KNIFE GATE VALVE FIG. EA-904 DATA SHEET "02"

DESCRIPTION

EMICO Knife Gate Valve – Uni-Directional, Semi-Lugged body, Round Port, Rising Spindle, Hand wheel operated, Metal & Resilient Seated. Size range 50mm - 1200mm.

Features: Machined/polished gate-edge radius design with enhanced sealing & packing life, requires less compression and reduced gate friction, lowers valve rim-pull, low pressure drop, min MSS SP-81 port size, Blind holes tapped in the chest area & through drilled holes in lugs, Bevelled bottom edge gate, Replaceable range of Seat options, Rugged single piece body, 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 ≤ 250mm. 300mm≥ 700 ~ 400kPa
Temperature	Max. 260 deg C with standard packing. Temperature limitation on soft seated valve depends on elastomer used
End Connections	AS 2129 Table D & E (metric threads) ANSI B16.5 Class 125/150 (UNC/UNC8 threads)

MATERIALS OF CONSTRUCTION

Body	Ductile Iron GGG40
Gate	Stainless Steel 316
Gland	Ductile Iron GGG40
Stem	Stainless Steel 13% Cr / 304SS
Soft Seat	Replaceable EPDM (+ Viton, Nitrile, etc)
Metal Seat	Replaceable Stainless Steel 316
Gland Packing	PTFE + Silicone Rubber Seal
Support Plates/Yoke	Mild Steel
Bolts/Nuts	Stainless Steel B8
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 Metal Seat - MSS SP-81 (40cc/min/inch of valve size) Resilient Seat – Bubble tight shut-off; zero leakage

OPTIONS

Actuation	D/A Pneumatic Actuators, Fail Safe systems, Instrumentation
Operation	Bevel Gear Hand wheel
Others	Stainless Steel Deflection Cones.