



AVK KNIFE GATE VALVE, PN10

702/50-103

ISO top flange for mounting of electric actuator, replaceable top packing gland

AVK 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. AVK 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 rising stem and ISO flange prepared for el-act. for wastewater treatment 0°C to +80°C

Design standards:

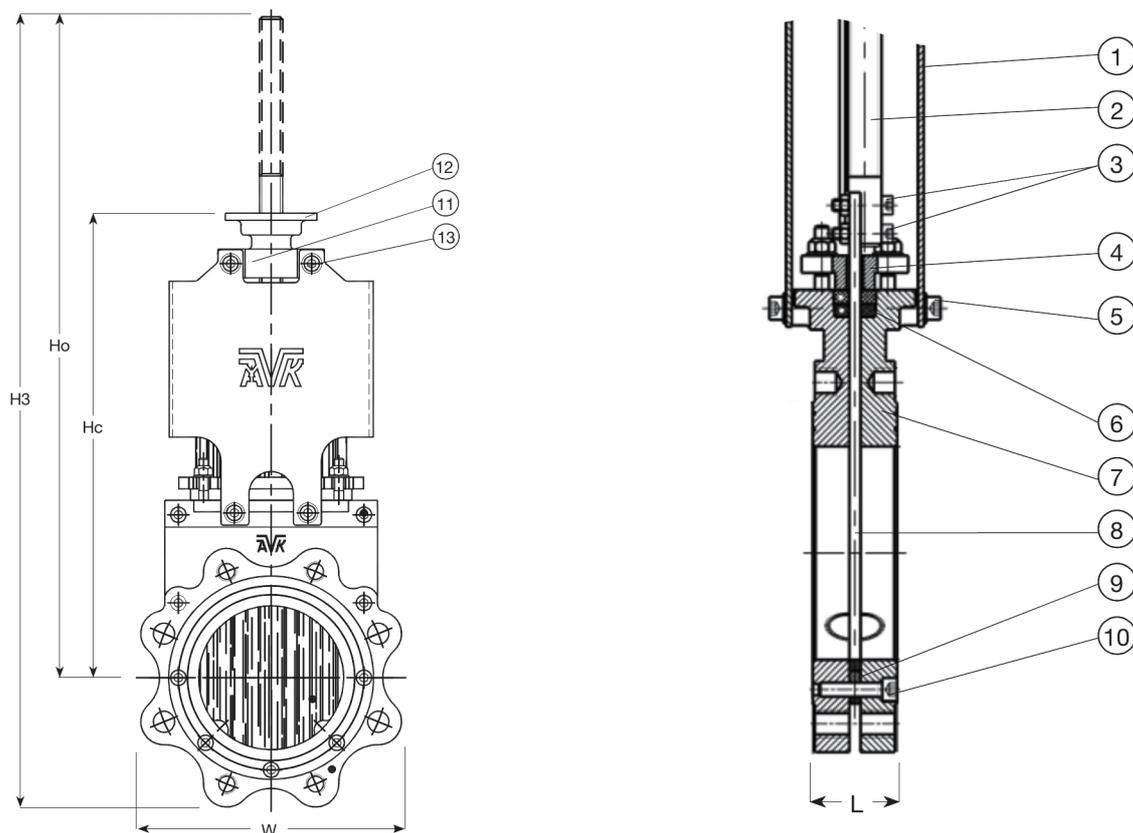
- Face-to-face dimension according to DIN/EN 558-1, series 20 (K1), up to and incl. DN 350
- Flange drilling to EN1092, PN10/16

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 100-150 µm UV resistant polyester coating, RAL 5017. Optionally of acid-resistant stainless steel or duplex
- Yokes of carbon steel with coating 100-150 µm of plascoat PPA 571 Aqua
- 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	8. Gate	Stainless steel AISI 316
2. Stem	Stainless steel AISI 316	9. U-shaped seal	Steel / NBR
3. Bolt	Stainless steel A4	10. Bolt	Stainless steel A4
4. Top packing gland	Ductile iron GJS-400-15	11. Bearing	Carbon steel
5. Bolt	Stainless steel A4	12. ISO flange	Carbon steel
6. Packing	NBR + PTFE	13. Bolt/nut	Stainless steel A4
7. Body	Ductile iron GJS-400-15		

Components may be substituted with equivalent or higher class materials without prior notification.

Reference nos. and dimensions:

AVK ref. no.	DN	Flange	L	H3	H closed	H open	W	Test pressure	Work press.	Theoretical weight/kg
	mm	drilling	mm	mm	mm	mm	mm	bar	bar	
702-0050-10-0000446	50	PN10	43	472	300	407	130	15	10	7.5
702-0065-10-0000446	65	PN10	46	516	325	444	143	15	10	9.6
702-0080-10-0000501	80	PN10	46	591	357	499	183	15	10	13
702-0100-10-0000513	100	PN10	52	684	392	582	202	15	10	15
702-0125-10-0000503	125	PN10	56	733	428	618	229	15	10	20
702-0150-10-0000504	150	PN10	56	867	510	732	267	15	10	29
702-0200-10-0000561	200	PN10	60	1044	610	882	326	15	10	43
702-0250-10-0000563	250	PN10	68	1243	716	1044	395	15	10	61
702-0300-10-0000491	300	PN10	78	1445	834	1219	451	15	10	83
702-0350-10-0000563	350	PN10	78	1619	927	1362	518	9	6	122
702-0400-10-0000472	400	PN10	90	1800	1035	1510	576	9	6	157
702-0450-10-0000459	450	PN10	90	2030	1167	1717	618	6	4	235
702-0500-10-0000440	500	PN10	95	2175	1211	1826	698	6	4	289
702-0600-10-0000440	600	PN10	105	2527	1400	2115	817	6	4	397

The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.