

Swing Check Valve SWC-200T

Check Valve, also known as a one-way valve or Check Valves.

The swing check valve is used to prevent back flow in the line. Flow is in a straight line through the valve resulting in minimal pressure drop. The movable part to block the flow, swings on a hinge, either onto the seat to block reverse flow or off the seat to allow forward flow. The disc swings into the open position as the media flows through the line. Back pressure in the line holds the disc in the closed position.

Swing check valves may be installed in horizontal or vertical lines, but must be installed in proper relation to the media flow as indicated by the flow direction arrow marked on the body.

The swing check valves is a flap valve around the sealing surface for rotating movement, resistance than elevating small, poor sealing performance.

Features:

- A) Investment Cast Stainless Steel Body & Cover.
- B) Integral Stainless Steel Seat
- C) Threaded standard available: NPT and BSP
- D) Screw-in Cover, Swing Type.
- E) Full bore construction.
- F) A hinge and hinge pin provided and mounted so as to permit full movement of the disc.
- G) Automatic operation.
- H) Disassembly is very convenient
- I) DIN EN10204-3.1 Certificate Available.
- J) For Horizontal or Vertical Line only.

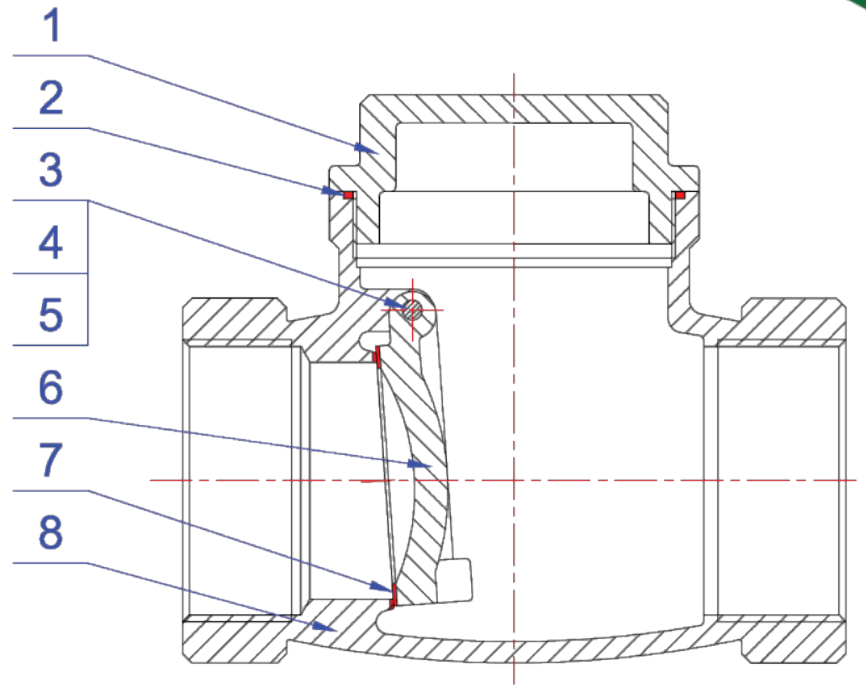
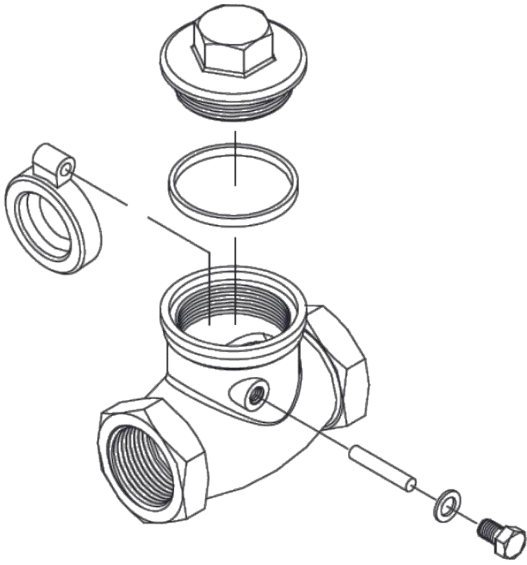
Performance Standard

- 1. Design & Manufacture standard as to: ASME B16.34
- 2. Face to Face dimension standard as to: MFR-STD
- 3. Threaded dimension conforms as to NPT :ASME B1.20.1
BSPT :ISO 228
- 4. Testing And Inspection as to: API 598 / MSS SP-110
/ EN 12266
- 5. Pressure-temperature conforms as to: ASME B16.34
- 6. Anti Corrosion as per NACE MR-0175(2002) requirement

Technical Specification

- 1. Size range: NPS 1/4" ~ 4"
- 2. Pressure ratings: 200 PSI / CWP
- 3. Working temperature: -29°C ~ +200°C
- 4. Applications for Hydraulic, Chemical, Steam, Oil/ Gas, Oxygen, Vacuum.
- 5. Body Material: A351 CF8M
- 6. Wedge Material: A351 CF8M
- 7. Stem Material: A276 SS316
- 8. Seat: A276 SS316





