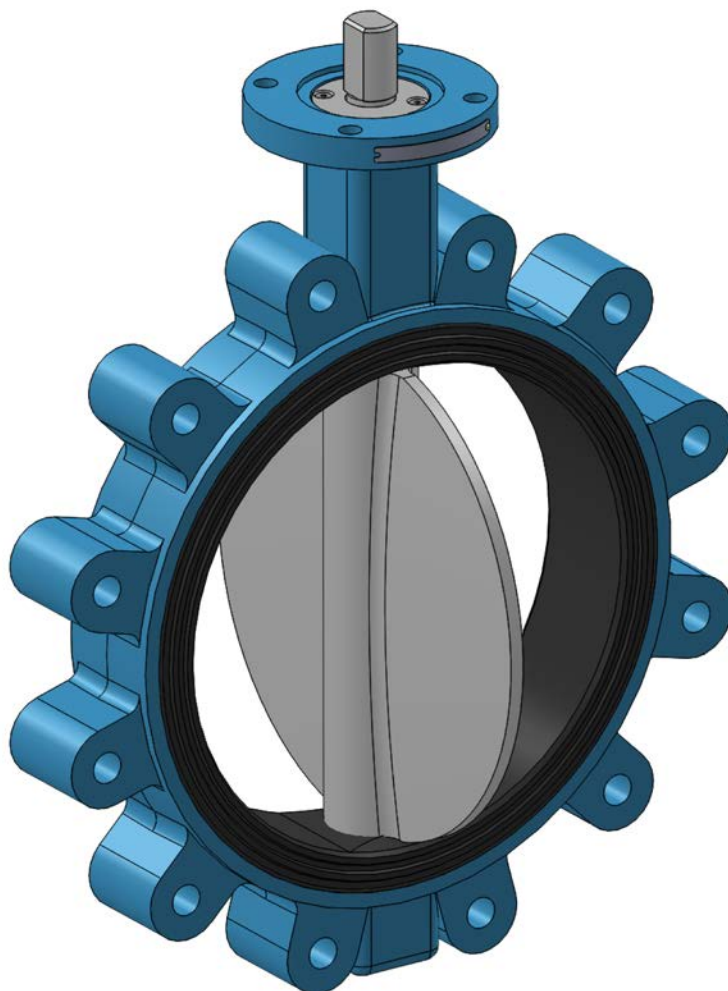




DeZURIK 2" THRU 24" BOS-CL BUTTERFLY VALVES



Instruction D10500
September 2015

Instructions

These instructions provide information about BOS-CL Butterfly Valves. They are for use by personnel who are responsible for installation, operation and maintenance of BOS-CL Butterfly Valves.

Safety Messages

All safety messages in the instructions are flagged with an exclamation symbol and the word Caution, Warning or Danger. These messages indicate procedures that must be followed exactly to avoid equipment damage, personal injury or death.

Safety label(s) on the product indicate hazards that can cause equipment damage, personal injury or death. If a safety label becomes difficult to see or read, or if a label has been removed, please contact DeZURIK for replacement label(s).



WARNING!

Personnel involved in the installation or maintenance of valves should be constantly alert to potential emission of pipeline material and take appropriate safety precautions. Always wear suitable protection when dealing with hazardous pipeline materials. Handle valves, which have been removed from service, with suitable protection for any potential pipeline material in the valve.

Inspection

Your BOS-CL Butterfly Valve has been packaged to provide protection during shipment, however, it can be damaged in transport. Carefully inspect the unit for damage upon arrival and file a claim with the carrier if damage is apparent.

Parts

In the event that the valve requires replacement, contact your DeZURIK sales representative. When ordering, please include the 7-digit part number and 4-digit revision number (example: **9999999R000**) located on the data plate attached to the valve assembly.

DeZURIK Service

DeZURIK service personnel are available to install, maintain and repair all DeZURIK products. DeZURIK also offers customized training programs and consultation services.

For more information, contact your local DeZURIK sales representative or visit our website at www.dezurik.com.

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This Drinking Water System Component is tested and certified by WQA against NSF/ANSI Standard 61 and NSF/ANSI Standard 372.

Description

The BOS-CL Butterfly Valve is a resilient-seated valve for general industrial applications. Lugged or wafer end connections are offered, with a choice of disc and seat materials. Pressure and temperature ratings are shown on the valve data plate.

Installation

Refer to the valve installation drawing for dimensional information.



WARNING!

For dead-end or end-of-line service, a flange must be attached to the downstream side of valve.

- Installing the valve in the wrong location may cause excessive dynamic torque and damage the valve. Install the valve at least 8 pipe diameters downstream from the nearest pump or elbow.
- Pipeline flow may be in either direction through the valve. If possible, install the valve with the shaft horizontal to provide a self-cleaning action on the seat.
- Use pipeline flanges that conform to ANSI Class 125 or ANSI Class 150.
- Mount wafer body valves to the pipeline flanges with either bolts or studs that extend through both flanges:
- Mount lugged body valves to the pipeline flanges with bolts only. Studs are not recommended.



CAUTION!

Lifting a larger size valve incorrectly can damage it. Do not fasten lifting devices to the actuator or disc, or through the seat opening in the body. Lift the valve with slings fastened around the valve body, or attach them to bolts or rods run through holes for the pipeline flanges.

