



# 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 valuable experience in providing innovative and cost effective piping solution. The innovative product portfolio offered by Supreme is extensive in range and application and comprises a variety of pipes and a vast spectrum of fittings totaling over 7000 diverse products. Together these constitute the most comprehensive range in the industry that caters to almost every conceivable need and application.

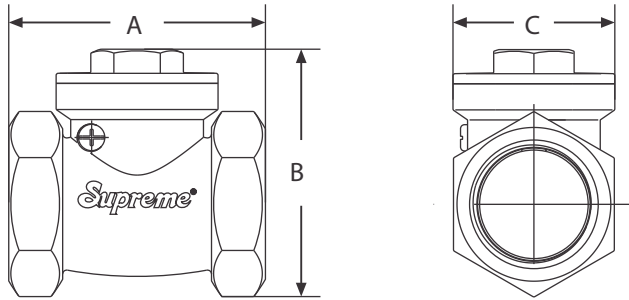
After successfully introducing many innovative and value added products, we are now proud to introduce yet another useful and good quality product i.e. "Swing check valve." Swing check valve is a product in a series of speciality valves like butterfly valves, air release valves, air admittance valve, flush valves etc. Swing check valve is a functional product wherein precision is a mandatory requirement. Keeping in mind precision and functional requirements, like smooth operation, water tightness, strength and durability, Supreme has designed a much superior product. These innovative, versatile, high performance valves stand much superior against alternative products available in the market at reasonably good price. These valves offer many outstanding features and are made available in ¾", 1", 1¼", 1½" and 2" sizes in PN 10 pressure class (25, 32, 40, 50 and 63 mm sizes).

## UNIQUE FEATURES

- Work with automatic action without external controls and depends for their working on the sense of the flow or the pressures in the pipe system.
- Its main function is to allow the fluid to pass through only in one direction and avoid emptying situations in the line.
- Provided with flap for easy operation.
- Designed for 10 kgf/cm<sup>2</sup> working pressure.
- They are necessary for all the installations that uses pumps, etc. to avoid the water hammers.
- **Compact Design** : Requires little space in piping systems due to it's 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 <sup>2</sup>
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

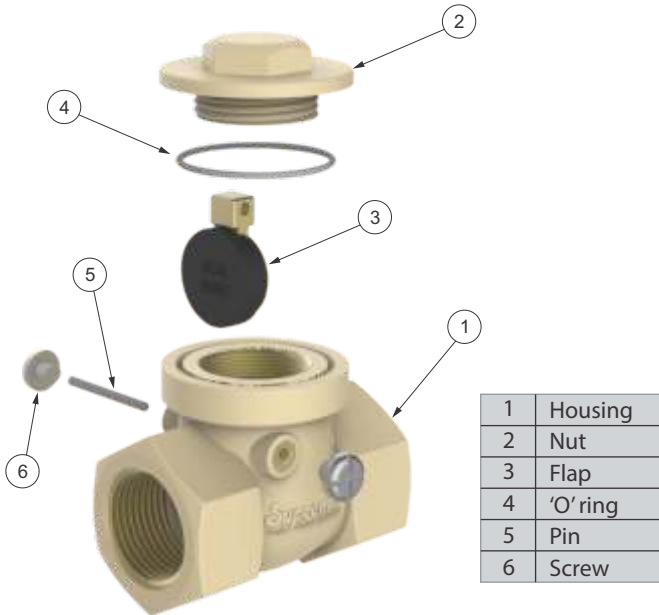
**Applications :**

- 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 & Wastewater Treatment • Chemical Processing • Food & Beverage • Swimming Pools & Water Parks • Aquaculture
- Aquarium & Zoo Service • Pharmaceutical • Pulp & Paper
- Marine & 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

**Components of Swing check valve :**



1	Housing
2	Nut
3	Flap
4	'O' ring
5	Pin
6	Screw

**Installation :**

The swing check valves are designed for both vertical and horizontal installation, but may be installed in up-flow only vertical position. However, when installing the valve, it must be installed with the valves flow arrow embossed on the valve, pointing in the direction of the flow. Do not install valve upside down. Flow velocity should not exceed 1 m/s minimum opening pressure is less than 0.15 m/s.

Swing check valve seating may be affected by normal system turbulence. Valves should be installed at least 5 pipe diameters away from any fitting. If used as a foot valve, do not place near bottom of a tank. Swing check valves should not be used in continuous cycling applications, such as with reciprocating pumps. This can result in premature failure of sealing membrane. In horizontal installations, always orient the Hinge Post Bolts visible on external body in a horizontal position, this will ensure proper closing of flap. In vertical installations downstream from an elbow, flow velocities can be higher on the outer radius of the elbow.

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