



## 61 & 62 SERIES (Model: CVBE & CVS) IN-LINE CHECK VALVE INSTALLATION, OPERATION AND MAINTENANCE MANUAL

### INSTALLATION

#### **Overall Cautions**

1. It is the installers and/or system designer's responsibility to ensure that these valves and adjoining piping are installed and supported in accordance with applicable ASME B31 standards.
2. These check valves are not recommended for use with reciprocating pumps and similar applications which may induce repetitious vibrations.
3. Low flow rates which do not fully open the valve may result in undesirable noise and premature valve failure.
4. Upstream flow disturbances which create turbulence may also result in rapid wear. It is recommended that a minimum of 10 pipe diameters of straight pipe be provided between the check valve and any upstream devices such as pumps, control valves or elbows etc.



#### **Threaded Valves**

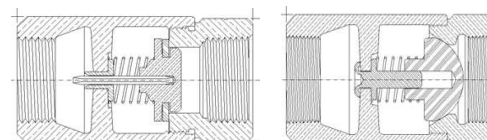
1. The 61 and 62 series Apollo check valves are designed to be installed horizontally or vertically with upward flow.
2. Make sure all pipe end connections are clean, burr free and free of any debris.
3. Apply pipe sealant (pipe dope, Teflon® tape, Loctite® compound, etc.) to the make end pipe prior to installing the valve.
4. Make sure the valve is installed in the piping system so that the intended flow direction corresponds with the flow arrow on the side of the valve body.
5. When tightening the valve onto adjoining pipe, apply the wrench to the valve at the hex closest to the joint being completed. Do not over-tighten the pipe joint. No more than 1 ½ turns should be necessary beyond finger tight to create a leak free joint. **Caution: Do not apply installation torque through the valve as it may damage the valve body or body joint seal.**
6. Check the valve and joints for leaks prior to putting the system into service.

#### **Solder End Valves**

1. The 61 and 62 series Apollo check valves are designed to be installed horizontally or vertically with upward flow.
2. Make sure all pipe end connections are clean, burr free and free of any debris.
3. Make sure the valve is installed in the piping system so that the intended flow direction corresponds with the flow arrow on the side of the valve body.
4. 61-600 Series solder end check valves are designed to be soft soldered using solder with a melting point less than 500F.
5. Apply heat with the flame directed away from the center of the valve body and distribute evenly around the joint. Do not concentrate heat on any one point (i.e. the bottom of the joint). Make one joint at a time and allow it to cool to the touch before starting the second joint. **Caution: Excessive heat can damage the valve's soft components.**
6. Check the valve and joints for leaks prior to putting the system into service.

### MAINTENANCE

1. The 61 and 62 series Apollo check valves are designed to be virtually maintenance free.
2. Should a problem develop, do not disassemble the valve while the under pressure.
3. Repair kits are available from the factory should the seat, check or spring need replacing.



#### **FREEZING**

Provide means to protect the valve from freezing and bursting when used on liquids.

#### **FLUID COMPATIBILITY**

Consider the corrosive, erosive and adhesive effects of fluids on the valves and piping components. It is the users responsibility to ensure that the valve is compatible with the media in the system.

#### **OPERATION**

No manual operation is required, nor is it possible once the check valve has been installed in the piping system.

**Warning: Bronze valves contain lead, a chemical known to the state of California to cause cancer or birth defects or other reproductive harm. (Plumber: California law requires that this warning be given to the consumer.)**