

HIGH-PRESSURE SLURRY KNIFE GATE VALVE

The FPV High-Pressure Slurry Knife Gate valve is a true bi-directional slurry knife gate valve. Its rubber sleeves are designed to seal and withstand the harsh abrasive duty inherent in mining & milling facilities. Isolation is provided by the gate passing through the sleeve in such a manner that any solids that could potentially clog or jam the blade are pushed out into the atmosphere through the bottom of the valve housing.

Product Specifications:

Size Range:	3" - 36" (80mm - 900mm)
Valve Type:	Slurry knife gate (high-pressure)
Body Style:	Full Flanged
Temperature Range:	176° F (80°C)
Pressure Rating:	Up to 740 psi (51 bar)
Body Material:	Cast ductile iron, 2 coat epoxy painted
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:	Medium to heavy abrasive applications
Hydro-Static Test	1.5 Times the rated pressure

Features:

- Bi-directional operation at 51 bar.
- Zinc nickle plated hardware.
- Heavy duty stainless steel gate.
- CNC machined gate guide & body.
- Manual lockout.
- Stuffing box with gland follower.
- Double seat design for heavy duty slurry service.
- Low maintenance requirements.
- 100% bubble tight shut off.
- Imperial and metric flanged patterns.
- Protective spindle cover & bellows.
- Full port & bi-directional.
- Flush ports in valve body.
- Open body allows for purging.
- Two coat epoxy paint.
- Lubrication ports.
- Fluorocarbon coated gate to reduce friction and increase wear life on sleeves.
- Two piece body.
- Universal tower frame.



Premium materials are supplied standard on all valves.

Actuators

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

Applications

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.

Advantages of Rubber Sleeves

Designed specifically for heavy-duty slurry applications, the sleeves are easily replaced in the field, prolonging valve working life. Sleeves provide a 100% bubble tight seal and rely on the pressure between the sleeves to seal. The sleeves are bi-directional and have an internal stiffening ring.

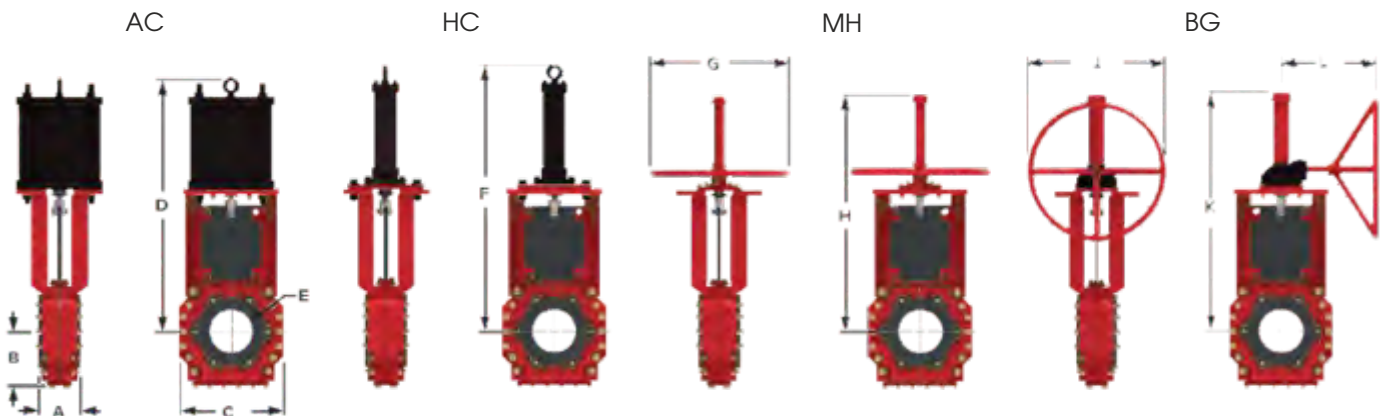
Accessories

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



Natural Rubber Sleeve

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.