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E5100
Light Process
Knife Gate Valve

Product Brief

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E5100 Light Process Knife Gate Valve

The E5100 knife gate valve is designed for light process industrial use as well as the municipal water & wastewater industry. The perimeter seat and optional transverse seal design ensures reliability and durability in various applications for fluids and light solids. The E5100 is suitable for bidirectional shut-off or dead-end service applications.

Sizes Available

2” to 24” (50mm to 600mm)
(larger sizes available on request)

Standard Design & Construction

- CF8 or CF8M body
- Steel reinforced Viton® perimeter seat
- Braided PTFE packing or Viton® transverse seals with scrapers
- Polished 316SS or 304SS gate
- 304SS stem
- 304SS yoke with provision for lockout pin and position sensors

Pressure Rating

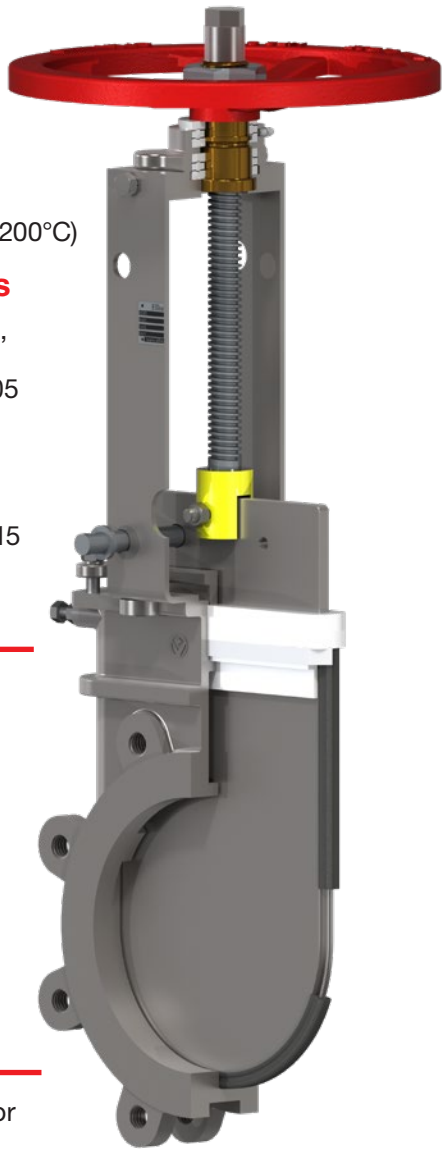
150 psi max

Temperature Rating

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

Standards & Approvals

Design:	AWWA C520, MSS SP-81, TAPPI-TIS 405
Flanges:	ASME B16.5
Testing:	API 598
Markings:	MSS SP-25
Mounting:	ISO 5211
Quality:	ISO 9001:2015
Registration:	CRN

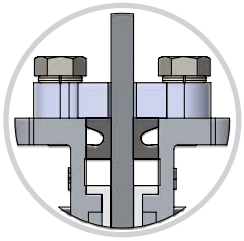


Key Features & Benefits

- Perimeter style seat provides reliable, bidirectional flow/shutoff
- Steel reinforced, replaceable seats ensure zero downstream leakage
- Full port opening allows maximum throughput and minimizes pressure drop
- Positive gate stop ensures seat integrity is maintained
- 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
- Grease fitting on handwheel bearing reduces operating torques

Options & Accessories

- Higher alloy or hardened gates including 17-4PH, and Duplex for improved corrosion or wear resistance
- Specialty gate coatings including Xylan 1070 or hard chrome for improved wear resistance
- Alternate seat materials including BUNA-N, EPDM, or AFLAS for process compatibility
- Cartridge style transverse seal with scrapers and PTFE packing for reduced material buildup and improved sealing
- Proximity switches for gate position feedback
- Non-rising stem for compact installations
- V-port insert for linear flow control



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