



## AVK KNIFE GATE VALVE, PN10

702/10-103

### Non-rising stem and handwheel, 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 non-rising stem and handwheel for wastewater treatment 0°C to +80°C

#### Design standards:

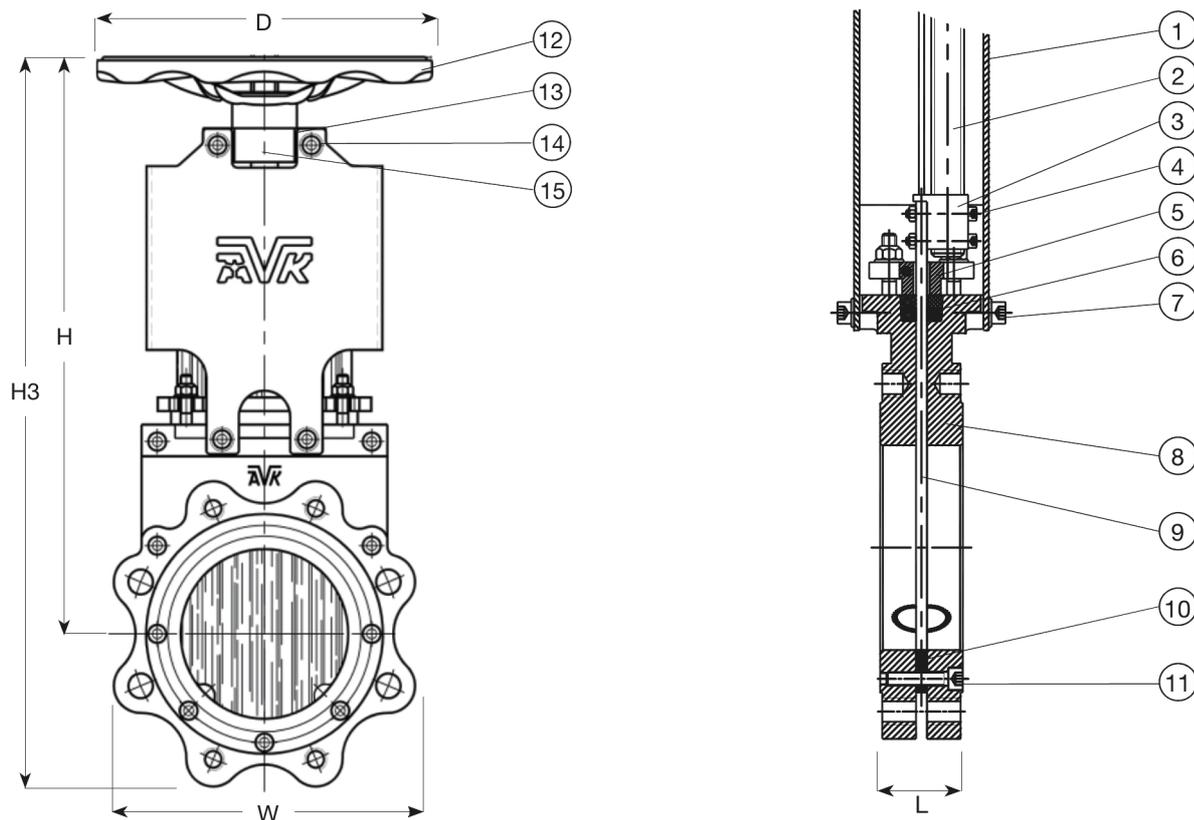
- Face-to-face dimension according to DIN/EN 558-1, series 20 (K1), up to and incl. DN 350
- Flange drilling to EN1092, PN10/16

#### 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	9. Gate	Stainless steel AISI 316
2. Stem	Stainless steel AISI 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	13. Washer	Stainless steel A4
6. Packing	NBR + PTFE	14. Bolt	Stainless steel A4
7. Bolt	Stainless steel A4	15. Bearing	Carbon steel
8. 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	H	H3	D	W	Test pressure	Work press.	Theoretical
	mm	drilling	mm	mm	mm	mm	mm	bar	bar	weight/kg
702-0050-10-0000141	50	PN10	43	292	357	175	131	15	10	6.7
702-0065-10-0000141	65	PN10	46	317	389	175	143	15	10	8.2
702-0080-10-0000143	80	PN10	46	361	453	225	184	15	10	12
702-0100-10-0000152	100	PN10	52	396	497	225	202	15	10	14
702-0125-10-0000154	125	PN10	56	432	547	225	230	15	10	19
702-0150-10-0000155	150	PN10	56	523	658	300	270	15	10	29
702-0200-10-0000031	200	PN10	60	623	788	300	331	15	10	44
702-0250-10-0000031	250	PN10	68	729	927	300	397	15	10	62
702-0300-10-0000028	300	PN10	78	858	1084	400	452	15	10	86
702-0350-10-0000031	350	PN10	78	951	1210	400	518	9	6	124
702-0400-10-0000020	400	PN10	90	1059	1347	400	576	9	6	160
702-0450-10-0000025	450	PN10	90	1206	1479	500	546	6	4	228
702-0500-10-0000017	500	PN10	95	1308	1657	500	698	6	4	279
702-0600-10-0000017	600	PN10	105	1497	1905	500	817	6	4	374

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