

Sprinkler Guards, Shields, and Intermediate Level Accessories

General Description

TYCO Sprinkler Guards and Shields are designed for use as accessories for sprinklers located in areas that make them susceptible to mechanical or physical damage.

Installation of Guards and Shields on Sprinklers form Intermediate Level Sprinkler assemblies intended for use in fire sprinkler systems designed in accordance with the standard installation rules recognized by the applicable Listing agency, for example the UL Listing is based on NFPA requirements.

Model G1 and G4 Sprinkler Guards, G1/S1 and G4/S3 Sprinkler Guard with Shield assemblies, and S2, S4 and S5 Sprinkler Shields are compatible with specific types of Series TY-B, TY-FRB, TY-L, and TY-FRL sprinklers. See Table A.

Model G2 Sprinkler Guard, WSG-2 Sprinkler Guard with Shield assembly, and WS-2 Sprinkler Shield are compatible with Series ELO-231, ELO-231B, and ELO-231FRB sprinklers. See Table A.

The Model G5 Sprinkler Guard is compatible with Series DS-1 dry-type sprinklers. See Table A.

In addition to providing protection from mechanical or physical damage, Model G1/S1, G4/S3, and WSG-2 Guard with Shield assemblies protect upright



sprinklers from water spray of higher elevation sprinklers, for example, rack storage sprinkler installations.

Pendent sprinklers located in areas not susceptible to the threat of mechanical or physical damage can be equipped with Model S2, S4, S5 and WS-2 Shields for protection from water spray of higher elevation sprinklers.

NOTICE

Sprinkler Guards, Shields, and Guard with Shield assemblies described herein must be installed and maintained in compliance with this document and with the applicable standards of the NATIONAL FIRE PROTECTION ASSOCIATION, in addition to the standards of any authorities having jurisdiction. Failure to do so may impair the performance of these devices.

The Model G5 Sprinkler Guard cannot be installed in recessed applications. The Model G5 Guard can be installed only on Series DS-1 sprinklers with standard and deep escutcheons, as well as sprinklers without escutcheons.

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.

Technical Data

Model G1 and G4 Sprinkler Guards are redesignations for Gem F938 and F937 respectively.

Model G1/S1 and G4/S3 Sprinkler Guard with Shield assemblies are redesignations for Gem F938/Q-76 and F937/Q-75 respectively.

Model G2 Sprinkler Guard, WSG-2 Sprinkler Guard with Shield, and WS-2 Sprinkler Shield are redesignations for Central G2, WSG-2, and WS-2 respectively.

