

Swing Check Valve Manufacturers in india



Speciality Valve is a leading [Swing Check valve manufacturers in India](#). A swing check valve is a type of check valve used in piping systems to allow flow in one direction while preventing backflow in the opposite direction. It typically consists of a hinged disc, known as the swing disc or flap, inside the valve body.

How it works?

The main structure of the valve, usually made of metal or plastic, contains the internal components. The swing check valve's distinguishing feature is the swinging disc or flap, which is hinged at the top of the valve body. When there is forward flow (flow in the desired direction), the pressure of the fluid

pushes the disc open, allowing the fluid to pass through the valve. In some designs, a return spring is used to help close the disc when flow stops.

This ensures that the disc closes promptly, minimizing the risk of water hammer or reverse flow. The seat is the sealing surface against which the swing disc closes to prevent backflow. It ensures a tight seal when the valve is closed, preventing any fluid from flowing backward through the system.

The hinge pin is the pivot point for the swing disc. It allows the disc to swing freely open and closed as fluid flows through the valve. When flow stops or reverses, the swing disc swings back to its closed position under the influence of gravity or a return spring. This effectively seals off the valve, preventing any backflow.

Key Features:

- **Unidirectional Flow:** Swing check valves allow flow in one direction only. They automatically close when flow reverses, preventing backflow and protecting downstream equipment.
- **Low Pressure Drop:** These valves typically have minimal obstruction to flow when fully open, resulting in low pressure drop across the valve, maintaining efficient flow rates.
- **Simple Design:** Consisting of a swing disc, hinge pin, and valve body, swing check valves are reliable and easy to maintain.
- **Wide Range of Sizes and Materials:** Available in various sizes and materials including cast iron, bronze, stainless steel, and PVC, suitable for different applications and fluid types.
- **Versatility:** Suitable for horizontal or vertical installations, accommodating different orientations and configurations.
- **Reduced Water Hammer:** The swinging motion of the disc helps reduce the risk of water hammer, ensuring stable operation.
- **Additional Features:** Some valves include external lever and weight for adjustable closing speed, bolted bonnet for easy maintenance, or rubber-coated disc for improved sealing.

- **Compliance with Standards:** Designed to meet industry standards, ensuring reliability and performance in diverse applications.

Installation:

When installing swing check valves, prioritize horizontal orientation to prevent water hammer and ensure effective operation. Vertical installations, particularly with upward flow, risk the disc slamming against the seat when flow stops. Confirm flow direction matches valve indications.

Mount securely with ample clearance for maintenance. Use appropriate methods for threaded, flanged, or welded connections. Conduct pressure tests post installation and clearly label for easy identification during maintenance.

As [Swing Check valve manufacturers in India](#), we manufacture valves in following description:

- **Body Material:** A182 F316L, A351 CF3M, Cast iron, Cast Steel, Ductile Iron, SS304, SS316, SS316L
- **Class:** 150, 150/PN16, 300, 600, PN10/16, PN64
- **Size:** 1 1/2" to 8"
- **Ends:** Threaded, Socket weld, Butt weld, Flanged, Lug, Wafer

Visit us for more details:

<https://www.specialityvalve.com/product-category/swing-check-valve/>

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