

VICTAULIC FLANGE ADAPTER NOTES FOR 12-INCH/323.9-MM AND SMALLER SIZES

Style 741 Vic-Flange Adapter

Style 744 FireLock Flange Adapter

Style 743 Vic-Flange Adapter

- The Victaulic Flange Adapter design incorporates small teeth on the ID of the key section to resist rotation. These teeth must be removed when the Victaulic Flange Adapter is used with grooved-end Victaulic Series 700 Butterfly Valves, Schedule 5 pipe, and plastic pipe.
- Victaulic Flange Adapters must be assembled so there is no interference with mating components.
- Because of the outside flange dimension, Victaulic Flange Adapters must not be used within 90° of one another on a standard fitting.
- Victaulic Flange Adapters cannot be used on FireLock fittings.
- When wafer or lug-type valves are used adjoining a Victaulic fitting, check disc dimensions to ensure proper clearance.
- Victaulic Flange Adapters shall not be used as anchor points for tie rods across non-restrained joints.
- Mating Victaulic Flange Adapters to rubber faced flanges, valves, etc. requires the use of a Victaulic Flange Washer. Refer to the "Victaulic Flange Washer Notes" section on the following page.
- The face of the mating flange must be free from gouges, undulations, and deformities of any type for proper sealing. Refer to the installation instructions for complete information.
- The lettering on the outside of the gasket must face the gasket pocket of the Victaulic Flange Adapter. When installed correctly, the lettering on the gasket will not be visible.
- The hinge points of Victaulic Flange Adapters must be oriented approximately 90° to each other when mated.
- Style 741 Vic-Flange Adapters can be used only on the side of Series 700 Butterfly Valves that will not interfere with handle operation.
- Style 741 Vic-Flange Adapters can be used on all sizes of Series 761 Vic-300 MasterSeal Butterfly Valves and Series 716/716H Vic-Check Valves.
- Series 761 Vic-300 MasterSeal Butterfly Valves cannot be connected directly to flanged components with Style 743 Vic-Flange Adapters. A No. 46 ANSI 300 groove-by-flange adapter is required for this application.
- Style 741 Vic-Flange Adapters can be used only on one side of 8-inch/219.1-mm and smaller Series 765, 705, 766, and 707C Butterfly Valves that will not interfere with mating components and handle operation.
- Style 741 Vic-Flange Adapters cannot be used on 10-inch/273.0-mm Series 765 and Series 705 Butterfly Valves.
- Style 741 and Style 743 Vic-Flange Adapters can be installed on either end of a Series 717, 717H, 717R, and 717HR FireLock Check Valve.
- Series 765, 705, 766, and 707C Butterfly Valves cannot be connected directly to flanged components with Style 743 Vic-Flange Adapters. A No. 46 ANSI 300 groove-by-flange adapter is required for this application.
- Series 763 Stainless Steel Butterfly Valves cannot be connected directly to flanged components with Style 743 Vic-Flange Adapters. A No. 46 ANSI 300 groove-by-flange adapter is required for this application.
- Style 743 Vic-Flange Adapters are designed to mate with raised-face flanges. For connections to flat-faced flanges, the raised projections on the outside face of the Style 743 Vic-Flange Adapter must be removed.
- Style 743 Vic-Flange Adapters in 2, 2½, and 3-inch/60.3, 73.0, and 88.9-mm sizes must be ordered as a factory assembly when connected to a Victaulic fitting or valve. Contact Victaulic for details.
- **STANDARD, FULL-SHANK DIAMETER ASSEMBLY BOLTS ARE REQUIRED FOR PROPER INSTALLATION OF VICTAULIC FLANGE ADAPTERS.**



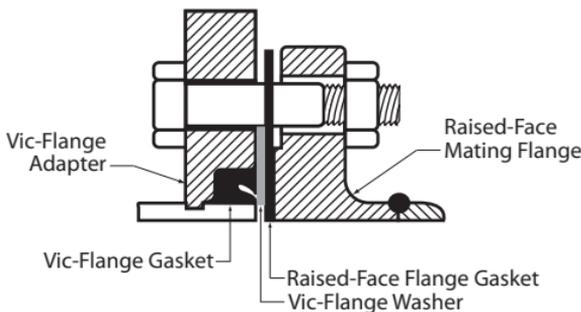
VICTAULIC FLANGE WASHER NOTES FOR 12-INCH/323.9-MM AND SMALLER SIZES

Style 741 Vic-Flange Adapter
Style 744 FireLock Flange Adapter
Style 743 Vic-Flange Adapter

