



## AVK KNIFE GATE VALVE, PN10

702/40-103

### Double acting pneumatic 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 pneumatic double-acting actuator 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

#### Test/Approvals:

- ISO 9001 certified - SAI Global Quality
- ISO 14001 certified - SAI Global Environment

#### Features:

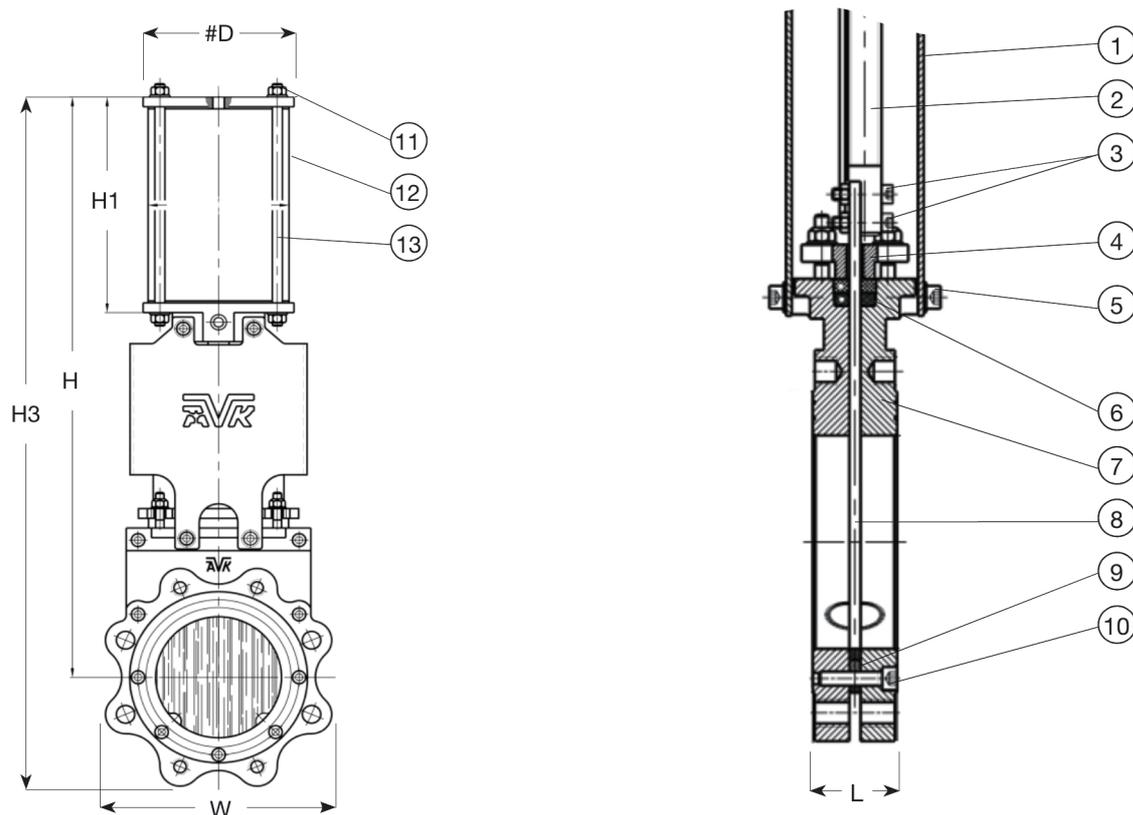
- Replaceable top packing gland enables sealing replacement without disassembly of the valve
- The valve is self cleaning as particles will be pushed off the gate when opening the valve. For extra protection of the packing gland a scraper is available as an optional extra.
- Bi-directional, can be installed 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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The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.



**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. Nut	Stainless steel A4
5. Bolt	Stainless steel A4	12. Pneumatic actuator	Aluminium
6. Packing	NBR + PTFE	13. Rod	Carbon steel
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	H	H1	H3	W	D	Test pressure	Work press.	Theoretical
	mm	drilling	mm	mm	mm	mm	mm	mm	bar	bar	weight/kg
702-0050-10-0000123	50	PN10	43	398	147	506	131	106x130	15	10	14
702-0065-10-0000123	65	PN10	46	436	160	557	143	106x130	15	10	16
702-0080-10-0000121	80	PN10	46	486	177	613	184	140	15	10	22
702-0100-10-0000130	100	PN10	52	541	197	683	202	140	15	10	25
702-0125-10-0000134	125	PN10	56	612	232	788	230	160	15	10	28
702-0150-10-0000135	150	PN10	56	732	267	942	270	180	15	10	41
702-0200-10-0000019	200	PN10	60	892	327	1147	331	210	15	10	64
702-0250-10-0000019	250	PN10	68	1046	375	1348	397	210	15	10	86
702-0300-10-0000018	300	PN10	78	1217	428	1571	452	210	15	10	115
702-0350-10-0000019	350	PN10	78	1381	499	1789	518	290	9	6	155
702-0400-10-0000012	400	PN10	90	1539	549	1997	576	290	9	6	194
702-0450-10-0000017	450	PN10	90	1711	594	2220	560	360	6	4	313
702-0500-10-0000011	500	PN10	95	1875	656	2473	698	360	6	4	325
702-0600-10-0000011	600	PN10	105	2164	756	2857	817	350	6	4	430

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