

HI-TECH ALWAYS AHEAD

ISO 9000 CERTIFIED CO.



HI-TECH Knife Gate Valves

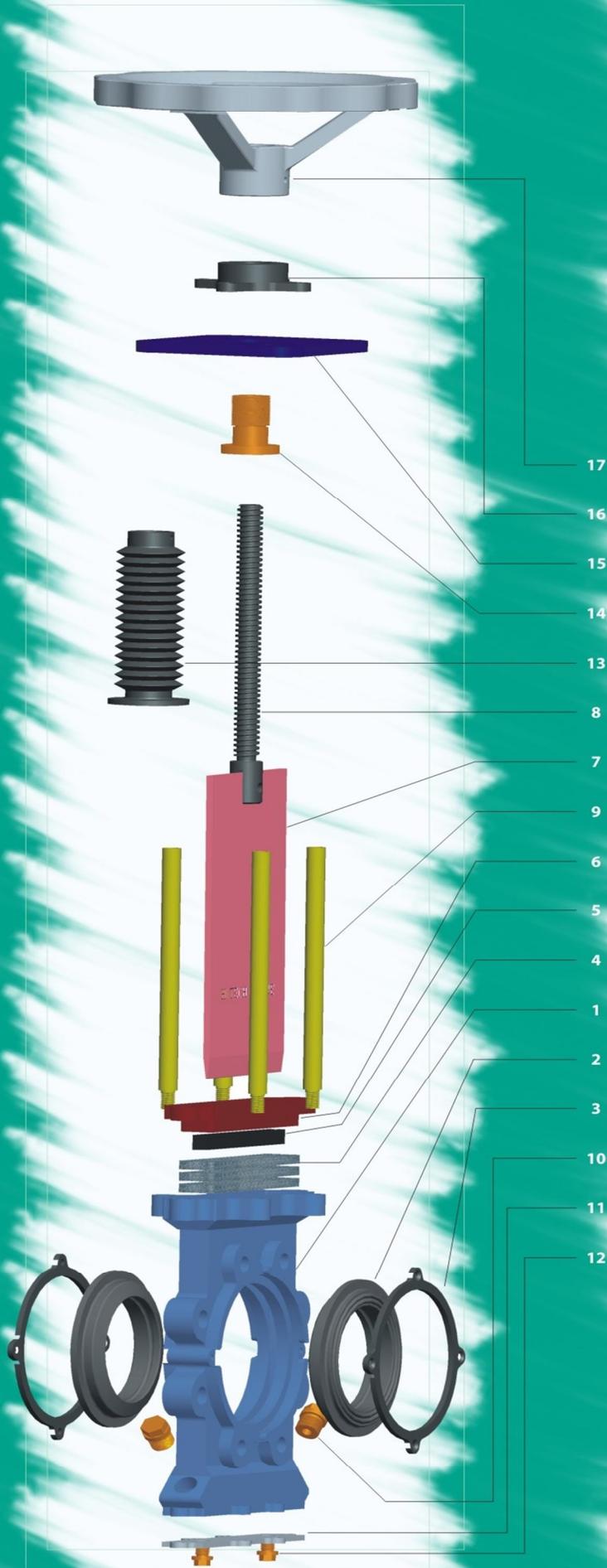
Hi-Tech High Pressure Knife Gate Valve is Specially Designed for tough, abrasive and corrosive slurry applications:

- ▶ Slurry
- ▶ Raw water
- ▶ Power utilities
- ▶ Pulp and paper
- ▶ Soda ash
- ▶ Alumina
- ▶ General Industrial
- ▶ General chemical
- ▶ Phosphate
- ▶ Coal
- ▶ Sand and gravel
- ▶ Cement
- ▶ Mineral sands
- ▶ Kaolin