Victaulic Flange Adapters require a smooth, hard surface at the mating flange face for proper sealing. Some applications, for which the Victaulic Flange Adapter is otherwise well suited, do not provide an adequate mating surface. In such cases, a metal Victaulic Flange Washer (Type F phenolic when joining to copper systems) is recommended for insertion between the Victaulic Flange Adapter and the mating flange to provide the necessary sealing surface. To ensure the proper Victaulic Flange Washer is supplied, always specify the product style and size when ordering.

- A. **When mating a Victaulic Flange Adapter to a serrated flange** – a flange gasket shall be used against the serrated flange. The Victaulic Flange Washer should then be inserted between the Victaulic Flange Adapter and the flange gasket.
- B. **When mating a Victaulic Flange Adapter to a wafer-type valve that is rubber-lined and partially rubber-faced (smooth or not)** – the Victaulic Flange Washer shall be placed between the valve and the Victaulic Flange Adapter.
- C. **When mating a Victaulic Flange Adapter to a rubber-faced flange, valve, etc.** – the Victaulic Flange Washer must be placed between the Victaulic Flange Adapter and the rubber-faced flange.
- D. **When mating a Victaulic Flange Adapter to components (valves, strainers, etc.) where the component flange face has an insert** – follow the same arrangement as if the Victaulic Flange Adapter was being mated to a serrated flange. Refer to application “A” above.
- E. **When mating Victaulic AWWA Flange Adapters to Victaulic NPS Flange Adapters** – the Victaulic Flange Washer must be placed between the two Victaulic Flange Adapters with the hinge points oriented 90° to each other. If one flange is not a Victaulic Flange Adapter (i.e. flanged valve), a flange gasket must be placed against the non-Victaulic Flange. The Victaulic Flange Washer must then be inserted between the flange gasket and the Victaulic Flange gasket.
- F. **STYLE 741 AND STYLE 744 VIC-FLANGE WASHERS ARE DIFFERENT DIMENSIONS THAN STYLE 743 VIC-FLANGE WASHERS. DIRECT SUBSTITUTION IS PROHIBITED.**

EXAMPLE:



Exaggerated for Clarity

Style 741 - Vic-Flange Adapter (12-inch/323.9-mm and Smaller Sizes) –

ANSI 125, 150/DIN PN10 Class, or DIN PN16 Class

Style 743 - Vic-Flange Adapter – ANSI Class 300

Style 744 - FireLock Flange Adapter – ANSI Class 150

⚠ WARNING



- Read and understand all instructions before attempting to install any Victaulic piping products.
- Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection.

Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

NOTICE

- The following installation steps feature photos of a Style 741 Vic-Flange Adapter. However, the same installation steps apply to Style 743 Vic-Flange Adapters and Style 744 FireLock Flange Adapters, except where noted.
- Make sure there is sufficient clearance behind the pipe groove to permit proper assembly of the Vic-Flange Adapter



1. CHECK PIPE ENDS: The outside surface of the pipe, between the groove and the pipe end, must be smooth and free from indentations, projections (including weld seams), and roll marks to ensure a leak-tight seal. All oil, grease, loose paint, dirt, and cutting particles must be removed.

2. CHECK GASKET AND LUBRICATE: Check the gasket supplied to make sure it is suitable for the intended service. The color code identifies the gasket grade. Apply a thin coat of Victaulic lubricant or silicone lubricant to the gasket lips and exterior. **NOTE:** This gasket is designed to provide the sole seal. However, reference should be made to the notes at the beginning of this section for special applications.

NOTICE

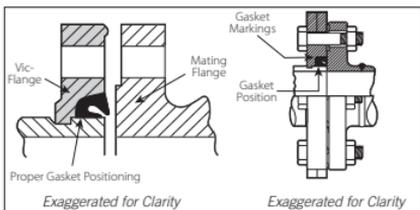
For FireLock Products Only:

- Some Victaulic FireLock products may be provided with the Vic-Plus™ gasket system. If the coupling is provided with the Vic-Plus gasket system, 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 the “Lubrication” section of this manual for complete information.

