

Gate Valve supplier in Oman

Middleeast valve is one of the best [Gate valve supplier in Oman](#) . We supply to cities like Ibri, Sur, Muscat, and Mutrah.

A gate valve is a type of valve used to control the flow of fluids (liquids or gases) by using a gate or wedge-like disc that moves perpendicular to the flow path to either block or allow the passage of the fluid.

Description:

Available materials: SS304, SS904, SS904L, SS316, Aluminium Bronze, Monel, Bronze, Brass, Duplex steel, Inconel, Incoloy, Titanium, WCB, CF8, CF8M, CF3, CF3M, WC1, WC6, WC9, Cast iron, super duplex

Size: 1/2"- 64"

Class: 150 to 2500

Nominal Pressure: PN10 to PN450

Operations: Hand Wheel Gate valve, Gear operated Gate valve, Electric actuated Gate valve and Pneumatic Actuated Gate valve

Ends: Flanged(FF,RF,RTJ), Buttweld, Socket weld, Threaded

Standards: API607, DIN, BS, ANSI, AWWA, ASME, API6D

The main function of a gate valve is to provide a tight shutoff, effectively stopping the flow of fluid through the pipeline when the valve is fully closed, and allowing unrestricted flow when the valve is fully open. Gate valves are commonly used in applications where the fluid flow needs to be completely shut off, such as in water supply systems, oil and gas pipelines, industrial processes, and more.

Gate valves consist of several main components, including the body, gate (wedge), stem, actuator, and seats. Here's how they work:

- Open Position:

In the open position, the gate (wedge) is fully retracted into the valve body, allowing the fluid to flow through the valve with minimal obstruction. The gate moves perpendicular to the direction of the fluid flow. The valve is opened by turning the valve stem (either manually using a handwheel or with an actuator) which is connected to the gate.

- Closing Position:

To close the valve, the stem is turned in the opposite direction, causing the gate to move down into the flow path of the fluid. As the gate descends, it gradually restricts the flow until the valve is

completely closed. The gate makes contact with the valve seats located at the bottom of the valve body, forming a tight seal that prevents any further flow.

Middleeast valve is the greatest [Gate valve supplier in Oman](#) and are known for their ability to provide a tight seal and low pressure drop when fully open. However, they might require more turns to fully open or close compared to other valve types like ball valves. It's important to use gate valves in appropriate applications and avoid using them for flow regulation where frequent adjustments are necessary.

Gate valve types:

- Rising Stem Gate Valve
- Non Rising Stem Gate Valve
- Bellow Seal Gate Valve
- Pressure Seal Gate Valve
- Cryogenic Gate Valve
- Forged Gate Valve

Gate valve advantages:

- They have low fluid resistance.
- They have superior sealing capability.
- They come with a wide application range.
- They have dual flow directions.

Gate valve Industries:

- Textiles.
- Power generation.
- Refineries.
- Petrochemical plants.
- Shipbuilding
- Chemical industry.
- Paper factories.

Gate valve parts:

- Hand wheel.
- Stuffing Box.
- Bonnet
- Gasket
- Stem
- Flange
- Disk
- Body seats
- Packing
- Body

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