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valve solutions
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applications.

Z6600
Zero Pocket
Class 300
Knife Gate Valve

Product Brief

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Z6600 Zero Pocket Knife Gate Valve

The Z6600 knife gate valve is designed specifically to handle demanding applications in the oil sands industry. The zero pocket design with bore matching and perimeter seat, ensures reliable, bidirectional shut-off while minimizing flow disruptions in applications such as hydro-transport, slurry, and tailings lines.

Sizes Available

3” to 36” (80mm to 900mm)
(larger sizes available on request)

Standard Design & Construction

- A216 WCB body
- Viton® GFLT perimeter seat
- Live loaded PTFE packing with braided copper scrapers
- Rotatable, carbon steel wear rings with tungsten carbide weld overlay
- 17-4PH H900 gate with HVOF tungsten carbide tip and Xylan 1070 low friction high release coating
- Chrome Plated Carbon Steel Stem
- Heavy Duty A36 HRS C-Channel Yoke with 17-4PH Lockout Pin
- Integrated lifting lugs (sizes >12”)

Pressure Rating

ASME Class 300

Temperature Rating

Viton® GFLT seat/seals
–40°F to 392°F (–40°C to 200°C)

Standards and Approvals

Design:	MSS SP-135, ASME B16.34
Flanges:	ASME B16.5, B16.47 Series A
Testing:	MSS SP-151, API 598
Markings:	MSS SP-25
Mounting:	ISO 5211
Quality:	MSS SP-55, ISO 9001:2015
Registration:	CRN

23-0048-V8

Key Features & Benefits

- Perimeter style seat provides reliable, bidirectional flow/shutoff with zero downstream leakage
- Dual transverse seal design with scrapers reduces material build-up and provides reliable, redundant sealing
- Full port opening allows maximum throughput and minimizes pressure drop
- Zero pocket design maintains pipe diameter and prevents for process to build up or erode the body due to turbulence
- Atmospheric seal ensures process media remains contained
- Double beveled gate edge pushes media out to aid in sealing
- Replaceable and rotatable inlet and outlet wear rings to eliminate valve body wear and prolong service life

Options & Accessories

- Alternate body materials including high alloy stainless steels for improved corrosion resistance
- Chrome white iron wear rings to match pipe linings
- Pneumatic or hydraulic cylinders, and electric actuators for automated or remote control
- Proximity switches with junction box for gate position feedback
- Quick couplers for hydraulic actuators

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