

Swing Check Valve

The Supreme Industries Ltd., is an acknowledged leader of India's plastic industry. It is credited with pioneering several path breaking products and has been a torch bearer in the transition from conventional to advanced plastic piping products in the country. Its customer centric approach fuels its research for designing unmatched quality products to meet the aspirations of its quality conscious customers. The innovative product portfolio offered by Supreme is extensive in range and application and comprises variety of pipes and vast spectrum of fittings totaling over 8000 diverse products.

After successfully introducing different types of specialty valves, we are proud to offer one more useful and good quality valve i.e. '**Swing Check Valve**'. Like NRV's swing check valve allows the fluid to pass through only in one direction and avoids emptying situations in the pipeline. This valve is designed considering precision and all functional requirements like smooth operation, water tightness, strength and durability. Being made in

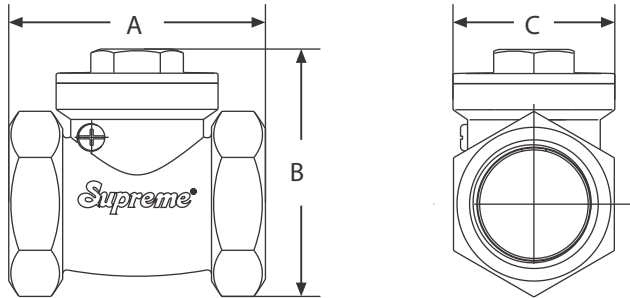
engineering plastics, it is highly resistant to corrosive chemicals, acids and alkaline substances and hence most suitable for industrial applications. With many outstanding features Supreme make Swing check valve stand much superior against alternative products available in the market at reasonably good price.

Unique Features

- Its main function is to allow the fluid to pass through only in one direction and avoid emptying situations in the line.
- Work with automatic action without need of external control and dependence as it works on the sense of flow or the pressures in the piping system.
- Provided with flap for easy operation.
- Designed for 10 kgf/cm² working pressure.
- Necessary to avoid water hammer for all types of installations where pump is used.
- **Compact design:** Requires little space in piping systems due to its short overall length.
- **Light weight:** Much less in weight compared to conventional flanged end swing check valves.
- **100% Tight shut-off:** The replaceable soft seal fitted in the body ensures a tight shut-off to prevent backflow thus protecting equipment, such as a pump.
- Extremely low opening pressures.
- Easy installation and maintenance.
- Available in ¾", 1", 1¼", 1½" and 2" sizes in PN 10 pressure class.
- The Swing check valve is highly resistant to corrosive chemicals, acids and alkaline substances.
- To maintain the Swing check valve, only the bonnet lid has to be removed, without taking the body out of pipeline.
- 100% factory tested.
- May be used either vertically or horizontally.

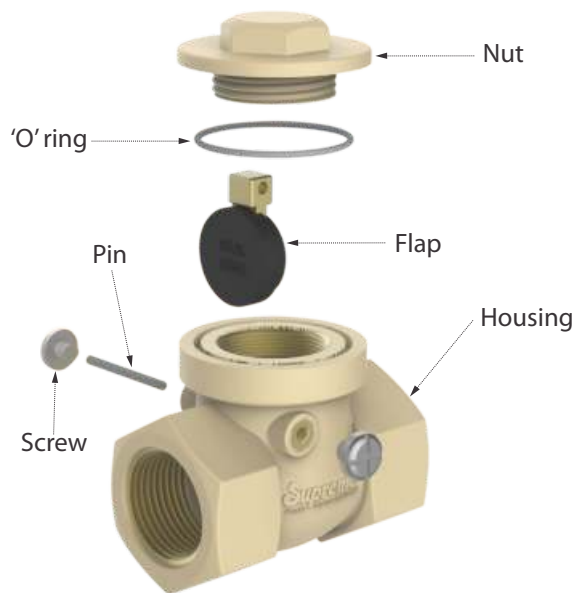


Dimensions of swing check valve



Size in Inches	Size in mm	A	B	C	PN	PSI	Kgf/cm ²
¾"	25	71	72	D46	10	150	10
1"	32	83	79	D53	10	150	10
1¼"	40	110	94	D66	10	150	10
1½"	50	126	103	D69	10	150	10
2"	63	128	124	D81	10	150	10

Components of swing check valve



Applications

- Ideally suitable for industrial applications, water treatment or distribution and irrigation applications
- Can be used to handle mild acidic solutions and medium concentrations of alkaline solutions
- Can be used in water lines receiving chlorine gas or bleach.
- Water and Wastewater Treatment • Chemical Processing
- Food and Beverage • Swimming Pools and Water Parks
- Aquaculture • Aquarium and Zoo Service • Pharmaceutical
- Pulp and Paper • Marine and Corrosive Environments

General specification

Category	: Swing Check Valve (NR)
Driving Mode	: Self Operated
Connection Type	: BSP threads
Working Pressure	: 150 PSI / PN10 @ 20°C
Material	: Engineering plastic
Mounting	: Vertical / Horizontal

Installation

- Valve must be installed as per the flow direction arrow embossed on the valve. Do not install valve upside down.
- Valves should be installed at least 5 pipe diameters away from any fitting. If used as a foot valve, do not place it near the bottom of the tank.
- Hinge Post Bolts on external body should be always visible to ensure proper closing of flap while installing it in a horizontal position.

Note:

- Flow velocity should not exceed 1 m/s, minimum opening pressure is less than 0.15 m/s.
- Swing check valves should not be used in continuous cycling applications, such as with reciprocating pumps.