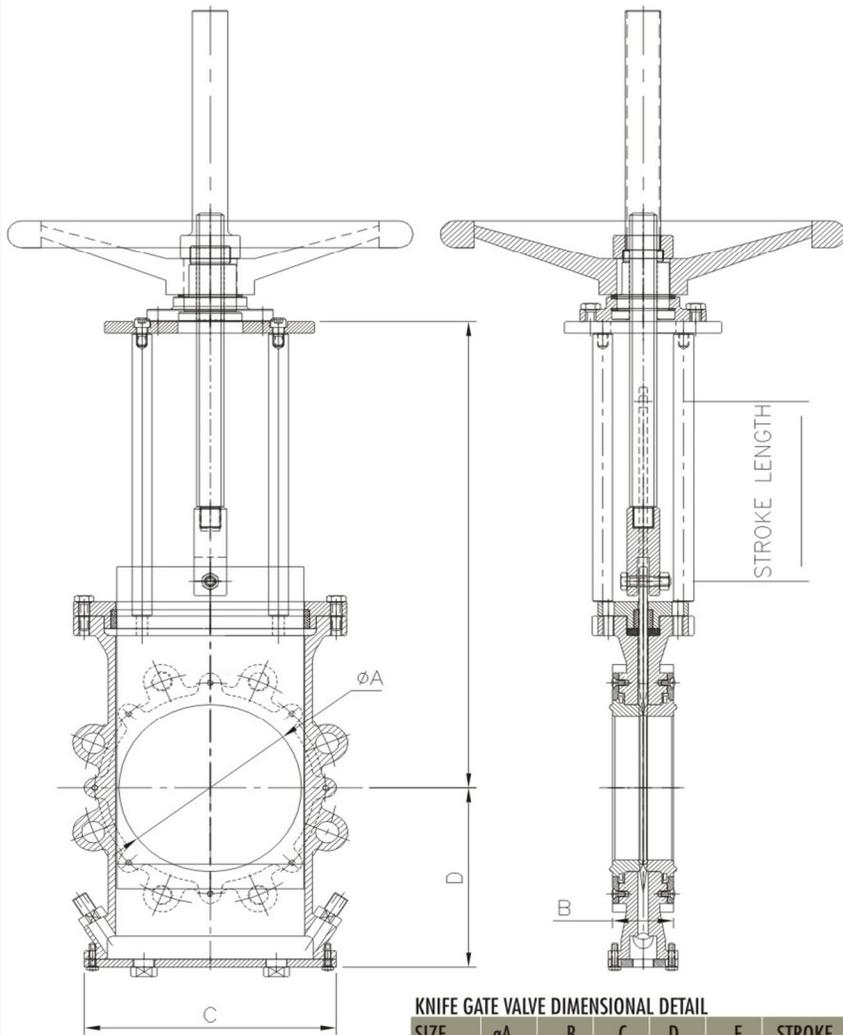
and almost every other slurry handling situation



HI-TECH BUTTERFLY VALVES INDIA PVT. LTD.



- 1 - Housing
- 2 - Seat
- 3 - Seat Retainer Ring
- 4 - Gland Packing
- 5 - Gland Seal
- 6 - Gland
- 7 - Gate
- 8 - Lead Screw
- 9 - Mounting Stud
- 10 - Flushing Nipple (inlet)
- 11 - Bottom Cover
- 12 - Flushing Nipple (outlet)
- 13 - Rubber Bellow
- 14 - Box Nut
- 15 - Mounting Plate
- 16 - Guide Plate
- 17 - Hand Wheel



KNIFE GATE VALVE DIMENSIONAL DETAIL

SIZE	ØA	B	C	D	E	STROKE LENGTH
100 MM	100	52	212	152	393	130
150 MM	150	58	240	179	486	188
200 MM	200	70	308	206	570	250
250 MM	250	70	389	253	677	320
300 MM	300	76	483	298	850	350
350 MM	350	76	475	336	918	400
400 MM	400	89	550	337	1056	450
500 MM	500	114	570	760	1475	575
600 MM	600	114	710	939	1361	650

All Dimensions are in mm

Design	- as per MSS - SP 81
Testing	- as per API - 598 / MSS - SP 82
Pressure Rating	- PN 6 / PN 10 / PN 16 / PN 25
End Connection	- ANSI B16.5 / BS 10 'D'
Face-to-face Dimension	- as per MSS - SP 81
Actuator	- Handwheel / Gear / Pneumatic / Motorised

Other advantages

- ▶ Bi-directional Shut-off
- ▶ Bi-directional full port flow reduces pressure drop and turbulence, thus minimising wear.

HI-TECH MAKE KNIFE GATE VALVES

(One Piece Body)

1. Field replaceable elastomer sleeves.
2. Dynamic self adjusting secondary seal.
3. Unobstructed flow eliminates turbulences & minimise the pressure drop across the valve
4. 100% isolation bubble tight shut off results in an absolutely zero downstream leakage.
5. Double seated design provides bidirectional flow & shut off.
6. Adaptable frame design, a top removal stem nut can be modified into the air cylinder or bevel gear in the field.
7. Body housing to suit ASME B 16.5 # 150.
8. Bottom flush plate with cavity inside for removal of slurry & contamination.
9. Flushing Nipple provided for steam to prevent solidification of slurry.
10. The knife gate can be completely withdrawn from the process flow in the open position and can be replaced without taking the valve out of service.
11. Suitable for wide range of industrial applications. Can handle dry and wet media.
12. The sleeve will be moulded with an integral inner stiffner ring that locates the seal into the valve housing and helps resist the high shearing forces when the gate is driven into them.
13. Valve shall have gland packing as a secondary seal to eliminate any leakage between knife gate and the body in any orientation and prevent outside contamination to get into the body.
14. Actuator : Manual Hand Wheel operated, Manual Bevel Gear operated, Motorised Actuator, Pneumatic Cylinder, Hydraulic Cylinder.
15. Valve can withstand higher pressure up to PN - 25 rating.



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Corporate Office : 202, Sapna Chambers, Behind Hotel Shreemaya, 12/1, South Tukoganj, INDORE-1 (MP) INDIA
Ph : 0731-2511492 Fax : 0731-2517274 e-mail : skjangid@bsnl.in

Works : Plot No. 578-579, Pithampur, Sector III, Distt. Dhar (M.P.) Phone : 07292-256371, 256372