**Style V9 Victaulic® FireLock™ IGS™ Installation-Ready™ Sprinkler Coupling**

**INSTALLATION INSTRUCTIONS**

**IMPORTANT INFORMATION**

- **INCORRECT** - Original Groove System (OGS) Groove Profile
- **CORRECT** - IGS Groove Profile

The Style V9 Victaulic® FireLock™ IGS™ Installation-Ready™ Sprinkler Coupling shall be used only with sprinkler piping connections that are prepared to Victaulic IGS proprietary groove specifications. DO NOT attempt to install the Style V9 on sprinkler piping connections that are prepared to any other groove specification. Refer to Victaulic publication 25.14 for the IGS groove specification, which can be downloaded at victaulic.com.

**INSTRUCTIONS FOR THE INITIAL INSTALLATION OF A STYLE V9**

1. **DO NOT DISASSEMBLE THE STYLE V9:** The Style V9 is designed so that the installer does not need to remove the bolt and nut for installation. This facilitates installation by allowing the installer to directly install the Style V9 onto the sprinkler piping’s grooved end.

2. **CHECK GROOVED END OF SPRINKLER PIPING:** The outside surface of the sprinkler piping, between the groove and the end of the sprinkler piping, shall be generally free from indentations, projections, weld seam anomalies, and roll marks to ensure a leak-tight seal. All oil, grease, loose paint, dirt, and cutting particles shall be removed.

3. **Check the gasket to verify that it is suitable for the intended service.** The color code identifies the material grade. Refer to Victaulic publication 05.01 for the color code chart, which can be downloaded at victaulic.com.

3a. If any conditions listed in the “NOTICE” are met, apply a thin coat of a compatible lubricant, such as Victaulic Lubricant or silicone lubricant, only to the gasket sealing lips.

**WARNING**

- Read and understand all instructions before attempting to install any Victaulic products.
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in death or serious personal injury and property damage.

- The Style V9 Victaulic® FireLock™ IGS™ Installation-Ready™ Sprinkler Coupling shall be used only in fire protection systems that are designed and installed in accordance with current, applicable National Fire Protection Association (NFPA 13, 13D, 13R, etc.) standards, or equivalent standards, and in accordance with applicable building and fire codes. These standards and codes contain important information regarding protection of systems from freezing temperatures, corrosion, mechanical damage, etc.

- The Style V9 shall be used only for sprinkler-piping-to-sprinker connections. DO NOT use the Style V9 for pipe-to-pipe connections.

- These installation instructions are intended for an experienced, trained installer. The installer shall understand the use of this product and why it was specified for the particular application.

- The installer shall understand common industry safety standards and potential consequences of improper product installation.

Failure to follow installation requirements and local and national codes and standards could compromise system integrity or cause system failure, resulting in death or serious personal injury and property damage.
NOTICE

- Gaskets for the Style V9 are provided with Vic-Plus. Additional lubrication is not required for the initial installation of wet pipe systems that are installed at or continuously operating above 0°F/–18°C. Refer to Victaulic publication 05.03 for the Vic-Plus Safety Data Sheet (SDS), which can be downloaded at victaulic.com.

Supplemental lubrication is required only if any of the following conditions exist. Apply a thin coat of a compatible lubricant to the gasket sealing lips, as noted in step 3a on the previous page. It is not necessary to remove the gasket from the housings to apply additional lubricant to the exterior surface.

- If the installation or continuous operating temperature is below 0°F/–18°C
- If the gasket has been exposed to fluids prior to installation
- If the surface of the gasket does not have a hazy appearance
- If the gasket is being installed into a dry pipe system
- If the system will be subjected to air tests prior to being filled with water
- If the gasket was involved in a previous installation

Lubricated gaskets will not enhance sealing capabilities on adverse sprinkler piping conditions. Sprinkler piping condition and preparation shall conform to the requirements listed in these product installation instructions (refer to step 2 on page 1).

WARNING

- The bolt shall be tightened until metal-to-metal contact occurs at the bolt pads.
- DO NOT continue to tighten the bolt after the visual installation guidelines for the Style V9 are achieved.
- DO NOT attempt to rotate the sprinkler or Style V9 after the bolt is tightened completely.

Failure to follow these instructions could cause joint damage or improper sprinkler operation, resulting in death or serious personal injury and property damage.

4. ASSEMBLE JOINT: Assemble the joint by installing the Style V9 onto the sprinkler piping’s grooved end until contact with the center leg of the gasket occurs. Rotate the Style V9 to verify that the gasket is seated properly on the sprinkler piping’s grooved end, then align the sprinkler frame arms and Style V9’s bolts pads with the sprinkler piping, as shown above. A visual check is required to verify that the keys of the Style V9 align with the groove in the sprinkler piping.

WARNING

- Never leave a Style V9 partially assembled. ALWAYS TIGHTEN THE HARDWARE IMMEDIATELY. A partially-assembled Style V9 poses a drop or fall hazard during installation and a burst hazard during testing.
- Keep hands away from the opening of the Style V9 when attempting to install and tighten the Style V9 onto the sprinkler piping’s grooved end.

Failure to follow these instructions could result in serious personal injury and property damage.

5. TIGHTEN BOLT: Using an impact wrench or standard socket wrench with the 3/16-inch hex installation bit that is provided with the product shipment, tighten the bolt until metal-to-metal contact occurs at the bolt pads. DO NOT continue to tighten the bolt after metal-to-metal bolt pad contact is achieved. Refer to the “Impact Wrench Usage Guidelines” section.

