



KNIFE GATE VALVE FIG. EA-EKGD DATA SHEET “03”

DESCRIPTION

EMICO Slurry Knife Gate Valve – Bi-Directional, Wafer body, Full Port, Rising Spindle, Hand wheel operated, Resilient Seated Dual Sleeves. Size range 50mm - 750mm.

Features: Double-seated design offers bi-directional flow & shut-off, High tear strength natural rubber sleeves, Positive sealing in both closed or open positions, No seat cavity to obstruct gate closure, Packingless design, Self-adjusting secondary elastomer seal with silicon-based lubricant facilitates smooth gate operation, Unobstructed flow eliminates turbulence/minimizes pressure drop, Drilled & tapped flange bolt holes, Replaceable Sleeve options, Rugged bolted body & yoke, Actuator easily retro-fitted, Locking Facility (open & close). Valve Epoxy Coated.

STANDARDS

Design Standard	Manufacturers Standard (based on MSS SP-81)
Face to Face Dimension	Manufacturers Standard (similar to MSS SP-81)
Pressure Rating	1000 kPa CWP ≤ 400mm / 620kPa 450~600mm
Temperature	70° C (Natural Rubber Sleeves) / 110°C (EPDM Sleeves)
End Connections	ANSI B16.5 Class 125/150 (UNC/UNC8 threads) AS 2129 Table D & E (metric threads)

MATERIALS OF CONSTRUCTION

Body	Ductile Iron GGG40 (+ other cast materials)
Gate	Stainless Steel 316 + Cr
Stem	Stainless Steel 13% Cr / 304SS
Dual Replaceable Sleeves	Natural Rubber with integral support discs (+ EPDM)
Secondary Seal	EPDM (internal lubricant)
Yoke	Carbon Steel
Bolts/Nuts	Stainless Steel B8
Hand Wheel	Cast Iron ASTM A126 Class ‘B’

TESTING - CERTIFICATION

Pressure Test	100% Pressure Tested to MSS SP-81 Body – Hydro tested 1.5 times rated working pressure Seat Test – Hydro tested 1.1 times rated pressure Bubble tight shut-off; zero leakage
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OPTIONS

Actuation	D/A CS Pneumatic Actuators, Fail Safe systems, Instrumentation
Operation	Bevel Gear Hand wheel
Others	Splash Cover, Spindle Dust Cover