

## Double Offset Butterfly Valve Manufacturers in India



Speciality Valve stands out as a dependable [Double Offset Butterfly Valve Manufacturers in India](#), celebrated for its unwavering commitment to quality. The double eccentric butterfly valve, an advanced iteration of its single eccentric counterpart, boasts dual offsets - one in the shaft and another in the centre of the disc, enhancing sealing performance, minimising friction, and prolonging the valve's lifespan. Primarily designed for controlling fluid or gas flow within pipelines, this valve finds versatile applications across industries.

The term "offset" in valve context denotes an offset or deviation from the centre. In a double offset butterfly valve, having two offsets - one in the shaft and another in the centre of the disc - contributes to improved sealing and operational efficiency.

### **How a double offset butterfly valve works:**

**Basic Design:** Like all butterfly valves, a double offset butterfly valve consists of a circular body with a disc (also known as a "butterfly")

mounted inside. The disc is connected to a stem that extends out of the valve body.

**Offset Axes:** The "double offset" design refers to the fact that both the shaft and the center of the disc are offset from the centerline of the valve. The shaft is offset from the centerline of the pipe, and the disc's center is offset from the shaft axis. This offset configuration helps reduce wear and friction during operation.

**Sealing Mechanism:** The sealing of a double offset butterfly valve is typically achieved through a resilient seat material, such as rubber or PTFE, which forms a tight seal against the disc when the valve is closed. The offset design allows the disc to make a more perpendicular contact with the seat, improving sealing performance and reducing the likelihood of leakage.

**Operation:** When the valve is in the fully closed position, the disc forms a seal against the valve seat, blocking the flow of fluid through the pipeline. To open the valve, the stem is rotated, causing the disc to pivot away from the seat, allowing fluid to flow through the valve. The double eccentric design ensures that the disc moves smoothly and efficiently without excessive friction.

**Control:** Double offset butterfly valves can be operated manually, pneumatically, or electrically, depending on the specific application requirements.

### **Advantages:**

Bubble-Tight Seal

Low Torque Requirement:

High Flow Capacity

Bi-Directional Flow

Quick Opening and Closing

Compact and Lightweight Design

Cost-Effective

Low Maintenance

Wide Range of Applications

Corrosion Resistance

Low Pressure Drop

**We are [Double Offset Butterfly Valve Manufacturers in India](#) with Industrial usage:**

**Water Treatment Plants:** Used to regulate and control fluid flow in water treatment processes.

**Oil and Gas Industry:** Applied for fluid handling in various stages of oil and gas production and distribution.

**Chemical Processing Industry:** Ideal for controlling chemical flows in manufacturing and processing operations.

**Power Generation Industry:** Employed for fluid regulation in power plant systems and related applications.

**Petrochemical Industry:** Utilised in handling petrochemical substances during production and refining processes.

**Pulp and Paper Industry:** Essential for fluid control in paper manufacturing and processing facilities.

**Mining and Minerals Industry:** Applied in mining operations for efficient fluid handling and control.

**Wastewater Treatment Plants:** Critical in regulating fluid flow in wastewater treatment systems.

**Marine and Shipbuilding Industry:** Used for fluid control in various marine and shipbuilding applications.

**Fire Protection Systems:** Essential component for controlling water flow in fire protection systems.

**Automotive Manufacturing Industry:** Employed in fluid handling within automotive manufacturing processes.

**Description:**

Available materials: Cast iron, Ductile iron, SS304, SS316, Carbon steel (WCB, WCC, WC9, WC6), SS316L, Duplex steel(F51,F53,5A,4A,6A)

Size: 2" to 72"

Class: 150 to 300

Nominal Pressure: PN6 to PN25

Ends: Wafer, Lug, Flanged

Operations: Gear Operated, Electric and Pneumatic Actuated, Lever

**Our Website:** <https://www.specialityvalve.com/product-category/double-eccentric-butterfly-valve>

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