NOTE: Do not attempt to rotate the sprinkler or Style V9 after the bolt is tightened. If necessary, loosen the bolt before attempting to rotate the sprinkler or Style V9, then retighten the bolt as stated earlier in this step.

GOOD

BAD

6. Visually inspect the bolt pads at each sprinkler piping connection to verify that metal-to-metal contact is achieved in accordance with step 5.
WARNING
- Sprinklers cannot operate properly with bulb protectors in place.
- Bulb protectors shall be removed from all sprinklers before the sprinkler system is placed in service.
- DO NOT use any tools to remove bulb protectors.
Failure to remove bulb protectors from all sprinklers before the system is placed in service will cause improper sprinkler operation, resulting in death or serious personal injury and property damage.

7. Remove the bulb protector from all sprinklers carefully by hand before the sprinkler system is placed in service. Refer to the installation instructions for applicable sprinkler for complete requirements.

IMPACT WRENCH USAGE GUIDELINES

WARNING
- The bolt shall be tightened until metal-to-metal contact occurs at the bolt pads.
- DO NOT continue to tighten the bolt after the visual installation guidelines for the Style V9, described in steps 5 – 6 on page 2, are achieved.

Failure to follow these instructions could cause joint failure, resulting in death or serious personal injury and property damage.

Impact wrenches do not provide the installer with direct “wrench feel” or torque to judge bolt tightness. Since some impact wrenches are capable of high output, it is important to develop a familiarity with the impact wrench to avoid damaging or fracturing the bolt or the coupling’s bolt pads during installation. Always choose the right size impact wrench that has enough power, but DO NOT continue to tighten the bolt after the visual installation guidelines for the Style V9, described in steps 5 – 6 on page 2, are achieved. If you suspect that any hardware has been over-tightened (as indicated by a bend or crack in the bolt, etc.), the entire Style V9 assembly shall be replaced immediately.

If the battery is drained or if the impact wrench is under-powered, a new battery pack or new impact wrench shall be used to ensure that the visual installation guidelines for the Style V9, described in steps 5 – 6 on page 2, are achieved. Visual inspection of each joint is required for verification of proper assembly.

Perform trial assemblies with the impact wrench and check the assemblies with a torque wrench to help determine the suitability of the impact wrench. Using the same method, periodically check assemblies throughout the system installation.

For safe and proper use of impact wrenches, always refer to the impact wrench manufacturer’s operating instructions. In addition, verify that proper impact grade hex drivers are being used for Style V9 installation.

WARNING
Failure to follow instructions for tightening hardware could result in:
- Personal injury or death
- Bolt damage or fracture
- Damaged or broken bolt pads or fractures to housings
- Joint leakage and property damage
- A negative impact on system integrity

INSTRUCTIONS FOR REASSEMBLY OF A STYLE V9

WARNING
- Always verify that the piping system has been completely depressurized and drained immediately prior to installation, removal, adjustment, or maintenance of any Victaulic products.

- The sprinkler shall be replaced upon disassembly of a Style V9. Verify that the replacement sprinkler is the proper model, style, orifice size, temperature rating, and response.

Failure to follow these instructions could result in death or serious personal injury and property damage.

1. Verify that the system is depressurized and drained completely before attempting to disassemble a Style V9 from the sprinkler piping.

2. Loosen the hardware of the Style V9 to permit removal from the sprinkler piping.

3. Remove the nut, bolt, and gasket from the Style V9 housings. Inspect all components for damage or wear. If any damage or wear is present, use a new Victaulic-supplied Style V9 assembly.

NOTE: The sprinkler shall be replaced upon disassembly of a Style V9. Verify that the replacement sprinkler is the proper model, style, orifice size, temperature rating, and response.

4. Check sprinkler piping ends, as described in step 2 on page 1.

CAUTION
- A thin coat of a compatible lubricant shall be used to prevent the gasket from pinching, rolling, or tearing during reassembly.

Failure to use a compatible lubricant may cause gasket damage, resulting in joint leakage and property damage.

5. LUBRICATE GASKET: Apply a thin coat of Victaulic Lubricant or silicone lubricant to the gasket sealing lips and exterior. NOTE: It is normal for the gasket surface to have a hazy white appearance after it has been in service.
6. REASSEMBLE STYLE V9: Place the lubricated gasket inside the gasket pocket of one Style V9 housing. **NOTE:** For all sizes other than the 1-inch x 1-inch/33.7-mm x 33.7-mm, verify that the larger opening of the gasket is facing the larger opening of the housings, as shown above. Engage the tab of the one housing with the slot of the other housing, and close the housings around the gasket.

7. INSTALL BOLT: Install the bolt through the housings. Verify that the head of the bolt faces the angled feature of the bolt pad, as shown above.

8. INSTALL NUT: Thread the bolt into the nut until the top of the nut is flush with the end of the bolt, as shown above. Verify that the gasket remains seated in the gasket pocket of the housings and that the nut is engaged with the flat features of the bolt pad.

9. INSTALL NEW SPRINKLER: Insert a new sprinkler that is the proper model, style, orifice size, temperature rating, and response into the corresponding opening of the Style V9 housings. Rotate the sprinkler so that the frame arms align with the bolt pads, as shown above.

10. Follow steps 4 – 7 on pages 2 – 3 of this instruction sheet to complete the assembly.

**WARNING**

- The sprinkler shall be replaced upon disassembly of a Style V9. Verify that the replacement sprinkler is the proper model, style, orifice size, temperature rating, and response. Failure to follow this instruction could cause improper sprinkler operation, resulting in death or serious personal injury and property damage.

For complete contact information, visit victaulic.com