



AVK GATE VALVE, PN16

21/35-001

With stem cap/Insert

The 21/35 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 for water and waste 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
- WRAS approved to max. 50°C
- Drinking Water Inspectorate Regulation 31 compliant

Features:

- Cap top as standard.
- 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.
- Internal holiday free coating.
- **Options:**
 - ISO flange gland version for gearbox and actuator mounting (21/37 and 21/78).
 - Clock wise to open (red stem cap insert), clock wise to close (white stem cap insert).
 - Version available for salt laden environments (21/58).
 - Bypass valve available on DN350 & 400 sizes.
- **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.

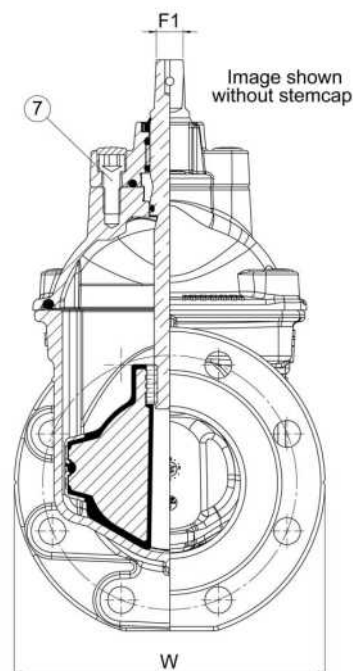
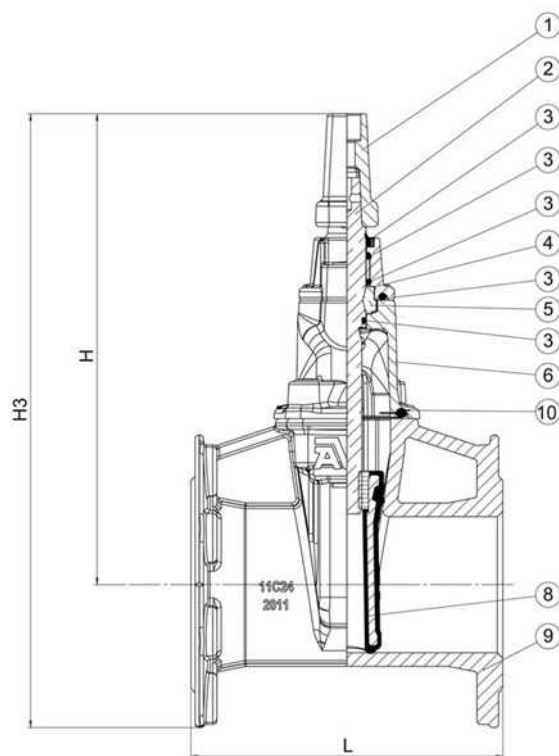
Accessories:

Handwheels, extension spindle, full range of flange adaptors and dismantling joints.



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Component list:

1. Stem cap	Cast iron GJL-250 (GG-25)	7. Bolt	Steel gr. 8.8
2. Stem	Stainless steel 1.4021	8. Wedge	Ductile iron GJS-500-7 (GGG-50)
3. Seal	NBR rubber	9. Body	Ductile iron GJS-500-7 (GGG-50)
4. Gland flange assembly	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	Flange drilling	Operating Direction	L mm	H mm	W mm	H3 mm	F1 mm	Number of bolts	Turns to open	Theoretical weight/kg
21-050-35-2140069	50	PN10/16	CTC	178	318	165	400	19	4	5	14
21-050-35-3140069	50	PN10/16	CTO	178	318	165	400	19	4	5	14
21-080-35-2140069	80	PN10/16	CTC	203	318	203	413	19	8	7.5	14
21-080-35-3140069	80	PN10/16	CTO	203	318	203	413	19	8	7.5	14
21-100-35-2140069	100	PN10/16	CTC	229	338	229	443	19	8	8.5	17
21-100-35-3140069	100	PN10/16	CTO	229	338	229	443	19	8	8.5	17
21-150-35-2140069	150	PN10/16	CTC	267	428	267	563	19	8	12.5	29
21-150-35-3140069	150	PN10/16	CTO	267	428	267	563	19	8	12.5	29
21-200-35-2140069	200	PN16	CTC	292	515	292	681	19	12	16.5	47
21-200-35-3140069	200	PN16	CTO	292	515	292	681	19	12	16.5	47
21-250-35-2140069	250	PN16	CTC	330	662	400	862	27	12	21	84
21-250-35-3140069	250	PN16	CTO	330	662	400	862	27	12	21	84
21-300-35-2140069	300	PN16	CTC	356	739.5	455	967	27	12	25	117
21-300-35-3140069	300	PN16	CTO	356	739.5	455	967	27	12	25	117
21-350-35-2140069	350	PN16	CTC	381	821	554	1088	37	16	27	214
21-350-35-3140069	350	PN16	CTO	381	821	554	1088	37	16	27	214
21-350-35-G140069 ⁽¹⁾	350	PN16	CTC	381	821	554	1088	37	16	27	225
21-350-35-H140069 ⁽²⁾	350	PN16	CTO	381	821	554	1088	37	16	27	225
21-400-35-2140069	400	PN16	CTC	406	848	580	1138	37	16	29	220
21-400-35-3140069	400	PN16	CTO	406	848	580	1138	37	16	29	220

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Reference nos. and dimensions:

AVK ref. no.	DN	Flange	Operating	L	H	W	H3	F1	Number	Turns	Theoretical
	mm	drilling	Direction	mm	mm	mm	mm	mm	of bolts	to open	weight/kg
21-400-35-G140069 ⁽¹⁾	400	PN16	CTC	406	848	580	1138	37	16	29	231
21-400-35-H140069 ⁽²⁾	400	PN16	CTO	406	406	580	1138	37	16	29	231

(1) G - bypass fitted to CTC valve
(2) H - bypass fitted to CTO valve