

Pneumatic Unidirectional Knife Gate Valve for Slurry



This pneumatic unidirectional knife gate valve is designed for industrial pipeline on-off operation. The valve's structure and seat design prevent clogging, allowing it to manage flow with fine particles, while its blade-shaped disc cuts through soft materials for effective closure.

Product Overview

High-Performance Slurry Control

This pneumatic unidirectional knife gate valve is engineered for demanding industrial environments involving abrasive slurries and suspended solids. Featuring a sharp-edged gate design, it effectively cuts through media to ensure reliable flow control and tight sealing. The valve is built with a reinforced body and specialized hold-down devices to maintain performance under pressure, making it an ideal solution for mining, paper processing, and water purification systems.

Technical Specifications

Operating Temperature

0 °C

Min Temp

200 °C

Max Temp

Size Range	NPS 2 - NPS 48 / DN 50 - DN 1200
Pressure Range	Class 150, PN6, PN10
Connection Type	Wafer

Materials

Body Material

Carbon Steel • Stainless Steel

Sealing Material

- Rubber
- PTFE
- Metal seal

Disc Material	Stainless Steel
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Operational Details

Standards Compliance

Criteria	Standard
Pressure Test	GB/T13927, API598
Face to Face	GB/T12221, API609
Valve Body	GB/T12224, ASME B16.34

Operating Modes	Pneumatic, Hand wheel, Bevel Gear, Electric, Hydraulic
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Applications

Typical Industries

- Mining & Coal Washing
- Iron & Steel Industry
- Water Purification & Sewage
- Paper & Pulp Industry
- Power Station Ash Removal