

Knife Gate Valves



Description

Knife gate valve are named for its sharp, knife-like disc, which could be used for cutting medium. The groove around the seat permits the gate to push particles aside and prevents clogging. When the valve is open, the flow cleans the groove. Seat is outside the flow area resulting in higher flow coefficient with minimum pressure drop.

The Knife gate valves are bonnetless, available for both non-rising and rising stem design, with cast solid body, follower and yoke. Valve are resilient seating with the wire reinforced rubber seat which is located below the bore and out of the flow line (full bore), shall be capable of tight shut-off in both direction (bi-directional) and simple in-line seat replacement. Lock nut or stopper on the stem prevents the gate from being over tightened and the O-ring is provided between the layers of packings to sweep the sludge from the gate. The full flow and Bi-directional flow ensure knife gate valves with highest efficiency and reliability.

Knife gate valve used in pipelines of pulp and paper mills, mineral processing & tailing systems of mining industry, waster & sewage processing for utilities and industries, ash processing of power stations and many other applications

knife gate valve is widely applied to different fields for isolation. With beveled knife edge, it can easily cut through abrasive & thick fluid, even solid particles to achieve excellent on-off control.

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Features

Sizes

- ✓ DN 50 to DN 1000mm (larger diameters on request)

Working pressure

- ✓ DN 50 to DN 250: 10kg/cm²
- ✓ DN 300 to DN 400: 6kg/cm²
- ✓ DN 450: 5kg/cm²
- ✓ DN 500 to DN 1000: 4kg/cm²

Higher pressure rating on request

Standard flange connection

- ✓ DIN PN 10 / PN 16 and ANSI B16.5 (class 150)
- ✓ Other flange connections available on request