# Series EC-11 and EC-14 Sprinklers, 11.2 K and 14.0 K Upright and Pendent Extended Coverage Light and Ordinary Hazard

## General Description

TYCO Series EC-11 and EC-14 Extended Coverage Upright and Pendent Sprinklers are decorative glass-bulb sprinklers designed for use in light or ordinary hazard occupancies. They are intended for use in automatic sprinkler systems designed in accordance with standard installation rules (e.g., NFPA 13) for a maximum coverage area of 400 $ft^2$ (37,2 $m^2$), as compared to the maximum coverage area of 130 $ft^2$ (12,1 $m^2$) for standard coverage sprinklers used in ordinary hazard occupancies or 225 $ft^2$ (20,6 $m^2$) for standard coverage sprinklers used in light hazard occupancies.

Series EC-11 and EC-14 Sprinklers feature a UL and C-UL Listing that permits their use with unobstructed or non-combustible obstructed ceiling construction as defined and permitted by NFPA 13, as well as a specific application listing for use under concrete tees.

Series EC-11 and EC-14 Extended Coverage Sprinklers have been fire tested to compare their performance to that of standard coverage spray sprinklers. These tests have shown that the protection provided is equal to or more effective than standard coverage spray sprinklers.

Corrosion-resistant coatings, where applicable, help extend the life of copper alloy sprinklers beyond that which occurs when exposed to corrosive atmospheres. Although corrosion-resistant coated sprinklers passed standard corrosion tests of the applicable approval agencies, this 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 corrosion-resistant coatings for any given corrosive environment. The effects of ambient temperature, concentration of chemicals, and gas/chemical velocity should be considered, along with the corrosive nature of the chemical to which the sprinklers will be exposed.

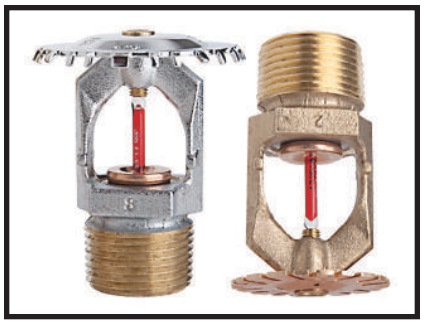
**NOTICE**

*Series EC-11 and EC-14 Extended Coverage 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.*

***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.*





## Sprinkler Identification Numbers (SINs)

**TY5137 - Upright, 11.2K**

**TY5237 - Pendent, 11.2K**

**TY6137 - Upright, 14.0K**

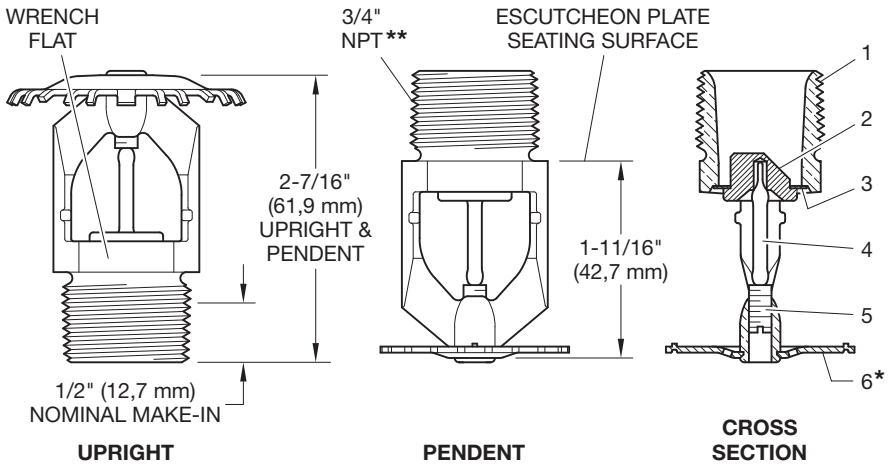
**TY6237 - Pendent, 14.0K**

TY5137 is a re-designation for C5137, G1894, and S2510.

TY5237 is a re-designation for C5237, G1893, and S2511.

TY6137 is a re-designation for C6137, G1896, and S2610.

TY6237 is a re-designation for C6237, G1895, and S2611.




Components:
1 - Frame
2 - Button
3 - Sealing Assembly
4 - Bulb
5 - Compression Screw
6 - Deflector *

* Temperature rating is indicated on Deflector.