Approvals

UL and C-UL Listed
FM Approved
See Table A

Finishes*

Plain Brass, Red Painted, Chrome Plated, Zinc Coated, and Zinc Chromate

* See Ordering Procedure for applicability

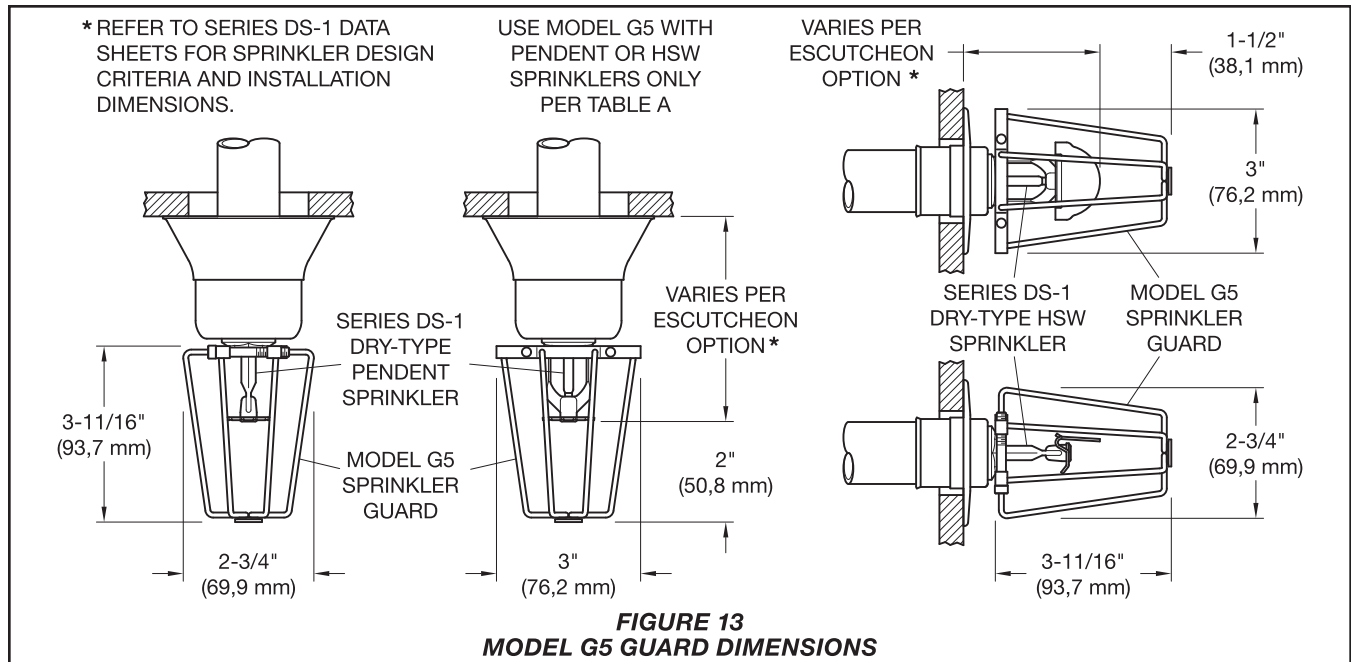
Physical Characteristics

Sprinkler Guards, Shields, and Guard with Shield assemblies are Carbon Steel; O-Rings are EPDM

IMPORTANT

Refer to Technical Data Sheet TFP2300 for warnings pertaining to regulatory and health information.

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.



Installation

Series DS-1 Sprinklers

TYCO Model G5 Sprinkler Guards must be installed in accordance with this section. See Figures 13 and 14.

G5 Guard Installation

NOTICE

This procedure requires a 9/64 in. (3,5 mm) Allen Wrench.

Step 1. Install the sprinkler in accordance with the applicable technical data sheet. See Table A.

Step 2. Loosen the Guard Screws and carefully separate the halves of the Guard. See Figure 14A.

Note: *G5 Sprinkler Guard is designed to fit over the sprinkler deflector without removing the Screws. However, if necessary to provide adequate clearance over the deflector, loosen or remove the Screws and separate the Base Plates.*

Step 3. Remove the sprinkler bulb protector and carefully pass the Guard over the deflector without damaging the sprinkler. Alter alignment as necessary. See Figure 14B.

Step 4. Align the centerline of the Guard with the centerline of the sprinkler while guiding the Base Plates toward the sprinkler.

Step 5. Position the Grips on the sprinkler wrench flats. Proper position is achieved when the Base Plates are seated against the sprinkler frame base. See Figure 14C.

Step 6. While firmly holding the Guard in position against the sprinkler frame base, alternately tighten the Screws with a 9/64 in. (3,5 mm) Allen Wrench until evenly snug and the Grips uniformly engage the sprinkler wrench flats. See Figure 14C.

Step 7. Evenly apply a final torque of 5 to 6 ft-lb to both Screws. See Figure 14C.

Step 8. Inspect the Guard installation to verify:

- Guard centerline is aligned with the sprinkler centerline
- Base Plates are fully seated against the sprinkler frame base
- Grips are evenly engaged with the sprinkler wrench flats
- Screws are equally engaged across the Base Plates

NOTICE

Base Plates must seat against the sprinkler frame base to be fully engaged and in order to complete the installation.

