



## **KNIFE GATE VALVE**

Proudly Manufactured in South Africa

## Knife gate valve

LVSA Knife gate valve is designed to handle suspended solids with many material options for seat and packing available as per customer requirements.

The body design is one piece with guides to support the gate and seat wedges. The bore of the valve is maximise to provide very high flow rates with low pressure drop.

An arrow on the body of the valve indicates the flow direction of the media.

### Applications :

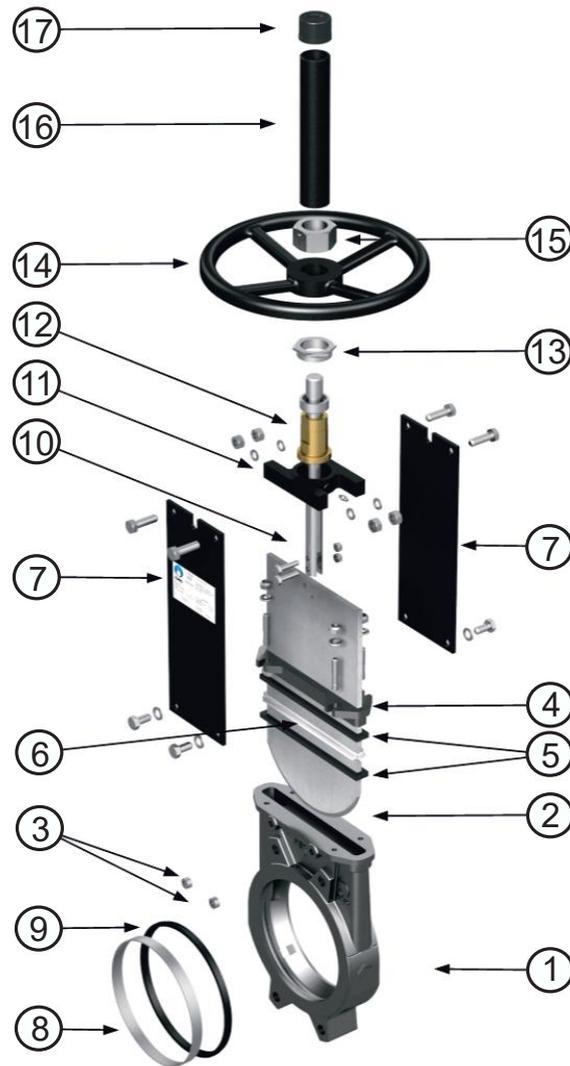
- Pulp & paper
- Mining
- Food & beverage
- Chemical plants
- Silo emptying
- Pumping
- Sewage treatment
- Water & waste water
- Sea water
- Petrochemicals
- Ash handling
- Cement Plants



### Technical specification

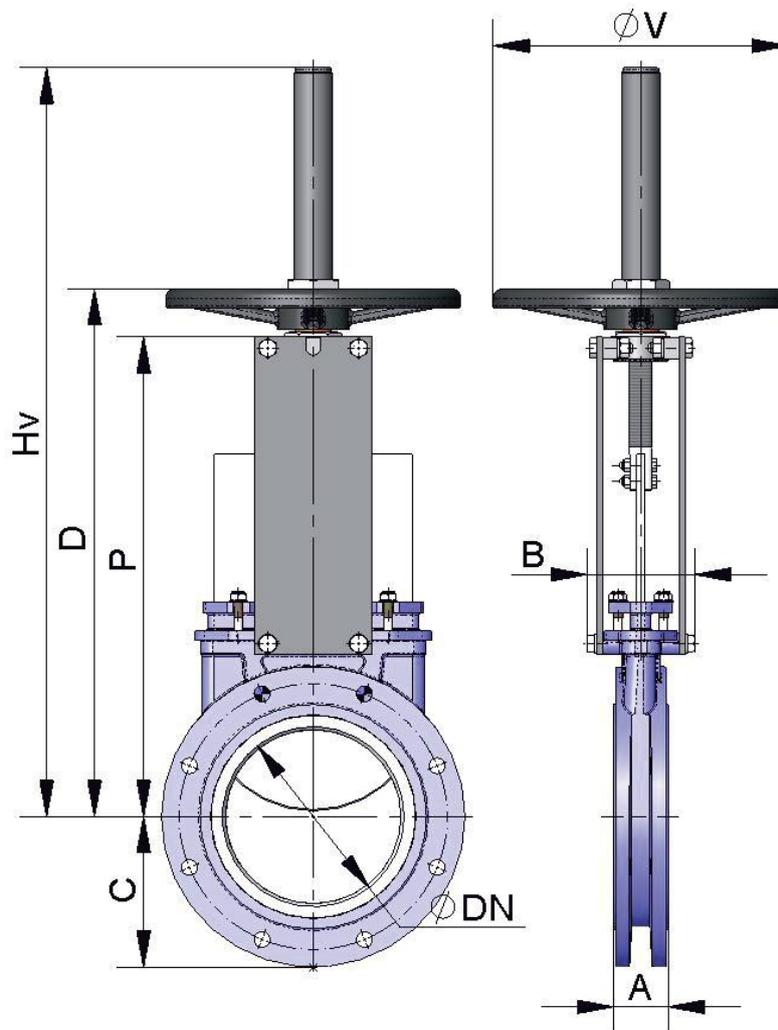
Sizes	DN50 to DN2000
Pressure class	PN 6, PN 10, PN 16, CI 150
Connection type	Semi lug, Full lug, Flanged
Flange drilling	ASME B16.5, EN 1092
Body material	Cast iron, SG iron, Carbon steel, Stainless steel and others
Seat material	EPDM, Nitrile, PTFE, Silicon, FPM and others
Testing pressures	Hydro static test = working pressure x 1.5 & Seat leakage test = working pressure x 1.1
Accessories & options	Mirror polished gate, PTFE lined gate, Stellite gate, Scraper in the packing, Air injection, Heat jacket, Flushing holes, Limit switch (mechanical & proximity type), Solenoid valve, Junction box, Mechanical stops, complete tubing.
Operator	Hand wheel, Lever, Gearbox, Chain wheel, Electric actuator, Single/Double acting pneumatic actuator without and with manual override, Hydraulic actuator