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

***FIGURE 1***
***SERIES EC-11 AND EC-14 EXTENDED COVERAGE SPRINKLERS***
***11.2 K-FACTOR UPRIGHT (TY5137) AND PENDENT (TY5237)***
***14.0 K-FACTOR UPRIGHT (TY6137) AND PENDENT (TY6237)***
***ASSEMBLY***

# Technical Data

**Approvals**
TYCO Series EC-11 and EC-14 Extended Coverage Upright, Pendent, and Recessed Pendent Sprinklers are UL and C-UL Listed. Refer to Table A for complete sprinkler approval information including corrosion-resistant status. The approvals apply to the service conditions indicated in the Design Criteria section.

Series EC-11 and EC-14 Extended Coverage Upright and Pendent Sprinklers are FM Approved. Refer to Table A for complete sprinkler approval information including corrosion-resistant status. The approvals apply to the service conditions indicated in the Design Criteria section.

The Style 60 Two-Piece Flush Escutcheon (Figure 4) is UL Listed and FM Approved for use with the Series EC-11 and EC-14 Pendent Sprinklers.

**Maximum Working Pressure**
175 psi (12,1 bar)

**Pipe Thread Connection**
3/4 inch NPT

**Discharge Coefficients**
K = 11.2 gpm/psi$^{1/2}$ (161,3 lpm/bar$^{1/2}$)
K = 14.0 gpm/psi$^{1/2}$ (201,6 lpm/bar$^{1/2}$)

**Temperature Ratings**
Refer to Table A.

**Finish**
Sprinkler:
Refer to Table A.

Recessed or Flush Escutcheon: White-Coated, Chrome-Plated, and Brass-Plated

**Physical Characteristics**

| | |
|---|---|
| Frame | Bronze |
| Button | Bronze |
| Sealing Assembly | Beryllium Nickel w/TEFLON |
| Bulb | Glass (3 mm) |
| Compression Screw | Bronze |
| Deflector | Brass |

# 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, which then allows the sprinkler to activate and flow water.

# Design Criteria

TYCO Series EC-11 and EC-14 Extended Coverage Sprinklers must only be installed in accordance with the applicable UL and C-UL Listing or FM Approval requirements as indicated below. Only Style 30 or 40 Recessed Escutcheons are to be used for recessed installation, as applicable.

Refer to Tables A, B, and C.

| Hazard | Type | Temperature | Bulb Liquid | Sprinkler Finish (See Note 5) | | | |
|---|---|---|---|---|---|---|---|
| | | | | Natural Brass | Chrome Plated | Polyester* | Lead Coated |
| **Light**<br>**Table B describes UL and C-UL Sensitivity Rating**<br>**Table C describes FM Sensitivity Rating** | Upright K=11.2 (TY5137)<br>Pendent K=11.2 (TY5237) K=14.0 (TY6237) | 135°F (57°C) | Orange | 1, 2, 3**, 4 | | | |
| | | 155°F (68°C) | Red | | | | |
| | | 175°F (79°C) | Yellow | 1, 2, 4 | | | 1, 2, 4 |
| | | 200°F (93°C) | Green | | | | |
| | | 286°F (141°C) | Blue | | | | |
| | Recessed Pendent K=11.2 (TY5237) K=14.0 (TY6237) With Style 30 Escutcheon | 135°F (57°C) | Orange | 1, 2, 3, 4 | | | N/A |
| | | 155°F (68°C) | Red | | | | |
| | | 175°F (79°C) | Yellow | 1, 2, 4 | | | |
| | | 200°F (93°C) | Green | | | | |
| | | 286°F (141°C) | Blue | | | | |
| **Ordinary**<br>**Table B describes UL and C-UL Sensitivity Rating**<br>**Table C describes FM Sensitivity Rating** | Upright K=11.2 (TY5137) K=14.0 (TY6137)<br>Pendent K=11.2 (TY5237) K=14.0 (TY6237) | 135°F (57°C) | Orange | 1, 2, 3, 4 | | | 1, 2, 3, 4 |
| | | 155°F (68°C) | Red | | | | |
| | | 175°F (79°C) | Yellow | | | | 1, 2, 4 |
| | | 200°F (93°C) | Green | | | | |
| | | 286°F (141°C) | Blue | | | | |
| | Recessed Pendent K=11.2 (TY5237) K=14.0 (TY6237) With Style 30 or 40 Escutcheon | 135°F (57°C) | Orange | 1, 2, 4 | | | N/A |
| | | 155°F (68°C) | Red | | | | |
| | | 175°F (79°C) | Yellow | | | | |
| | | 200°F (93°C) | Green | | | | |

**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 City of New York under MEA 177-03-E

(5). Where Polyester Coated or Lead Coated Sprinklers are noted to be UL and C-UL Listed, the sprinklers are UL and C-UL Listed as Corrosion Resistant Sprinklers

* Frame and Deflector only.

