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SOLUTIONS FOR DESALINATIONS

BELGICAST valves play a critical role at each phase of the RO Desalination plants to ensure the system operates smoothly and efficiently.



LEZAMA HQ

TOLEDO

ITALIA

PORTUGAL

KSA

DUBAI



SAUDI
MADE

APPLICATIONS

Belgicast manufactures high-quality valves that play a crucial role in the desalination process. These valves are essential for controlling the flow, ensuring optimal pressure and preventing leaks during the different stages. The durability and reliability of Belgicast valves contribute to the efficiency of desalination systems, which are vital for providing clean drinking water in regions facing water scarcity. By integrating advanced materials and technology, Belgicast valves support the sustainable operation of desalination plants, ultimately helping to meet the growing demand for fresh water in various parts of the world.

PRODUCTS

Belgicast valves are used from the Seawater intake to pre-treatment phase, regulating the flow of seawater and the pressure required for filtration. In the high-pressure stage, Belgicast high-pressure check valves are essential to protect the system. After the Reverse Osmosis unit, our valves are used in the pos-treatment to purify the permeate and generate potable water, meeting the drinking water certifications. By providing precise flow control and enhancing the reliability of the system, valves contribute significantly to the overall efficiency and effectiveness of reverse osmosis desalination plants.

Belgicast valves for desalination:

- Rubber Seated Butterfly Valves
- High & Low Pressure Check Valves
- High Performance Butterfly Valves
- High Pressure Ball valves
- Knife Gate valves



GREAT GOLD BUTTERFLY VALVE

FEATURES

- Different disc and liner materials make it very versatile and suitable for different fluids.
- Low opening torque.

TECHNICAL DATA

DN: 40 – 2400 mm | **Design Pressure:** up to 16 bar (20 bar upon request)
Disc: Superduplex ASTM995 5A (PREN>40), ASTM CF8M, CF3M, HALAR coated
Liner: EPDM, NBR, VITON, SILICONE | **Shaft:** AISI 40 (A182 F55 superduplex option)
Service: ON/OFF and Control | **Actuator:** Manual, Pneumatic, Electric



DUAL PLATE CHECK VALVES

FEATURES

- Different versions for High and Low pressure.
- Internal rubberized body available.

TECHNICAL DATA

DN: 40 – 1800 mm | **Design Pressure:** up to 100 bar
Body: ASTM 995 5A Super-duplex (PREN>40) ASTM CF8M/CF3M
Plates: ASTM 995 5A Super-duplex (PREN>40) ASTM CF8M/CF3M
Shaft: Superduplex A182 F55, A316L | **Service:** Inconel 625, A316
Seat: EPDM, NBR, Viton

HIGH PERFORMANCE BUTTERFLY VALVE

FEATURES

- Suitable for high pressure requirements.
- Metal to metal seat available.

TECHNICAL DATA

DN: 40 – 600 mm | **Design Pressure:** up to 50 bar
Body: ASTM995 5A (PREN>40), ASTM CF8M, CF3M | **Liner:** RPTFE
Shaft: A182 F55 superduplex, AISI 316 | **Service:** ON/OFF and Control
Actuator: Manual, Pneumatic, Electric

KNIFE GATE VALVE

FEATURES

- Bidirectional.
- Wafer type for high concentration fluids, including seawater sludge.

TECHNICAL DATA

DN: 50 – 600 mm (others on request)
Design Pressure: up to 16 bar (depending on diameters)
Body: ASTM A182-F53, AISI 316 (1.4401) | **Knife:** ASTM A182-F53, AISI 316 (1.4401)
Seat: EPDM, Nitrile | **Actuator:** Manual, Pneumatic, Electric



BALL VALVES

FEATURES

- Design for high and low pressure.
- With threaded (NPT), welded (SW), and flanged (RF, FF) ends.

TECHNICAL DATA

Manufacturing and design: API 608 | **DN:** DN15(1/2") – DN200 (8")
Design pressure: up to 100 bar (800Lbs) | **Ends:** NPT, SW,BW, RF, FF
Flange connection: ASME B16.5 (class150, 300, 600)
Body: Superduplex ASTM A182 F53 , ASTM A182-F316L
Ball: Superduplex ASTM A182 F53 , ASTM A182-F316L | **Seat:** PTFE
Actuator: Manual, pneumatic, electric

