

Butterfly Valve supplier in Oman

Middleeast valve is the largest [Butterfly valve supplier in Oman](#). A butterfly valve is a type of quarter-turn valve that is commonly used to control the flow of fluids (liquids or gases) in a pipeline. It gets its name from the butterfly-shaped disk or disc that is positioned inside the valve body. The disc is connected to a rod or shaft in the center and rotates on an axis, allowing the valve to open or close.

The working principle of a butterfly valve involves the rotational motion of the disc. When the valve is fully open, the disc is turned perpendicular to the flow direction, creating a clear path for the fluid to pass through. Conversely, when the valve is closed, the disc is rotated parallel to the flow direction, blocking the passage of the fluid.

The key components of a butterfly valve include:

- **Body:** The valve body is the outer casing that houses the internal components. It typically has a circular or oval shape.
- **Disc:** The disc, as mentioned earlier, is the butterfly-shaped component that regulates the flow. It is connected to the valve shaft and rotates within the valve body.
- **Shaft:** The shaft is a rod-like structure that connects the disc to the actuator, which is responsible for controlling the valve's movement.
- **Seat:** The seat forms a seal around the perimeter of the disc when the valve is closed. It ensures a tight closure and prevents any leakage.

Butterfly valves are primarily used for isolation and control applications where a tight shut-off is not critical. They offer advantages such as compactness, lightweight design, and low-pressure drop. However, they may not be suitable for applications requiring high-temperature, high-pressure, or abrasive fluids, as the disc may experience erosion or deformation over time.

The function of a butterfly valve is to regulate the flow of a fluid within a pipeline. By rotating the disc, the valve can either allow or restrict the passage of the fluid. It provides a quick and efficient means of controlling flow, as the disc can be opened or closed with a quarter-turn of the shaft.

Middleeast valve is the prime [Butterfly valve supplier in Oman](#) and design and construction of butterfly valves can vary, with options for different materials, sizes, and sealing mechanisms to suit specific application requirements.

Types of butterfly valve:

- Wafer Butterfly Valve
- Flanged Butterfly Valve
- Triple eccentric Butterfly Valve
- Double Offset Butterfly Valve
- Triple Offset Butterfly Valve
- Lug Butterfly Valve

Advantages of butterfly valve:

- It requires less material
- Simple to design and manufacture
- Wide variety to use in case of underground installation also
- Easy to Install
- Smooth to control.

Industries which use them:

- Chemical Industry
- Oil and Gas Industry
- Petrochemical Industry
- Energy Industry
- LNG and LPG
- Marine Industry
- Automobile Industry

Application of butterfly valve:

- They are used to control the water flow in dams.
- Butterfly valves are also used in the waste water treatment.
- Vacuum Services.
- Fire Protection.
- To generate power.

Description:

Body Material: Cast Carbon steel (WCC, WCB, WC6), Stainless Steel [SS316, SS304, SS316L, SS904L, CF8, CF8M, F31L, F91], DUPLEX STEEL and Super duplex Steel (F51, F53, F55), Cast iron, Ductile Iron.

Size – 2” – 48”

Class- 150 to 300; PN 6 – PN 25

Ends- Wafer, flanged, lug

Operations- Lever operated, gear operated, pneumatic actuated, and electric actuated.

Visit our website: <https://www.middleeastvalve.com/product-category/butterfly-valve/> for our complete product range.