** Pendent Only

N/A: Not Available

***TABLE A***
***LABORATORY LISTINGS AND APPROVALS***

| Area | Style | Light Hazard | | | | | Ordinary Hazard | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 135°F (57°C) | 155°F (68°C) | 175°F (79°C) | 200°F (93°C) | 286°F (141°C) | 135°F (57°C) | 155°F (68°C) | 175°F (79°C) | 200°F (93°C) | 286°F (141°C) |
| **14 x 14** | Upright or Pendent | - | - | - | - | - | QR | QR | QR | QR | QR |
| | Style 30 Recessed | - | - | - | - | - | QR | QR | QR | QR | QR |
| | Style 40 Recessed | - | - | - | - | - | QR | QR | QR | QR | QR |
| **16 x 16** | Upright or Pendent | QR* | QR* | QR* | QR* | QR* | SR | SR | SR | SR | SR |
| | Style 30 Recessed | QR* | QR* | QR* | QR* | QR* | SR | SR | SR | SR | SR |
| | Style 40 Recessed | N/A | N/A | N/A | N/A | N/A | SR | SR | SR | SR | SR |
| **18 x 18** | Upright or Pendent | QR* | QR* | QR* | QR* | QR* | SR | SR | SR | SR | SR |
| | Style 30 Recessed | QR* | QR* | QR* | QR* | QR* | SR | SR | SR | SR | SR |
| | Style 40 Recessed | N/A | N/A | N/A | N/A | N/A | SR | SR | SR | SR | SR |
| **20 x 20** | Upright or Pendent | QR* | QR* | QR* | SR* | SR* | SR | SR | SR | SR | SR |
| | Style 30 Recessed | QR* | QR* | QR* | SR* | SR* | SR | SR | SR | SR | SR |
| | Style 40 Recessed | N/A | N/A | N/A | N/A | N/A | SR | SR | SR | SR | SR |

QR: Quick Response

SR: Standard Response

N/A: Not Applicable

* Does not apply to Upright K=14.0

***TABLE B***
***SENSITIVITY RATING FOR UL AND C-UL LISTING OF SERIES EC-11 OR EC-14 SPRINKLERS***
***(Refer to Table D for Permitted K-Factor/Area Combinations)***

| HC-1 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Linear Spacing** | | **Area Spacing** | | **Ceiling Height** | **Ceiling Type** | **K-factor** | **Style** | **Response** |
| **Min** | **Max** | **Min** | **Max** | | | | | |
| 10 | 20 | 100 | 400 | Up to 30 | Noncombustible Unobstructed, Noncombustible Obstructed, or Combustible Unobstructed | 11.2 EC 14.0 EC | Pendent or Upright | Quick |
| 10 | 20 | 100 | 400 | Up to 30 | Noncombustible Unobstructed, Noncombustible Obstructed, or Combustible Unobstructed | 11.2 EC 14.0 EC | Pendent Recessed Style 30 | |
| 10 | 20 | 100 | 400 | Up to 30 | Combustible obstructed | 11.2 EC 14.0 EC | Pendent or Upright | |
| 10 | 20 | 100 | 400 | Up to 30 | Combustible obstructed | 11.2 EC 14.0 EC | Pendent Recessed Style 30 | |
| 10 | 20 | 100 | 400 | Over 30 and up to 45 | Noncombustible Unobstructed | 11.2 EC 14.0 EC | Upright | |
| **HC-2** | | | | | | | | |
| **Linear Spacing** | | **Area Spacing** | | **Ceiling Height** | **Ceiling Type** | **K-factor** | **Style** | **Response** |
| **Min** | **Max** | **Min** | **Max** | | | | | |
| 10 | 20 | 100 | 400 | Up to 30 | Noncombustible Unobstructed, Combustible Unobstructed | 11.2 EC | Upright | Quick |
| 10 | 20 | 100 | 400 | Up to 30 | | 14.0 EC | Pendent or Upright | |
| 10 | 16 | 100 | 256 | Over 30 and up to 45 | | 11.2 EC 14.0 EC | Upright | |
| **HC-3** | | | | | | | | |
| **Linear Spacing** | | **Area Spacing** | | **Ceiling Height** | **Ceiling Type** | **K-Factor** | **Style** | **Response** |
| **Min** | **Max** | **Min** | **Max** | | | | | |
| 10 | 16 | 100 | 256 | Up to 30 | Noncombustible Unobstructed, Combustible Unobstructed | 11.2 EC | Upright | Quick |
| 10 | 20 | 100 | 400 | Up to 30 | | 14.0 EC | Pendent or Upright | |
| 10 | 16 | 100 | 256 | Over 30 and up to 45 | | 11.2 EC, 14.0 EC | Upright | |

