Bi-Directional Slurry Knife Gate Valve

This bi-directional knife gate valve is also known as a slurry gate valve. The disc bottom is made with a blade shape to cut soft materials like fiber, pulp, or wood pulp, while also providing secure closure.

Overview

High-Performance Bi-Directional Sealing

This Bi-Directional Slurry Knife Gate Valve is engineered for zero-leakage performance under high differential pressure. Its full-bore design ensures maximum flow capacity with minimal pressure drop, while the integrated body structure provides exceptional durability. Designed specifically to prevent media accumulation, it is an ideal solution for demanding industrial slurry and wastewater applications.

Key Performance Metrics

Technical Highlights

200	1200 mm	48 in
Max Temperature	Max DN Size	Max NPS Size

Technical Specifications

Connection Type
Wafer

Size Range	NPS 2 to NPS 48 (DN50 to DN1200)
Pressure Ratings	Class 150, PN6, PN10

Materials

Construction Materials

Component	Material
Body	Ductile Iron
Disc	Stainless Steel
Sealing	Rubber, PTFE
Seat	Wire Reinforced Elastomer

Design Features

Advanced Design Features

- Bi-directional zero leakage shutoff
- Full port flow path for minimal pressure drop
- No-groove seat design prevents media accumulation
- U-shaped resilient seat reduces gate friction
- Integrated precision casing body structure
- Replaceable flexible wire reinforced seat

Operation & Standards

Compliance & Testing

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

Operating Modes	Hand Wheel, Bevel Gear, Pneumatic, Electric, Hydraulic

Applications

Target Industries

- Mining & Coal Washing (slurry pipes, ash discharge)
- Iron & Steel Industry
- Water Treatment & Purification (sewage, mud, suspended solids)
- Paper & Pulp Industry (all pulp concentrations)