



KEYSTONE PED - OPERATION AND SAFETY INSTRUCTIONS

KEYSTONE SERIES 36/37 K-LOK HIGH PERFORMANCE BUTTERFLY VALVES

Before installation, these instructions must be read fully and understood

PRECAUTIONS

WARNING

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

1. Personnel making any adjustments to the valves should utilize proper equipment and wear all necessary personal protective equipment (PPE) normally used to work with the process where the valve is installed.
2. The piping must be depressurized, drained and vented before installing the valve, to avoid injuries and spillage of process fluid.
3. Personnel trained in all aspects of manual and mechanical handling techniques must carry out handling of all valves.
4. Verify the pressure/temperature limitations of the valve are within the process design conditions. Limitations are shown on the nameplate of the valve. Users can also refer to the limitations shown on P/T diagrams in the product data sheet.
5. Verify the valve's material of construction, shown on the name plate, are compatible with the process fluid.
6. Misuse of the valve is not allowed.
7. Examples of misuse include using the valve, handles, actuators or other parts as climbing tools, tie offs or leverage devices.

INSTALLATION

Detailed instructions are shown in the product manual and installation and operating instructions.

1. Flush the piping system clean to remove dirt, scale, weld wire and other foreign debris which will damage the valve during operation.
2. Wafer body style valves are suitable for bi-directional shutoff once installed between two flanges. Lug body style valves are suitable for bi-directional end-of-line shutoff.
3. Remove protective covers from valve faces, and verify the valve is fully closed.
4. Verify mating flanges, valve faces and gaskets are clean and undamaged.
5. Verify mating pipe flanges are aligned.
6. Spread the piping to allow the valve to slip between the mating flanges without interference. Do not use the valve as a lever, crowbar or wedge.

7. Tighten the flange bolts in a cross bolt diagonal pattern.
8. Check the valve operation to verify there is no interference between disc and mating flanges/pipe.

IMPORTANT

Do not finish weld the flanges in the pipe with the valve in place. If required for alignment considerations, the mating flanges can be tack welded to the pipe with the valve located in place. The valve shall be removed after tack welding for final welding of the flanges. Proper protection of the valve interior shall be taken during tack welding to protect the valve. Cleaning of the line after welding shall be completed prior to installation of the valve.

STORAGE AND PROTECTION

Packed valves are to be stored off the ground in a clean, dry, indoor area. Valves are delivered with protection covers, which should be left in place until fitting to the pipe.

OPERATION AND MAINTENANCE

K-LOK valves are clockwise to close. Actuators on valves are set at the factory, if equipped. No routine maintenance is required other than periodic inspection to ensure satisfactory operation and sealing. Any sign of leakage from packing gland should be addressed immediately by tightening the gland bolts evenly. If leakage continues, please refer to the product manual.

SPARE PARTS

Only use OEM Keystone spare and replacement parts. For detailed information please refer to the product manual. References on the valve name plate shall be quoted for any spare parts inquiry.

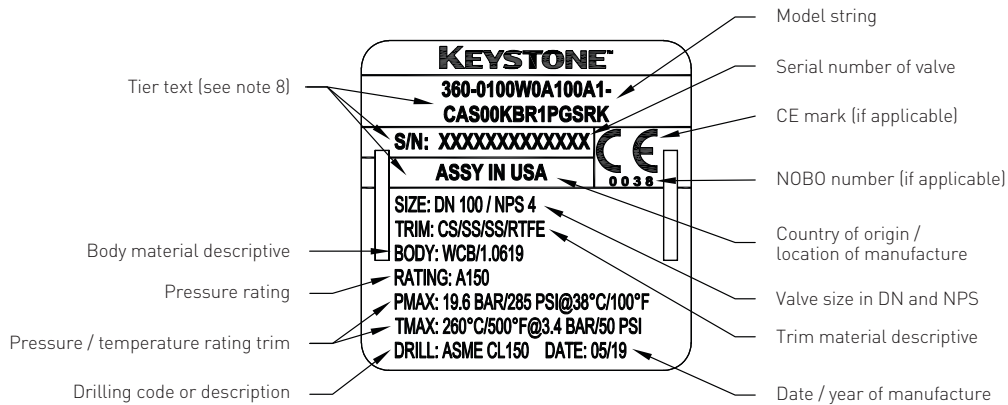
REMARK

Please see also next page for name plate information.

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NAME PLATE EXAMPLE



PRODUCT LIST

| Size | Fluid group | | | | Category | Ref. Product Manual |
|-----------|----------------|----------------|-------------------|-------------------|----------|------------------------|
| | Gas Group 1 | Gas Group 2 | Liquid Group 1 | Liquid Group 2 | | |
| DN 50-300 | X | X | X | X | 3 (III) | VCTDS-00743-EN |

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