**NOTE**
1. The design for K 11.2 EC (K 160 EC) sprinklers should not include fewer than six sprinklers or have a design pressure of less than 12 psi (0,8 bar); similarly the design for K 14.0 EC (K 200 EC)sprinklers should not include fewer than four sprinklers or have a design pressure of less than 18 psi (1,2 bar).
2. For flow criteria, refer to FM Loss Prevention Data Sheet 3-26.

***TABLE C***
***SENSITIVITY RATING FOR FM APPROVAL OF SERIES EC-11 OR EC-14 SPRINKLERS***
***(Note: Refer to FM Loss Prevention Data Sheet 2-0 for permitted K-factor/area combinations)***

**UL and C-UL**
**Listing Requirements**

1. Series EC-11 and EC-14 Sprinklers may be used for the coverage areas shown in Table D, based on maintaining the minimum specified flow rate as a function of coverage area and hazard group for all sprinklers in the design area.
2. Series EC-11 and EC-14 Sprinklers are permitted to be used with unobstructed or non-combustible obstructed ceiling construction as defined and permitted by NFPA 13; for example:
   - Unobstructed, combustible or noncombustible, ceiling construction with a deflector to ceiling/roof deck distance of 1 to 12 inches (25 to 300 mm).
   - Obstructed, non-combustible, ceiling construction with a deflector location below structural members of 1 to 6 inches (25 to 150 mm) and a maximum deflector to ceiling/roof deck distance of 22 inches (550 mm).
3. Series EC-11 and EC-14 Sprinklers, specifically tested and listed for non-combustible obstructed construction, are permitted to be used within trusses or bar joists having non-combustible web members greater than 1 inch (25.4 mm) when applying the 4 times obstruction criteria rule defined under “Obstructions to Sprinkler Discharge Pattern Development”.
4. To prevent cold soldering, the minimum allowable spacing between Series EC-11 and EC-14 Sprinklers, is 8 feet (2,4 m) for upright sprinklers and 9 feet (2,7 m) for pendent sprinklers.

| Description | Area | Light Hazard 0.10 gpm/ft² | | Group I Ordinary Hazard 0.15 gpm/ft² | | Group II Ordinary Hazard 0.20 gpm/ft² | |
|---|---|---|---|---|---|---|---|
| | | gpm | psi | gpm | psi | gpm | psi |
| **TY5137 (K=11.2) Upright** | **14 x 14** | 30 | 7.2 | 30 | 7.2 | 39 | 12.1 |
| | **16 x 16** | 30 | 7.2 | 39 | 12.1 | 51 | 20.7 |
| | **18 x 18** | 33 | 8.7 | 49 | 19.1 | 65 | 33.7 |
| | **20 x 20** | 40 | 12.8 | 60 | 28.7 | 80 | 51.0 |
| **TY5237 (K=11.2) Pendent** | **14 x 14** | 30 | 7.2 | 30 | 7.2 | 39 | 12.1 |
| | **16 x 16** | 30 | 7.2 | 39 | 12.1 | 51 | 20.7 |
| | **18 x 18** | 33 | 8.7 | 49 | 19.1 | 65 | 33.7 |
| | **20 x 20** | 40 | 12.8 | 60 | 28.7 | 80 | 51.0 |
| **TY6137 (K=14.0) Upright** | **14 x 14** | N/A | N/A | 39 | 7.8 | 51 | 13.3 |
| | **16 x 16** | N/A | N/A | 39 | 7.8 | 51 | 13.3 |
| | **18 x 18** | N/A | N/A | 49 | 12.3 | 65 | 21.6 |
| | **20 x 20** | N/A | N/A | 60 | 18.4 | 80 | 32.7 |
| **TY6237 (K=14.0) Pendent** | **14 x 14** | 37 | 7.0 | 39 | 7.8 | 51 | 13.3 |
| | **16 x 16** | 37 | 7.0 | 39 | 7.8 | 51 | 13.3 |
| | **18 x 18** | 37 | 7.0 | 49 | 12.3 | 65 | 21.6 |
| | **20 x 20** | 40 | 8.2 | 60 | 18.4 | 80 | 32.7 |

