CHECK VALVE INSTALLATION AND OPERATION

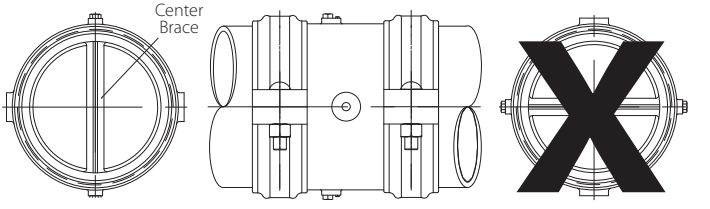
When installing a Victaulic check valve into a piping system, follow the instructions supplied with the coupling. Refer to the notes below for applications/limitations.

Placement of check valves too close to sources of unstable flow will shorten the life of the valve and may potentially damage the system. To extend valve life, valves should be installed a reasonable distance downstream from pumps, elbows, expanders, reducers, or other similar devices. Sound piping practices dictate a minimum of five times the pipe diameter for general use. Distances between three and five diameters are allowable, provided the flow velocity is less than 8 feet per second/2.4 meters per second. Distances less than three diameters are not recommended and will violate the Victaulic product warranty. **NOTE:** These distances do not apply to fire protection installations.

Series 712, 712S, and 713 Swinger Check Valves

- Series 712, 712S, and 713 Swinger Check Valves must be installed with the arrow on the body pointing in the correct direction of flow through the pipeline.
- Series 712, 712S, and 713 Swinger Check Valves SHOULD NOT be installed vertically.

Series W715 AGS Double Disc Vic-Check Valve



Correct Orientation for Horizontal Installation | Horizontal Installation | Incorrect Orientation for Horizontal Installation

- Series W715 AGS Double Disc Vic-Check Valves can be installed either vertically (flow up) or horizontally.
- For horizontal installations, the center brace inside the Series W715 AGS Double Disc Vic-Check Valve must be in the vertical position, as shown above.
- Style W741 AGS Vic-Flange Adapters can be installed on either end of a Series W715 AGS Double Disc Vic-Check Valve.
- When connecting a Series W715 AGS Double Disc Vic-Check Valve to a Series W761 AGS Vic-300 Butterfly Valve, a pipe spool is required between the two valves to prevent disc interference.
- When a Series W715 AGS Double Disc Vic-Check Valve is placed near a Series W761 AGS Vic-300 Butterfly Valve, orient the center brace/disc shaft of the Series W715 at right angles to the butterfly valve stem. Failure to do so will cause uneven and unstable flow through the Series W715, resulting in noise and reduced valve life.

Series 716/716H Vic-Check Valves

- Series 716/716H Vic-Check Valves can be installed either vertically (flow up) or horizontally with the arrow on the body pointing in the correct direction of flow through the pipeline.
- Style 741 Vic-Flange Adapters can be installed on either end of a Series 716/716H Vic-Check Valve.

Series 717, 717H, 717R, and 717HR FireLock Check Valves

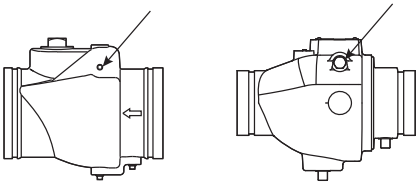
- Series 717, 717H, 717R, and 717HR FireLock Check Valves can be installed either vertically (flow up) or horizontally with the arrow on the body pointing in the correct direction of flow through the pipeline.
- Style 741 and Style 744 Vic-Flange Adapters can be installed on either end of a Series 717, 717H, 717R, or 717HR FireLock Check Valve.

Series 779 Venturi Check Valve

- Series 779 Venturi Check Valves can be installed either vertically (flow up) or horizontally with the arrow on the body pointing in the correct direction of flow through the pipeline.

For Series 716/716H Vic-Check Valves, Series 717/717H/717R/717HR FireLock Check Valves, and 779 Venturi Check Valves

- The bushing or pipe plug that retains the shaft/disc must be located at the top of the valve in horizontal installations (refer to drawing below).



BALL VALVE INSTALLATION AND OPERATION

Series 722 Threaded Ball Valve

Series 723 Diverter Ball Valve

Series 726 Vic-Ball Valve

Series 728 FireLock Ball Valve

When installing a Victaulic ball valve into a piping system, follow the instructions supplied with the coupling. For threaded valves, follow standard threading practices for proper installation. **NOTE:** Victaulic ball valves are intended for open/closed services only and MUST NOT be used for throttling services.

When directly connecting an end cap to a ball valve, use only a tapped end cap for pressure relief. If the ball valve is opened then closed unknowingly while the end cap is attached, the space between the ball and end cap will be filled and pressurized. A sudden release of energy can occur if the end cap is removed while the space behind it is pressurized. **PRESSURE MUST BE VENTED THROUGH THE TAP BEFORE ATTEMPTING TO REMOVE THE CAP.**

⚠ DANGER

- **When directly connecting an end cap to a ball valve, use only a tapped end cap for pressure relief.**
- **Pressure must be vented through the tap before attempting to remove the cap.**

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