



KEYSTONE PED - OPERATING AND SAFETY INSTRUCTIONS

RESILIENT SEATED BUTTERFLY VALVES

Before installation, these instructions must be fully read and understood

HAZARD POTENTIALS

- Disregarding of instructions
- Improper use of product
- Insufficiently qualified personnel

Ensure that valve materials are compatible with the pipeline fluid.

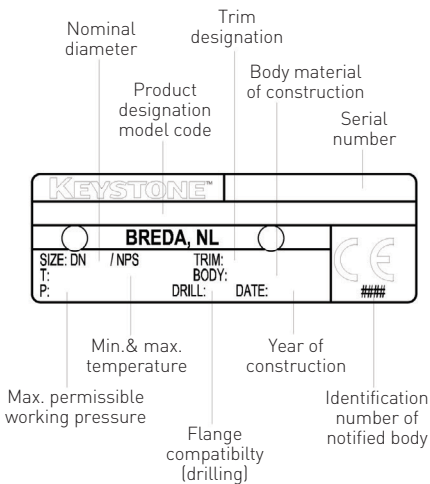
Valve application to be within the pressure/temperature limits indicated in the P/T diagram of the Product Manual.

If in doubt contact factory.

Check the valve's functionality on a regular basis.

When the valve is used in an end-of-line function, PED Cat-I applications are allowed only. For other categories, contact factory.

Tagplate



PRECAUTIONS

WARNING

For safety reasons, it is important to take the following precautions before you start work on the valve:

1. Personnel making any adjustments to the valves should utilize suitable equipment. All required personal protection means should be worn.
2. The line must be depressurized before installing the valve. In case of dangerous pipeline fluids, the pipeline should be drained and flushed properly with an appropriate cleaning fluid.
3. Personnel trained in all aspects of manual and mechanical handling techniques must carry out handling of all valves.
4. Misuse of the valve is not allowed. For example: the valve, handles, actuators or other parts may not be used as 'climbing tools'.
5. Ensure the valve pressure/temperature specification as indicated on the identification label, is within the pressure/temperature limits of the application. A full pressure/temperature diagram can be obtained from the Product Manual. With the use of the figure and trim number on the valve's identification label, the correct diagram can be found.
6. Ensure that valve materials are compatible with the pipeline fluid.

INSTALLATION

1. Handling and lifting should be performed according the Maintenance and Installation Instructions.
2. Keystone valves are bi-directional unless fitted with a flow direction arrow. If a directional arrow is fitted then the valve must be installed with the arrow pointing in the direction of the flow.
3. For detailed installation instructions refer to the Maintenance and Installation Instructions for the specific product.
4. Preferred installation position of butterfly valves is the shaft horizontal and the lower disc-edge opening downstream.
5. Do not use the valve to spread the flanges.
6. Instructions whether to use or omit flange gaskets are stated in the Maintenance and Installation Instructions.

7. In case the valve is used as spool piece during erection of piping, do not finish weld the flanges to the pipes with the valve bolted between the flanges as this will result in serious heat-damage to the seat.
8. Valve operation should be checked for open - close positions. The disc should have enough clearance from the pipeline in all positions.
9. In case of CompoSeal valves:
 - a. Do not overtighten the flange screws. See the specific Installation and Maintenance Instructions for maximum allowable bolting torque.
 - b. Do not use CompoSeal valves in area's sensitive to earthquakes.

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MAINTENANCE

!! Read all warning labels fitted to the valve before operation or maintenance !!

Check the valve's functionality on a regular basis.
No additional routine maintenance is required.

REPAIR

WARNING

The line must be depressurized before carrying out any repairs to the valve. In case of dangerous pipeline fluids, the pipeline should be drained and flushed with an appropriate cleaning fluid. Failure to do so may cause serious personal injury and/or equipment damage. Before disassembling the valve ensure the valve has been decontaminated correctly from any harmful gasses or liquids and that it is within a safe temperature range for handling. Personnel making any adjustments to the valves should utilize suitable equipment. All required personal protection means should be worn. Only qualified personnel trained in all aspects of manual and mechanical handling techniques must carry out lifting and handling of valves. Use Keystone original spare parts only. For detailed information on valve (dis)assembly and part replacement, refer to the Maintenance and Installation Instructions.

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