ABRASIVE FLOW SOLUTIONS

fpV II

URETHANE LINED KNIFE GATE VALVE

Product Code: OM-KGUL

The FPV Urethane Lined Knife Gate Valve is designed for full on/off abrasive and corrosive applications. The Urethane one piece field replaceable liner is designed to provide high flow with low pressure drop. The liner is flush with the bottom of the valve eliminating any pocket where material can collect. It has a full round port design with zero discharge to atmosphere.

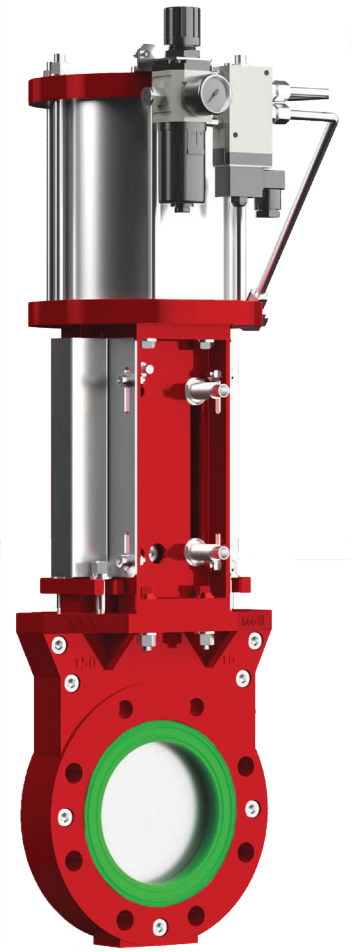
Product Specifications:

ALL VALVES ARE HYDROSTATICALLY TESTED BEFORE SHIPMENT.

Size Range:	50mm - 750mm (2” - 30”)
Valve Type:	High Pressure Slurry Knife Gate
Body Style:	Narrow Body (Wafer)
Gate/Blade:	17-4PH Stainless Steel, 316L Stainless Steel, 2205 Duplex Stainless Steel, 2507 Duplex Stainless Steel, C276 HASTELLOY
Temperature Range:	-50˚C - + 80˚C
Pressure Rating:	Up to 240psi (16 Bar) Higher pressures available
Body Material:	Cast ductile iron, 2 coat epoxy painted or stainless steel.
Replaceable Liner:	Wear resistant polyurethane.
Duty:	Medium to heavy abrasive applications
Hydro-Static Test:	1.5 Times the rated pressure

Features:

- One piece field replaceable liner.
- Perimeter sealing at 16 Bar.
- Flush bottom (no pockets).
- No metal parts in contact with flowing slurry.
- Bubble tight shut off.
- No clogging bonnet to impede flow.
- External epoxy or powder coated.
- Easily adapted to fit most types of actuation.
- Low maintenance requirements.
- MSS-SP-81 Face-To-Face.
- Lock out & Switch mountings.
- Live - load packing gland.
- Full-port design & bi-directional.
- Lightweight material for easy handling.
- Rubber lined body or lip seal.
- Robust gate design reduces bending.
- Zero discharge to atmosphere.
- No pressure drop across valve.
- Optional fluorocarbon coated valve gate to reduce friction when stroked.
- PTFE blade wiper.
- Two piece body.
- Non-Rising spindle available.



Zero discharge to atmosphere.
Full round port design.

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URETHANE LINED KNIFE GATE VALVE

How the Liner Works

The Liner Seat is flush with the bottom of the port eliminating debris and slurry, allowing a leak free seal when closed. The liner also extends over the flange face essentially creating a gasket type seal when installed in the line, thus eliminating additional gaskets and is replaceable. Zero discharge to atmosphere.

Actuators

All types of actuators can be fitted; electric, gearbox, hydraulic, pneumatic and handwheel.

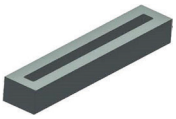
Applications

The valve is suited for mining and mineral processing, power generation, sand & gravel, chemical & soda ash, pulp & paper, environmental & effluent, dry feeds & powders.

