



Installation

The TYCO Model RFIII, 8.0 K-factor, Extended Coverage Light Hazard, Concealed Horizontal Sidewall Quick Response Sprinkler must be installed in accordance with this section.

A 3/4 in. (19,1 mm) NPT sprinkler joint should be obtained with a minimum to maximum torque of 10 to 20 lb-ft (13,4 to 26,8 N·m). Higher levels of torque may distort the sprinkler with consequent leakage or impairment of the sprinkler. Do not attempt to compensate for insufficient adjustment in the Sprinkler Assembly by under- or over-tightening the sprinkler. Readjust the position of the sprinkler fitting to suit.

Step 1. The sprinkler must only be installed with its centerline perpendicular to the back wall and parallel to the ceiling. Use a W-Type 37 Wrench for installation. The wrench contains an outer flat surface reference that correlates with the sprinkler deflector orientation. The word "UP" on the installation wrench is to face towards the ceiling to ensure proper alignment (see Figure 4).

NOTICE

Do not remove the Protective Cap (see Figure 1) until the Cover Plate Assembly is installed and/or the fire protection sprinkler system is ready to be placed in service.

Step 2. With pipe thread sealant applied to the sprinkler threads, and ensuring that no pipe thread sealant is in contact with the Deflector Guide Pins, align the sprinkler alignment slot with the W-Type 37 Sprinkler Wrench alignment slot (see Figure 4) and engage by inserting the sprinkler into the wrench cavity, fully seating the sprinkler wrenching flange. Hand tighten the sprinkler into the sprinkler fitting.

Step 3. Once hand tight, attach 1/2 in. (12,7 mm) drive to the sprinkler wrench (see Figure 4) and wrench-tighten to ensure proper seal and alignment, taking care to ensure the Deflector Guide Pins do not come in contact with any foreign body or surface.

Step 4. After the wall has been completed with the nominal 2-5/8 in. (66,7 mm) diameter clearance hole and in preparation for installing the Cover Plate Assembly, remove and discard the Protective Cap. If the sprinkler has been damaged in any way including accidental over spray from finishing the wall, replace the entire sprinkler.

NOTICE

The sprinkler must be installed in the positive plenum only.

Step 5. Push the Cover Plate Assembly onto the Sprinkler, and as necessary, make the final adjustment of the Cover Plate with respect to the wall by pushing the Cover Plate Assembly until the retainer flange is flush against the wall. If it becomes necessary to remove the Cover Plate, it can be removed merely by gently pulling the Cover Plate Assembly away from the sprinkler body.

Note: A Cover Plate Assembly not adequately engaging the sprinkler body, that is not securely attached, indicates the sprinkler is positioned at a distance from the mounting surface greater than is described in Figure 3. A Cover Plate Assembly fully engaged on the sprinkler body while the retainer flange is not in contact with the wall indicates the sprinkler is positioned at a distance from the mounting surface lesser than described in Figure 3. If either condition is encountered when attempting to install the Cover Plate Assembly, the sprinkler fitting must be repositioned.

