



KNIFE GATE VALVE FIG. EA-905 DATA SHEET "01"

DESCRIPTION

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

Features: Ground/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 tapped holes in lugs, Bevelled bottom edge gate, Replaceable range of Seat options, Rugged single piece CF8M/316SS cast body, Actuator easily retro-fitted, Locking Facility (open & close).

STANDARDS

Design Standard	MSS SP-81
Face to Face Dimension	MSS SP-81
Pressure Rating	1000 kPa (10 Bar) CWP up to 600mm
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	Stainless Steel ASTM A351 CF8M
Gate	Stainless Steel 316 + Hard Chrome
Gland	Stainless Steel CF8M
Stem	Stainless Steel 304
Soft Seat	Replaceable EPDM (+ Viton, PTFE, etc)
Metal Seat	Replaceable Stainless Steel 316 + Stellite
Gland Packing	PTFE + Silicone Rubber Seal + Scraper
Support Plates/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 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	Stainless Steel or Polyurethane Deflection Cones, V-Orifice.