Accessories

- Limit switches
- PTFE blade coating
- Various blade materials
- Gate safety guards
- Deflector cone

Gland



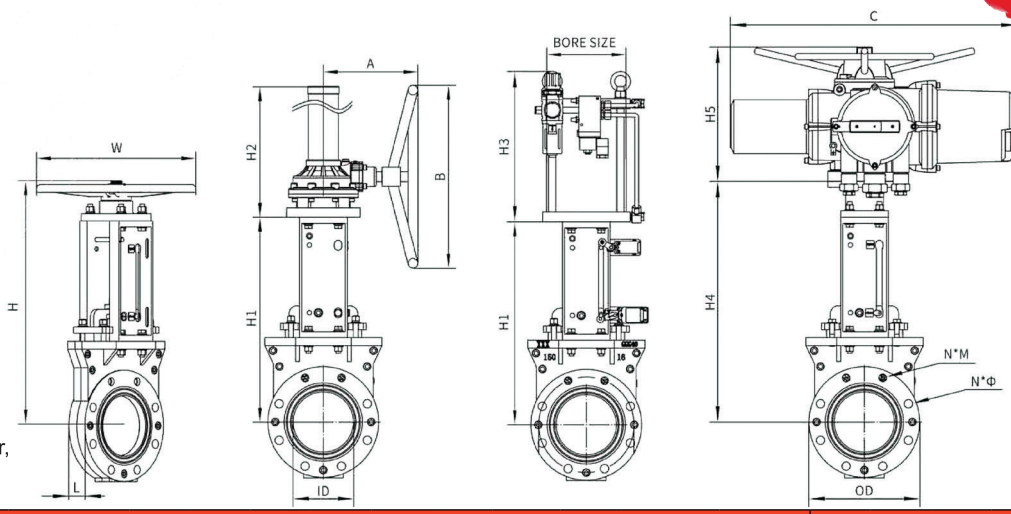
The high-elastic, molded rubber packing offers better sealing performance and compensation compared to traditional gland packing in knife gate valves. With frequent opening and closing, the packing may experience wear and leakage. High-elastic rubber packing has superior compensatory properties, allowing the seal to be restored with only slight tightening of the packing gland.

Field Replaceable Polyurethane Wear Liner



Dimensions & Weights

MH BG AC EC



Notes:

L1- MSS-SP81 face-to-face.

L2 - 400mm up.
Face-to-face with flange retainer, for dead end service.

DIMENSIONS (mm)																WEIGHT (kg)			
SIZE	ID	OD	W	L	H	H1	H2	H3	H4	H5	A	B	BORE SIZE	C	N*M(UNC)	N*Ø	MH	BG	AC	EC
50	50.8	160	300	48	405	313	195	217	391	275	210	300	140	557	2*5/8-11	2*Ø18	12	23	25	30
80	76.2	190	300	51	462	361	225	242	439	275	210	300	160	557	2*5/8-11	2*Ø18	16	26	30	50
100	101.6	230	350	51	505	411	245	267	489	275	210	300	160	557	2*5/8-11	6*Ø18	20	30	48	60
125	125	255	350	57	544	450	260	298	528	275	210	300	200	557	2*3/4-10	6*Ø22	30	39	50	100
150	152.4	280	400	57	618	510	270	320	600	275	210	500	200	722	2*3/4-10	6*Ø22	35	55	75	111
200	203.2	343	400	70	710	606	345	402	696	275	210	500	250	722	2*3/4-10	6*Ø22	60	70	90	120
250	254	403	550	70	815	732	395	460	822	337	210	500	280	722	4*7/8-9	6*Ø26	85	90	120	140
300	304.8	483	-	76	-	840	475	520	930	337	233	600	300	722	4*7/8-9	6*Ø26	101	120	160	180
350	336.6	535	-	76	-	920	525	536	1035	337	233	600	320	722	4*1-8	8*Ø29.5	134	150	180	200
400	387.4	600	-	129	-	1034	586	593	1149	375	320	600	350	775	6*1-8	10*Ø29.5	182	220	250	280
450	438.2	635	-	129	-	1166	636	662	1281	375	320	600	400	775	6*1-1/8-7	10*Ø32.5	222	250	300	350
500	489	715	-	154	-	1330	732	736	1460	460	395	600	450	900	8*1-1/8-7	12*Ø32.5	282	300	350	400
600	590.6	840	-	154	-	1535	832	836	1665	460	395	600	450	900	8*1-1/4-7	12*Ø35.5	395	420	496	500
750	743	985	-	157	-	1810	1040	986	1940	630	395	600	500	1027	10*1-1/4-7	18*Ø35.5	500	520	600	700

Contact AFS for larger sizes. Dimensions and weights are for guidance only -
detailed dimension drawings available on request. All dimensions are in millimeters, unless stated otherwise.

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