

KNIFE GATE VALVE

Knife Gate Valve

REF **EFC-335** ISSUED 05 Jun 2026

SPECIFICATIONS

Size	DN50–DN3000
Pressure	2bar–16bar
End connection	wafer (BS) / wafer (DIN) / lug (DIN) / flanged (DIN) / wafer (ASME) / wafer (JIS) / wafer (BS)
Face-to-face	MSS SP-81
Temperature	0°C to 0°C
Media	coal, slag, sewage, food, paper pulp, pharmaceutical media, petroleum, chemicals, water, oil, steam, grout, gold powder, ores, coal, wood pulp, tailings, fibres, dust, asphalt, fruit juices, cereals, slaughter plant waste



ACTUATION

- handwheel
- gear box
- electric actuator
- pneumatic actuator
- hydraulic actuator
- sprocket
- electrohydraulic actuator
- gear

STANDARDS

Design	MSS SP-81
Test	API-598

APPLICATIONS

- Power plant coal handling
- Slag discharge
- Sewage treatment

- Food processing
- Paper making
- Pharmaceutical industry
- Petroleum and chemical industry
- Water supply
- Oil pipelines
- Steam service
- Grout cutting and connecting
- Mining (gold powder, ores, tailings)
- Pulp and wood pulp handling
- Dust handling
- Sedimentation tanks
- Asphalt handling
- Grain and cereal handling
- Slaughter plant waste

MATERIALS

body bi directional	Ductile Iron	wedge bi directional	Stainless Steel
seal	Elastomer	packing	Fibre, Elastomer, Graphite
body unidirectional	Duplex Stainless Steel, Super Duplex Stainless Steel, Stainless Steel, Stainless Steel Cast, Carbon Steel Cast, Ductile Iron	knife unidirectional	Duplex Stainless Steel, Super Duplex Stainless Steel, Stainless Steel

FEATURES

- Bi-directional seal variant available
- Unidirectional seal variant available
- 1PC body design (bi-directional variant)
- Full port design (bi-directional variant)
- Reduced fluid retention in valve body (bi-directional variant)
- 2PC strong yoke design (bi-directional variant)
- Mixed variety of packing materials
- Additional bonnet design (unidirectional variant)
- High-pressure rating available on request (unidirectional variant)
- Gate isolated from environment to prevent corrosion (unidirectional variant)
- U-shaped flexible seal without grooves prevents sediment retention (bi-directional variant)
- Sealing by knife edge pressing wedge block combined with seat seal (unidirectional variant)

OPTIONS & NOTES

- High pressure as request (unidirectional variant)

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
—		16bar
—		14bar
—		12bar
—		10bar
—		8bar
—		5bar
—		4bar
—		3bar
—		2bar
—		10bar
—		16bar
—		8bar
—		6bar
—		5bar
—		3bar
—		2bar
—		10bar