

Flow to the future

SWING CHECK VALVE - 2024 / EN



Ocean
Series

Swing Check Valve



Dikkanvalve



Flow to the future



We design our products by taking into consideration the continuity of life and water, which is an integral part of the life itself, and undertaking the responsibility of the life.

We design future friendly products and produce them for sustainable life. Oceans have become an inspiration for the designs of our products, as they are for our planet being called the "Blue Planet", whose three quarters are comprised of water and which is blue looking at it from the space. We are manufacturing for the life by designing future- friendly products.

We use the excellence, creativity, technology and sustainability in the oceans' wisdom, habitat and natural cycle in our Ocean Series products.



Ocean Series Swing Check Valve

Swing check valves have many uses, from sewage systems and wastewater treatment to raw water systems.

A swing check valve is a simple device designed for the one-way flow. It has a disc that swings on a hinge or key system, opening to allow fluid to flow in, then closing to prevent backflow. Swing check valves are designed in a variety of sizes with different features to suit specific application types. There are also some slight variations on the swing design that better suit particular situations.

Swing check valves are among the most common types of check valves and are frequently used to manage a high horizontal flow. The fluid's pressure opens the disc to allow the water through. After the flow stops, the disc swings back into its closed position, resting against the valve's seat and preventing backflow. The pressure of any backflow also serves to close the disc. This prevents backflow and damage to the pump.



Design Characteristics & Benefits

- Full-bore
- Adjustable counter weight
- + Less pressure loss
- + Full bore even on low pressure



%100 Flow area

Design Characteristics & Benefits

- Gland packing or with O-Ring sealing system advantage
- High sealing performance with slanted seat design
- Standard design to put limit switch on a stainless steel sheet metal
- Shaft – Disc connection with key + pin system



Flexibility

- Metal seated and/or rubber seated
- Suitable for horizontal or vertical applications
- Locating lever and weight for both in flow direction
- Lever & weight on both sides



Accessories

- Protection cage (Stainless Steel or Galvanized Steel)
- Automatic Air Release Valve
- Hydraulic Piston

Technical Data

Swing Check Valve

Face-to-face dimension

- Series 48 or BS

Sizes

- DN 200 - DN 600 PN 10
- DN 32 - DN 150 PN 16

Flange Drilling

- PN10 to PN16 acc.
- to EN 1092-2

Medium Temperature

- 0°C to 80°C

Coating:

- Fusion bonded epoxy 300 µm WRAS (powder epoxy)

Materials

- Internal / External Fixings in A4
- Shaft 1.4021, optional 1.4057, Duplex; AISI 316
- Sealings EPDM as optional NBR or Metal Seated
- Body/disc EN-GJS-400-15, as optional EN-GJS-500-7, EN-GJS-400-18-LT

Connection and flanges

- ANSI, BS, AS flanges

Application Areas

- Water treatment
- Pump stations
- Reservoirs
- Pipelines

Ocean Series Swing Check Valve

DN [mm]	Flange Connection	ØD [mm]	L [mm]	H [mm]	C [mm]	Weight [kg]
32	PN16	140	180	95	200	7
40	PN16	150	180	95	200	9
50	PN16	165	200	100	200	11
65	PN16	185	240	115	300	16
80	PN16	200	260	135	300	24
100	PN16	220	300	145	300	29
125	PN16	250	350	160	400	41
150	PN16	285	400	185	400	60
200	PN10	340	500	270	500	120
250	PN10	395	600	320	500	172
300	PN10	445	700	350	500	280
350	PN10	505	800	435	670	380
400	PN10	565	900	475	900	590
500	PN10	670	1100	570	1100	990
600	PN10	780	1300	670	1100	1200





Dismantling Joint



Double Eccentric
Butterfly Valve



Swing Check Valve

Dikkanvalve

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