

**INTRODUCING**

# Butterfly Valves

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 around 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. "Butterfly valves." Butterfly valves is a very specialty product wherein precision is a mandatory requirement. Keeping in mind these 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 and offer many outstanding features as enlisted. These valves are made available in 2½", 3" and 4" sizes in PN 10 pressure class (75, 90 and 110 mm sizes).



## UNIQUE FEATURES

- Designed and manufactured to have optimal mix of structural stability, flow efficiency and effective seating coupled with advantage of light weight, compact design and ease of operation.
- Only a quarter turn is needed to fully open or close the valve.
- Provided with integrally moulded elastomeric body liner to provide perfect seating and complete isolation of body material from fluid to prevent it from any corrosive and abrasive impact of fluid.
- These valves are easy to install in any position either in horizontal or vertical piping. No separate gaskets are required as the body liner acts as a seal between the body of valve and the mating pipe flanges.
- Excellent flow control and throttling stop handle.
- Compact, space saving design.
- Bi-directional 100% tight shut off.
- Need low operation torque.
- High impact & UV stabilized. Stands up to the most demanding applications.
- POM Lever has extremely high resistance to fatigue failure from -40° to 80°C.
- Working pressure at 20°C (73°F) water temperature for 2½", 3" and 4" (75, 90 and 110 mm) sizes is PN 10 bar (150 PSI).
- Suitable for mounting between all standard flanges ISO/DIN, ANSI/ASTM, British Standard, JIS.
- Gasket packing not required to install between flanges.
- Rigid PVC disk with high abrasion resistance is enclosed with EPDM liner which is compressed to create the sealing mechanism.
- A hole in the lever handle provides a blockage point for trigger lock operation, thus, locking the valve in the off position or any of the 8 increments of opening (21° each) is possible.
- Ideally suited for flow control using minimal piping space.
- Ideal for high diameters to stand high speeds and for fluids with suspended particles.

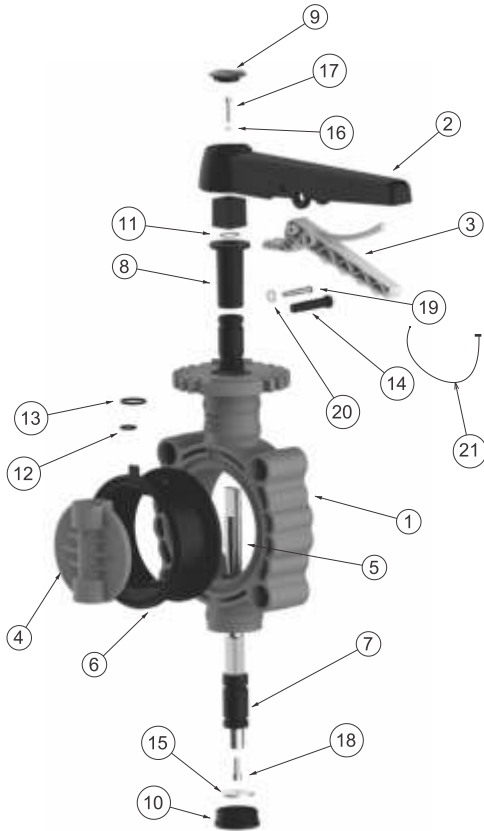
**Applications:** • Ideally suitable for industrial application, water treatment or distribution and irrigation application • Can be used to handle mild acidic solutions and medium concentrations of alkaline solutions • Can be used in water lines receiving chlorine gas or bleach.

### Components of Butterfly Valve :

1	Body
2	Handle
3	Lever
4	Valve disc
5	Shaft
6	Rubber Seal
7	Bearing

8	Top Bearing
9	Top cap
10	Bottom Cap
11	Circlip
12	Shaft 'O' ring
13	Bearing 'O' ring
14	Handle lock pin

15	Bottom Washer
16	Top washer
17	Top allen Bolt
18	Bottom allen bolt
19	Pivot Pin
20	Rivet Washer
21	Lock Pin Cord



### Installation :

Mount valve between DIN or ANSI (Supreme Aqua gold series flange recommended). A valve is supplied with the self sealing rubber seal & requires no additional rubber seal material. Follow flange standard bolt torque guideline during fit-up.

### Operating Instructions :

To operate the valve, first withdraw the locking pin (14), then squeeze the lever (3) and handle (2) together. The handle (2) The lever will disengage from the throttle teeth. Rotate the handle (2) to desire position and release the lever (3) to fix the valve in to desire position. To lock the valve, put the handle locking pin (14).

### Instructions to remove the valve handle :

- Remove the top cap (9) from the handle and take out the top allen bolt (17) using an allen wrench.
- Squeeze the lever (3) and handle (2) together until the lever lock on throttle teeth disengage.
- Withdraw the handle from the shaft (5). The handle & the shaft are held in the place by interference fit. If needed use rubber hammer to detach handle from the valve shaft.

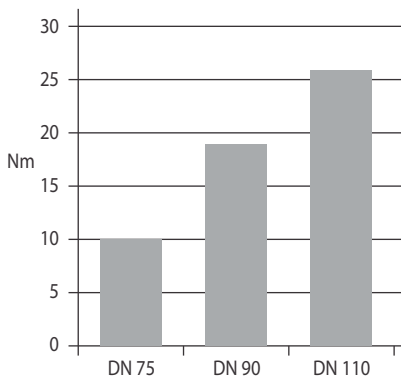
### Procedure for replacing the self sealing gasket :

If valve disc (4) or rubber seal (6) are to be replace, remove handle (2) as above and proceed as follows:

- Remove bottom cap (10), loosen & remove the bottom allen bolt (18) and Circlip (11).
- Tap top of shaft (5) with rubber hammer until PP-GF bearing (7) is exposed and can be removed from bottom of valve body as seen in Fig. 2.
- Remove shaft (5) from valve body; invert shaft (5) end re-insert from the bottom of the valve body as seen in Fig. 1.
- Remove Valve disc (4) or rubber seal (6).
- Follow reverse procedure to reassemble valve.



### Torque graph



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