

Sprinkler Guards, Shields, and Intermediate Level Accessories

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.

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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. The Model G1 Sprinkler Guard in a stainless steel finish may also be used with the TYCO Type ULF Stainless Steel AM6 nozzle.

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 (NFPA), 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.

Sprinkler							Compatibility and Approvals		
Model	Data Sheet	SIN	Orientation	K-Factor	Thread Size NPT	Mounting Location	Guard	Guard with Shield	Shield
TY-B	TFP151	TY1151	Upright	2.8	1/2"	Thread Relief	G1 (1, 3)	N/A	N/A
	TFP151	TY1251	Pendent	2.8	1/2"	Thread Relief	G1 (1, 3)	N/A	N/A
	TFP152	TY315	Upright	5.6	1/2"	Thread Relief	G1 (1, 2, 3)	G1/S1 (1,2, 3)	N/A
	TFP152	TY325	Pendent	5.6	1/2"	Thread Relief	G1 (1, 2, 3)	N/A	S2 (1, 2, 3)
	TFP151	TY3151	Upright	5.6	1/2"	Thread Relief	G1 (1, 2, 3), G4 (2)	G1/S1 (1, 2, 3)	N/A
	TFP151	TY3251	Pendent	5.6	1/2"	Thread Relief	G1 (1, 2, 3), G4 (2)	N/A	S2 (1, 2, 3)
	TFP351	TY3153	Upright	5.6	1/2"	Factory Assm	N/A	N/A	(1, 2, 3)
	TFP151	TY4851	Upright	8.0	1/2"	Thread Relief	G1 (1, 2, 3)	N/A	N/A
	TFP151	TY4951	Pendent	8.0	1/2"	Thread Relief	G1 (1, 2, 3)	N/A	N/A
	TFP151	TY4151	Upright	8.0	3/4"	Thread Relief	G1 (1, 2, 3)	G1/S1 (1, 2, 3)	N/A
	TFP151	TY4251	Pendent	8.0	3/4"	Thread Relief	G1 (1, 2, 3)	N/A	S2 (1, 2, 3)
	TFP351	TY4153	Upright	8.0	3/4"	Factory Assm	N/A	N/A	(1, 2, 3)
	TFP161	TY3351	HSW	5.6	1/2"	Thread Relief	G4 (1, 2, 3)	N/A	N/A
	TFP161	TY3451	VSW	5.6	1/2"	Thread Relief	G4 (1, 3)	N/A	N/A
TY-FRB	TFP171	TY1131	Upright	2.8	1/2"	Thread Relief	G1 (1, 3)	N/A	N/A
	TFP171	TY1231	Pendent	2.8	1/2"	Thread Relief	G1 (1, 3)	N/A	N/A
	TFP172	TY313	Upright	5.6	1/2"	Thread Relief	G1 (1, 2, 3)	G1/S1 (1,2, 3)	N/A
	TFP172	TY323	Pendent	5.6	1/2"	Thread Relief	G1 (1, 2, 3)	N/A	S2 (1, 2, 3)
	TFP171	TY3131	Upright	5.6	1/2"	Thread Relief	G1 (1, 2, 3), G4 (2)	G1/S1 (1, 3)	N/A
	TFP171	TY3231	Pendent	5.6	1/2"	Thread Relief	G1 (1, 2, 3), G4 (2)	N/A	S2 (1, 2, 3)
	TFP356	TY3133	Upright	5.6	1/2"	Factory Assm	N/A	N/A	(1, 2, 3)
	TFP171	TY4131	Upright	8.0	3/4"	Thread Relief	G1 (1, 2, 3)	G1/S1 (1, 3)	N/A
	TFP171	TY4231	Pendent	8.0	3/4"	Thread Relief	G1 (1, 2, 3)	N/A	S2 (1, 2, 3)
	TFP356	TY4133	Upright	8.0	3/4"	Factory Assm	N/A	N/A	(1, 2, 3)
	TFP176	TY3331	HSW	5.6	1/2"	Thread Relief	G4 (1, 3)	N/A	N/A
	TFP176	TY3431	VSW	5.6	1/2"	Thread Relief	G4 (1, 3)	N/A	N/A
ELO-231	TFP340	TY5111	Upright	11.2	3/4"	Thread Relief	G2 (1, 2, 3)	WSG-2 (1, 3)	N/A
	TFP340	TY5211	Pendent	11.2	3/4"	Thread Relief	G2 (1, 2, 3)	N/A	WS-2 (1, 3)
	TFP340	TY5811	Upright	11.2	1/2"	Thread Relief	G2 (1, 2, 3)	WSG-2 (1, 3)	N/A

Notes:
1. UL Listed
2. FM Approved
3. C-UL Listed
N/A Not Applicable

TABLE A (1 OF 2)
SPRINKLER GUARD AND SHIELD
LABORATORY LISTINGS AND APPROVALS

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 re-designations 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, Zinc Chromate and Stainless Steel

