



Crispin Globe & Wafer Style Check Valves

OPERATION

Silent Check Valves are typically used downstream of a pump. These valves are designed to close before the pump stops completely. This prevents flow reversal, which eliminates water hammer and the system surges associated with valve closure.

Installation Instructions

Valves may be installed vertically, horizontally, or at other angles. Install the valve with proper positioning of the flow arrow. Support and align adjacent piping and the valve. Install lubricated flange bolts. Hand tighten, then torque the bolts using the cross-over flange bolt tightening method to load the bolts evenly, and eliminate concentrated stresses.

Valves must be mounted to ANSI cast iron or steel flanges with conventional flat face or ring gaskets. Proper centering of ring gaskets is important to prevent internal leakage. Never lift the valve by the bronze or stainless steel trim.

MAINTENANCE

If the valve must be serviced, it should be isolated and the line pressure relieved on both sides of the valve. The discharge flange can be loosened first. Then loosen the inlet flange to relieve the line pressure. After the valve is removed from the line, inspect the internal parts for wear. The valve seat ring (#2) is removed by first removing the retaining screws (#6). After the seat ring is removed, slowly remove the disc (#3). The valve spring (#4) and guide bushing (#5) will be exposed. The parts that are worn should be replaced. Metal to metal seats are a lapped set, therefore, the seat ring and disc should be replaced at the same time.

When the valve is to be reassembled, carefully place the disc and seat in the valve body so as not to destroy the lapped seat. Reinstall the valve in the line. Use new flange gaskets, and replace and torque the bolts using the cross-over flange bolt tightening method.

CAUTION

The valve seating should never be inspected by only removing the valve inlet flange piping, because seat damage or injury could occur.

* These valves are intended for use on municipal water systems or approved commercial and/or industrial applications.

