

## Jacketed plug valve suppliers in UAE

Middleeast valve is one of the best [Jacketed plug valve suppliers in UAE](#). We supply to cities like Abu Dhabi, Dubai, Sharjah, Ajman.

A jacketed plug valve consists of a main valve body with a hollow cavity or jacket surrounding it. This jacket can be used to circulate a heating or cooling medium, such as steam or cold water, which helps in maintaining the temperature of the fluid flowing through the valve.

The primary function of a jacketed plug valve is to control the flow of fluids through pipelines. It can be used to start, stop, or regulate the flow of liquids or gases. The jacket surrounding the valve body serves the purpose of temperature control. In processes where the fluid might be sensitive to temperature changes, maintaining a specific temperature is crucial. The jacket helps in achieving this by providing a barrier between the fluid and the external environment, allowing for efficient heating or cooling.

The working principle of a jacketed plug valve is similar to that of a conventional plug valve. The valve consists of a cylindrical or tapered plug that can be rotated to control the flow of the fluid. When the plug is turned perpendicular to the flow direction, the valve is closed, blocking the fluid flow. When the plug is rotated parallel to the flow direction, the valve is open, allowing the fluid to pass through.

The jacketed design adds an extra layer around the valve body, which allows for the circulation of a temperature-regulating medium. For instance, if the fluid inside the valve needs to be heated, steam can be circulated through the jacket, transferring heat to the fluid and maintaining the desired temperature. Similarly, if cooling is required, cold water or another cooling medium can be circulated.

Middleeast valve is the biggest [Jacketed plug valve suppliers in UAE](#) and is designed to provide both flow control and temperature regulation for fluids in industrial processes. It ensures that the fluid remains at a consistent temperature, preventing any undesirable reactions or changes in the process while allowing operators to control the flow as needed.

Description:

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

Class: 150-2500; PN 10 – PN 450

Size: 1/2" - 48".

Operations: Lever actuated plug valve, electric actuated plug valve, pneumatic actuated plug valve, gear actuated plug valve

Ends: Flanged, butt weld, socket weld, threaded

#### Parts of jacketed plug valve:

- Eye Bolt
- Diaphragm
- Spring
- Actuator Stem
- Scale Plate
- Stem Connector
- Yoke
- Packing Flange
- Gland Packing
- Valve Stem
- Gasket
- Guide Ring
- Valve Plug
- Seat Ring
- Valve Body
- Jacket

#### Advantages of jacketed plug valve:

- Cost effective
- Quick Operation
- Can be used in high temperature as well as high pressure operations
- Easy installation
- They come in simple design

#### Industries which use them:

- Chemical Industry.
- Oil and Gas Industry.
- Petrochemical Industry.
- Energy Industry.
- Waste water treatment.

#### Applications of jacketed plug valve:

- Oil piping systems.
- Handling low-pressure, low-temperature services.
- Plug valves may be used to control the flow of slurries and other liquids containing suspended solids.
- Natural gas piping systems.

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