



Product Alert – Counterfeit Tyco Fire Products – Spray Nozzles

August 21, 2023

Type of Notification: Counterfeit

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

Company Identity: Unknown

Product Identity: The nozzles bear the model designation “D3” which is designated to Tyco Fire Products and the letters “TFP,” however, these were not made by Tyco Fire Products. The identity of the manufacturer is unknown.

Description: ½ inch NPT open spray nozzle

FM Approval Status: Not FM Approved.

Hazard Involved: These spray nozzles cannot be relied on to produce the same published spray angles and ranges as authentic D3 nozzles. Further, the failure of the deflector is possible and the value of the discharge coefficient (k-factor) and its consistency across its rated range of discharge pressure is unknown.

If you suspect you are in possession of counterfeit D3 nozzles bearing the FM Approvals certification marking or if you have any information relative to these referenced products, please bring that to the attention of:

Antonio L. Pires
FM Approvals, Quality Department
Norwood, MA, USA
+1 (1)781 255 4825
Email: Antonio.pires@fmapprovals.com

Figure 1 is a photograph of an authentic D3 “Protectospray” nozzle (left) and one of the counterfeit D3 nozzles (right). The model marking appears on both, however the authentic nozzle also has the orifice size number stamped into the wrench boss, while the counterfeit orifice size is not identified. The year of manufacture is also stamped into the frame of the authentic nozzle and no year marking was found on the counterfeit. The other frame markings are the same. The yellow arrows indicate the deflectors; the angle of the tines is noticeably different on the counterfeit, despite being marked with the same nominal spray angle (125°).

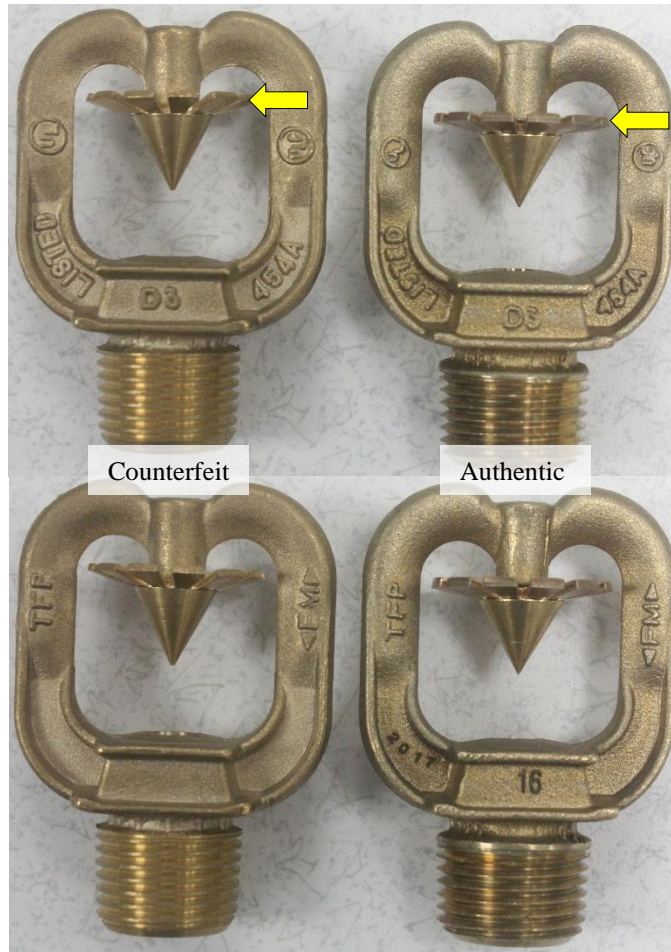


Figure 1. Photograph of a counterfeit D3 nozzle (left) and an authentic Tyco D3 nozzle (right). The arrows highlight the deflector tines which are bent to different angles.

Figure 2 on the next page is a photograph of the deflectors of the counterfeit nozzle (left) and the authentic D3 nozzle (right). The color of the counterfeit deflector material is more yellow/brass-like while the authentic deflector is a copper tone. Both are stamped with the nominal spray angle including the degree symbol, “125°.”



Figure 2. Authentic Tyco nozzle (right) and counterfeit (left). Both deflectors are stamped with the nominal spray angle. The authentic deflector appears to be a different material and is a different color than the counterfeit.