



KNIFE GATE VALVE FIG. EA-PU DATA SHEET "05"

DESCRIPTION

EMICO Polyurethane Lined Knife Gate Valve – Bi-Directional, Lugged body, Round Port, Rising Spindle, Hand wheel operated, Resilient Seated. Size range 50mm - 600mm.

Features: Bi-directional flow, Replaceable Cartridge-type Polyurethane Liner suitable for weir & erosive service, low pressure drop, min MSS SP-81 port size, Blind holes tapped in the chest area & through tapped holes in lugs, Bolted 2-pce body, Actuator easily retro-fitted, Locking Facility (open & close).

STANDARDS

Design Standard	Manufacturers Standard
Face to Face Dimension	Manufacturers Standard
Pressure Rating	1000 kPa CWP ≤ 300mm / 800kPa for ≥350mm
Temperature	80° C
End Connections	ANSI B16.5 Class 125/150 (UNC/UNC8 threads) AS 2129 Table D & E (metric threads)

MATERIALS OF CONSTRUCTION

Body	Stainless Steel A351 CF8M (+ other cast materials)
Gate	Stainless Steel 316 (Hard Chrome or Nitride)
Stem	Stainless Steel 316
Soft Seats	Integral Polyurethane
Gland	Stainless Steel CF8M
Gland Packing	PTFE
Yoke	Stainless Steel 304
Bolts/Nuts	Stainless Steel B8M
Hand Wheel	Cast Iron ASTM A126 Class 'B' (painted Silver)

TESTING - CERTIFICATION

Pressure Test	100% Pressure Tested to MSS SP-81 Body – Hydro tested 1.5 times rated working pressure Seat Test – Hydro tested at 40 PSI differential pressure Resilient Seat – Bubble tight shut-off; zero leakage
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OPTIONS

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