SI no	Part	Material	
		Cast iron	Stainless steel
1	Body	GJL-250	ASTM A351 Gr. CF8M
2	Gate	SS304	SS316
3	Guide	UHMW polyethylene	
4	Packing Gland	GJS-500	ASTM A351 Gr. CF8M
5	Packing	SINT + PTFE	
6	O-ring seal	EPDM	
7	Support plates	S275JR	
8	Ring	SS316	
9	Seat	EPDM	
10	Stem	SS304	
11	Yoke	GJS-500	
12	Stem nut	Bronze	
13	Check nut	St44.2 + zinc	
14	Handwheel	Nodular CI	
15	Nut	Steel	
16	Hood	Steel	
17	Top cap	Plastic	





Dimensions (Handwheel with rising stem configuration)									
Size	ΔP	A	B	C	P	Hv	D	ØV	Weight
50	10	40	92	63	241	409	280	225	7
65	10	40	92	70	268	436	307	225	8
80	10	50	92	92	294	469	333	225	9
100	10	50	92	105	334	502	373	225	11
125	10	50	102	120	367	585	406	225	13
150	10	60	102	130	419	644	458	225	17
200	8	60	119	160	525	815	578	325	28
250	6	70	119	198	626	1016	679	325	40
300	6	70	119	234	726	1116	779	380	56
350	5	96	290	256	797	1336	906	450	94
400	5	100	290	292	903	1442	1012	450	116
450	3	106	290	308	989	1628	1098	450	162
500	3	110	290	340	1101	1738	1210	450	191
600	3	110	290	400	1307	2046	1416	450	264
700	2	110	320	453	1506	-	-	-	441
800	2	110	320	503	1720	-	-	-	568
900	2	110	320	583	1953	-	-	-	736
1000	2	110	320	613	2137	-	-	-	921
1200	2	150	340	728	2616	-	-	-	1350



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**BALL VALVE**  
Proudly Manufactured in South Africa



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TAMPER PROOF  
Proudly Manufactured in South Africa



**LVSA GROUP (PTY) LTD**

**BUTTERFLY VALVE**  
SPHERICALLY PROFILED DISC  
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**LVSA GROUP (PTY) LTD**

**DIAPHRAGM VALVE**  
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**KNIFE GATE VALVE**  
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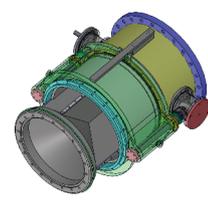
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**PRESSURE REDUCING VALVE**  
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**LVSA GROUP (PTY) LTD**

**RESILIENT SEATED GATE VALVE**  
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**LVSA GROUP (PTY) LTD**

**SLEEVE VALVE**  
GEAR AND HYDRAULIC OPERATED  
Proudly Manufactured in South Africa



**LVSA GROUP (PTY) LTD**

**WEDGE GATE VALVE**  
Proudly Manufactured in South Africa

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