



**DeZURIK BOS-CL ON-CENTER
RESILIENT SEATED
BUTTERFLY VALVES**



Design and Construction

BOS-CL On-Center Resilient Seated Butterfly Valves are designed to handle a wide variety of liquids and gases. They are available in lugged 2-24" (50-600mm) or flanged 26-48" (650-1200mm) Ductile Iron body design with discs of nylon coated ductile iron, 316 stainless steel or aluminum bronze. BOS-CL valves feature a one-piece body, high performance seat bonded to a solid backing ring, three heavy duty bearings, and a blow-out proof shaft.

Applications

BOS-CL Resilient Seated Butterfly Valves are suitable for many industrial applications such as water treatment, power, mining, pulp and paper, automotive and other general service applications where heavy-duty resilient seated butterfly valves are required.

Pressure Ratings:

Ductile Iron Nylon Coated or 316 Stainless Steel Discs

2-12" (50-300mm) 175 psi (1210 kPa)

14-48" (350-1200mm) 150 psi (1030 kPa)

Aluminum Bronze Discs

2-48" (50-1200mm) 150 psi (1030 kPa)

Temperature Ratings:

NBR 2-48" (50-1200mm): -20 to 180°F (-29 to 82°C)

EPDM 2-24" (50-600mm): -20 to 250°F (-29 to 121°C)

On-Center Seat Design Provides Bi-Directional Shutoff

On-Center Seat design provides a streamlined disc with high flow capacity. Designed for both on-off and throttling, the BOS-CL provides bi-directional shutoff to the full rating of the valve. BOS-CL Valves provide bubble tight shutoff, and can be used on dead end service with downstream flange attached. On valve sizes 26" (650mm) and larger, valve is rated to 50 psi (320 kPa) dead end service when downstream flange is not used. For high strength and corrosion resistance, three disc material choices are available: Ductile Iron Nylon Coated, 316 Stainless Steel and Aluminum Bronze.



Ductile Iron Nylon Coated



316 Stainless Steel



Aluminum Bronze

Superior Bonded Seats

The BOS-CL seat bonding process ensures the seat is held firmly in place and provides a long lasting, maintenance free seal. The seat is bonded to a rigid backing ring which reduces flexing and fatigue. The bonded seat also improves performance when the line maintains a vacuum, or when handling viscous liquids – circumstances that tend to dislodge seats that are not solidly retained. BOS Valves have integral flange seals, eliminating the need for flange gaskets.

Heavy-Duty Bearings Ensure Smooth Operation

Three heavy-duty bearings ensure smooth, reliable valve operation and promote a longer cycle life than valve designs without bearings. Shaft seals protect bearings from internal and external corrosion.

Shaft Seals

The BOS-CL shaft sealing technology offers maximum reliability. It uses multiple separate sealing components for continuous protection from leakage. Disc hubs form the primary seal around the shaft. In addition, seals are molded into the seat ring followed by o-rings to ensure reliability.



Blowout Proof Shaft

For user safety, the BOS-CL resilient seated butterfly valve has a proven shaft retaining system that provides a blowout proof shaft per API 609.

Quality Testing and Standards

Every BOS Valve is tested for shell and seat leakage and comes with a 2-year warranty.



Compatible with Standard Actuators

The actuator mounting flange on BOS-CL valves is compatible with the ISO 5211 bolt pattern which increases flexibility and reduces inventory. Actuator options include lever, handwheel, chainwheel, PowerRac® double acting and spring return cylinders, Compak™ double acting and spring return cylinder and G-Series Cylinder actuators.

AM-Series Manual Gear

Manual Gear actuators provide high torque for robust applications and a long service life without maintenance. Handwheel or chainwheel operation is available.



PowerRac® Cylinder Actuators

Double-acting and spring-return PowerRac® actuators feature a proven rack-and-pinion design ideally suited for high cycle applications. PowerRac® actuators provide high output torque for on-off applications and consistently high output torque throughout the full stroke for accurate control. Its durability is backed by a Lifetime Warranty.



Compak™ Cylinder Actuators

The compact, modular design allows the Compak™ actuator to be mounted for a low profile assembly.

Compak™ actuators are a versatile double rack-and-pinion design and are available as double-acting or spring-return units.



G-Series Cylinder Actuators

G-Series actuators feature a rack-and-gear design for larger size rotary valves where constant high torque capability throughout the stroke is required. They are available as double-acting with either pneumatic or hydraulic supply.



Accessories

A full line of accessories are also available, including positioners, solenoids, switches, speed controls, floorstands and valves boxes.

Sales and Service

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

Web Site: www.dezurik.com E-Mail: info@dezurik.com



250 Riverside Ave. N. Sartell, Minnesota 56377 • Phone: 320-259-2000 • Fax: 320-259-2227

DeZURIK, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing by DeZURIK, Inc. Certified drawings are available upon request.