are to be adjusted to just contact the sprinkler wrench flats. After wrench tightening the sprinkler, loosen the wrench jaws before removing the wrench.

After installation, the sprinkler wrench flats and frame arms must be inspected and the wax coating retouched (repaired) whenever the coating has been damaged and bare metal is exposed. The wax coating on the wrench flats can be retouched by gently applying a heated 1/8 inch diameter (M3) steel rod to the areas of wax that have been damaged, to smooth it back over areas where bare metal is exposed.

**NOTES**

Only retouching of the wax coating applied to the wrench flats and frame arms is permitted, and the retouching is to be performed only at the time of the initial sprinkler installation.

The steel rod should be heated only to the point at which it can begin to melt the wax, and appropriate precautions need to be taken, when handling the heated rod, in order to prevent the installer from being burned.

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

**Step A.** After installing the Style 10 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 B.** Tighten the sprinkler into the sprinkler fitting using only the W-Type 7 Recessed Sprinkler Wrench (Ref. Figure 8). With reference to Figure 3 or 4, the W-Type 7 Recessed Sprinkler Wrench is to be applied to the sprinkler wrench flats.

**Step C.** After the ceiling has been installed or the finish coat has been applied, slide on the Style 10 or 40 Closure over the Series TY-B Sprinkler and push the Closure over the Mounting Plate until its flange comes in contact with the ceiling.

**Care and Maintenance**

The Series TY-B Sprinklers must be maintained and serviced in accordance with the following instructions:

**NOTES**

Before closing a fire protection system main control valve for maintenance work on the fire protection system that it controls, permission to shut down the affected fire protection systems must be obtained from the proper authorities and all personnel who may be affected by this action must be notified.

The owner must assure that the sprinklers are not used for hanging of any objects; otherwise, non-operation in the event of a fire or inadvertent operation may result.

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

Sprinklers that 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. (Ref. Installation Section).

Frequent visual inspections are recommended to be initially performed for corrosion resistant coated sprinklers, after the installation has been completed, to verify the integrity of the corrosion resistant coating. Thereafter, annual inspections per NFPA 25 should suffice; however, instead of inspecting from the floor level, a random sampling of close-up visual inspections should be made, so as to better determine the exact sprinkler condition and the long term integrity of the corrosion resistant coating, as it may be affected by the corrosive conditions present.

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. The installing contractor or sprinkler manufacturer should be contacted relative to 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.

**Limited Warranty**

Products manufactured by Tyco Fire & Building Products (TFBP) are warranted solely to the original Buyer for ten (10) years against defects in material and workmanship when paid for and properly installed and maintained under normal use and service. This warranty will expire ten (10) years from date of shipment by TFBP. No warranty is given for products or components manufactured by companies not affiliated by ownership with TFBP or for products and components which have been subject to misuse, improper installation, corrosion, or which have not been installed, maintained, modified or repaired in accordance with applicable Standards of the National Fire Protection Association, and/or the standards of any other Authorities Having Jurisdiction. Materials found by TFBP to be defective shall be either repaired or replaced, at TFBP's sole option. TFBP neither assumes, nor authorizes any person to assume for it, any other obligation in connection with the sale of products or parts of products. TFBP shall not be responsible for sprinkler system design errors or inaccurate or incomplete information supplied by Buyer or Buyer's representatives.

In no event shall TFBP be liable, in contract, tort, strict liability or under any other legal theory, for incidental, indirect, special or consequential damages, including but not limited to labor charges, regardless of whether TFBP was informed about the possibility of such damages, and in no event shall TFBP's liability exceed an amount equal to the sales price.

The foregoing warranty is made in lieu of any and all other warranties express or implied, including warranties of merchantability and fitness for a particular purpose.

This limited warranty sets forth the exclusive remedy for claims based on failure of or defect in products, materials or components, whether the claim is made in contract, tort, strict liability or any other legal theory.

This warranty will apply to the full extent permitted by law. The invalidity, in whole or part, of any portion of this warranty will not affect the remainder.
P/N 57 — XXX — X — XXX

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</tr>
<tr>
<td>531 K40 PENDENT (1/2&quot; NPT)</td>
<td>4 WHITE POLYESTER</td>
<td>155°F (68°C)</td>
</tr>
<tr>
<td>570 K80 UPRIGHT (1/2&quot; NPT)</td>
<td>3 WHITE (RAL9010)*</td>
<td>175°F (79°C)</td>
</tr>
<tr>
<td>571 K80 PENDENT (1/2&quot; NPT)</td>
<td>9 CHROME PLATED</td>
<td>200°F (93°C)</td>
</tr>
<tr>
<td>590 K115 UPRIGHT (3/4&quot; NPT)</td>
<td>7 LEAD COATED</td>
<td>286°F (141°C)</td>
</tr>
<tr>
<td>591 K115 PENDENT (3/4&quot; NPT)</td>
<td>6 WAX COATED 141°C (286°F)</td>
<td>360°F (182°C)</td>
</tr>
<tr>
<td>560 K115 UPRIGHT (1/2&quot; NPT)</td>
<td>8 WAX OVER LEAD 141°C (286°F) MAX.</td>
<td></td>
</tr>
<tr>
<td>561 K115 PENDENT (1/2&quot; NPT)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* For sales outside the Americas

### Table C

**PART NUMBER SELECTION SERIES TY-B PENDENT AND UPRIGHT SPRINKLERS**

### Ordering Procedure

When placing an order, indicate the full product name. Refer to the Price List for complete listing of Part Numbers.

Contact your local distributor for availability.

**Sprinkler Assemblies with NPT Thread Connections:**

Specify: (Specify Model/SIN), Standard Response, (specify K-factor), (specify temperature rating), Series TY-B (specify Pendent or Upright) Sprinkler with (specify type of finish or coating), P/N (specify from Table C).

**Recessed Escutcheon:**

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

* Refer to Technical Data Sheet TFP770.

**Sprinkler Wrench:**

Specify: W-Type 6 Sprinkler Wrench

Specifying W-Type 6 Sprinkler Wrench

Specify: W-Type 7 Sprinkler Wrench

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