

INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTIONS

I. INSTALLATION

1. STORAGE UNTIL INSTALLATION

If valves are to be stored for a longer period of time, the following must be observed:

- Always store with completely open ball position,
- Use covered dry rooms (room temperature),
- Protect from contamination; the valves must be covered.

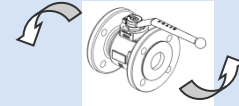


Fig 1

2. PREPARATION FOR INSTALLATION

Prior to installation, check whether sufficient substructure,

Ball valves are supplied in position "OPEN". They should be installed into pipeline in this condition and should not to be actuated until pipe has been cleaned, in order to protect ball from damages as a result of dirt, rust and residues from installation of pipes. Protection cap to be removed just before installation (Fig 1).

3. INSTALLATION INTO PIPELINE

3.1 Installation with welding joint

- Before welding the ball valve to the pipeline check material combinations. Welding should be carried out by an experienced welder only,
- Clean pipeline (remove any contamination resulting from construction),
- Insert ball valve, whilst ensuring perfect alignment between pipe and valve,
- After alignment, ensure sufficient and secure support for ball valve and then weld it in.

3.2 Installation with flanged joint

- Clean pipeline (remove any contamination resulting from construction),
- Remove protection cap and clean sealing surface of valve flange and pipe flange (both sides),
- When installing the ball valve into the pipeline, attention must be paid that there is sufficient support
- Fit ball valve to one side of pipe flange,
- After checking correct gasket, tighten flange bolt diagonally and evenly
- When connecting the other pipe flange proceed analogously,
- Both flange joints must be checked for security (if necessary retighten screws).



Fig 2

ODPRTO / OPEN



Fig 3

ZAPRTO / CLOSED

4. ANTICORROSION PROTECTION

Valves »Polix« are with alkyd or epoxy coating protected. After mounting in to the pipeline system, additional tar or other suitable coat is strongly recommended.

II. OPERATION MANUAL

1. PUTTING INTO OPERATION

- Flush pipeline with suitable agents, clean and if necessary allow to dry – DO NOT actuate the ball valve at this time (danger of damage to valve surface and sealings by dirt passing through),
- Re-check flanged welding joints for tightness, if necessary, retighten screws,
- Check resistance and tightness of entire pipeline,
- Only then should ball valve be actuated.

2. ACTUATION

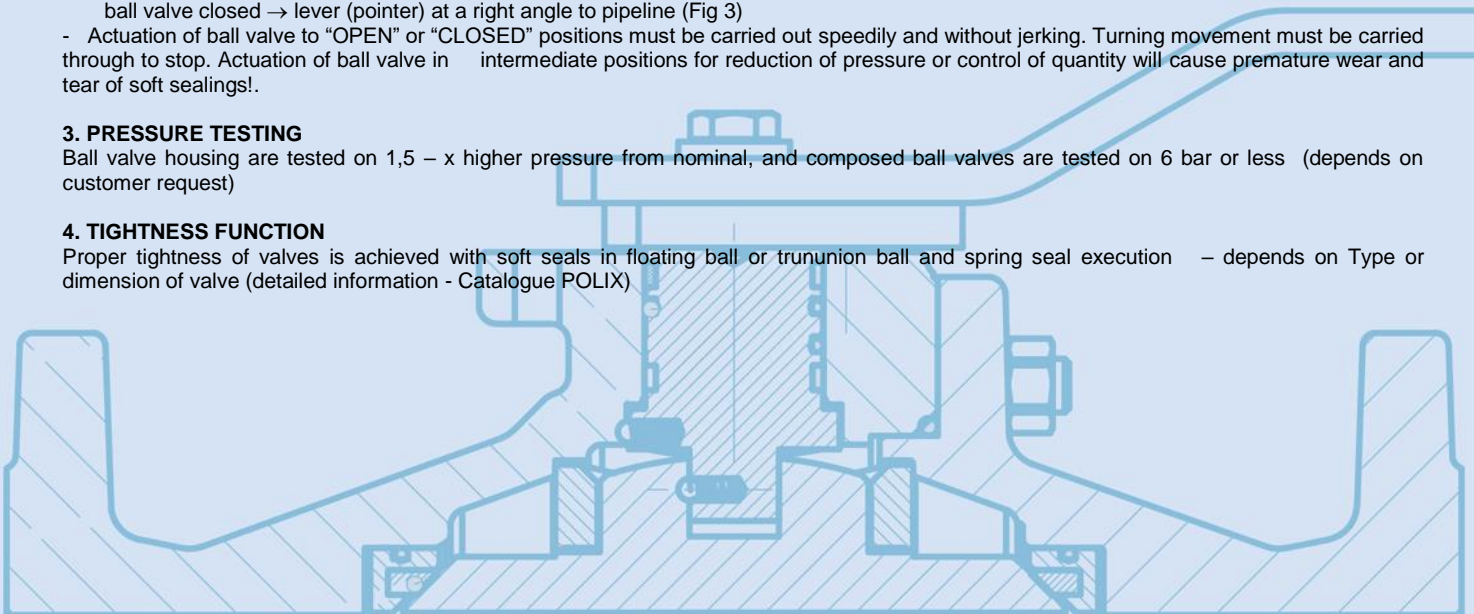
- Actuation of ball valve is normally in line of vision to lever → clockwise "CLOSED" and anticlockwise "OPEN",
- Position of through-hole in ball should be seen from position of lever or pointer in ball valves for underground installation:
 - ball valve open → lever (pointer) parallel to pipeline (Fig 2)
 - ball valve closed → lever (pointer) at a right angle to pipeline (Fig 3)
- Actuation of ball valve to "OPEN" or "CLOSED" positions must be carried out speedily and without jerking. Turning movement must be carried through to stop. Actuation of ball valve in intermediate positions for reduction of pressure or control of quantity will cause premature wear and tear of soft sealings!

3. PRESSURE TESTING

Ball valve housing are tested on 1,5 – x higher pressure from nominal, and composed ball valves are tested on 6 bar or less (depends on customer request)

4. TIGHTNESS FUNCTION

Proper tightness of valves is achieved with soft seals in floating ball or trunion ball and spring seal execution – depends on Type or dimension of valve (detailed information - Catalogue POLIX)



5. INTERRUPTIONS – SOLUTIONS

5.1 Leakage – flow direction

- Check closed position (possibility of foreign body in valve)
- Check moving angle of handle (possibility of limiter damage)
- If necessary switch valve frequently
- If there is not success, change the seals

5.2 Leakage on stem

- Change stem seals

6. GENERALLY

Do not work with a medium not complying with technical specifications, Medium temperature and pressure must be kept within limits of technical specifications. Always use original spare parts.

Welding ball valves have to be repaired only at producer.

Leakage complaints for which reasons are fault transport or handling, producer can not consider. Do not repair complaint valve without producers agreement

