

Technical Data Sheet: Sprinkler Guards

1. DESCRIPTION

The Minimax Fire Protection Sprinkler Guard is a hard-wire cage designed to encase the sprinkler and protect it from mechanical damage. It is recommended for areas where the sprinkler is installed at a low elevation and/or near areas of high human or mechanical activity.

The Model MG-4 and MG-5 Sprinkler Guard is for use with standard, large, and extra-large orifice standard and quick response upright and pendent frame style sprinklers.

The Dry Pendent Sprinkler Guard is for use with standard and large orifice, standard and quick response dry pendent sprinklers.

2. LISTINGS AND APPROVALS

MG-4 and MG-5 Sprinkler Guards

cULus Listed: Category VFJV

FM Approved: Class 2091

cULus Listed and/or FM Approved for use with standard, large orifice, and ELO standard and quick response upright and pendent frame style sprinklers, including the following: MX8100, MX8102, MX8200, MX8202, MX8300, MX8302, MX8350, MX8352, MX8377, and MX8536.

Dry Sprinkler Guard: No Listing or Approvals

3. TECHNICAL DATA

Specifications:

Model MG-4 and MG-5 Sprinkler Guards

Dimensions: 3-1/8" (79 mm) diameter, 3-1/8" (79 mm) high.

Material Standards - MG-4 and MG-5

Guard: Bright Basic Steel UNS-G10100

Guard Finish: Clear Chromate over Zinc Plating

Screws: Two Self-Tapping 6-32 (Combination Head): Steel

Screw Finish: Zinc Plated

Material Standards - Dry Sprinkler Guard:

Guard and Ring: Bright Basic Steel UNS-G10100

Finish: Clear Chromate over Zinc Plating

Ordering Information:

NOTICE

The MG-4 and MG-5 Sprinkler Guards are NOT designed to be used on sidewall sprinklers, or sprinklers installed in recessed escutcheons.

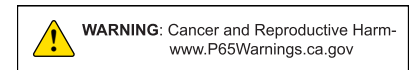


TABLE 1: ORDERING INFORMATION

Sprinklers can be ordered separately or with the MG-4 or MG-5 Guards factory installed.

Refer to the appropriate sprinkler Technical Data Page for sprinkler ordering information.

To order the guard factory installed, first determine the sprinkler part number then add the suffix "G" to the end.

Part Number	Description
61387	Model MG-4 Guard (also fits Large Orifice K8.0 3/4" NPT Sprinklers)
61388	Model MG-5 Guard (used for Extra Large Orifice sprinklers)
61390	MS-1 Water Shield (used with upright sprinklers with MG-4)*
61880	MS-2 Water Shield (used with 1/2" pendent sprinkler with MG-4 Guard)*
61389	MS-2 Water Shield (used with 3/4" pendent sprinkler with MG-4 or MG-5 Guards)*
61881	Dry Sprinkler Guard**
Sprinkler Wrenches	
21475MB	Wrench for frame-style sprinklers with MG-4 Guard
20415MB	Wrench for ELO sprinklers with MG-5 Guard

* See Form FX_012498

**The Dry Sprinkler Guard has no listings or approvals.

4. INSTALLATION

Installing the MG-4 or MG-5 Sprinkler Guards

NOTICE

The MG-4 and MG-5 Sprinkler Guards are NOT designed to be used on sidewall sprinklers, or sprinklers installed in recessed escutcheons.

Refer to the appropriate sprinkler Technical Data Page for warnings and additional installation instructions. Then install units according to the following steps.

The Model MG-4 or MG-5 Sprinkler Guards can be retrofitted onto sprinklers that have already been installed on the system. However, it is recommended to install the guard onto the sprinkler prior to installing the sprinkler on the system and prior to applying any pipe-joint compound or tape to the external threads of the sprinkler. Consider ordering the guard factory installed on the sprinkler used.

