CI SWING CHECK VALVE FLANGED PN16

Swing Type Non-Return Valve · Cast Iron Body · Metal Seated · Flanged PN16

BRAND: SW FLOW CONTROLS | SKU: SW-0403 | SIZE 2" TO 12" | PN16 / 16 BAR



FIG. 1 | CI SWING CHECK VALVE, FLANGED PN16

PRODUCT OVERVIEW

The SWBM CI Swing Check Valve is a flanged, metal seated non-return valve to BS 5153 for preventing reverse flow in water and general liquid pipelines. A hinged disc swings open under forward flow and returns to its seat under gravity and back pressure when flow stops or reverses, protecting pumps and equipment from backflow.

The body, bonnet and disc are cast iron, with renewable seat rings on both the disc and the body and a stainless steel hinge pin. The bolted cover gives direct access to the disc and seats for inspection and maintenance without removing the valve from the line. Flanged ends are drilled to PN16.

Valve type	**Swing check, bolted cover**
Operation	**Automatic, flow actuated**
Body material	**Cast iron**
Seating	**Metal to metal, renewable rings**
End connection	**Flanged, BS 4504 PN16**
Size range	**2" to 12" (DN50 to DN300)**

TECHNICAL SPECIFICATION

Design standard	**BS 5153**	Working pressure	**PN16 (16 bar)**
Face to face	**BS 5153**	Shell test	**24 bar**
Flange drilling	**BS 4504 PN16**	Seat test	**17.6 bar**
Disc type	**Swing, hinged**	Temperature range	**-10°C to +120°C**
Seat rings	**Bronze, brass or stainless steel**	Installation	**Horizontal, or vertical upward flow**
Hinge pin	**Stainless steel**	Finish	**Blue coated**

BILL OF MATERIALS

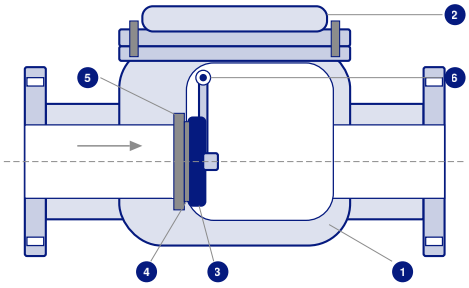


FIG. 2 | SECTIONAL ARRANGEMENT, FLOW LEFT TO RIGHT

#	COMPONENT	MATERIAL
1	Body	Cast iron
2	Bonnet / cover	Cast iron
3	Disc	Cast iron
4	Disc seat ring	Bronze, brass or stainless steel
5	Body seat ring	Bronze, brass or stainless steel
6	Hinge pin	Stainless steel

Body, bonnet and disc can be supplied in ductile iron on request. Seat ring material to be confirmed at order stage to suit the service media.

DIMENSIONS

SIZE	DN	L (MM)	H (MM)	D (MM)	PCD (MM)	BOLT HOLES N X ØD
2"	50	203	136	165	125	4 x 18
2.1/2"	65	216	147	185	145	4 x 18
3"	80	241	158	200	160	8 x 18
4"	100	292	184	220	180	8 x 18
5"	125	330	212	250	210	8 x 18
6"	150	356	227	285	240	8 x 22
8"	200	495	263	340	295	12 x 22
10"	250	622	304	405	355	12 x 26
12"	300	698	335	460	410	12 x 26

L = face to face length to BS 5153, H = centreline to top of cover, D = flange outside diameter, PCD = bolt circle diameter, n x Ød = number and diameter of bolt holes, PN16 drilling. Dimensions are nominal and are given for guidance only. Weights, and certified drawings for the supplied make and size, are issued on request. Sizes 14" and 16" can be offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	SW-0403
Size	2", 2.1/2", 3", 4", 5", 6", 8", 10", 12"
End connection	Flanged PN16, drilled to BS 4504
Seat rings	Bronze, brass or stainless steel
Order example	**SW-0403 / 6" / PN16 / BRONZE SEAT**

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

PRESSURE AND TEMPERATURE

Working pressure	**16 bar (PN16)**
Shell test	**24 bar (1.5 x PN)**
Seat test	**17.6 bar (1.1 x PN)**
Working temperature	**-10°C to +120°C**

Ratings apply to non-shock liquid service. Metal seated check valves allow a small permissible seat leakage. Cast iron is not recommended for flammable gas, steam or shock loading. Confirm duty with SWBM before use outside the conditions above.

TYPICAL APPLICATIONS

- Pump discharge lines
- Water supply and distribution networks
- HVAC chilled and condenser water systems
- Irrigation and pumping stations
- Industrial process and cooling water lines
- Lubricating and fuel oil transfer lines

COMPLIANCE AND QUALITY

- Design and face to face in accordance with BS 5153
- Flanges drilled to BS 4504 PN16
- Shell tested at 24 bar, seat tested at 17.6 bar
- 100% pressure tested prior to despatch
- Renewable disc and body seat rings
- Bolted cover for in-line inspection
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Flush the line thoroughly before installation to clear debris and weld slag
- Install with the flow arrow on the body pointing in the direction of flow
- Install in horizontal lines with the cover uppermost, or in vertical lines with upward flow only
- Allow a straight run of pipe between the valve and any pump, elbow or reducer where possible
- Tighten flange bolts evenly in a crosswise sequence
- Inspect the disc, seat rings and hinge pin periodically through the bolted cover

COMPANY

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