



CI WAFER DUALPLATE CHECK VALVE SS DISC PN16

Dual Plate Wafer Check Valve · Cast Iron Body · Stainless steel 316 Disc · PN16

BRAND: SW FLOW CONTROLS

SKU: SW-0402

SIZE 2" TO 24"

PN16

WAFER



FIG. 1 | CI WAFER DUALPLATE CHECK VALVE SS DISC PN16

PRODUCT OVERVIEW

The dual plate check valve uses two spring loaded half discs hinged on a central stem. The short travel and the spring assistance close the valve before the flow reverses, which greatly reduces the slam and the pressure surge that a swing check produces on pump trip.

The wafer body is clamped between two flanges, so the valve is far shorter and lighter than a flanged swing check of the same size. The stainless steel 316 disc suits sea water, treated water and mildly corrosive media where a ductile iron disc would not last.

Product type **Dual plate check valve, wafer**

Body material **Cast iron**

Disc material **Stainless steel 316**

Pattern **Wafer, clamped between flanges**

Pressure rating **PN16**

Size range **2" to 24" (DN50 to DN600)**

TECHNICAL SPECIFICATION

Body	Cast iron	Pressure rating	PN16
Disc	Stainless steel 316	Flange matching	DIN PN16 drilling
Stem	Stainless steel 416 or 316	Also available	ANSI 125 drilling
Spring	Stainless steel 316	Mounting	Horizontal or vertical, flow upward
Seat / gasket	PTFE	Closure	Spring assisted, non slam
Pattern	Wafer	Size range	DN50 to DN600

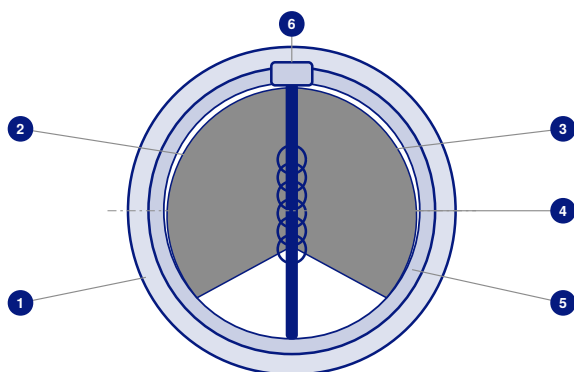


PRODUCT DATA SHEET

CI WAFER DUALPLATE CHECK VALVE SS DISC PN16

Ref. SW-0402 | Rev. 01

BILL OF MATERIALS



#	COMPONENT	MATERIAL
1	Body	Cast iron
2	Disc (2 nos.)	Stainless steel 316
3	Stem (2 nos.)	Stainless steel 416 or 316
4	Spring (2 nos.)	Stainless steel 316
5	Gasket	PTFE
6	Lifting lug	Carbon steel

Body, disc and trim can also be supplied in ductile iron, WCB carbon steel or CF8M stainless steel against enquiry. The lifting lug is fitted on the larger sizes.

FIG. 2 | SECTIONAL ARRANGEMENT, PRINCIPAL COMPONENTS
NUMBERED PER THE BILL OF MATERIALS

DIMENSIONS AND WEIGHTS

DN	SIZE	D (MM)	D1 (MM)	D2 (MM)	L (MM)	R (MM)	T (MM)	WEIGHT (KG)
50	2"	107	65	40	43	29	19	1.53
65	2.1/2"	127	80	60	46	36	20	2.44
80	3"	142	94	70	64	43	28	3.6
100	4"	162	117	88	64	53	27	5.72
125	5"	192	145	115	70	66	30	7.34
150	6"	218	170	134	76	79	31	9.0
200	8"	273	224	182	89	104	33	17.2
250	10"	328	265	220	114	127	50	26.3
300	12"	378	310	260	114	148	43	42.1
350	14"	438	360	298	127	172	45	55.2
400	16"	489	410	350	140	197	52	75.3
450	18"	539	450	385	152	218	58	101.2
500	20"	594	505	438	152	241	58	111.3
600	24"	690	624	538	178	295	73	172.0

D = body outside diameter for DIN PN16 flanges, D1 and D2 = seat and bore diameters, L = face to face, R = disc radius, t = disc thickness. Figures are taken from the manufacturer drawing H77X-10/16 and are nominal. Bodies for ANSI 125 flanges have different outside diameters and are quoted separately.



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ORDERING INFORMATION

FIELD	OPTIONS
Product description	CI WAFER DUALPLATE CHECK VALVE SS DISC PN16
SKU	SW-0402
Size	2" to 24" (DN50 to DN600)
Rating	PN16
Body	Cast iron
Disc	Stainless steel 316
Order example	SW-0402 / DN150 / PN16 / CI BODY / STAINLESS STEEL 316 DISC

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.

COMPLIANCE AND QUALITY

- Spring assisted non slam closure
- Wafer body for clamping between PN16 flanges
- Stainless steel springs and stems as standard
- Shell and seat tested before despatch
- Material certificate available on request

INSTALLATION

- Check that the gaskets, bolts and flange faces are clean before assembly
- Tighten flange bolts evenly in a diagonal sequence
- Do not use the valve to pull misaligned pipework into line
- Support the adjacent pipework so the valve carries no bending load
- Centre the valve on the flange bolts before final tightening
- Install with the hinge pin horizontal on a horizontal line

TYPICAL APPLICATIONS

- Pump discharge lines
- Fire fighting and sprinkler systems
- HVAC and chilled water circuits
- Water treatment and desalination
- Cooling water and sea water service
- General industrial pipework

OPERATION AND MAINTENANCE

- Allow at least five pipe diameters of straight run upstream
- Do not fit immediately downstream of an elbow, pump or control valve
- Check the discs open fully and close freely during commissioning
- Inspect the springs and seat faces at planned shutdowns

COMPANY

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