1. Loosen the screws in the brackets at the base of the sprinkler guard.
2. Spread and hold the two bracket halves (at the base of the sprinkler guard) apart just enough to place the guard over the deflector and wrench boss of the sprinkler.
3. With the sprinkler inside the sprinkler guard, position the guard so the two halves of the bracket grip the sprinkler just below the wrench boss, but above the threads.

NOTICE

Orient the sprinkler guard so the screw openings in the base of the guard are located at the ends of the sprinkler wrench boss (where the sprinkler frame arms contact the wrench boss). See Figure 1.

4. Thread both screws into the openings provided in the opposite bracket half and tighten to secure the base of the guard to the sprinkler.
5. Apply a small amount of pipe-joint compound or tape to the external threads only, taking care not to allow a build-up of compound in the sprinkler orifice.
6. Install the sprinkler on the piping using the special sprinkler wrench. DO NOT use the guard to start or thread the sprinkler into the fitting.



Figure 1 - Model MG-4 Sprinkler Guard Installed on Sprinklers

Installing the Dry Sprinkler Guard:

Dry sprinklers must be installed on the system prior to installing the guard onto the dry sprinklers.

NOTE: When installing the Dry Sprinkler Guard on recessed Dry Pendent, the Recessed Escutcheon Cup must be removed and the sprinkler centered in a minimum 2-1/8" (54 mm) diameter hole prior to installation of the Dry Sprinkler Guard.

1. Remove the retaining ring from the Dry Sprinkler Guard.
2. Spread and hold the two "C" shaped halves of the bracket (at the base of the guard) apart just enough to place the guard over the deflector and wrench boss of the sprinkler.
3. With the sprinkler inside the guard, position the guard so the "C" shaped bracket halves of the guard grip the sprinkler in the slot provided just below the wrench boss.

NOTICE

Orient the sprinkler guard so two of the four guard wires align with the frame arms of the sprinkler. See Figure 2.

4. Push the retaining ring over the guard toward the base of the sprinkler until the ring snaps firmly into the depression provided on each of the four wire members of the guard.
5. For recessed dry pendent sprinklers, re-install the Minimax Fire Protection recessed escutcheon cup.



Figure 2 - Dry Sprinkler Guard Installed on Sprinkler

5. OPERATION

Refer to the sprinkler technical data page for the sprinkler model used. The Sprinkler Guard is a hard-wire cage designed to encase the sprinkler and protect it from mechanical damage.

6. INSPECTIONS, TESTS AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

7. AVAILABILITY

Minimax Fire Protection sprinklers and sprinkler guards are available through a network of domestic and international distributors. See Minimax Fire Protection web site for the closest distributor or contact Minimax Fire Protection.

8. GUARANTEE

For details of warranty, refer to current list price schedule or contact us directly.

NOTICE

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Sprinkler Guards can be retrofitted onto sprinklers that have already been installed on the system. However, it is recommended to install the guard onto the sprinkler prior to installing the sprinkler on the system and prior to applying any pipe-joint compound or tape to the external threads of the sprinkler. Consider ordering the guard factory installed on the sprinkler used.

WARNING

Minimax Fire Protection products are manufactured and tested to meet the rigid requirements of the approving agency. The sprinklers are designed to be installed in accordance with recognized installation standards. Deviation from the standards or any alteration to the sprinkler after it leaves the factory including, but not limited to: painting, plating, coating, or modification, may render the sprinkler inoperative and will nullify the approval and any guarantee made by Minimax Fire Protection.

NOTICE

Always refer to Bulletin Form No. FX_091699 - Care and Handling of Sprinklers. Also refer to the appropriate sprinkler data page. Minimax Fire Protection sprinklers are designed to be installed in accordance with the latest edition of Minimax Fire Protection technical data, the latest standards of NFPA, FM Global or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards whenever applicable. The use of certain types of sprinklers may be limited due to occupancy and hazard. Refer to the Authority Having Jurisdiction prior to installation..