



O-PORT KNIFE GATE VALVES



O-Port Knife Gate Valves

Design & Construction

- 316, 317 stainless steel construction resists corrosion.
- Flush ports eliminate stock & dewatering in valve body.
- Adjustable chest guides provide positive gate to seat support and eliminate stock build-up and gate jamming.
- Through gate design eliminates unbalanced forces on gate and allows valve to open and close on solid column applications.
- Full standard pipe port diameter eliminates turbulence and pressure loss.
- MSS-SP81 face-to-face dimension fits same opening as standard knife gate valves on 150 psi CWP rating.
- Removable alloy or reinforced PTFE seats available. Hardened facing on alloy seat and I.D. available for extra protection.

Options

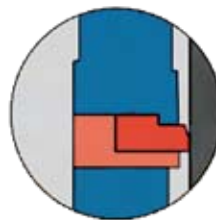
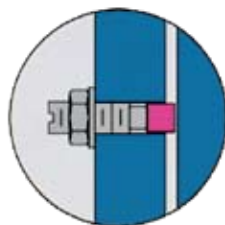
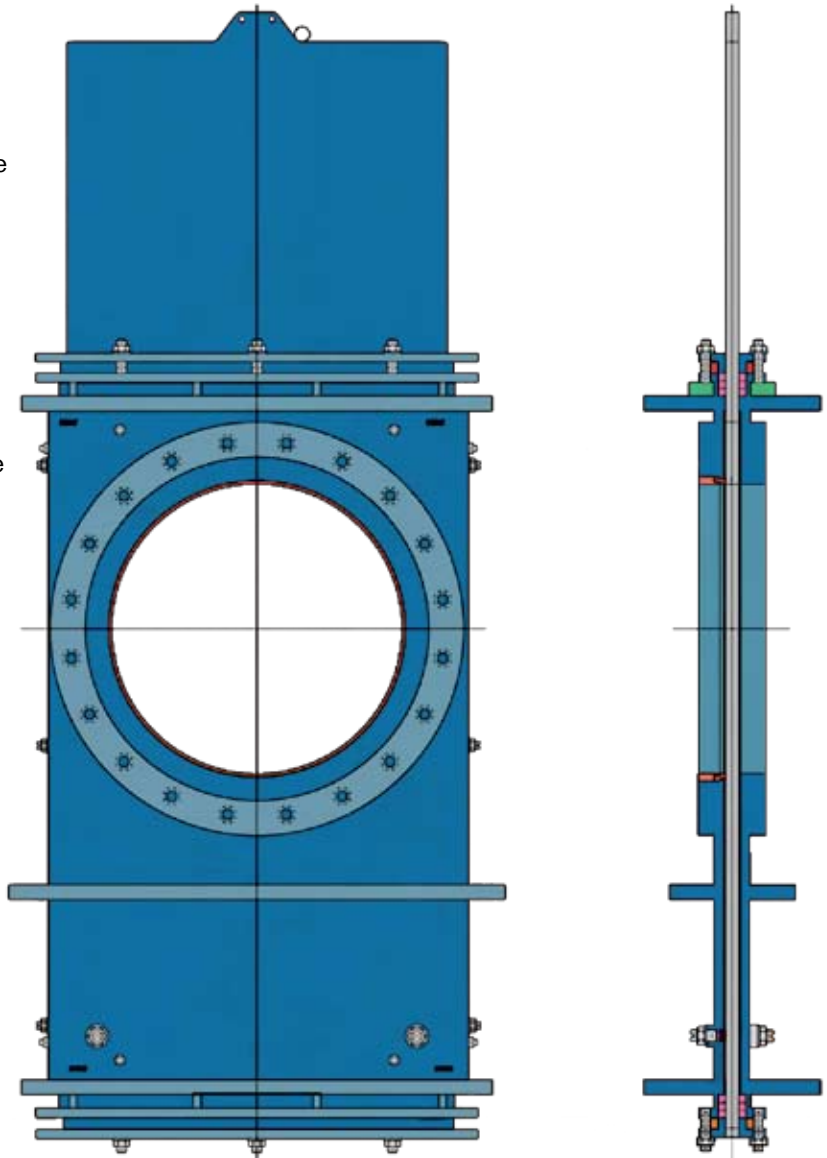
- OSHA lockouts
- External gate guards
- Alloy construction
- Hardened gates

Applications

- High consistency paper stock
- High density storage
- Bleach towers
- Wood chips
- Plastic pellets
- Multiple pump systems
- Cleaners
- Trash dump valves
- Refiner bypass or isolation

Actuator Options

- Air & hydraulic cylinder
- Bevel gear, handwheel/chainwheel
- Electric motor



Ordering

To order, simply complete the valve order code from the information shown. An ordering example is shown for your reference.