1 ft. = 0.3048 m
1 ft.² =0.093 m²
1 gpm = 3.785 lpm
1 psi = 0.06895 bar
1 gpm/ft² = 40.74 mm/min

***TABLE D***
***FLOW CRITERIA FOR UL AND C-UL LISTING OF SERIES EC-11 AND EC-14 SPRINKLERS***

5. Series EC-11 and EC-14 Sprinklers are to be installed in accordance with all other requirements of NFPA 13 for extended coverage upright and pendent sprinklers; For example, obstructions to sprinkler discharge, obstructions to sprinkler pattern development, obstructions to prevent sprinkler discharge from reaching hazard and clearance to storage.

**UL and C-UL**
**Specific Application Listing Requirements for Installation under Concrete Tees**
Series EC-11 and EC-14 Extended Coverage Upright and Pendent Sprinklers (TY5137, TY5237, TY6137 and TY6237) have a UL and C-UL Specific Application Listing for use under concrete tees when installed as follows:

1. Stems of the concrete tee construction must spaced at less than 7.5 feet (2,3 m) on center but more than 3 feet (0,9 m) on center. The depth of the concrete tees must not exceed 30 inches (762 mm). The maximum permitted concrete tee length is 32 feet (9,8 m). However, where the concrete tee length exceeds 32 feet (9,8 m), non-combustible baffles, equal in height to the depth of the tees, can be installed so that the space between the tees does not exceed 32 feet (9,8 m) in length.
2. The sprinkler deflectors are to be located in a horizontal plane at or above 1 inch (25,4 mm) below the bottom of the concrete tee stems.
3. When the sprinkler deflectors are located higher than a horizontal plane 1 inch (25,4 mm) beneath the bottom of the concrete tee stems, the obstruction to sprinkler discharge criteria requirements of NFPA 13 for extended coverage upright and pendent sprinklers applies.

**FM Approval Requirements**
Series EC-11 and EC-14 Extended Coverage Sprinklers are to be installed in accordance with the applicable Factory Mutual Loss Prevention Data Sheet for limited use in buildings of specific roof construction and for the protection of certain specific ordinary hazard (non-storage and/or non-flammable or combustible liquid) occupancies. Information provided in the FM Loss Prevention Data Sheets relates to, but not limited to, hydraulic design, ceiling slope, and obstructions, minimum and maximum allowable spacing, and deflector-to-ceiling distance.

These criteria may differ from UL and/or NFPA criteria. Therefore, the designer should review and become familiar with Factory Mutual requirements before proceeding with design.

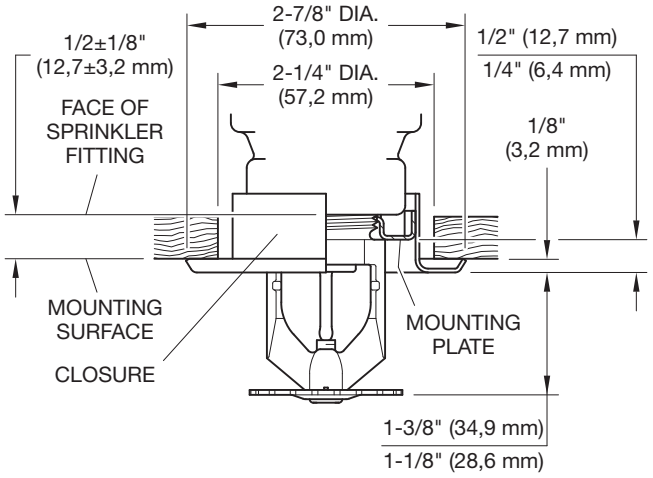



***FIGURE 2***
***SERIES EC-11 AND EC-14 RECESSED PENDENT SPRINKLER ASSEMBLY WITH TWO-PIECE 1/2 INCH TOTAL ADJUSTMENT STYLE 30 RECESSED ESCUTCHEON***

