

FLANGED SLURRY KNIFE GATE VALVE

The FPV Flanged Slurry Knife Gate Valve is a true bi-directional gate valve. The rubber sleeves are designed to withstand the harsh abrasive duty within the mining and milling industry. Isolation is provided by the gate passing through the sleeves in such a manner that any solids that could potentially clog or jam the blade are pushed out to atmosphere through the bottom of valve housing.

Product Specification:

Size Range:	2" - 60" (50mm - 1500mm)
Valve Type:	Slurry knife gate
Body Style:	Flanged
Temperature Range:	176° F (80°C)
Pressure Rating:	Up to 300 psi (21 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, Butyl
Duty:	Abrasive applications
Hydro-Static Test	1.5 Times the rated pressure

Features:

- Bi-directional operation at 21 bar.
- Zinc nickle plated hardware.
- Heavy duty stainless steel gate.
- CNC machined gate guide & body.
- Stuffing box with gland follower.
- Open body allows for purging.
- Low maintenance requirements.
- Manual lockout.
- Long-wearing, field replaceable sleeves, create the sealing surface.
- Two piece body.
- Protective spindle covers & bellows.
- No seat cavity where solids can collect & prevent full gate closure.
- Lightweight design.
- Imperial & metric flanged patterns.
- Two coat epoxy paint.
- Lubricant ports.
- Fluoro-carbon coated gate to reduce friction and add wear life to sleeves.
- 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.

Applications

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

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

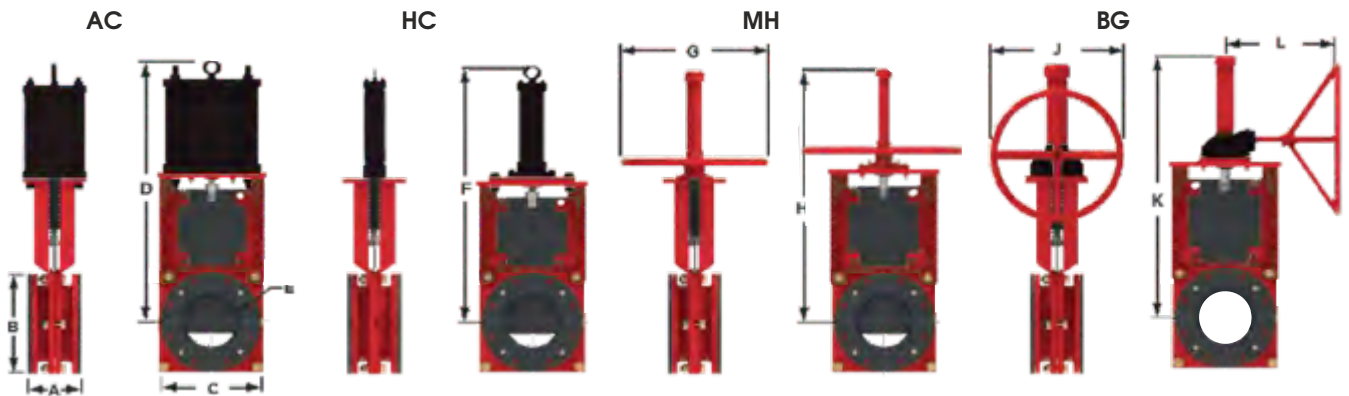
Accessories

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



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
50	165	152	162	468	45	457	300	408	300	-	-	38	30	30	60
80	172	191	229	546	71	499	300	559	300	-	-	50	40	35	65
100	172	229	254	618	98	570	300	602	300	654	368	80	50	45	80
150	175	279	324	772	148	732	500	759	500	791	368	95	60	60	95
200	181	343	381	892	197	849	500	860	500	875	368	125	80	90	125
250	222	406	426	1029	250	1019	500	1006	500	1020	368	300	160	-	200
300	254	483	508	1247	292	1195	-	-	500	1257	422	450	180	-	210
350	254	533	567	1356	337	1314	-	-	600	1353	422	510	250	-	260
400	276	597	635	1522	375	1469	-	-	600	1448	422	600	420	-	395
450	308	635	673	1624	425	1676	-	-	600	1689	492	700	550	-	480
500	359	699	721	1863	470	1881	-	-	600	1842	492	800	640	-	-
600	371	813	857	2234	584	2202	-	-	600	2176	533	1000	720	-	-
650	365	870	940	2235	635	2332	-	-	-	-	-	-	820	-	-
750	394	984	1054	-	737	2659	-	-	-	-	-	-	980	-	-
800	394	1060	1114	-	737	2873	-	-	-	-	-	-	1080	-	-
900	467	1168	1232	-	889	3062	-	-	-	-	-	-	1700	-	-
1050	537	1346	1441	-	1054	3740	-	-	-	-	-	-	2500	-	-
1200	537	1511	1588	-	1191	4094	-	-	-	-	-	-	3160	-	-
1350	537	1681	1704	-	-	4390	-	-	-	-	-	-	4000	-	-
1500	537	1854	1955	-	-	4781	-	-	-	-	-	-	5000	-	-

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