# Knife Gate Valves

EMERSON
CLARKSON
KEYSTONE

INTEGRAL
INDUSTRIAL MANAGEMENT CORPORATION
"Your essential source of integrated solutions"

## General Purpose


### Clarkson Figure 952

General purpose knife gate valve.
Compact, unidirectional valve for high flow
rates with low pressure drops.

**Features**

- Self-aligning gland box.
- One-piece 316 SS integral cast body, chest and lugs.
- Integral cast in gate wedges minimize flow obstructions.
- High quality gate finish for optimum sealing.
- Integral RTFE gate scraper and gate guides to support gate.
- Complies with MSS SP-81 face-to-face dimensions.

## Perimeter Seated


### Clarkson PCS17

Resilient seated knife gate valve.
A bi-directional valve that ensures zero leakage in either direction.

**Features**

- Unique drop-in perimeter cartridge seats ensure zero leakage and quick and cost-effective maintenance.
- Seat geometry and precision moulding process ensure zero water leakage at low or high pressures.
- In-line replaceable seat.
- Solid cast, one-piece 316 stainless steel body for optimum performance and reliability.
- Complies with MSS SP-81 face-to-face and full port design to Schedule 40.

## Medium Slurry


### Clarkson SU10R/SU16R
### Slurry knife gate valve.

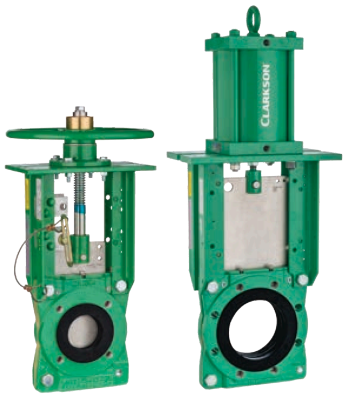
Bi-directional isolation with a field replaceable snap-in liner that completely protects the wetted area from abrasion and corrosive slurries.

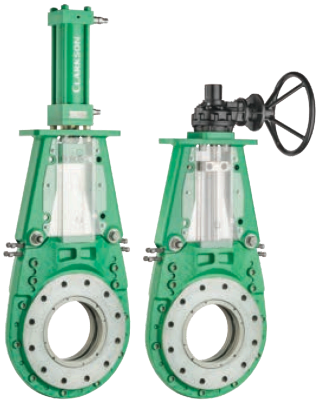
**Features**

- True bi-directional flow and shut-off.
- Unique one-piece, precision molded high strength polyurethane liner protects the wetted parts, from corrosion and abrasion.
- The liner has integral sealing beads to support and wipe slurry from the gate.
- It can replace conventional and short pattern slurry knife gate valves.
- Compact two-piece split body construction for easy maintenance.
- SU10R is offered with 316 SS gate, with optional 17-4 ph for improved resistance.
- SU16R is offered with a 2205 gate for added corrosion resistance and increased pressure.
- Complies with MSS SP-81 face-to-face dimensions.

*Source:*

*Emerson Isolation Valves Product Overview*





## Clarkson KGD
### Slurry knife gate valve.

A wafer style slurry knife gate valve that offers the latest in elastomer technology with the Clarkson Mark III sleeve design.

**Features**

• 100% isolation, bubble-tight shut-off results in absolutely zero downstream leakage.
• Double-seated design provides bi-directional flow and shut-off.
• Unobstructed flow eliminates turbulence, minimizes pressure drop across valve.
• No seat cavity where solids can collect and prevent full gate closure.
• No gate or stem packing is required, eliminating packing leakage and maintenance.
• No metal parts in contact with the flowing slurry.

## Clarkson KS3
### Severe service knife gate valve.

A true bi-directional, zero-leakage ASME Class 300 Knife Gate Valve designed for the rigors of severe service applications.

**Features**

• True bi-directional flow and zero leakage shut-off; can be installed in either direction
• Heavy cross section precision-molded elastomer seat provides more surface area for superior isolation
• Field-adjustable, patented gate edge seal system prevents leakage through top of valve
• Enclosed body design prevents any leakage to the outside environment
• Full round port and seat design offers low pressure drop across valve and longer service life in abrasive applications
• Standard inlet and outlet replaceable, rotatable Ni-resist wear rings extend service life
• Modular frame design allows for installation of any standard accessory without modification
• Fully piggable
• Available in raised or flat face

## Clarkson ZP300
### Zero pocket knife gate valve.

An ASME Class 300 rated Zero Pocket bi-directional valve designed for the rigors of high pressure slurry and oil sands applications.

**Features**

• Full round port, adaptable to match specific pipe I.D.s offers lowest possible pressure drop across the valve
• Zero Pocket design reduces downstream turbulence offering longer service life of valve and pipework in abrasive applications
• Shut off conforms to ASME Class V
• Compliance to MSS-SP135 (Long Pattern) and ASME B16.34 Class 300
• Integral flow rings provide protection of castings and provide longer service life
• True bi-directional flow and shut-off, can be installed in either direction
• Suitable for dead end service up to full rated pressure of valve
• Designed as a repairable asset for total lower cost of ownership