



Product Alert – Counterfeit Tyco Fire Products - Automatic Fire Sprinklers (TY325)

August 21, 2023

Type of Notification: Counterfeit

FM Approvals has been made aware of counterfeit automatic fire sprinklers found in Saudi Arabia bearing an FM Approvals mark. FM Approvals has neither tested nor certified these products.

Company Identity: Unknown

Product Identity: The sprinklers bear the sprinkler identification number (SIN) “TY325” which is designated to Tyco Fire Products and the marking “TYCO,” however, these were not made by Tyco Fire Products. The identity of the manufacturer is unknown.

Description: ½ inch NPT bulb-type standard spray pendent style sprinkler

FM Approval Status: Not FM Approved.

Hazard Involved: These automatic sprinklers cannot be relied upon to react to or control a fire. Failure by any of the following mechanisms is possible: failure of the thermal element, orifice leakage, premature or delayed operation, separation of the deflector, inadequate or excessive discharge rate, corrosive attack, failure to operate, failure to produce an adequate discharge pattern, etc.

If you suspect you are in possession of counterfeit TY325 sprinklers bearing the FM Approvals certification marking or if you have any information relative to these referenced products, please bring that to the attention of:

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Figure 1 is a photograph of an authentic TY325 sprinkler next to one of the counterfeit TY325 sprinklers. The markings on the wrench boss are similar and include the name “TYCO” (on the opposite side to the one shown), the year of manufacture, and a mold cavity identification symbol. The counterfeit uses a visibly different compression screw (indicated by the arrows in the photo) which is silver in color and has several more exposed threads. The orifice caps are also visibly different. The authentic TY325 uses a cold formed copper cap while the counterfeit has a machined cap that is a yellow/brass color.

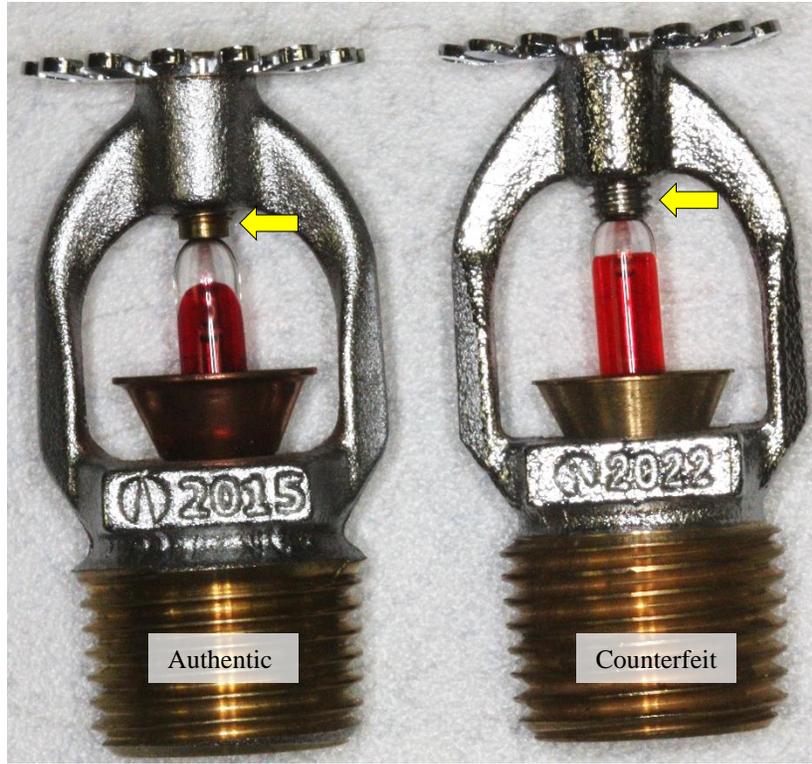


Figure 1. Photograph of an authentic Tyco TY325 sprinkler (left) and a counterfeit TY325 sprinkler (right). The arrows highlight the different appearing compression screws.

Figure 2 below is a photograph of the inlets of the authentic (left) and counterfeit (right) TY325 sprinklers. The counterfeit orifice cap has annular tool marks that are visible both in this photograph and in Figure 1 and may have been turned from bar stock. The authentic caps are stamped/extruded and have no annular tool marks.

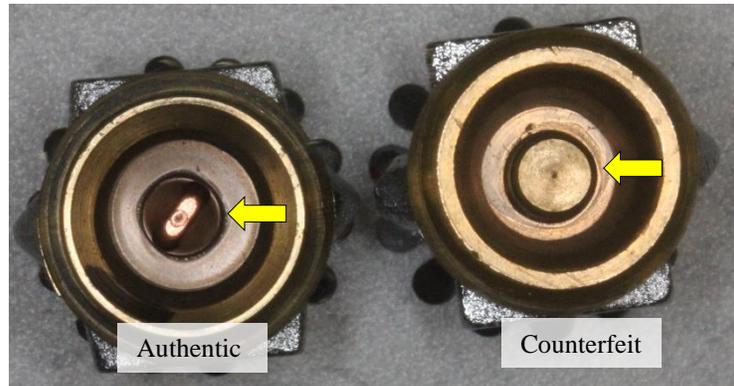


Figure 2. Authentic Tyco sprinkler (left) and counterfeit (right). The bottoms of the orifice caps are indicated by the yellow arrows.

Figure 3 below shows the deflectors of the authentic (left) and counterfeit (right) sprinklers. The content and positioning of the stampings on the deflectors are largely the same. The deflector attachment, indicated by the yellow arrows, is wider and thicker on the authentic sprinkler.

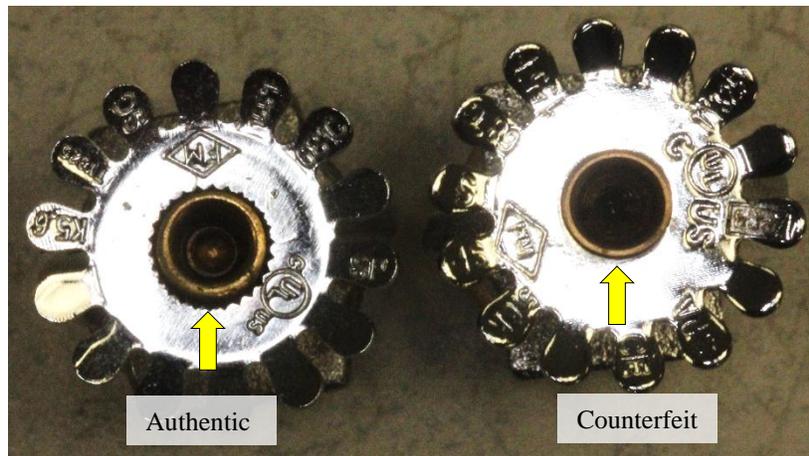


Figure 3. Authentic TY325 deflector (left) and counterfeit deflector (right). The markings are similar, including the appearance and position of the FM Approvals mark. The yellow arrows indicate the different appearance of the deflector attachment.