

Installation and maintenance

Optimum functioning of Hydro-Ball valves is secured if the following installation and maintenance instructions are observed.

General

The valves are delivered cleaned in plastic bags. The bag must not be removed during storage.

- The ball valves can be installed in all positions in the piping system.
- The check valves must be installed in vertical position.
- Before installing the ball valves, the pipes must be flushed through so that any welding slag, iron scales or the like are removed. Otherwise these foreign bodies may damage the ball gaskets and cause leakages. The pipes must be tension-free.

Thread connection

Check that the thread in the pipe end is the same as in the valve and that they are correctly cut.

- On the thread, use a sealing material that is suitable for the medium.
- Always tighten with the spanner on the nipple up towards the pipe end on which the valve is to be installed. Do not turn the valve past the required position.

Welded connection

Stitch-weld the valve to the pipe end. Remove bolts and nuts. Turn the centre section outwards. Ensure that the ball gaskets do not fall out - for example with tape. Weld and mount the centre section, and tighten the bolts with the proper torque. We recommend the installation of a spacer piece of pipe with the length of the centre section at the full weld.

Flange connection

Check the alignment of the piping system before mounting the valve. Assemble bolts, nuts and gaskets loosely. Turn the valve to the required position and tighten bolts and nuts.

Startup

Open the ball valve, and flush the piping system through again. Check that the joints between valve and piping are properly sealed.

Replacement of gaskets

Remove any actuator and centring ring. Set the valve to open position and strip down.

- Remove ball gaskets, ball, nipple and O-rings. Be careful not to damage the ball. Remove nut/screw, washer, handle, springs, stop ring and washer. Remove the spindle by carefully pressing it into the valve housing. Clean all parts, especially gasket surfaces on nipples and spindle.
- Install new washers and O-rings on the spindle, lubricate the spindle with a suitable lubricant and install it from the inside of the housing. Mount the washer, stop ring, springs, handle, washer and nut/screw and tighten all together.
- Insert the ball gasket with any backing ring, put the O-ring on the nipple and mount the assembly. Position the ball carefully and screw the opposite nipple in. Clamp the nipples and check whether the valve can be operated easily. Mount centring ring and actuator if any. We recommend that you test the gaskets once more.

Maintenance

The ball and spindle of the valve are lubricated on assembly with Molykot paste or another lubricant. To ensure that movable parts are kept lubricated and gaskets are flexible, we recommend operating the valve at least once every three months.

All pressure and temperature values in this catalogue are values under normal operating conditions. If you have special requirements, please contact Danvalve.