ABRASIVE FLOW SOLUTIONS

fpv fluid power valves

WAFER SLURRY KNIFE GATE VALVE

The FPV Wafer Slurry Knife Gate valve has been designed as a space saving option for slurry applications. The full port design allows the gate to be fully isolated by the sleeve in the open position. When the valve is closed the gate pushes between the sleeves ensuring 100% bi-directional bubble tight seal and zero downstream leakage.

Product Specifications:

Size Range:	2" - 24" (50mm - 600mm)
Valve Type:	Slurry knife gate
Body Style:	Narrow body (wafer)
Temperature Range:	176° F (80°C)
Pressure Rating:	Up to 240 psi (16 bar)
Body Material:	Cast ductile iron, 2 coat epoxy painted or stainless steel
Gate Material:	17-4PH Stainless Steel, 316L Stainless Steel, 2205 Duplex Stainless Steel, 2507 Duplex Stainless Steel, C276 HASTELLOY
Gate / Blade:	Coated with fluorocarbon coating
Sleeve Material:	Gum rubber, high-temp EPDM, Neoprene, Nitrile, Chlorobutyl
Duty:	Abrasive applications
Hydro-Static Test	1.5 Times the rated pressure

Features:

- Long-wearing replaceable sleeves.
- Face-to-face - MSS SP81.
- Long lasting lubrication.
- Open body prevents gate damage during actuation.
- High strength stainless steel blade.
- Two coat epoxy paint.
- Manual or automated actuators available.
- Metric & imperial flange drilling.
- Manual lockout option available.
- Low maintenance requirements.
- Full port, bi-directional design at 16 bar (240psi).
- Bellows and stem cover for protection.
- Zinc coated hardware.
- Stuffing box with gland follower.
- No pressure drop across valve.
- Lightweight design for easy handling.
- No seat cavity where solids can collect and prevent full gate closure.
- Fluorocarbon coated gate to reduce friction and add wear life to seats.
- Universal tower frame.
- Lubrication ports.
- Two piece wafer body.

Premium materials are supplied standard on all valves.

WAFER SLURRY KNIFE GATE VALVE

Actuators

All types of actuators can be fitted; electric, gearbox, hydraulic, pneumatic and handwheel.
(Choice of operator is based on valve size & pressure)

Applications & Accessories

The valve is suited for mining and mineral processing, power generation, sand/gravel, chemical & soda ash, pulp & paper, environmental & effluent, dry feeds, coal, alumina, phosphate & general industry.

How the Rubber Sleeve Works

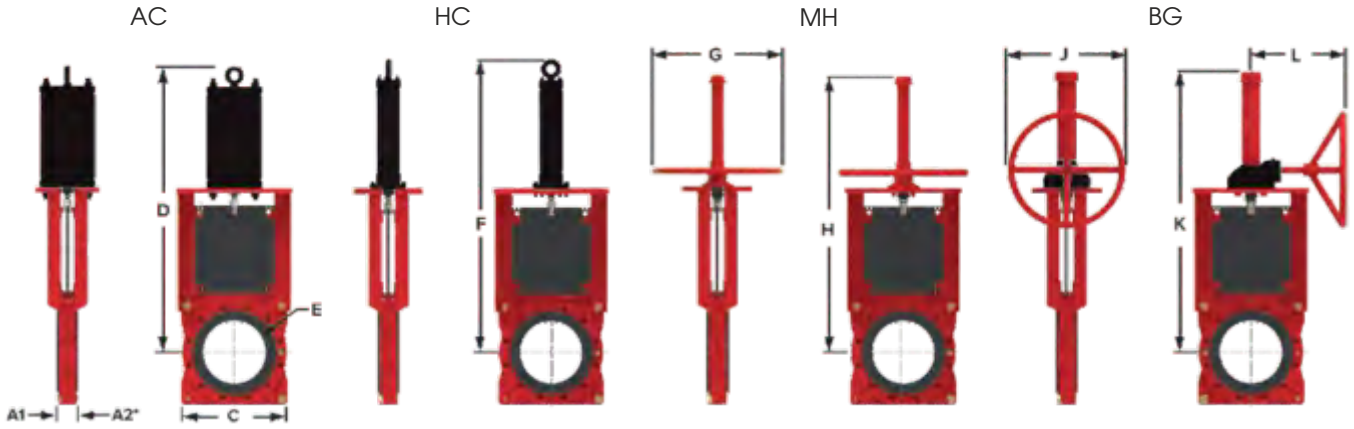
Matching rubber ring sleeves with stiffener rings are placed in the valve housing to seal against the gate when the valve is closed and seal against each other when the valve is open. This tight seal contains the high internal line pressure. Double-seated design provides bi-directional flow and shut-off.

Accessories

- Limit switches
- Blade coating
- Various blade materials
- Gate safety guards
- Deflector cone
- Splash guard

Rubber Sleeve

Dimensions & Weights



Valve Size	A 1	A 2	C	D	E	F	G	H	J	K	L	AC kg	HC kg	MH kg	BG kg
50	59	54	197	511	44	489	300	483	300	-	-	65	52	43	50
80	64	57	232	593	73	568	300	559	300	564	324	84	70	55	60
100	64	57	273	661	98	645	300	620	300	649	324	95	85	75	80
150	70	64	340	818	149	940	300	777	300	810	371	145	100	90	90
200	83	76	397	960	198	1143	500	916	500	946	371	190	145	140	140
250	84	76	451	1106	248	1334	500	1068	500	1118	371	325	225	200	200
300	90	83	533	1302	299	1413	-	-	500	1321	425	493	320	375	350
350	90	83	581	1397	330	1562	-	-	600	1403	425	655	377	450	480
400	103	95	635	1562	381	1753	-	-	600	1549	425	736	535	525	525
450	105	95	686	1745	432	1753	-	-	600	1746	492	840	650	670	650
500	132	121	733	1930	483	1930	-	-	600	1927	492	1165	760	730	780
600	133	121	848	2199	587	2215	-	-	600	2213	492	1650	1120	1000	1200

Dimensions and weights are for guidance only - detailed dimension drawings are available on request. All dimensions are in millimetres, unless otherwise stated.