

USERS MANUAL

BUTTERFLY VALVE

Fig. 497, 498

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Fig. 497 (wafer type)

Fig. 498 (lug type)

1. PRODUCT DESCRIPTION



Butterfly valves are provided with casted marking. The marking facilitates technical identification and contains:

- diameter nominal DN (mm),
- pressure nominal PN (bar),
- body material marking,
- manufacturer marking.

2. REQUIREMENTS FOR MAINTENANCE STAFF

The staff assigned to assembly, operating and maintenance tasks should be qualified to carry out such jobs. If the valve is provided with mechanical actuators, operating manual of actuator should be obeyed.

3. TRANSPORT AND STORAGE

- Handle with care. Keep in a dry place.
- During the storage the valve disc must be half open (Fig 1).
- Avoid, especially on the most softest parts (handles, wheels, reducers / actuators).
- Do not use the most softest parts (handle, wheel) to lift the valve.

4. FUNCTION

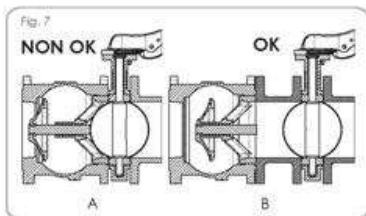
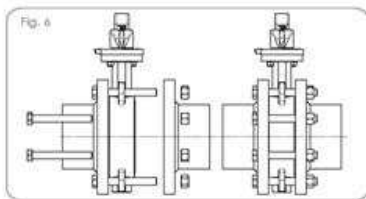
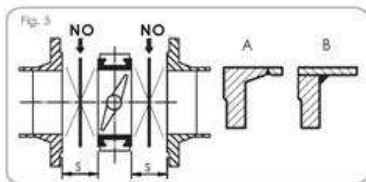
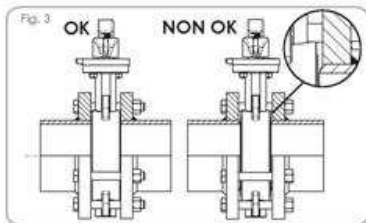
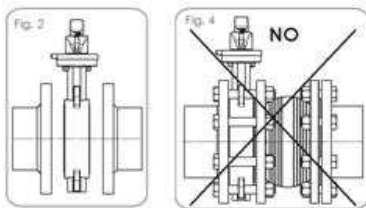
Butterfly valves have a throttle and shut-off function.

5. APPLICATION

For water systems, heating, conditioning, fire prevention and gas. Not suitable for steam. For specific uses ask the manufacturer about product compatibility.

6. ASSEMBLY

Avoid inclinations, torques and non-alignments of the piping which could stress the valve once installed. Do not use the softest parts (handle, wheel) to lift the valve. The valve disc must be half open (Fig. 1). Place the valve between two flanges. When placing valves between flanges, make sure that there is enough space not to damage rubber. Do not install gaskets between valve and flanges. (Fig. 2). Protruded sharp ends shall be strictly avoided as it causes damage on/off rubber seating surfaces of the butterfly valve (Fig. 3). Do not install the butterfly valve on a rubber to rubber surface (e.g. expansion joints); the perfect installation shall be on rubber to metal surface (Fig. 4). Do not place joints between flange and body - We recommend the use of flanges of the WELDING NECK type (Fig 5A). When using flat flanges make sure the pipe is welded exactly edgewise with the flange (Fig. 5B). Centre the valve by bolting the body locator first (Wafer type). Tighten bolts and nuts in progressive and crosswise with bolting pressure evenly distributed until the contact between valve body and flange faces (Fig. 6). Pressure shocks can cause damages and breakage. We recommend to avoid them if possible or adopt expansion joints that could reduce pressure shocks' effects. For the LUG type, please verify that the installation screws are of the right longness, in order to allow the complete compression of the liner rubber. The fluid turbulence may increase the wear and reduce the valve endurance. In order to reduce the instance it is recommended to install the valve at a distance equal to at least 1 time the DN upstream and 2-3 DN downstream of fittings and bends. In open position the valve shows a greater space occupied than the nominal face to face. You need to verify that there aren't interferences with other elements of the piping which could cause damages or malfunctions (Fig. 7A). In this case you need to set up a spacer to permit the right functioning (Fig. 7B).



7. MAINTENANCE



Before to proceed in any intervention of maintenance or disassembly: wait the cooling of the piping, the valve and the fluid, let the pressure escape and drain line and piping in the presence of poisonous, corrosive, inflammable and caustic fluids. Temperature over 50°C and under 0° C can cause damages to people.

8. SERVICE AND REPAIR

No maintenance required (do not service).

9. VALVE SERVICE DISCONTINUITY

All obsolete and dismantled valves must not be disposed with household waste. ZETKAMA valves are made of materials which can be re-used and should be delivered to designated recycling centres.

10. WARRANTY TERMS

- ZETKAMA grants quality warranty with assurance for proper operation of its products, providing that assembly of them is done according to the users manual and they are operated according to technical conditions and parameters described in ZETKAMA's catalogue cards. Warranty period is 18 months starting from assembly date, however not longer than 24 months from the sales date.

- warranty claim does not cover assembly of foreign parts and design changes done by user as well as natural wear.

- immediately after detection the user should inform ZETKAMA about hidden defects of the product

- a claim should be prepared in written form.

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