

# Elite Valve

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## E9700 High Performance O-Port Knife Gate Valve

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Product Brief



# E9700 High Performance O-Port Knife Gate Valve

The E9700 High Performance O-Port (Through Conduit) KGV is specifically designed for the mining, pulp & paper, and power generation industries. The pressure assisted seat design provides reliable, bidirectional shutoff in various applications such as slurries, dry materials, static columns, high consistency stock, black/white/green liquor, wood chips, and highly viscous fluids.

## Features & Benefits

- Through Conduit design ensures reliability on static columns and dry materials
- Spring loaded seat design provides improved process sealing
- Full port opening allows maximum throughput and minimizes pressure drop
- Oversize flushing ports allow elimination of material buildup
- Live loaded PTFE packing provides reliable sealing
- Lockout pin provision ensures operator and maintenance safety
- High visibility clevis provides easy identification of valve position
- ISO 5211 mounting pattern allows direct mounting of various actuation options including bevel gear, pneumatic or hydraulic cylinders, and electric actuators
- Grease fitting on handwheel bearing reduces operating torques



## Technical Details & Standards

- Standard sizes available: 2"–24" (larger sizes available on request)
- 316SS body
- RC50 (hardened) seats and gate
- 304SS stem and yoke
- Up to 650°C (1200°F) standard temperature rating with RC50 seats and graphite packing
- Class 150/300/600 pressure rating (higher pressure and temperature ratings are achieved with alternate components and materials)
- ASME B16.5 flange pattern (alternate flange patterns available on request)
- Meets MSS SP-135 design requirements
- Canadian CRN

## Available Options

- Higher alloy body materials such as 317SS, 2205SS, 2507SS, or titanium for improved corrosion resistance
- Higher alloy or hardened seats and gates including 317SS, 2205SS, 2507SS, RC50, Inconel 625, 17-4ph, or titanium for improved corrosion and wear resistance
- Resilient seat materials including Viton, Aflas, or Kalrez for process compatibility
- Specialty gate and body coatings including Needox SF2, Xylan 1070, and hard chrome for improved corrosion and wear resistance
- High temperature, live loaded, or energized packing systems for improved sealing in aggressive applications
- Tandem pneumatic or hydraulic actuation options for high-thrust requirements
- PTFE/UHMW lining for cavity free design to prevent material build-up
- Upper and lower gate guards to ensure operator safety
- Proximity switches for gate position feedback



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