

## KNIFE GATE VALVE

Lug/wafer knife gate valves are bi-directional with full and plane bore. The protected sealings and high quality materials bring about a great performance and a long service life. Knife gate valves are available with lever, non-rising stem and handwheel, rising stem and handwheel, pneumatic actuator, ISO top flange for actuator or complete with electric actuator.

### Product description:

Knife gate valve with non-rising stem and handwheel for wastewater treatment 0°C to +80°C

### Standards:

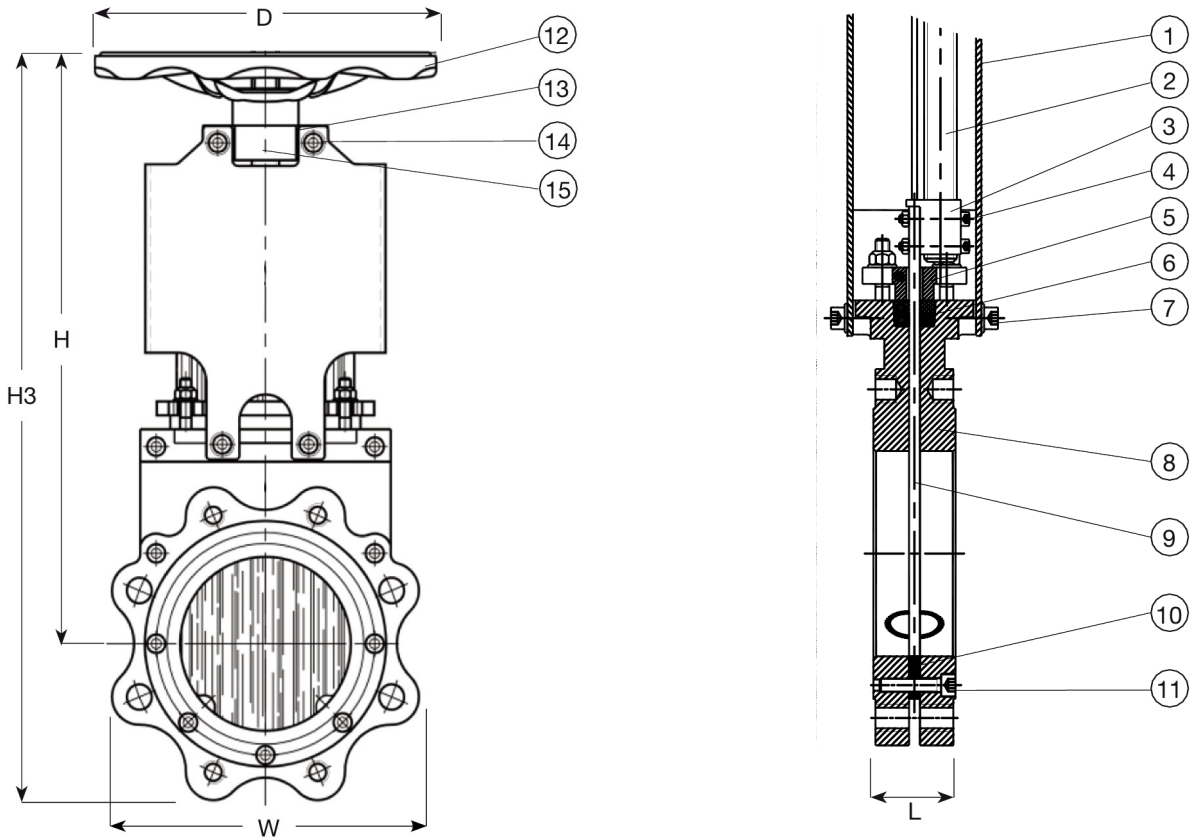
- Face to face according to DIN/EN 558-1, series 20 (K1), up to and incl. DN 350
- Standard flange drilling to EN1092 -2 (ISO 7005 -2), PN 10/16

### Features:

- Replaceable top packing gland enables sealing replacement without disassembly of the valve
- The valve is self cleaning as particles will be pushed off the gate when opening the valve. For extra protection of the packing gland a scraper is available as an optional extra.
- Bi-directional, can be installed independent of the flow direction
- Full bore with no reduction of the flow
- Plane bottom prevents sediment from being accumulated
- No cavity in the body and thus no risk of clogging
- U-shaped one-piece NBR sealing between the body parts makes up for tolerances in coating and casting. It is reinforced with a steel insert to protect it from being damaged during operation.
- Encaged stem with yokes prepared for mounting of micro switches and inductive sensors
- Stem and gate connection is secured with self-locking nuts
- Supports integrated in the body casting protect the gate from deflecting under pressure
- Body of ductile iron with 150 µ fusion bonded epoxy coating. Optionally of acid-resistant stainless steel or duplex.
- Gate, stem, bolts and nuts of acid-resistant stainless steel
- Washers under the bolts protect the coating
- Slim design and low weight
- Approved according to the 97/23/CE European Pressure Equipment Directive
- Approved according to the 94/9/94EC, ATEX Directive
- Available in larger dimensions
- Optionally in higher PN class



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### Component list:

1. Plate	Carbon steel, epoxy coated	9. Gate	Stainless steel 316
2. Stem	Stainless steel 316	10. U-shaped seal	Steel / NBR
3. Stem nut	Bronze	11. Bolt	Stainless steel A4
4. Bolt	Stainless steel A4	12. Handwheel	Steel
5. Top packing gland	Ductile iron GJS-400-15 (GGG-40)	13. Washer	Stainless steel A4
6. Packing	NBR + PTFE	14. Bolt	Stainless steel A4
7. Bolt	Stainless steel A4	15. Bearing	Carbon steel, epoxy coated
8. Body	Ductile iron GJS-400-15 (GGG-40)		

### Dimensions:

	DN	Flange	L	H	H3	D	Test pressure	Working Pressure	Theoretical weight / kg
	mm	drilling	mm	mm	mm	mm	bar	bar	
	50	PN10/16	43	292	356	175	15	10	6.0
	65	PN10/16	46	317	388	175	15	10	7.0
	80	PN10/16	46	361	451	225	15	10	13
	100	PN10/16	52	396	496	225	15	10	15
	125	PN10/16	56	432	545	225	15	10	19
	150	PN10/16	56	523	658	300	15	10	26
	200	PN10	60	623	789	300	15	10	43
	250	PN10	68	729	928	300	15	10	58
	300	PN10	78	858	1084	400	15	10	83
	350	PN10	78	951	1208	400	9	6	107
	400	PN10	90	1059	1321	400	9	6	140
	450	PN10	90	1264	1547	500	6	4	240
	500	PN10	95	1308	1631	500	6	4	260
	600	PN10	105	1497	1910	500	6	4	340