

Slurry knife gate valve supplier in Saudi Arabia

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A slurry knife gate valve is a type of industrial valve designed specifically to handle highly abrasive and viscous fluids, known as slurry. Slurry is a mixture of solid particles (such as sand, minerals, or other solids) suspended in a liquid, and it can be challenging to control and transport due to its abrasive and thick nature.

Here's how a slurry knife gate valve works:

- **Valve Design:** Slurry knife gate valves typically consist of a rectangular or circular gate with a sharp edge that can cut through the slurry when closing. The gate is usually made of hard materials like stainless steel or cast iron to resist wear and abrasion. The valve body often features a full-bore design to minimize clogging.
- **Flow Control:** The valve is positioned in the pipeline, and when it's open, the gate is lifted to allow the slurry to pass through. When it's closed, the gate is lowered, creating a seal and effectively cutting off the flow of slurry.
- **Sealing Mechanism:** Slurry knife gate valves are known for their excellent sealing capabilities, which prevent slurry from leaking past the valve when it's closed. The sharp edge of the gate makes contact with a resilient seat or liner to ensure a tight seal.
- **Actuation:** Slurry knife gate valves can be actuated manually, pneumatically, or electrically, depending on the application's requirements. Manual operation may involve turning a handwheel, while automated versions use actuators to open and close the valve.
- **Cleaning and Maintenance:** Slurry knife gate valves are designed for easy maintenance, as they can be disassembled and cleaned when necessary. Regular maintenance is essential to prevent wear and ensure the valve's reliable operation, especially in applications where abrasive slurry is involved.

Suppliers of [Slurry Knife Gate Valve](#) in Saudi Arabia offer specialized valves specifically engineered for the management of abrasive and viscous slurries. These valves are tailored to deliver efficient flow control and sealing in demanding scenarios where traditional valve options are susceptible to blockages and wear. Their sharp gate and resilient seat design render them particularly well-suited for such challenging conditions.

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.

Advantages of slurry knife gate valve:

- Resistant to clogging
- Sealing capability

- Low pressure drop
- Cost effective solution
- Easy maintenance

Industries of slurry knife gate valve:

- Mining and mineral processing
- Wastewater treatment
- Pulp and paper
- Chemical processing
- Power generation
- Oil and gas

Parts of slurry knife gate valve:

- Body
- Gate
- Stem
- Yoke
- Bolts and nuts

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