



AVK RESILIENT SEATED GATE VALVE, PN16

21/50-009

Ductile Iron, Stem Cap/Insert, for Smart Water

The 21/50-009 Smart Water resilient seat, wedge gate valve for isolation purposes. These valves are equipped with a VIDI Positioner, a smart device for indicating the position of gate valves and whether it is open, close, or any percentage in between and transmits the data wirelessly. Based on the data provided, water utilities can optimise the operation of the water distribution network, asset auditing, efficiently lower water loss.

Product description:

Resilient seat gate valve to BS EN 1074-2 / BS 5163-1 for water and waste water. Temperature range: -10° C to +70° C. 10% solid matter. Insulation essential for temperatures of 0° C and below. Maximum Working pressure: 16 Bar.

Design standards:

- 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
- Approved according to WRAS
- Drinking Water Inspectorate Regulation 31 compliant

Features:

- Communication: NB-IoT (band 8 & 20) or LoRa® (868MHz).
- Detects the position of the valve and transmits data and alerts to the VIDI Cloud or a third-party software.
- Fitted with an AVK status indicator - see product reference 3004/100-001
- Cap top as standard.
- Ductile iron wedge, fully vulcanized with EPDM rubber.
- O-ring stem seals replaceable under pressure.
- Fully corrosion resistant construction.
- Blue fusion bonded epoxy coating, in accordance with WIS 4-52-01.
- Body, bonnet and gland bolts sealed with hot melt.
- Lifting bars.
- Embodied Carbon Data available upon request.
- **Options:**
 - DN80-200 see 21/35-002
 - PN10 flange drilling
 - Version available for salt laden environments see 21/58-001
- **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.

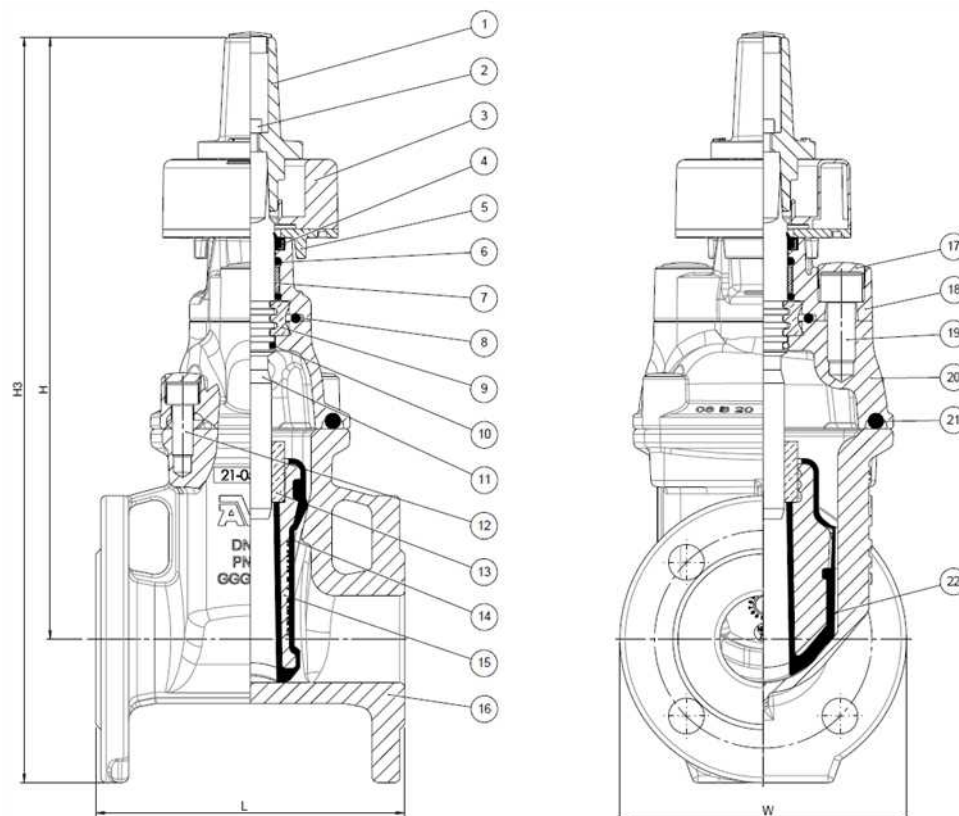
Accessories:

- Full range of flange adaptors and dismantling joints. Status Indicator 3004/100-001.



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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. Stem cap	Cast iron GJL-250 (GG-25)	12. Bolt	Steel gr. 8.8
2. Screw	Steel gr. 8.8	13. Wedge nut	Brass DZR CW626N
3. Position sensor	Plastic	14. Wedge	EPDM rubber
4. Wiper ring	NBR rubber	15. Wedge core	Ductile iron GJS-500-7 (GGG-50)
5. Base	Plastic	16. Body	Ductile iron GJS-500-7 (GGG-50)
6. O-ring	NBR rubber	17. Hot melt	Hot melt glue
7. Bearing	Nylon	18. Gland	Ductile iron GJS-500-7 (GGG-50)
8. O-ring	NBR rubber	19. Bolt	Steel gr. 8.8
9. Thrust collar	Brass DZR	20. Bonnet	Ductile iron GJS-500-7 (GGG-50)
10. O-ring	NBR rubber	21. Gasket	EPDM rubber
11. Stem	Stainless steel 1.4021	22. Wedge shoe	Nylon

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

Reference nos. and dimensions:

AVK ref. no.	DN mm	Operating Direction	Flange drilling	L mm	H3 mm	H mm	F1 mm	W mm	Theoretical weight/kg
21-050-50-J140069009	50	CTC	PN10/16	178	429	347	19	165	14
21-050-50-J140069010	50	CTC	PN10/16	178	429	347	19	165	14