Part List:

No.	Part Name	Material	Standard
1.	Cover	CF8M / SS316	ASTM A351
2.	Gasket	PTFE	MFR-STD
3.	Hinge Pin	SS316	ASTM A276
4.	Plug Gasket	PTFE	MFR-STD
5.	Plug	SS316	ASTM A276
6.	Disc	CF8M / SS316	ASTM A351
7.	Seat	SS316	ASTM A276
8.	Body	CF8M / SS316	ASTM A351

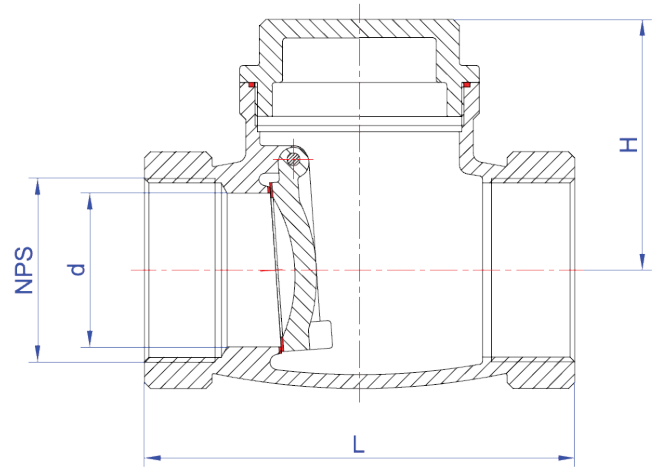
Main Dimensions:

Swing Check Valve SWC-200T

Threaded dimension conforms as to: NPT : ASME B1.20.1

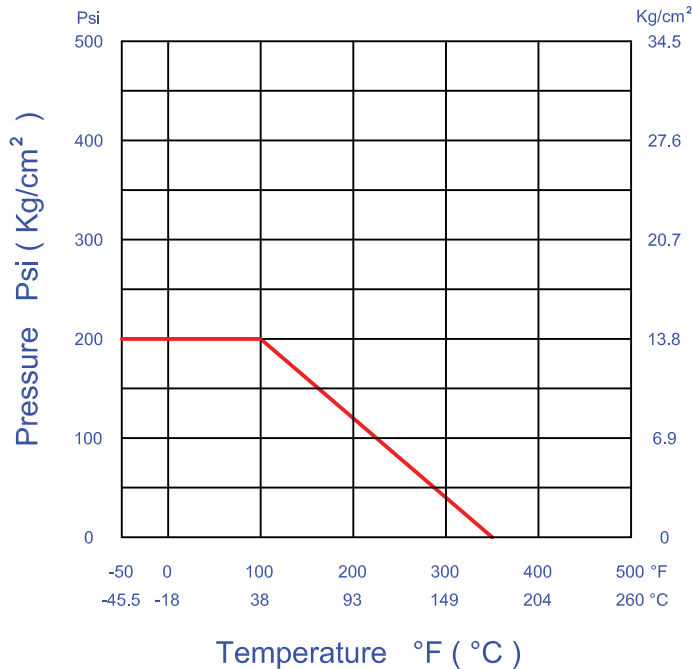
BSPT : ISO 228

NPS	NPT	d	L	H	Weight
1/4"	1/4"	8	63	41.5	0.27
3/8"	3/8"	10	63	41.5	0.27
1/2"	1/2"	15	63	41.5	0.26
3/4"	3/4"	20	74	45	0.35
1"	1"	25	84	49	0.48
1 1/4"	1 1/4"	31	101	53.5	0.75
1 1/2"	1 1/2"	40	114	58.5	0.95
2"	2"	49	134	72	1.39
2 1/2"	2 1/2"	65	162	87	2.95
3"	3"	80	188	107	4.664
4"	4"	100	238	139	8.6



Pressure Temperature Ratings of swing Check Valve Body

SBM PTV Engineering Data



ORDERING CODE:

Example: OMEGA CS-23-21-200

Model: OMEGA AIR VENT CAST STEEL SERIES CLASS 150
Standard A216 WCB Body Red Epoxy
SS316 CF8M Interior and floating ball
NBR Buna seat
Flanged End RF
Rating Class 150
Size 2"

Available Interior and Floating Ball Material Code:

SS304 CF8 Stainless Steel: 1
SS316 CF8M Stainless Steel: 2
SS316L CF3M Stainless Steel: 3

Available Seat Material Code:

Viton: 1
EPDM: 2
NBR Buna: 3

Available Rating Class Code:

Class 150: 1
Class 300: 2
Class 600: 3

Available Connection Code:

Thread NPT: 1
Flanged End: 2

Available Size Code:

1": 100
1 1/4": 125
1 1/2": 150
2": 200
2 1/2": 250
3": 300
4": 400
6": 600
8": 800