



PMP PRECISION VALVE COMPANY LTD.

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INNOVATIVE VALVE TECHNOLOGY



Metal Seated Butterfly Valve

TORQUE SEATED BUTTERFLY VALVES

[www.pmpvalve.com](http://www.pmpvalve.com)



## Application

This type of butterfly valve can be widely used in on-off applications in industrial pipelines in such industries as petroleum, chemical, metallurgy, power, water supply and drainage etc. The metal to metal seating allows the valve to be used in place of gate, plug or ball valves in severe applications.

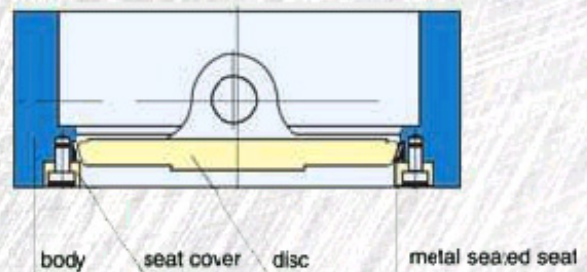
- **Applicable temperature:** -30°C to 425°C (-22°F to 797°F)
- **Available in sizes** 100mm to 4000mm (4" to 160")
- **Operation pressure:** Up to 40 Bar (600 PSI)
- **Applicable standards:**
  - Design & manufacturer — AWWA, API, DIN, GB
  - Flange and drilling — ANSI, DIN, GB/JB
- **Leakage rate** above ANSI Class V



## Valve Design

### Double Eccentric Bi-directional Sealing Butterfly Valve

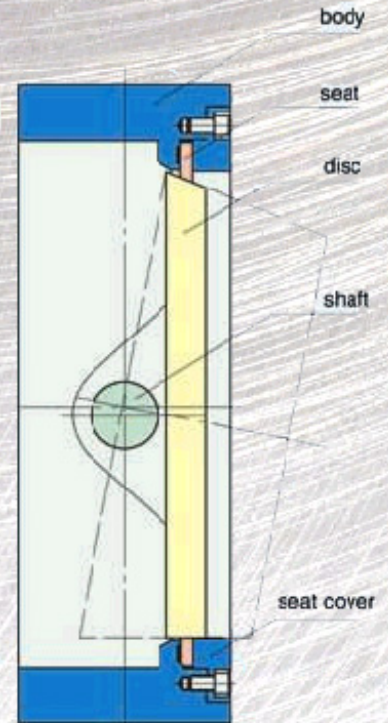
The Series D341HS butterfly valve is manufactured with a double offset (disc center to valve shaft and body centerline). The double offset eliminates friction and wear between the disc and seat. This feature improves the life cycle of the valve due to temperature limitations, erosion from process media and high cycle applications.





## **Triple Eccentric Metal Seated Butterfly Valve**

The Series D3P371H butterfly valve is similar in design to the Series D341HS, but an inclined conical seating surface is added to make a triple offset. This tapered seat design can eliminate temperature limitations, erosion from process media, friction and wear from cycling and offers tight shut-off capabilities. Metal to metal sealing with torque seating offers a valve suitable for a wide range of temperatures, process applications and is inherently firesafe. In addition to bubble tight shut-off, this valve offers excellent control characteristics.



**D3P371H Series  
Triple Eccentric  
Butterfly Valve**

## ***Features***

- Short structure size, small volume, lightweight
- Semi-shaft design for double eccentric valves, truss style disc offer high capacity flow.
- Bi-directional shut-off for double eccentric valves
- Corrosion proof shaft passage construction, and replaceable packing and bearing without removing the valve from service.
- Worm gear actuators can be submerged for a extended periods
- High-efficiency worm gear actuators offer low torque for competitive actuator sizing.
- On installation underground, the horizontal-shaft valve has the double phase display mechanism offering visual identification that the valve is opening or closing
- All seats located on the body
- Torque seating offers tight shut-off capabilities
- Inherently fire-safe



## Typical materials of Construction

Component	Material	Options
Body	Ductile iron(65/45/12), Carbon steel(A36) Cast steel(WCB)	Stainless steel (SS420/SS304/SS316), or rubber lined
Disc	Ductile iron(65/45/12), Carbon steel(A36) Cast steel(WCB)	Stainless steel(SS420/SS304/SS316), or rubber lined
Shaft	SS420	SS420, SS304, SS316, 17-4PH, duplex steel
Seat	SS304	BUNA-N/EPDM/Viton/SS316
Shaft bush	Lubricating bronze	Stainless steel
Gear operator	Cast iron	Optional Operators include: pneumatic, electric, electro-hydraulic



**DS341Hs series  
Metal Seated Butterfly Valve  
with flexible joint**