



AVK RESILIENT SEATED GATE VALVE, PN16

21/35-002

With stem cap/Insert for Smart Water

The 21/35-002 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 for water. Temperature range: -10° C to +70° C.

Design standards:

- BS5163 Type B, 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.
- Cap top as standard.
- Fitted with an AVK status indicator - see product reference 3004/100-001
- The 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 - Class B.
- Body, bonnet and gland bolts sealed with hot melt
- Lifting bars.
- Patent pending.
- Embodied Carbon Data available upon request
- **Options:** Clock wise to open (red stem cap insert), clock wise to close (white stem cap insert). DN50 option - see 21/50-009.

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.

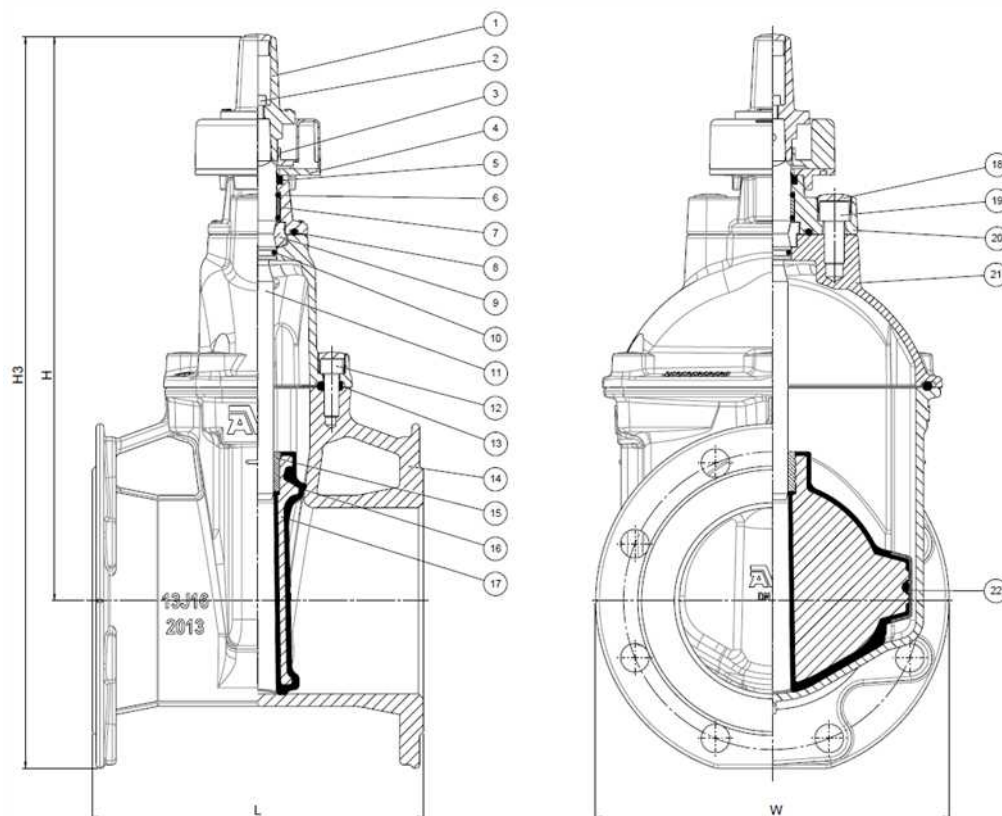
Accessories:

Extension spindle, full range of flange adaptors and dismantling joints. Status indicator 3004/100-001.



Expect... **AVK**

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. Gasket	EPDM rubber
3. Position sensor	Plastic	14. Body	Ductile iron GJS-500-7 (GGG-50)
4. Base	Plastic	15. Wedge nut	Brass DZR CW626N
5. Wiper ring	NBR rubber	16. Wedge	EPDM rubber
6. O-ring	NBR rubber	17. Wedge core	Ductile iron GJS-500-7 (GGG-50)
7. Bearing	Nylon	18. Hot melt	Hot melt glue
8. O-ring	NBR rubber	19. Bolt	Steel gr. 8.8
9. Thrust collar	Brass DZR	20. Gland	Ductile iron GJS-500-7 (GGG-50)
10. O-ring	NBR rubber	21. Bonnet	Ductile iron GJS-500-7 (GGG-50)
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	Flange drilling	Operating Direction	L mm	H mm	H3 mm	F1 mm	Theoretical weight/kg
21-080-35-J140069009	80	PN10/16	CTC	203	343	438	19	14
21-080-35-J140069010	80	PN10/16	CTC	203	343	438	19	14
21-100-35-J140069009	100	PN10/16	CTC	229	364	469	19	17
21-100-35-J140069010	100	PN10/16	CTC	229	364	469	19	17
21-150-35-J140069009	150	PN10/16	CTC	267	454	589	19	29
21-150-35-J140069010	150	PN10/16	CTC	267	454	589	19	29
21-200-35-J140069009	200	PN16	CTC	292	544	710	19	47
21-200-35-J140069010	200	PN16	CTC	292	544	710	19	47