



## AVK GATE VALVE FOR ACTUATION, PN 16, CTC

### DN50-400 Clockwise to Close and Clockwise to Open

21/78-001

The Series 21/78 is a resilient seat, wedge gate valve with an ISO mounting gland flange for the safe and cost effective fitting of gearboxes and actuators. Suitable for use with water and neutral liquids, to a maximum temperature of +70°C.

#### Product description:

Resilient seated gate valve to BS EN 1074-2 for water and waste water. Temperature range: -10° C to +70° C. Max 10% solid matter. Insulation essential for temperatures of 0° and below.

#### Standards:

- Designed according to EN 1074 part 1 & 2
- Face-to-face dimension according to EN 558 Table 2 Basic Series 3
- Flange drilling to EN1092, PN16
- WIMES 8.09 Compliant

#### Test/Approvals:

- Hydraulic test according to EN 1074-1 and 2 / EN 12266
- Seat: 1.1 x PN. Body: 1.5 x PN.
- Approved according to WRAS
- Drinking Water Inspectorate Regulation 31 compliant

#### Features:

- ISO flange gland version for gearbox and actuator mounting.
- Ductile iron wedge, fully vulcanized with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Corrosion resistant construction, ductile iron coated with WRAS approved epoxy coating Blue RAL 5017, to 250 microns min. Holiday free in accordance with WIS 04-52-01.
- Body, bonnet and gland bolts sealed with hot melt.
- Lifting bars - see safety note below.
- Sizes DN50-150 have ISO mounting flange F10 only.
- Sizes DN200-400 ISO mounting flange is double drilled F10/F14.
- **Options:**
  - Electric actuation.
  - Bevel or spur gearboxes.
  - Alternative flange drilling.
- **Safety Note:**
  - The valves now accommodate lifting bars for the safe handling of valves. These lifting bars are rated to the weight of the bare valve and stem cap (where fitted) only and should not be utilised if the valve is fitted with pipe, mechanical pipe joints, gearboxes, actuators or any other external fitment. AVK will not accept any responsibility for loss or damage if the lifting bars are not used in strict accordance with this guidance.

#### Accessories:

Full range of flange adaptors, dismantling joints, gearboxes and electric actuators.

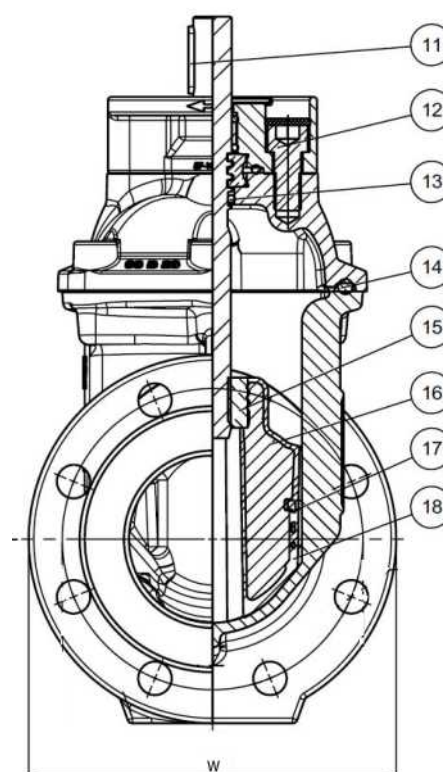
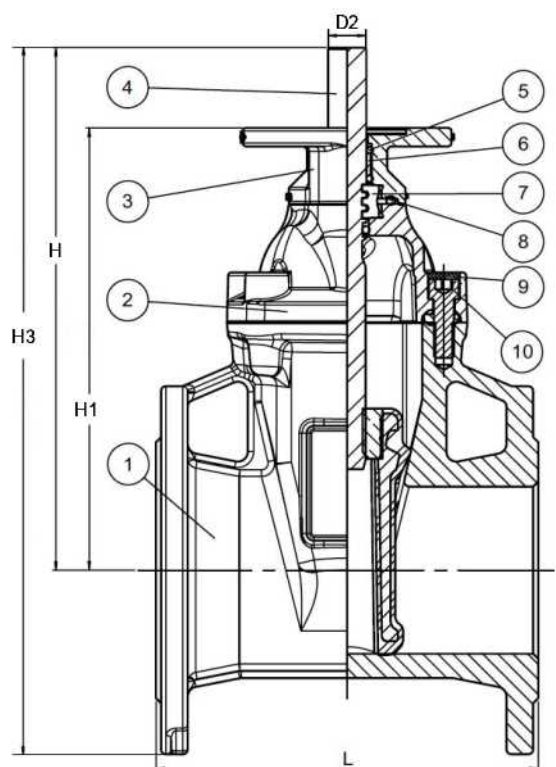


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The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.

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**Component list:**

1. Body	Ductile iron GJS-500-7 (GGG-50)	11. Key	Stainless steel A4
2. Bonnet	Ductile iron GJS-500-7 (GGG-50)	12. Bolt	Steel gr. 8.8, zinc plated, passivated
3. ISO flange	Ductile iron GJS-500-7 (GGG-50)	13. O-ring	NBR rubber
4. Stem	Stainless steel 1.4401	14. Bonnet gasket	EPDM rubber
5. O-ring	NBR rubber	15. Wedge nut	Brass DZR
6. Bushing	Polyamide	16. Wedge core	Ductile Iron
7. Thrust collar	Brass DZR	17. Wedge shoe	Polyamide
8. O-ring	NBR rubber	18. Wedge rubber	EPDM rubber
9. Seal	Hot melt glue	19. Coating	Epoxy
10. Bolt	Steel gr. 8.8, zinc plated, passivated		

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

**Reference nos. and dimensions:**

AVK ref. no.	DN	Operating Direction	H3	H	H1	L	D2	W	Torque Nm	Theoretical weight/kg
21-050-78-0140069	50	CTC	310	228	190	178	20	165	95	11
21-050-78-1140069	50	CTO	310	228	190	178	20	165	95	11
21-065-78-0140069	65	CTC	341	228	248	190	20	185	60	13
21-080-78-0140069	80	CTC	384	284	237	203	23	200	90	17
21-080-78-1140069	80	CTO	384	284	237	203	23	200	90	17
21-100-78-0140069	100	CTC	422	312	265	229	23	220	90	22
21-100-78-1140069	100	CTO	422	312	265	229	23	220	90	22
21-150-78-0140069	150	CTC	551	408	359	267	23	285	150	40
21-150-78-1140069	150	CTO	551	408	359	267	23	285	150	40
21-200-78-0140069	200	CTC	678	508	462	292	23	340	130	55
21-200-78-1140069	200	CTO	678	508	462	292	23	340	130	55
21-250-78-0140069	250	CTC	776	576	531	330	23	400	120	84
21-250-78-1140069	250	CTO	776	576	531	330	23	400	120	84
21-300-78-0140069	300	CTC	880	652	607	356	23	455	100	122
21-300-78-1140069	300	CTO	880	652	607	356	23	455	100	122

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AVK ref. no.	DN	Operating	H3	H	H1	L	D2	W	Torque	Theoretical
	mm	Direction	mm	mm	mm	mm	mm	mm	Nm	weight/kg
21-350-781140069	350	CTO	880	652	607	356	23	455	200	122
21-400-78-0140069	400	CTC	880	652	607	356	23	455	250	223
21-400-781140069	400	CTO	880	652	607	356	23	455	250	223