

Installation, Operation and Maintenance Guide

For Threaded and Soldered End Brass Ball

Threaded End Ball Valves

- 1. Make Sure all surfaces are clear and free of debris on the piping connection.
- 2. Use Teflon tape or approved sealant is recommended.
- 3. Prepare two smooth-jawed adjustable wrenches when installing the valve. A loosely fitting pipe wrench can distort the valve and cause a leak.
- 4. Apply one wrench on hex nearest the joint being tightened to prevent breaking the seal between the end cap and body of the valve

Soldered End Ball Valves

- 1. Clean and flux before installing.
- 2. Cut tubing in a proper dimension square, de-burred, and clean with a solvent.
- 3. Turn the valve in the fully open position.
- 4. Wrap a wet rag around the valve body.
- 5. Use soft solder, a low temperature solder (420°F/ 216°C). Higher temperature solders may damage the seat material.
- 6. Apply heat with the flame directed away from the center od the valve body. Excessive heat can harm the seats (end cap-to-body seal and Teflon seats).
- 7. <u>Check the packing gland after soldering. It may have to be tightened in 1/8 to 1/4 turn</u> increments until leak stops.

OPERATION

To open or close the valve, turn the handle 1/4 turn (90 degrees)

- 1. In open position the handle rotation is counter clockwise and the handle is parallel with the valve.
- 2. In close position the handle is clockwise and the handle is perpendicular with the valve.

MAINTENANCE

- 1. Screw the packing gland properly when the leakage occurs from steam and to tighten 1/8 to 1/4 turn increments until leak stops.
- 2. Add an additional packing if the leakage on step 1 continuous. The procedure of additional packing is as the following steps.
 - 2.1 Do not disassemble the valve while under pressure.
 - 2.2 Remove the handle and packing gland.
 - 2.3 Add an additional packing on the top of the old packing.
 - 2.4 Reassemble the packing gland and handle
 - 2.5 Do the leak test and make sure there is no leakage from stem

CAUTION: Do not disassemble valve while under pressure nor with entrapped hazardous fluids therein. NOTE: Always test valve and system before putting the system into service. (Crane Supply does not recommend disassembly of this valve to attempt internal repairs). Following a policy of continuous improvement, Crane Supply reserves the right to alter any information and specifications in this brochure without prior notice.