* See Ordering Procedure for applicability

Physical Characteristics

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

Sprinkler							Compatibility and Approvals		
Model	Data Sheet	SIN	Orientation	K-Factor	Thread Size NPT	Mounting Location	Guard	Guard with Shield	Shield
ELO-231B	TFP342	TY5151	Upright	11.2	3/4"	Thread Relief	G2 (1, 2, 3)	WSG-2 (1, 3)	N/A
	TFP342	TY5251	Pendent	11.2	3/4"	Thread Relief	G2 (1, 2, 3)	N/A	WS-2 (1, 3)
	TFP342	TY5851	Upright	11.2	1/2"	Thread Relief	G2 (1, 2, 3)	WSG-2 (1, 3)	N/A
ELO- 231FRB	TFP344	TY5131	Upright	11.2	3/4"	Thread Relief	G2 (1, 2, 3)	WSG-2 (1, 3)	N/A
	TFP344	TY5231	Pendent	11.2	3/4"	Thread Relief	G2 (1, 2, 3)	N/A	WS-2 (1, 2, 3)
	TFP344	TY5831	Upright	11.2	1/2"	Thread Relief	G2 (1, 3)	WSG-2 (1, 3)	N/A
TY-L	TFP110	TY3111	Upright	5.6	1/2"	Wrench Area	G1 (2), G4 (1, 3)	G4/S3 (1, 3)	N/A
	TFP350	TY3113	Upright	5.6	1/2"	Factory Assm	N/A	N/A	(1, 2, 3)
	TFP110	TY3211	Pendent	5.6	1/2"	Wrench Area	G1 (2), G4 (1, 3)	N/A	S5 (1, 2, 3)
	TFP110	TY4811	Upright	8.0	1/2"	Wrench Area	G4 (1, 2, 3)	G4/S3 (1, 3)	N/A
	TFP110	TY4911	Pendent	8.0	1/2"	Wrench Area	G4 (1, 3)	N/A	N/A
	TFP110	TY4111	Upright	8.0	3/4"	Wrench Area	G4 (1, 2)	N/A	N/A
	TFP350	TY4113	Upright	8.0	3/4"	Factory Assm	N/A	N/A	(1, 2, 3)
	TFP110	TY4211	Pendent	8.0	3/4"	Wrench Area	G4 (1, 3)	N/A	(1, 2, 3)
TY-FRL	TFP130	TY1121	Upright	2.8	1/2"	Wrench Area	G4 (1, 3)	N/A	N/A
	TFP130	TY1221	Pendent	2.8	1/2"	Wrench Area	G4 (1, 3)	N/A	N/A
	TFP130	TY3121	Upright	5.6	1/2"	Wrench Area	G4 (1, 2, 3)	G4/S3 (1, 3)	N/A
	TFP355	TY3123	Upright	5.6	1/2"	Factory Assm	N/A	N/A	(1, 2, 3)
	TFP130	TY3221	Pendent	5.6	1/2"	Wrench Area	G4 (1, 3)	N/A	S4 (1, 2, 3)
	TFP140	TY3321	HSW	5.6	1/2"	Wrench Area	G4 (1, 3)	N/A	N/A
	TFP130	TY4121	Upright	8.0	3/4"	Wrench Area	G4 (1, 2, 3)	G4/S3 (1, 3)	N/A
	TFP355	TY4123	Upright	8.0	3/4"	Factory Assm	N/A	N/A	(1, 2, 3)
DS-1	TFP500	TY3255	Pendent	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
	TFP510	TY3235	Pendent	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
	TFP500	TY3355	HSW	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
	TFP510	TY3335	HSW	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
DS-1 Stainless Steel	TFP560	TY3230	Pendent	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
	TFP560	TY3250	Pendent	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
	TFP560	TY3337	HSW	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
	TFP560	TY3357	HSW	5.6	N/A	Wrench Area	G5* (1, 3)	N/A	N/A
AM6 Stainless Steel	TFP2206	AM6	Pendent	0.33	1/2"	Thread Relief	Stainless Steel G1 (4)	N/A	N/A

Notes:
1. UL Listed
2. FM Approved
3. C-UL Listed
4. Not Listed or Approved
N/A Not Applicable

* Model G5 Guard can be installed only on sprinklers with standard and deep escutcheons, as well as sprinklers without escutcheons. G5 Guard cannot be installed in recessed applications.

**TABLE A (2 OF 2)
SPRINKLER GUARD AND SHIELD
LABORATORY LISTINGS AND APPROVALS**

Design Criteria

In accordance with the requirements of the NFPA, Sprinkler Guards and Shields shall be Listed. Guards and

Shields are Listed or Approved for use only with specific sprinklers:

Models G1, G4, G1/S1, G4/S3, S2, S4, and S5 must only be used with Series TY-B, TY-FRB, TY-L, and TY-FRL sprinklers.

Model G2, WSG-2, and WS-2 must only be used with Series ELO-231, ELO-231B, and ELO-231FRB sprinklers.

Model G5 must only be used with the Series DS-1 sprinklers.

See Table A for specific compatibility and Listings or Approvals.



