



INSTALLER SAFETY AND INSTALLATION GUIDELINES

⚠ WARNING



- Always read and understand all installation instructions before attempting to install any Victaulic sprinkler products.
 - Always wear safety glasses and foot protection during installation.
- Failure to follow these instructions and warnings can result in serious personal injury. If you need additional copies of this literature, or if you have any questions about the safe installation of this product, contact Victaulic Company of America, P.O. Box 31, Easton, PA 18044-0031, phone: 610-559-3300, e-mail: victaulic@victaulic.com.

⚠ WARNING

- These maintenance and installation instructions are for an experienced, trained installer to utilize. The user must have an understanding of the purpose of this device, an understanding of the common industry standards for safety, and an understanding of the potential consequences of improper product installation and use.
- Failure to follow these instructions can result in serious personal injury, property damage, and/or improper system operation.

- You must install all Victaulic automatic sprinklers according to current, applicable NFPA standards (NFPA 13, NFPA 13D, NFPA 13R) or equivalent standards. Deviations from these standards or any alterations to the sprinkler itself (including painting or coating) will void any warranty from Victaulic Company.
- Installation must also meet provisions of the authority having jurisdiction in your area, along with local codes and standards, as applicable.
- Transport and store sprinklers in their original packaging.
- Do not expose sprinklers to ambient temperatures exceeding 100°F (38°C) during transport and storage.
- **DO NOT** install Model V28 sprinklers where they will be subjected to temperatures exceeding 100°F (38°C).
- **DO NOT** install Model V28 sprinklers in a corrosive environment.
- **DO NOT** install Model V28 sprinklers in an area where highly flammable and potentially explosive materials are present. The rapid rate of fire development, which these materials can cause, reduces the ability of sprinkler systems to aid in controlling a fire.
- **DO NOT** install a sprinkler system's piping through heating ducts. **DO NOT** connect piping to domestic hot water systems.
- **DO NOT** install sprinklers that have been dropped or hit by another object, even if they do not appear to have damage. Discard and replace any damaged system components.
- Prior to installation, verify that you have the proper model, orifice size, and temperature rating for the intended application.
- Size the piping system properly to provide the minimum required flow rate for the sprinkler system.
- Install sprinklers after the piping is in place in order to avoid damage to the product.
- Flush the system in order to remove foreign materials. Continue to flush the system until the water runs clear in order to ensure proper system operation.
- **DO NOT** paint, coat, plate, or alter the sprinklers in any way. Sprinklers altered in any way from their manufactured condition may not function properly. Replace any altered sprinklers immediately.
- **DO NOT** test the sprinklers with a heat source. The fusible element assembly can weaken or operate if you expose it to a heat source during testing.
- **DO NOT** clean sprinklers with soapy water, detergents, ammonia, cleaning fluids, or other chemicals. Remove any dust, lint, cobwebs, etc., by using a feather duster or a soft, dry cloth.

SPRINKLER PREPARATION AND INSTALLATION

1. Inspect the sprinkler for any signs of physical damage. Do not install a sprinkler that anyone has dropped or mishandled.



2. Make sure the red protective cap is still on the sprinkler. This cap prevents damage to the sprinkler during installation.
3. Prepare an approximately two-inch diameter hole in the ceiling tile for installation of the V28.
4. Apply a small amount of non-hardening, pipe-joint compound or thread tape to the male threads only. Do not get the sealing material into the sprinkler's orifice. Joint compound must never contact the seal. If this occurs, discard the damaged head and replace it with a new one.

⚠ WARNING

- Keep joint sealing material out of the sprinkler's orifice area.
- Joint compound must never contact the seal.

Failure to follow these instructions may cause the sprinkler to operate at the improper temperature and water pressure, which could result in serious personal injury and/or property damage.

5. Install the Model V28 sprinkler only in the pendent, flush-mounted position.

6. Thread the sprinkler, by hand, into the fitting. **DO NOT** remove the red protective cap.



7. Tighten the sprinkler into the fitting by using the Model V28 Wrench. Make sure the wrench engages only the sprinkler's wrench boss (refer to this page for wrench positioning). **DO NOT** remove the red protective cap.

⚠ WARNING

- Make sure the Model V28 wrench engages only the sprinkler's wrench boss.

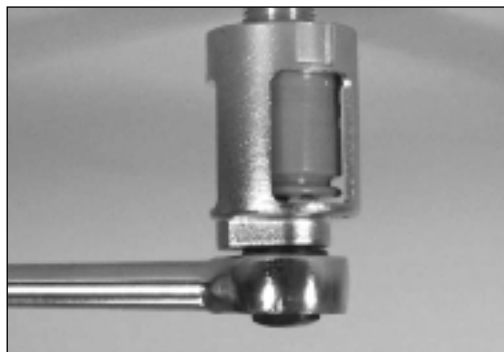
Failure to follow this instruction may cause bending, distortion, or cracking of the sprinkler's components, resulting in improper spray patterns, leakage, and/or non-operation. These events could cause serious personal injury and/or significant property damage.

