

DUAL PLATE CHECK VALVE

Check Valves are self-acted by the media pressure and are devised to prevent the flow return to the pressurized side of the system. Wafer Dual Plate Check valves are featured as a light and economic option to be used on industrial and waste treatment plants.



Technical specifications

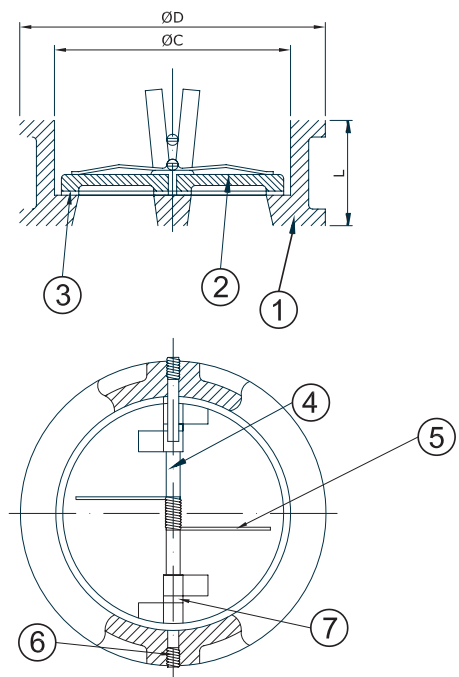
- ✓ Wafer body desing rugged and easy to handle.
- ✓ Nickel plated plate surface or St. Steel.
Integral rubber facing gaskets, no need to use additional gaskets.
- ✓ Unidirectional Design (observe direction of arrow on valve commissioning).
- ✓ Standard Design pressure: PN16 (PN10 from DN 350 onwards), PN10 (DN 350-600)
- ✓ Size range: DN50-600.
- ✓ Standard installation between flanges EN 1092 PN 10-16 other flange standard on request.

Independent mechanism

Its water design suitable to installation between flanges makes these valves quite a prime option especially on large diameters. Two tiling plates loaded by a spring are stopping the fluid and preventing it from returning to the pressurized side of the installation. They are featured by a low pressure drop if compared to other conventional wafer type check valves.

Disassembly

	DESCRIPTION	MATERIAL
1	Body	Cast iron
2	Discs	Ductile cast iron
3	Seat	NBR
4	Shaft	Stainless steel
5	Spring	Stainless steel
6	Stud	Galvanised carbon steel
7	Bush	PTFE



Dimensions

DN		L	ØD	ØC	WEIGHT
mm	in		mm		kg
50	2"	43	109	70,5	2
65	2-1/2"	46	129	83,5	2
80	3"	64	144	91,5	3
100	4"	70	165	115,5	4,5
125	5"	76	194	142,5	7
150	6"	89	220	169,5	11
200	8"	114	275	220,5	18
250	10"	114	330	275,5	29
300	12"	127	380	325,5	33
350	14"	140	440	356	71
400	16"	152	491	406	99
450	18"	152	541	468	118
500	20"	152	596	515	180
600	24"	222	698	617	549

Opening pressure

DN		ΔPC FOR HORIZONTAL FLOW	ΔPC FOR VERTICAL FLOW UPWARDS
mm	in	mbar	
50	2"	230	117
65	2-1/2"	290	142
80	3"	310	163
100	4"	350	194
125	5"	400	248
150	6"	480	280
200	8"	600	346
250	10"	730	433
300	12"	850	480
350	14"	350	194
400	16"	400	240
450	18"	480	280
500	20"	600	346
600	24"	730	433

Installation instructions

It is recommended not to connect the valve directly to other valves and/or equipment, respecting the distances below.

Allow at least 6 times the nominal diameter of the valve, if the valve is installed downstream of a pump, valve, elbow, branch or reduction.

Allow at least 2 times the diameter, if the valve is installed upstream of a pump, valve, elbow, bifurcation or reduction.

To ensure tight shut-off, a back pressure of 2 bar or higher is recommended.

In case of vertical installation, the flow must be upward.

It is recommended to use appropriate systems to protect the sealing surfaces from possible impurities in the system.

The installation must be designed to avoid high velocities, respecting the working conditions.