

Non lubricated plug valve in UAE

Middleeast valve is the largest [Non Lubricated Plug Valve in UAE](#). We supply to cities like Dubai, Abu Dhabi, Umm Al Quwain, and Ajman. A non-lubricated plug valve is a type of valve that is designed to operate without the need for external lubrication. It consists of a cylindrical or tapered plug with a through hole, which can be rotated to control the flow of fluid through the valve.

Description:

Body materials: CF8, CF8M, CF3, CF3M, Ductile iron, WCB, WCC, WC9, WC6, Alloy 20, SS304, SS316, CF8M, SS316L, SS904L

Size:1/2"-14"

Class: 150 to 2500, PN16 to PN63

End: Flanged, Socket weld, Butt weld, Screwed.

Operation: – Lever Operated, Pneumatic Actuator, Electric Actuator, Gear operated

The primary function of a non-lubricated plug valve is to control the flow of fluid by allowing or blocking the passage of material through a pipeline. This is achieved through the rotation of a cylindrical or tapered plug within the valve body. When the plug is rotated, it can either align with the flow direction (open position) to allow fluid passage or obstruct the flow by blocking the passage (closed position).

The working principle of a non-lubricated plug valve involves the rotation or lifting of the plug to control the flow. Here's a general overview of the process:

- **Open Position:** When the valve is in the open position, the plug is rotated or lifted in a way that aligns the plug's opening with the pipeline's flow direction. This allows the fluid to pass through the valve with minimal obstruction.
- **Closed Position:** To close the valve, the plug is rotated or lowered to a position where the plug's opening is perpendicular to the flow direction. This blocks the passage of fluid and prevents it from flowing through the valve.

It's important to note that while non-lubricated plug valves do not require external lubrication, they might incorporate self-lubricating materials such as polymers or coatings that reduce friction and wear during operation. These materials help maintain the longevity and functionality of the valve.

Middleeast valve is the leading [Non Lubricated Plug Valve in UAE](#) and controls fluid flow by rotating or lifting a plug inside the valve body. It is used in various industries where minimizing maintenance and fluid contamination are important considerations. There are lift type and rotary type plug valves, each with its own mechanism for controlling flow.

Advantages:

- It does not requires periodic lubrication

- It reduces maintenance costs and down time
- It is less prone to failure than lubricated plug valves
- It makes them easier to operate manually

Industries:

- Oil and gas industry
- Chemical processing
- Water and wastewater treatment
- Power generation
- Mining and minerals processing

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