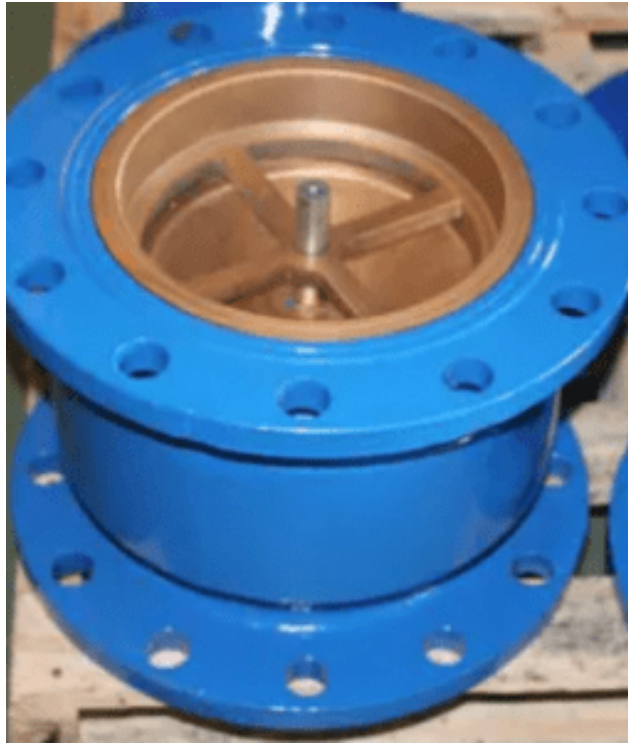


# Non Return Valve Suppliers in India



Speciality Valve is one of the leading [Non Return valve suppliers in India](#).

## **What is a Non-Slam Swing Check Valve?**

A non-slam swing check valve is a type of check valve designed to prevent reverse flow in pipelines while minimizing the effects of water hammer. Unlike traditional swing check valves, which can produce a slamming effect when the flow is suddenly stopped, non-slam swing check valves incorporate features to reduce or eliminate this phenomenon.

## **Overview:**

A non-return valve, often referred to as a check valve, is a broad category encompassing various valve types designed to allow fluid flow in one direction while preventing reverse flow. Unlike traditional valves, which rely on manual or automated operation to control flow, non-return valves

operate automatically based on the flow dynamics of the system. These valves find applications across numerous industries where maintaining flow direction integrity is critical.

Non-return valves are available in various designs, including swing check, lift check, and ball check valves, each tailored to specific flow conditions and performance requirements. They play a vital role in preventing backflow, protecting equipment from damage, and ensuring the efficiency and safety of fluid handling systems.

### **Working Principle:**

1. **Swinging Mechanism:** Similar to traditional swing check valves, the non-slam variant has a hinged disc that swings open to allow forward flow and closes to prevent reverse flow.
2. **Damping Mechanisms:** These valves incorporate mechanisms such as dashpots, counterweights, or hydraulic controls to slow down the closing of the disc gradually.
3. **Reduced Water Hammer:** By controlling the closing speed, non-slam swing check valves minimize the pressure surge associated with water hammer, protecting downstream piping and equipment.

### **Applications:**

1. **Water Distribution Systems:** Used in water supply networks to prevent backflow and water hammer in pipelines.
2. **Wastewater Treatment:** Ensures proper flow direction and prevents damage to treatment equipment.
3. **Petrochemical Industry:** Helps maintain flow direction integrity in various fluid handling processes.

### **Advantages:**

1. **Minimized Water Hammer:** Protects piping systems from damage caused by sudden pressure surges.
2. **Prevents Slamming:** Reduces noise and vibration associated with traditional swing check valves.

3. Extended Lifespan: Lower impact on valve components leads to increased longevity and reliability.

You can find [Non Return valve suppliers in India](#) that provide efficient and accurate management of fluid flow.

**Description:**

- Available Materials: WCB, WC6, LCC, LCB, WCC, SS304, SS316, CF8M, F51, F53, F55, Aluminium bronze, Cast Iron, and Ductile Iron.
- Class: 150 to 2500
- Nominal Pressure: PN10 to PN450
- Size: 1/2” to 24”
- Ends: Flanged, Buttweld, Socketweld, Threaded

Buy valves today:

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

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