

Slurry knife gate valve supplier in Saudi Arabia

Middleeast valve is one of the best [Slurry knife gate valve supplier in Saudi Arabia](#). We supply to cities like Riyadh, Dammam, Tabuk, and Dhahran.

Description:

Available materials: CF8M, SS2507, SS316, SS304, CF8, Ductile Iron, WCB, WC6, WCC, LCB, LCC, Cast iron,

class:150-600 PN6to PN25

size:2"-24"

Operation: Hand wheel, Gear operated, electric actuated, pneumatic actuated

Ends-Lug, Wafer, Flanged.

A slurry knife gate valve is a type of industrial valve specifically designed to handle abrasive and viscous fluids, such as slurry, which is a mixture of solid particles suspended in a liquid.

A knife gate valve is a type of gate valve that uses a flat or beveled gate to control the flow of fluid. The term "slurry" refers to a mixture of solids and liquids, often with a high concentration of solids. A slurry knife gate valve is designed to handle the challenges posed by these abrasive and viscous mixtures.

The working principle of a slurry knife gate valve involves the movement of a flat or beveled gate between two sealing surfaces, which are usually parallel or slightly inclined. Here's how it works:

1)Open Position: When the valve is fully open, the gate is retracted into a pocket or cavity within the valve body, allowing the slurry to flow through the pipeline unobstructed.

2)Closing Process: As the valve is operated to close, the gate moves across the flow path, effectively blocking the slurry flow. The design of the gate, often with a sharpened or beveled edge, helps to cut through the slurry and prevent particles from becoming trapped and causing blockages.

3)Sealing: When the gate is fully closed, it forms a tight seal against the seat or sealing surface, preventing any slurry from passing through the valve.

4)Flushing and Cleaning: Many slurry knife gate valves are designed with features to facilitate flushing and cleaning of the valve and its components. This helps remove accumulated particles and reduces the risk of clogging during future operation.

Middleeast valve is the foremost [Slurry knife gate valve supplier in Saudi Arabia](#) and they may also feature additional features such as self-cleaning mechanisms or wear-resistant materials to handle the abrasive nature of slurry applications effectively.

Advantages of slurry knife gate valve:

1)Resistant to clogging

2)Sealing capability

3)Low pressure drop

4)Cost effective solution

5)Easy maintenance

Industries of slurry knife gate valve:

1)Mining and mineral processing

2)Wastewater treatment

3)Pulp and paper

4)Chemical processing

5)Power generation

6)Oil and gas

Parts of slurry knife gate valve:

1)Body

2)Gate

3)Stem

4)Yoke

5)Bolts and nuts

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