KGO,	3,	F1,	S2,	T,	S2	-	S2	-	NR,	3	*
Valve Style	Valve Size	End Connection	Body Material	Packing Material	Gate Material		Seat Material		Seat Facing	CWP Rating	Actuator

Valve Style

Give body style code as follows:

KGO = Knife Gate Valve

Valve Size

Give size code as follows:

2 = 2" (50mm)	14 = 14" (350mm)
3 = 3" (80mm)	16 = 16" (400mm)
4 = 4" (100mm)	18 = 18" (450mm)
5 = 5" (125mm)	20 = 20" (500mm)
6 = 6" (150mm)	24 = 24" (600mm)
8 = 8" (200mm)	30 = 30" (750mm)
10 = 10" (250mm)	36 = 36" (900mm)
12 = 12" (300mm)	

Note: 42" thru 72" on application.

End Connections

Give end connection code as follows:

F1 = Flanged ANSI 150
F110 = Flanged, ISO 7500-1 or DIN 10 or BS4504/10
F116 = Flanged, ISO 7500-1 or DIN 16 or BS4504/16
F1J1 = Flanged, JIS10
F1DA = Flanged, AS2129 Table D
F1EA = Flanged, AS2129 Table E

Body Material

Give body material code as follows:

S1 = 304 Stainless Steel
S2 = 316 Stainless Steel
S3 = Stainless Steel
CS = Carbon Steel
AA = Alloy 20
TN = Titanium
HC = Hastelloy C

Packing Material

Give packing material code as follows:

C = Square Braided PTFE Impregnated Synthetic Fiber to 500°F (260°C)
D = Square Braided Fiberglass to 500° to 1000° (260° to 540°C) Packing does not seal at ambient temperature.
CW = Square Braided PTFE Impregnated Synthetic Fiber with one ring of Copper Wire Braided Scraper to 500°F (260°C)
T = PTFE, Braided, 500°F (260°C)
ZJ = Square Braided PTFE Impregnated Synthetic Fiber with one ring of PTFE Cord to 500°F (260°C)
GLW = Gortex(R) live loaded with wiper, 180°F (82°C)
TLW = PTFE live loaded with wiper, 180°F (82°C)

Gate Material

Give gate material code as follows:

S1 = 304 Stainless Steel
S2 = 316 Stainless Steel
S3 = 317 Stainless Steel
HC = Hastelloy C
CSH = Hardened Carbon Steel
AA = Alloy 20
S5 = Hardened 17-4 PH Stainless Steel
TN = Titanium

Seat Material

Give seat material code as follows:

CS = Carbon Steel
S1 = 304 Stainless Steel
S2 = 316 Stainless Steel
S3 = 317 Stainless Steel
S5 = Hardened 17-4 PH Stainless Steel
AA = Alloy 20
TN = Titanium
HC = Hastelloy C
RT = Reinforced PTFE

Seat Facing

Give seat facing code as follows:

NR = No Coating, Replaceable
SR = Stellite(R) #6 alloy, Replaceable (Available with CS, S1, S2, or S3 Seat Material only)
TR = Tungsten Carbide, Replaceable (Available with CS, S1, S2, or S3 Seat Material only)
SNR = Stellite(R) #6 alloy, Non-Replaceable (Available with CS, S1, S2 or S3 Seat Material only)

CWP Rating

Give CWP rating code as follows:

3 = 0-150 psi (1034 kPa) (all packing except GLW and TLW)
5 = 0-285 psi (1960 kPa) ANSI 150 (must use GLW or TLW packing only)

Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

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