

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 stainless steel.

Gate - The stainless steel knife-like 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.

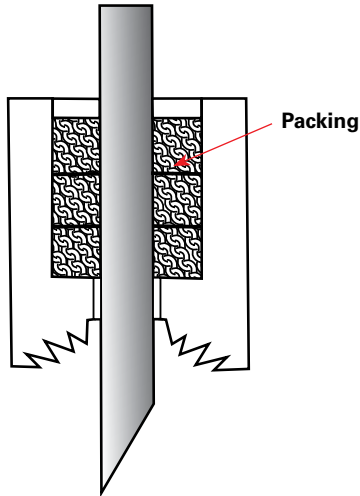
Application Factors That Affect Your Packing Selection For Optimal Sealing

Compatibility with process media:

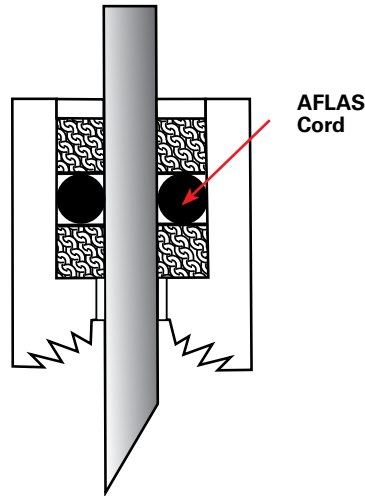
- Wet or dry application
- Life cycle stroke frequency
- Temperature
- pH Acid-Base level
- Scaling or crystallization on gate



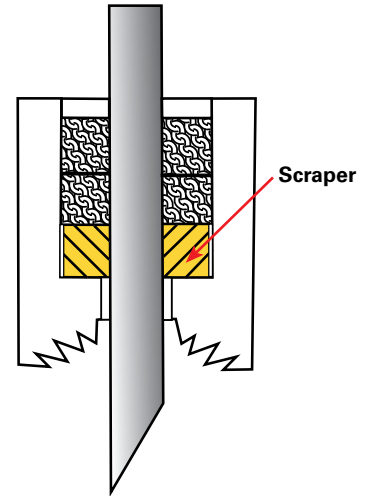
Packing Material Options



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



***M03055**
 PTFE Square Braided
 Packing with AFLAS®
 Fluoroelastomer Cord
 to 400°F (205°C)
 (pH Range: 0-14)



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

Cylinder Actuator Accessories

Air Filter Regulator

The DeZURIK Air Filter Regulator is designed to provide clean accurate air pressure to all pneumatic actuators.

Position Indicating Switches

For all pneumatic actuators position indicating switches may be ordered as part of a complete valve/actuator assembly. Two switches will automatically be set to indicate full open and full closed positions.

Four-Way Solenoid Valve

For all pneumatic actuators solenoid valves may be ordered mounted and piped as part of the complete valve/actuator assembly or as a separate item.