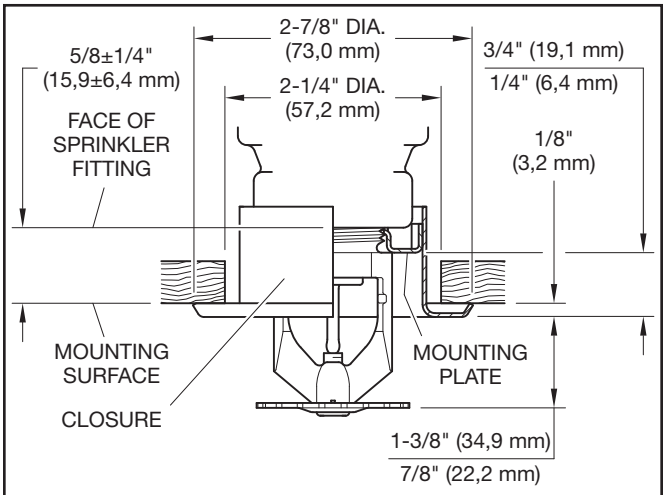



***FIGURE 3***
***SERIES EC-11 AND EC-14 RECESSED PENDENT SPRINKLER ASSEMBLY WITH TWO-PIECE 3/4 INCH TOTAL ADJUSTMENT STYLE 40 RECESSED ESCUTCHEON***

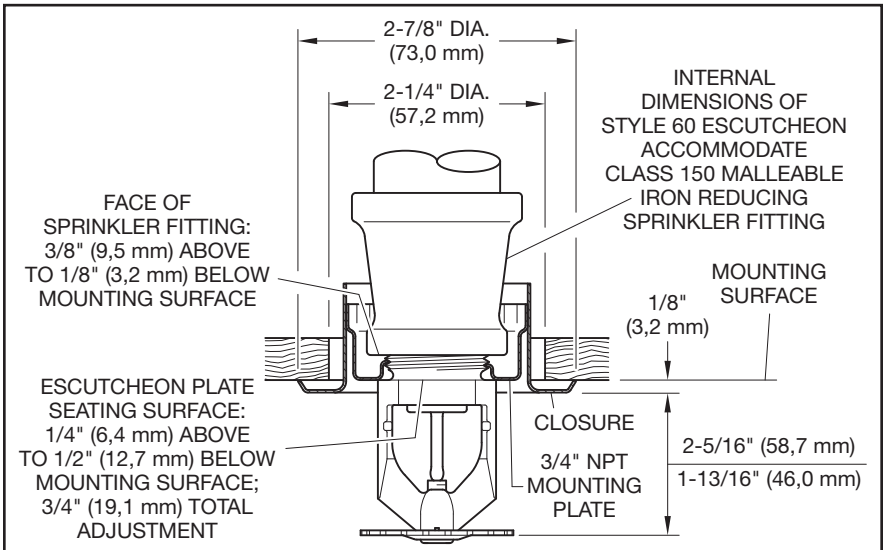



***FIGURE 4***
***SERIES EC-11 AND EC-14 PENDENT SPRINKLER ASSEMBLY WITH 3/4 INCH TOTAL ADJUSTMENT STYLE 60 TWO-PIECE FLUSH ESCUTCHEON***

