



DeZURIK KGN-MSU METAL SEATED CAST STAINLESS STEEL KNIFE GATE VALVES

Applications

DeZURIK KGN-MSU metal seated unidirectional Cast Stainless Steel Knife Gate Valves are designed for applications in corrosive, abrasive liquid slurry or dry material applications including: Pulp and Paper, Mining, Waste Water, Chemical, Petrochemical, Power, Steel, and others.

Design and Construction

Sizes - KGN-MSU Knife Gate Valves are available in sizes 2-36" (50-900 mm).

Working Pressure – Valve sizes 2-24" (50-600mm) are rated for 150 psi (1000 kPa), valve sizes 30" (750mm) and larger are rated for 100 psi (690 kPa).

Body & Gland - The cast one piece lugged body and the packing gland are available in 304 or 316 Stainless Steel.

Gate - The knife-like gate is available in 304 or 316 Stainless Steel. The gate is precision ground on all sides with beveled edges to maximize packing life and seat shutoff.

Seat - The integral metal seat provides shutoff that meets MSS SP-81 standards.

Gate Guides - Rugged gate guides provide support while gate moves up and down.

Gate Jams - The jams at the bottom of the body wedges the gate securely against the seat to assure positive shutoff.

Actuators - The actuator superstructures are heavy duty carbon steel or corrosion resistant stainless steel. All valves are furnished with a stainless steel stem. A variety of actuator options are available including: handwheels, chainwheels, bevel gears, and pneumatic cylinders.



Flow Capacity

Round port design per MSS SP-81 requirements allows high flow capacity and minimum pressure drop. A stepped transition port eliminates the cavity, where material can accumulate.

End Connections

Raised face body has drilled and tapped flanges in accordance with ASME B16.5, 2-24" (50-600mm) or ASME 16.47, 30" (750mm) and larger.

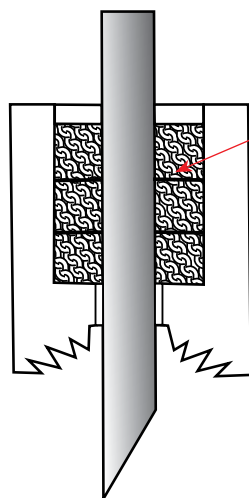
Application Factors That Affect Your Packing Selection For Optimal Sealing

Compatibility with process media:

- Wet or dry application
- Life cycle stroke frequency
- Temperature
- pH Acid-Base level
- Scaling or crystallization on gate



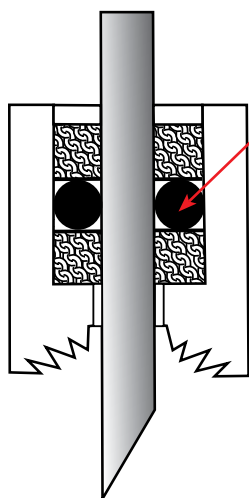
Packing Material Options



MSP

Square Braided PTFE
Impregnated Synthetic
Fiber to 500°F (260°C)
pH Range: 4-10

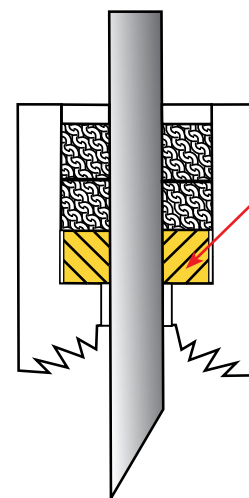
Packing



AFLAS
Cord

*M03055

PTFE Square Braided
Packing with AFLAS®
Fluoroelastomer Cord
to 400°F (205°C)
(pH Range: 0-14)



Scaper

CWP

Square Braided PTFE
Packing with One Ring
Copper Wire Braided
Scraper to 500°F (260°C)
pH Range: 4-10

TDP

Dry Service Square
Braided PTFE Packing
with Solid PTFE Cord
to 500°F (260°C)
pH Range: 0-14

HBP

High Temperature
Square Braided Packing
to 1000°F (540°C)
pH Range: 4-10

KWP

Square Braided PTFE
Packing with One Ring
Kevlar® (para-aramid)
Fiber Scraper
to 500°F (260°C)
pH Range: 4-10

Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

Web Site: www.dezurik.com E-Mail: info@dezurik.com



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