



KNIFE GATE VALVE FIG. EA-OP DATA SHEET "04"

DESCRIPTION

EMICO O-Port Through-Going Knife Gate Valve – Bi-Directional, Wafer body, Full Port, Rising Spindle, Hand wheel operated, Metal Seat & Resilient Seated. Size range 50mm - 600mm.

Features: Bi-directional flow, Dual Gland design, Round O-Port, Unobstructed flow eliminates turbulence/minimizes pressure drop, Drilled & tapped flange bolt holes, Replaceable Seat options, Rugged bolted body & yoke, Actuator easily retro-fitted, Locking Facility (open & close). Valve Epoxy Coated.

STANDARDS

Design Standard	MSS SP-81
Face to Face Dimension	MSS SP-81
Pressure Rating	1000 kPa CWP \leq 250mm / 700~400kPa for 300-600mm
Temperature	70° C (NBR) / 110°C (EPDM)
End Connections	ANSI B16.5 Class 125/150 (UNC/UNC8 threads) AS 2129 Table D & E (metric threads)

MATERIALS OF CONSTRUCTION

Body	Carbon Steel A216 WCB (+ other cast materials)
Gate	Stainless Steel 316 + Cr
Stem	Stainless Steel 13% Cr / 304SS
Soft Seats	NBR (+ EPDM)
Metal Seats	316SS + Stellite
Gland	Carbon Steel A216 WCB
Gland Packing	PTFE + Silicone Rubber
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 at 40 PSI differential pressure Metal Seat - MSS SP-81 (40cc/min/inch of valve size) 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