



AVK GATE VALVE, PN16

21/50-002

Clockwise to Close / Open. Product upgraded - see 21/35-001

The Series 21/50 is a resilient seat, wedge gate valve for isolation purposes suitable for use with water and neutral liquids (sewage) to a maximum temperature +70°C.

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
- WRAS approved to max. 50°C
- Drinking Water Inspectorate Regulation 31 compliant

Features:

- 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.
- **Options:**
 - PN10 flange drilling.
 - ISO flange gland version for gearbox and actuator mounting (21/78).
 - Version available for salt laden environments (21/58).
- **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:

- Hand wheel.
- Full range of flange adaptors and dismantling joints.



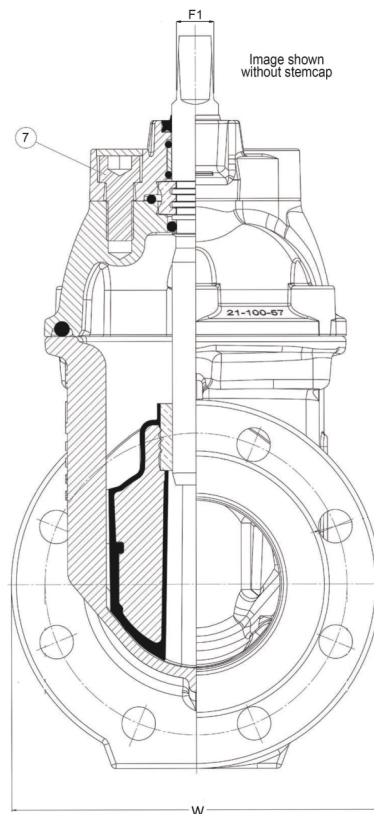
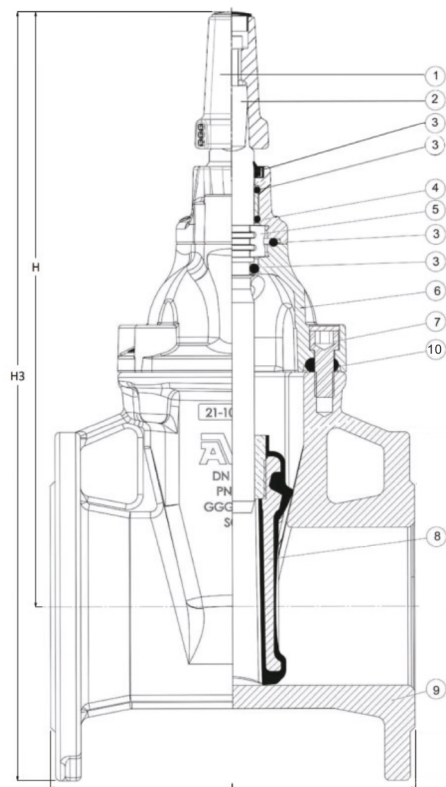
Expect... **AVR**

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Component list:

| | | | |
|------------------|---------------------------------|-------------------|---------------------------------|
| 1. Stem cap | Cast iron GJL-250 (GG-25) | 7. Bonnet bolt | Steel gr. 8.8 |
| 2. Stem | Stainless steel 1.4021 | 8. Wedge | Ductile iron GJS-500-7 (GGG-50) |
| 3. Seals | NBR rubber | 9. Body | Ductile iron GJS-500-7 (GGG-50) |
| 4. Gland flange | Ductile iron GJS-500-7 (GGG-50) | 10. Bonnet gasket | EPDM rubber |
| 5. Thrust collar | Brass DZR | 11. Coating | Epoxy |
| 6. Bonnet | Ductile iron GJS-500-7 (GGG-50) | | |

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 |
|-------------------|----------|------------------------|--------------------|---------|----------|---------|----------|---------|--------------------------|
| 21-050-50-2140069 | 50 | CTC | PN10/16 | 178 | 409 | 326 | 19 | 165 | 14 |
| 21-050-50-3140069 | 50 | CTO | PN10/16 | 178 | 409 | 326 | 19 | 165 | 14 |
| 21-080-50-2140069 | 80 | CTC | PN10/16 | 203 | 439 | 339 | 19 | 200 | 17 |
| 21-080-50-3140069 | 80 | CTO | PN10/16 | 203 | 439 | 339 | 19 | 200 | 17 |
| 21-100-50-2140069 | 100 | CTC | PN10/16 | 229 | 481 | 371 | 19 | 220 | 23 |
| 21-100-50-3140069 | 100 | CTO | PN10/16 | 229 | 481 | 371 | 19 | 220 | 23 |
| 21-150-50-2140069 | 150 | CTC | PN10/16 | 267 | 646 | 503 | 24 | 285 | 41 |
| 21-150-50-3140069 | 150 | CTO | PN10/16 | 267 | 646 | 503 | 24 | 285 | 41 |
| 21-200-50-2140069 | 200 | CTC | PN16 | 292 | 762 | 592 | 27 | 340 | 56 |
| 21-200-50-3140069 | 200 | CTO | PN16 | 292 | 762 | 592 | 27 | 340 | 56 |
| 21-250-50-2140069 | 250 | CTC | PN16 | 330 | 880 | 680 | 27 | 400 | 85 |
| 21-250-50-3140069 | 250 | CTO | PN16 | 330 | 880 | 680 | 27 | 400 | 85 |
| 21-300-50-2140069 | 300 | CTC | PN16 | 356 | 986 | 758 | 27 | 455 | 123 |
| 21-300-50-3140069 | 300 | CTO | PN16 | 356 | 986 | 758 | 27 | 455 | 123 |
| 21-350-50-2140069 | 350 | CTC | PN16 | 381 | 1088 | 821 | 37 | 554 | 214 |
| 21-350-50-3140069 | 350 | CTO | PN16 | 381 | 1088 | 821 | 37 | 554 | 214 |
| 21-400-50-2140069 | 400 | CTC | PN16 | 406 | 1138 | 848 | 37 | 580 | 221 |
| 21-400-50-3140069 | 400 | CTO | PN16 | 406 | 1138 | 848 | 37 | 580 | 221 |

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