⚠ CAUTION

- Always use a compatible lubricant to prevent the gasket from pinching/tearing during installation. Failure to follow this instruction could result in joint leakage.





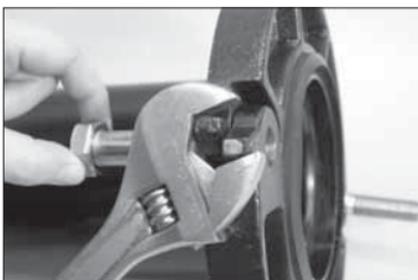
3. INSTALL GASKET: Install the gasket over the pipe end. Make sure the gasket is positioned properly, as shown above. **NOTE:** The lettering on the outside of the gasket must face the flange-adapter gasket pocket. When installed correctly, the lettering on the gasket will not be visible.



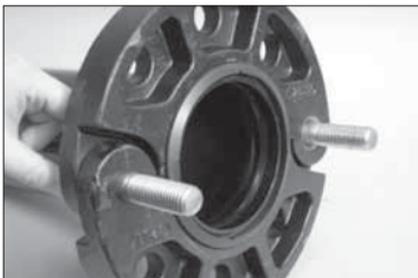
4. INSTALL FLANGE ADAPTER: Open the hinged flange adapter fully, and install the flange over the gasket. Make sure the flange key section engages the pipe groove properly.



4a. FOR STYLE 741 AND STYLE 744 FLANGE ADAPTERS ONLY: Closure lugs are provided for ease of installation. If necessary, use an adjustable wrench to bring the flange holes into alignment. This will ease insertion of the standard flange bolts into the mating holes.

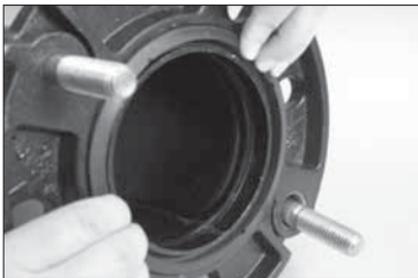


Style 741 and Style 744

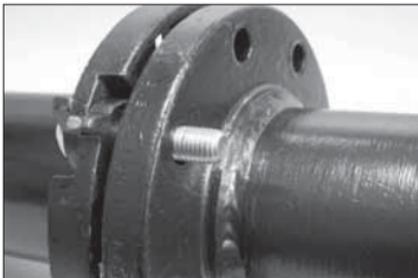


Style 743

5. INSERT MATING BOLTS: Insert a standard, full-shank diameter assembly bolt through each of the two mating holes in the flange adapter. This will maintain the position of the flange in the pipe groove.



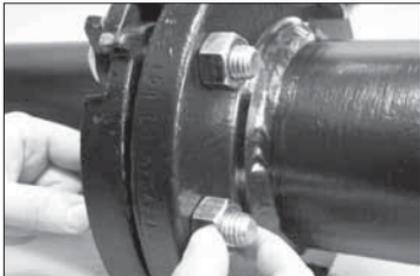
5a. Make sure the gasket is seated properly in the flange adapter.



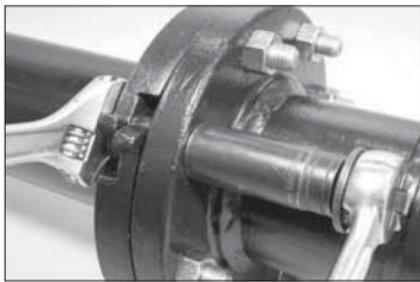
6. JOIN FLANGE ADAPTER AND MATING FLANGE: Join the flange adapter with the mating flange by aligning the bolt holes.



6a. Thread standard flange nuts finger-tight onto the two mating bolts.



7. INSTALL REMAINING BOLTS/ NUTS: Insert a standard, full-shank diameter assembly bolt through each remaining hole in the flange adapter/ mating flange. Thread standard flange nuts finger-tight onto all bolts.



8. TIGHTEN NUTS: Tighten the nuts evenly, as with a regular flange assembly. Continue tightening until the flange faces come into firm, metal-to-metal contact or the standard, flange-bolt torque requirement is achieved.