1. If the valve has been ordered without an actuator, mount the actuator on the valve.
 - For a DeZURIK actuator, refer to the Actuator Instructions.
 - For an actuator other than DeZURIK, the dimensional requirements for the actuator interface are shown on the Installation Drawing for the valve.
2. Before installation, remove all foreign material such as weld spatter, oil, grease, and dirt from the valve, flanges, and pipeline.
3. Open the valve, and clean the seat and the sealing edge of the disc.
4. Place the valve in the pipeline with the valve closed. Handle the valve carefully so that the integral flange sealing surfaces are not scratched or damaged. Do not use gaskets between valve and mating flanges.
5. Ensure that the valve, the pipeline and the mating connections are aligned and centered before tightening the pipeline bolts.
6. Open the valve slowly to ensure that there is adequate clearance between the open disc and the pipeline.
7. Tighten the bolts evenly, in a crisscross pattern.

Operation

Clockwise rotation of the valve shaft closes the disc into the seat. The valve is fully closed when the disc is parallel with the flange sealing surface on the body. The valve is fully open when the disc is 90° counterclockwise from the closed position. Another indication that the valve is in the closed position is when the flats of the double “D” shaft end are parallel with the flange sealing surface on the body. The double “D” shaft end flats may be used to determine the approximate position of the disc when the disc is not visible.

The valve actuator is connected to the valve shaft, and positions the disc at the open, closed, or intermediate positions. The adjustable open and closed position stops in the valve actuator are set to match the open and closed positions of the valve. Refer to the Actuator Instructions for actuator stop adjustment information.

Lubrication

The valve is lubricated at the factory, and does not require routine lubrication. Refer to the actuator instructions for actuator lubrication requirements.

Removing Valve from Pipeline

Follow the steps below to remove the valve from the pipeline.



WARNING!

Loosening the flange bolts on a pressurized valve can allow the valve to suddenly shift position and release uncontrolled pipeline fluid. To avoid personal injury or pipeline damage, relieve the pressure in the pipeline before loosening the pipeline flange bolts.

1. Relieve pressure in the pipeline, and drain the pipeline.
2. Close the valve.



WARNING!

Moving parts from accidental operation of a powered actuator can cause personal injury or equipment damage. Disconnect and lock out power to actuator before servicing.

3. If the actuator is powered, disconnect and lock out the pneumatic, hydraulic, or electrical power to prevent accidental operation.
4. Support the valve, remove the flange bolting, and remove the valve from the pipeline. Refer to the lifting requirements in the “*Installation*” section.

Troubleshooting

Condition	Possible Cause	Corrective Action
Valve does not fully close	Object is wedged between disc and seat	Open valve, and allow flow to remove object
	Closed position stop is not adjusted correctly	Adjust closed stop
	Disc-to-shaft connection has failed.	Replace valve
Valve leaks when closed	Closed position stop is not adjusted correctly	Adjust closed stop
	Seat is worn or damaged.	Replace valve
	Sealing edge of disc is worn or damaged	Replace valve
Valve does not fully open	Open position stop is not adjusted correctly	Adjust open stop
	Disc-to-shaft connection has failed	Replace valve
Valve leaks between body and pipeline flanges	Valve flange seal is damaged	Replace valve
	Flange bolts are tightened incorrectly	Tighten the flange bolts evenly, in a crisscross pattern
	Flange gaskets were used between valve and pipeline flanges	Remove flange gaskets
Media leaks between actuator and top of valve	O-ring leaking at top of shaft	Replace valve

Guarantee

Products, auxiliaries and parts thereof of DeZURIK, Inc. manufacture are warranted to the original purchaser for a period of twenty-four (24) months from date of shipment from factory, against defective workmanship and material, but only if properly installed, operated and serviced in accordance with DeZURIK, Inc. recommendations. Repair or replacement, at our option, for items of DeZURIK, Inc. manufacture will be made free of charge, (FOB) our facility with removal, transportation and installation at your cost, if proved to be defective within such time, and this is your sole remedy with respect to such products. Equipment or parts manufactured by others but furnished by DeZURIK, Inc. will be repaired or replaced, but only to the extent provided in and honored by the original manufacturers warranty to DeZURIK, Inc., in each case subject to the limitations contained therein. No claim for transportation, labor or special or consequential damages or any other loss, cost or damage shall be allowed. You shall be solely responsible for determining suitability for use and in no event shall DeZURIK, Inc. be liable in this respect. DeZURIK, Inc. does not guarantee resistance to corrosion, erosion, abrasion or other sources of failure, nor does DeZURIK, Inc. guarantee a minimum length of service. Your failure to give written notice to us of any alleged defect under this warranty within twenty (20) days of its discovery, or attempts by someone other than DeZURIK, Inc. or its authorized representatives to remedy the alleged defects therein, or failure to return product or parts for repair or replacement as herein provided, or failure to install and operate said products and parts according to instructions furnished by DeZURIK, Inc., or misuse, modification, abuse or alteration of such product, accident, fire, flood or other Act of God, or failure to pay entire contract price when due shall be a waiver by you of all rights under this warranty.

The foregoing guarantee shall be null and void if, after shipment from our factory, the item is modified in any way or a component of another manufacturer, such as but not limited to, an actuator is attached to the item by anyone other than DeZURIK, Inc. Factory Service personnel. All orders accepted shall be deemed accepted subject to this limited warranty, which shall be exclusive of any other or previous Warranty, and this shall be the only effective guarantee or warranty binding on DeZURIK, Inc., despite anything to the contrary contained in the purchase order or represented by any agent or employee of DeZURIK, Inc., in writing or otherwise, notwithstanding, including but not limited to implied warranties.

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Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

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