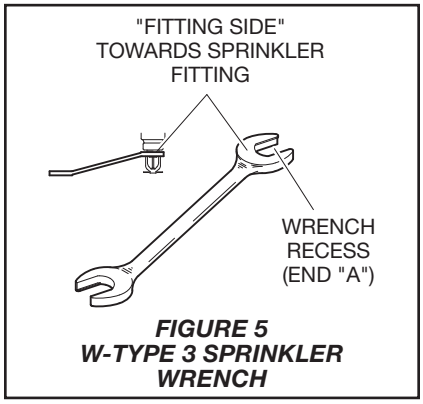



***FIGURE 5***
***W-TYPE 3 SPRINKLER WRENCH***

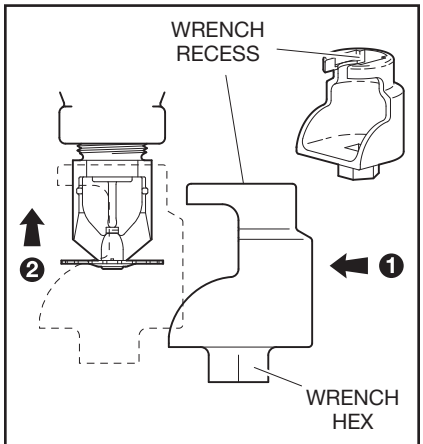



***FIGURE 6***
***W-TYPE 22 RECESSED SPRINKLER WRENCH***

# *Installation*

Series EC-11 and EC-14 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 inch (1,6 mm) for the 135°F (57°C) to 3/32 inch (2,4 mm) for the 286°F (141°C) temperature ratings.

A leak-tight 3/4 inch NPT sprinkler joint should be obtained by applying a minimum-to-maximum torque of 10 to 20 ft.-lbs. (13,4 to 26,8 Nm). Higher levels of torque may distort the sprinkler inlet with consequent leakage or impairment of the sprinkler.

Do not attempt to compensate for insufficient adjustment in an Escutcheon Plate by under or over-tightening the Sprinkler. Re-adjust the position of the sprinkler fitting to suit.

**Step 1.** Install the sprinkler with the deflector parallel to the mounting surface. Install pendent sprinklers in the pendent position; install upright sprinklers in the upright position.

**Step 2.** After installing the Style 30, 40, or 60 mounting plate (or other applicable escutcheon) over the sprinkler pipe threads and with pipe-thread sealant applied to the pipe threads, hand-tighten the sprinkler into the sprinkler fitting.

**Step 3.** For upright or pendent sprinklers wrench-tighten using only the

P/N 51 – XXX – X – XXX

| | | SIN |
|---|---|---|
| 893 | 11.2K PENDENT | TY5237 |
| 894 | 11.2K UPRIGHT | TY5137 |
| 895 | 14.0K PENDENT | TY6237 |
| 896 | 14.0K UPRIGHT | TY6137 |

* Escutcheon ordered separately

| | SPRINKLER FINISH* |
|---|---|
| 1 | NATURAL BRASS |
| 4 | SIGNAL WHITE (RAL9003) POLYESTER |
| 5 | JET BLACK (RAL9005) POLYESTER |
| 7 | LEAD COATED |
| 9 | CHROME-PLATED |

| | TEMPERATURE RATING |
|---|---|
| 135 | 135°F (57°C) |
| 155 | 155°F (68°C) |
| 175 | 175°F (79°C) |
| 200 | 200°F (93°C) |
| 286 | 286°F (141°C) |
| 000 | OPEN** |

** *OPEN* indicates sprinkler assembly without glass bulb, button, and sealing assembly.

***TABLE E***
***SERIES EC-11 AND EC-14 UPRIGHT AND PENDENT SPRINKLERS***
***PART NUMBER SELECTION***

W-Type 3 (End A) Sprinkler Wrench. For the pendent sprinkler installed with Style 30, 40, or 60 Escutcheon, wrench-tighten the sprinkler using only the W-Type 22 Sprinkler Wrench.

Apply the wrench recess of the applicable sprinkler wrench (Figure 5 and 6) to the sprinkler wrench flats (Figure 1).

# Care and Maintenance

TYCO Series EC-11 and EC-14 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.

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. (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 recognized by the Approval agency (e.g., NFPA 25), in addition to the standards of any authorities having jurisdiction. Contact the installing contractor or product manufacturer with 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.

# 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 EC-11 or EC-14 (specify) Sprinkler, SIN (specify), (specify) K-factor, Pendent or Upright (specify) Extended Coverage, (specify) temperature rating, (specify) finish, P/N (from to Table E)

**Recessed Escutcheon, Two-Piece**
Specify: Style (30 or 40) Two-Piece Recessed Escutcheon with (specify) finish, P/N (specify*)

**Flush Escutcheon, Two-Piece**
Specify: Style 60 Two-Piece Flush Escutcheon with (specify) finish, P/N (specify*)

*Refer to Technical Data Sheet TFP778

**Sprinkler Wrenches**
Specify: W-Type 3 Sprinkler Wrench, P/N 56-895-1-001

Specify: W-Type 22 Recessed Sprinkler Wrench, P/N 56-665-7-001

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