



# ANSI 150# CAST STEEL SWING CHECK VALVES

## Literature





**Figure 1 ANSI 150#  
Cast Steel Swing Check Valves**

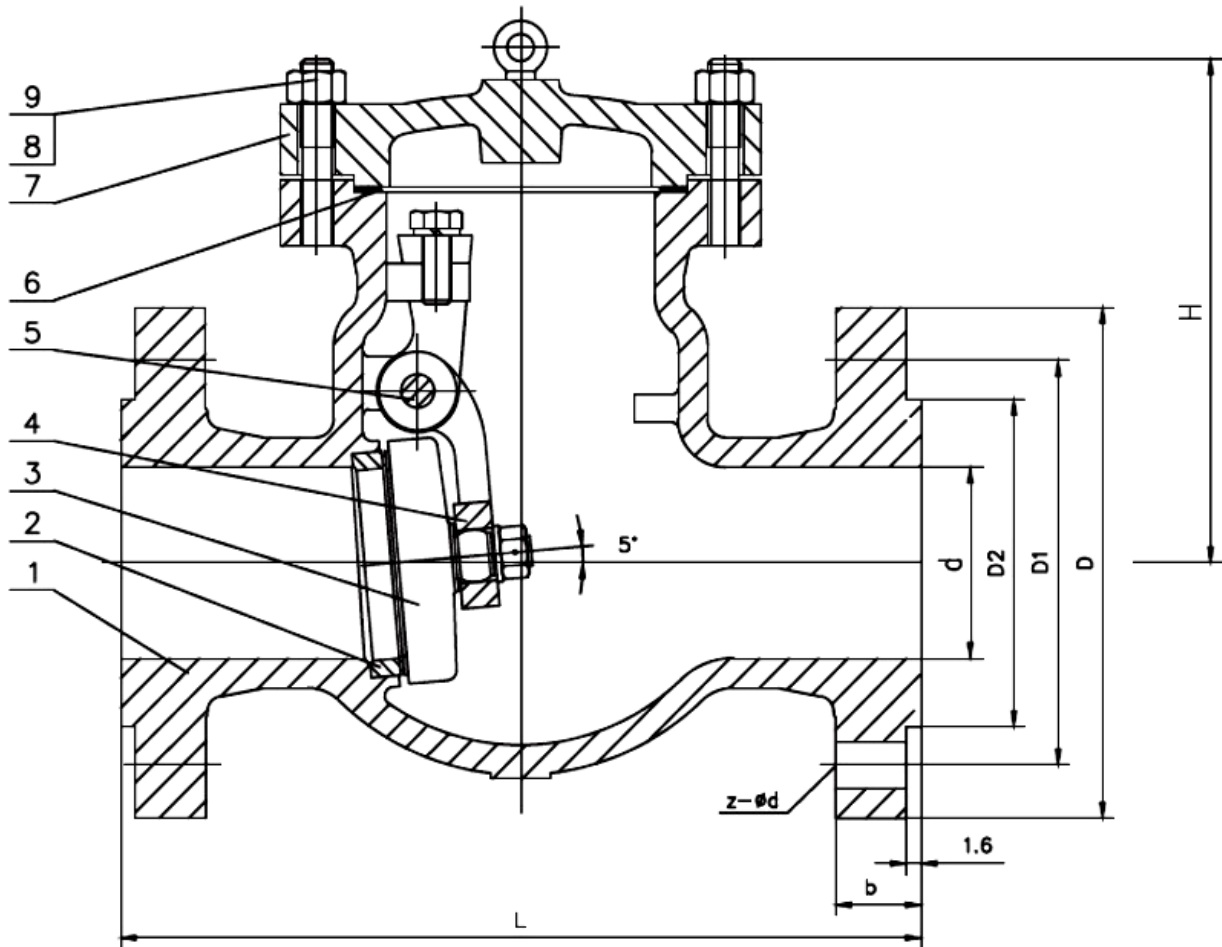
**Introduction:**

150# flange swing check valve is a valve that allows fluids to flow through in one direction only. It is also known as non-return valve or one way valve. It is designed and manufactured according to BS1868 & ASME B16.34. An arrow directional is marked on the valve body to show where the fluids flow to.

These valves are two-port flange end valves, meaning they have two openings in the body, one for fluid to enter (inlet port) and the other for fluid to leave (outlet port). The fluids will flow from the inlet port, pushing the disc to swing up and flow through the valve passage. If there is any back flow from the outlet port, it will push the disc towards the inlet port and block the back flow.

As check valves work automatically, it does not require any valve handle or stem to operate. ANSI 150# SS316 swing check valve is made of stainless steel SS316/CF8M material.

**ANSI 150# Cast Steel Swing Check Valve Drawing:**



**Material:**

No	Part Name	Material
1	Body	ASTM A216 WCB
2	Seat	ASTM A105 + F6
3	Disc	ASTM A216 WCB + F6
4	Hinge	ASTM A216 WCB
5	Hinge Pin	ASTM A276 410
6	Gasket	SS304 + Graphite
7	Bonnet	ASTM A216 WCB
8	Bonnet Bolt Nut	ASTM A193 Gr.2H
9	Bonnet Bolt	ASTM A193 Gr.B7

**Main Technical Parameter:**

<b>Nominal Pressure</b>	150#
<b>Shell Pressure Test</b>	3.0 MPa
<b>Seal Pressure Test</b>	2.2 MPa
<b>Air Seal Pressure Test</b>	0.6 MPa
<b>Max Working Temperature</b>	-29°C to 425°C

**Technical Specifications:**

1. Basic design and manufacture according to BS1868
2. End to end according to ASME B16.10
3. End connection complied with ASME B16.5
4. Inspection and tested according to API 598

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Catalogue Version: 2021