⚠ CAUTION

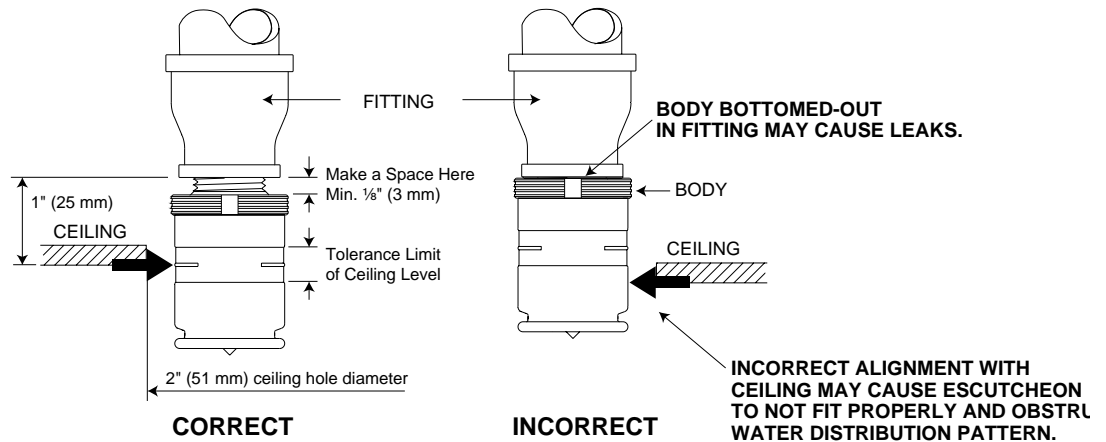
- Do not over-torque the sprinkler during installation.
- A leak-tight joint requires the application of only 7 to 14 ft-lbs. of torque. Higher levels of torque will distort the sprinkler's orifice seal, resulting in leakage. This leakage may cause significant property damage.

8. Make sure the sprinkler's exposure, below the finished ceiling line, is within the tolerance listed on the red protective cap.

PROPER WRENCH POSITIONING



PROPER SPRINKLER POSITIONING



TESTING THE SPRINKLER SYSTEM

After completing the installation, test the system per recognized standards.

If the sprinkler leaks through the threads:

! WARNING

- Depressurize and drain piping systems before attempting to remove any Victaulic piping products.

Failure to do so may result in serious personal injury, property damage, joint leakage, and/or joint separation.

1. Discard the sprinkler and replace it immediately.

If the sprinkler leaks into the red protective cap:

1. If you notice water drops or leaks through the small hole located on the top of the red protective cap, discard the sprinkler and replace it immediately.

ESCUTCHEON INSTALLATION



1. After completing all installation and finishing work, remove the red protective cap by using the Victaulic Cap Puller.

! WARNING

- Make sure you remove the red protective caps from all sprinklers in the system.

Failure to do so will prevent the proper operation of the sprinkler, which could result in serious personal injury and/or property damage.

2. Install the Model V28 Escutcheon onto the sprinkler until the outer edge of the escutcheon meets the ceiling's surface.

! WARNING

Carefully install the escutcheon so that you do not damage the sprinkler.

Damage to the sprinkler will result in improper operation, which could cause serious personal injury and/or property damage.

CARE AND MAINTENANCE

WARNING

- Depressurize and drain piping systems before attempting to remove any Victaulic piping products.

Failure to do so may result in serious personal injury, property damage, joint leakage, and/or joint separation.

CAUTION

- Do not attempt to reuse any sprinklers or sprinkler parts that have operated.
- Replace any damaged or corroded sprinklers with ones of the same style and temperature rating.
- Do not attempt to alter the discharge pattern of the sprinkler. The designed discharge pattern is critical to the sprinkler's performance and protection.
- Remove any obstructions to the sprinklers.
- If you alter the construction of a building, additional sprinklers may be required.

Failure to follow these instructions may result in improper spray patterns, which could cause significant property damage.

The owner of the system is responsible for the proper operating condition of all fire protection devices and accessories. NFPA Standard 25, "Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," contains guidelines and minimum maintenance requirements. In addition, the authority having jurisdiction in your area may have additional requirements for maintenance, testing, and inspection procedures that you must follow.

Do not attempt to take the fire protection system out of service without notifying the proper authorities first.

Make sure you receive permission from all authorities, and then notify all personnel that the system shutdown will affect. Victaulic recommends that you establish a fire watch during maintenance activities.

Be sure to discard all sprinklers that you remove from service.

Refer to the system's operating guide and the valve's instructions to remove the system from service.

WARRANTY INFORMATION

Refer to the "Warranty" section of the current price list, or contact Victaulic for details.