Care and Maintenance

TYCO Model G1, G2, G4, and G5 Sprinkler Guards, G1/S1, G4/S3, and WSG-2 Sprinkler Guards with Shields, and S2, S4, S5, and WS-2 Sprinkler Shields do not require any regularly scheduled maintenance; however, proper installation of the Sprinkler Guards and Shields should be verified during the annual visual inspection of the sprinklers.

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 system from the proper authorities and notify all personnel who may be affected by this action.

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, for example, NFPA 25, in addition to the standards of any other 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.

The owner must assure that the sprinklers are not used for hanging of any objects and that the sprinklers are only cleaned by means of gently dusting with a feather-duster. Otherwise, non-operation in the event of a fire or inadvertent operation may result.

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).

Model G1 Sprinkler Guard

Specify: Model G1 Sprinkler Guard, (specify) finish, P/N (specify):

Red Painted56-938-1-001
Zinc Chromate56-938-9-001

Model G2 Sprinkler Guard

Specify: Model G2 Sprinkler Guard, (specify) finish, P/N (specify):

Red Painted56-000-1-087
Zinc Coated56-000-1-086

Model G4 Sprinkler Guard

Specify: Model G4 Sprinkler Guard, (specify) finish, P/N (specify):

Red Painted56-937-1-001
Zinc Chromate56-937-9-001

Model G5 Sprinkler Guard

Model G5 Sprinkler Guard is available only in Zinc Chromate finish.

Specify: Model G5 Sprinkler Guard, P/N 56-938-9-000

Model G1/S1 Sprinkler Guard with Shield

Specify: Model G1/S1 Sprinkler Guard with Shield, (specify) finish, P/N (specify):

Red Painted56-938-1-066
Zinc Chromate56-938-9-066

Model G4/S3 Sprinkler Guard with Shield

Specify: Model G4/S3 Sprinkler Guard with Shield, (specify) finish, P/N (specify):

Red Painted56-937-1-066
Zinc Chromate56-937-9-066

Model WSG-2 Sprinkler Guard with Shield

Specify: Model WSG-2 Sprinkler Guard with Shield, (specify) finish, P/N (specify):

Red Painted56-000-1-098
Zinc Coated56-000-1-097

Model S2 Sprinkler Shield

Model S2 Sprinkler Shield is available only in Plated Steel finish.

Includes S2 Shield and one O-Ring.

Specify: Model S2 Sprinkler Shield, (specify) Thread Size, P/N (specify):

1/2 in. NPT56-070-9-332
3/4 in. NPT56-070-9-342

Model S4 Sprinkler Shield

Includes S4 Shield and two O-Rings.

Specify: Model S4 Sprinkler Shield, (specify) finish, (specify) Thread Size, P/N (specify):

Plain Brass

1/2 in. NPT56-952-1-001
3/4 in. NPT56-152-1-001

Chrome Plated

1/2 in. NPT56-952-9-001
3/4 in. NPT56-152-9-001

Model S5 Sprinkler Shield

Model S5 Sprinkler Shield is available only in Brass finish.

Includes S5 Shield and two O-Rings.

Specify: Model S5 Sprinkler Shield, (specify) Thread Size, P/N (specify):

1/2 in. NPT56-015-6-802
3/4 in. NPT56-015-6-803

Model WS-2 Sprinkler Shield

Specify: Model WS-2 Sprinkler Shield, (specify) finish, (specify) Thread Size, P/N (specify)

Red Painted

1/2 in. NPT56-000-1-081
3/4 in. NPT56-000-1-083

Zinc Coated

1/2 in. NPT56-000-1-080
3/4 in. NPT56-000-1-082

Sprinkler Guard Installation Tool*

Specify: Sprinkler Guard Installation Tool, P/N 56-000-8-597

* For use with Model G1 and G4 guards and Model G1/S1 and G4/S3 guards with shields only. A Sprinkler Guard Installation Tool is included with orders in original carton quantities.