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E5600-OSV High Performance (Oil Sands Variant) Knife Gate Valve

Product Brief

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E5600-OSV High Performance Knife Gate Valve

The E5600-OSV High Performance KGV is specifically designed for demanding processes in the oil sands industry. Upgrades to this variant include an LCC body with low friction coating, 17-4PH H900 gate with HVOF chrome carbide tip and rotatable wear rings with tungsten carbide overlay for use on hydro-transport, slurry, and tailings lines. The E5600-OSV can be configured and customized to suit the individual needs of specific installations.

Features & Benefits

- Perimeter style seat provides reliable, bidirectional flow/shutoff for zero downstream leakage
- Full port opening allows maximum throughput and minimizes pressure drop
- Transverse seat design with scrapers reduces material build-up and provides reliable sealing
- Positive gate stop ensures seat integrity is maintained
- Heavy-duty, low-carbon steel body provides better durability in low temperatures
- Carbide-tipped gate with low friction coating improves valve life and reliability
- Rotatable wear rings with a weld overlay improves wear resistance and reduces maintenance
- Lockout pin and safety covers, included as standard to ensure operator and maintenance safety
- High visibility clevis provides easy identification of valve position
- Provision for proximity sensors allows easy integration for position feedback
- ISO 5211 mounting pattern allows direct mounting of various actuation options

Technical Details & Standards

- Standard sizes available: 2”–24” (larger sizes available on request)
- A352 LCC low-temp carbon steel body with low-friction coating
- A693 17-4PH H900 gate with HVOF chrome carbide tip and low-friction coating
- 17-4PH stem with ACME threads
- ASTM A36 heavy duty yoke with safety screens
- Rotatable, carbon steel wear rings with tungsten carbide weld overlay
- Viton® GFLT perimeter seat
- Viton® GFLT transverse seals with phenolic scrapers and PTFE energizer
- Pressure rating as per ASME Class 150 (higher pressure classes available)
- ASME B16.5 flange pattern (alternate flange patterns available on request)
- Meets MSS SP-135 design requirements
- CRN

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
- Bevel gearbox for easy manual operation
- Proximity switches for gate position feedback
- Quick couplers for hydraulic actuators

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