

URETHANE LINED HIGH-PRESSURE KNIFE GATE VALVE

The FPV Urethane lined High Pressure Slurry Knife Gate Valve is designed for full on/off applications. The urethane is moulded throughout the body and chest area. The lining is flush with the bottom of the valve eliminating any pocket where material can collect.

Product Specifications:

Size Range:	50mm - 600mm (2" - 24")
Valve Type:	High pressure slurry knife gate
Body Style:	Narrow, urethane lined
Gate Material:	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 300 psi (25 bar)
Body Material:	Cast ductile iron, 2 coat epoxy painted
Sleeve Material:	Gum rubber, high-temp EPDM, Neoprene, Nitrille, Butyl
Duty:	Medium to heavy abrasive applications
Hydro-Static Test	1.5 Times the rated pressure

Features:

- Bi-directional operation at 25 bar.
- Smooth bottom (no groove).
- No metal parts in contact with flowing slurry.
- Bubble tight shut off.
- External epoxy or powder coated.
- Easily adapted to fit most actuators.
- Low maintenance requirements.
- MSS-SP-81 face-to-face.
- Lock out and switch mountings.
- Lice load packing gland.
- Full port design.
- Lightweight material for easy handling.
- Minimised chest area & close tolerances preventing media from packing.
- Robust gate design reduces bending.
- Zero discharge to atmosphere.
- No pressure drop across valve.
- PTFE blade wiper.
- Lubricant ports.
- Fluoro-carbon coated gate to reduce friction and add wear life to sleeves.
- Once piece wafer body.



Premium materials are supplied standard on all valves.

How the Valve Works

Designed specifically to heavy-duty applications, the sleeves are easily replaced in the field, prolonging valve working life.

Sleeves provide 100% bubble tight seal and rely on the sleeves to seal. The sleeves are bi-directional and have an internal stiffening ring.

Actuators

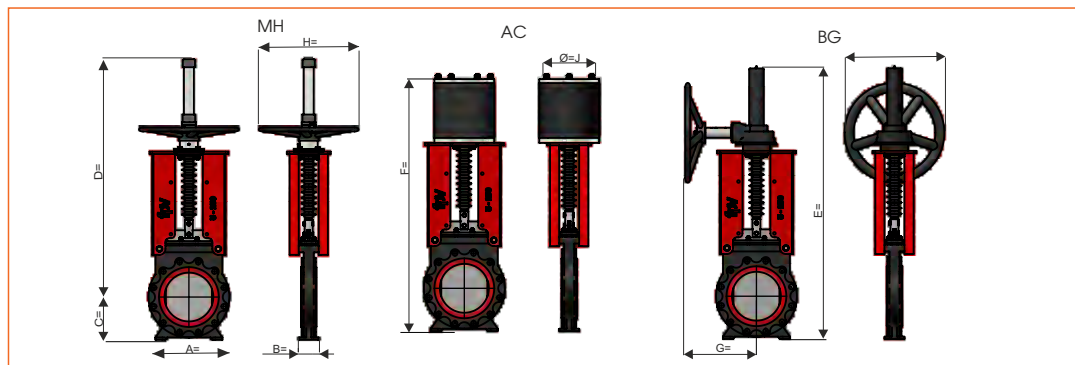
All types of actuators can be fitted; electric, gearbox, hydraulic, pneumatic and handwheel.

Applications & Accessories

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

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

Dimensions & Weights



Valve Size	A	B	C	D	E	F	G	H	J	K	L	AC kg	HC kg	MH kg	BG kg
80	176	156	273	652	71	667	300	624	300	622	368	50	50	50	65
100	176	181	318	722	95	714	300	683	300	686	368	70	60	72	80
150	184	210	381	948	148	968	300	889	300	905	368	174	150	154	180
200	184	244	457	1099	197	1118	500	1029	500	1037	424	340	180	203	230
250	227	294	521	1314	248	1334	500	-	500	1260	492	500	280	-	350
300	259	330	616	1485	298	1502	-	-	500	1451	492	650	375	-	480
350	260	378	699	1648	330	1686	-	-	600	1626	492	-	578	-	650
400	279	400	762	1910	381	1968	-	-	600	1800	559	-	800	-	880
450	321	450	800	-	*	*	-	-	-	*	*	-	950	-	-
500	368	500	890	-	*	*	-	-	-	*	*	-	1320	-	-
600	368	590	950	-	*	*	-	-	-	*	*	-	2500	-	-
650	368	620	1100	-	*	*	-	-	-	*	-	-	2750	-	-
750	413	683	1359	-	3185	3185	-	-	-	-	-	-	3000	-	-
900	470	787	1575	-	3797	3797	-	-	-	-	-	-	3800	-	-

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