



AVK METAL SEATED GATE VALVE, Reservoir Specification

54/41-A01

Shoes & Channels, jacking screws, Grade A4 fasteners, DN350 - 600



The AVK Series 54 Reservoir Specification metal seated gate valve is designed to offer a more robust solution to gate valves installed on more arduous conditions. This valve can be used on installations where higher flow velocities occur - typically dams and reservoirs applications. Consideration to the valve design ensures that this valve will provide increased longevity under these tougher conditions.



Product Description

Metal seated gate valve for drinking water and neutral liquids to maximum 70°C.

Standards:

- Designed according to EN 1074 part 1 & 2
- Face-to-face dimension according to EN 558 Table 2 Basic Series 19
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN16

Test/Approvals:

- Seat: 1.1 x PN. Body: 1.5 x PN. Leakage Rate 'B' on seat test only.
- Hydraulic test according to EN1074-1 and 2 / EN12266-1
- WRAS approved materials



Features:

- Ring firmly secured by mechanical fasteners to the wedge and body, machined to a smooth surface finish to ensure optimal sealing contact.
- Shoes and channel guides ensure uniform closure and reduced levels of vibration under increased flow conditions. Also provides accurate alignment, reduced friction and reduced wear and tear.
- A through bore housing for the stem in the wedge prevents stagnant water and build up of impurities.
- The round EPDM body-bonnet O-ring gasket is fixed in a recess to avoid blow-out.
- Full bore design for maximum system efficiency.
- Integrally cast lifting eyes for improved handling and installation.
- Jacking / easing screws included for improved maintenance purposes.
- Internal and external blue fusion bonded epoxy coating 300um.
- Clockwise to close operation as standard, clockwise to open available upon request.
- Stainless steel fasteners for increased corrosion protection.
- PN25 rated version available upon request.
- Alu - bronze wedge nut with lubricating abilities providing optimum compatibility with stem.

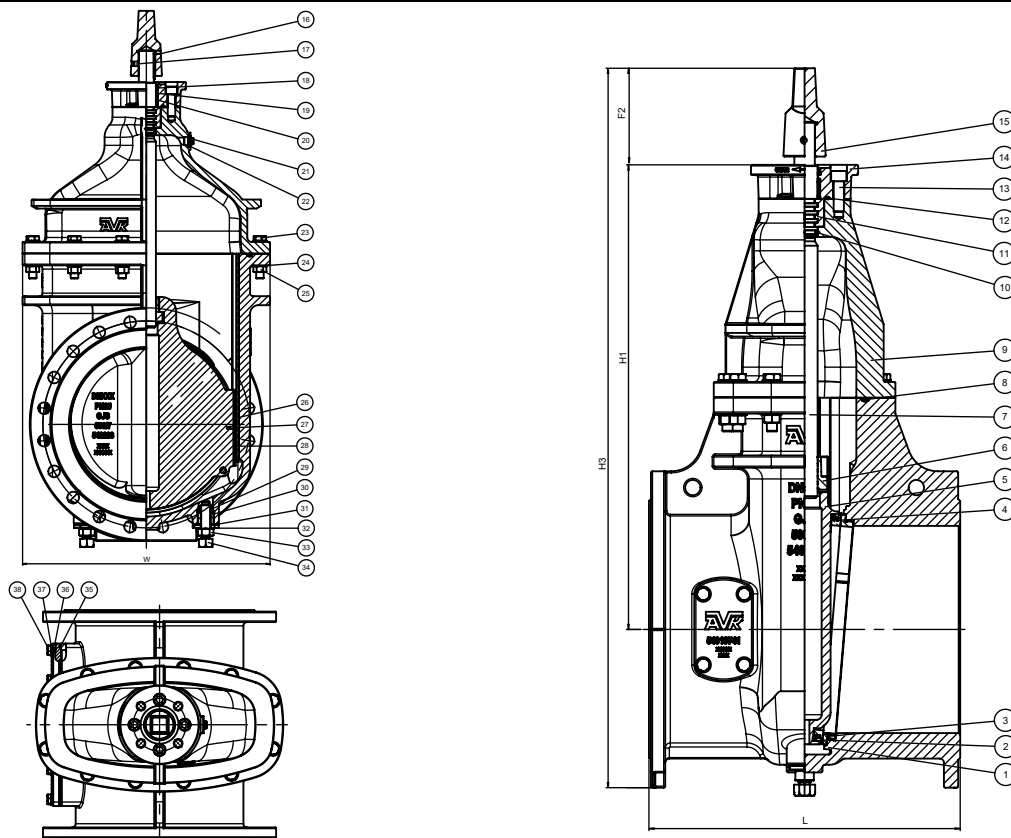
Accessories:

Handwheel, gearbox, electrical and hydraulic actuation, rising spindle design, By-pass, inspection cover, floor pillar, extension spindles, position indicator, support brackets, flange couplings and adaptors.



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Component list:

1	Body	Ductile iron - EN 1563 - GJS-500-7	20	Bushing	PA 6.6 (Polyamid)
2	Pin	Phosphor Bronze BS 2874 PB102	21	Air Plug	SS EN 10088-1;(W1.4401)/ASTM A276-316
3	Seat Ring	Gunmetal EN1982 CC491K (LG2)	22	Gasket	Nylon
4	Face Ring	Gunmetal EN1982 CC491K (LG2)	23	Bolt	SS ISO 3506; Grade A4
5	Wedge	Ductile iron - EN 1563 - GJS-500-7	24	Washer	SS ISO 3506; Grade A4
6	Wedge Nut	Al. Bronze; EN1982; CC333G(AB2)	25	Nut	SS ISO 3506; Grade A4
7	Stem	SS EN 10088-1;(W1.4057)/ASTM A276-431	26	Channel	Gunmetal EN1982 CC491K (LG2)
8	O-Cord	EPDM	27	Bolt	SS ISO 3506; Grade A4
9	Bonnet	Ductile iron - EN 1563 - GJS-500-7	28	Shoe	Gunmetal EN1982 CC491K (LG2)
10	O-Ring	EPDM	29	O-Ring	EPDM
11	Thrust Collar	Al. Bronze; EN1982; CC331G(AB1)	30	Bushing	Al. Bronze; EN1982; CC331G
12	O-Ring	EPDM	31	Washer	Copper alloy (CW608N)
13	Bolt	SS ISO 3506; Grade A4	32	Washer	Copper alloy (CW608N)
14	Seal Housing	Ductile iron - EN 1563 - GJS-500-7	33	Nut	SS ISO 3506; Grade A4
15	Stem Cap	Cast Iron BS EN1561 Gr250	34	Jacking Screw	SS ISO 3506; Grade A4
16	Key	DIN6885-A1.0503	35	O-Ring	EPDM
17	Bolt	SS ISO 3506; Grade A4	36	Blanking Plate	Ductile iron - EN 1563 - GJS-500-7
18	Wiper Ring	NBR	37	Washer	SS ISO 3506; Grade A4
19	O-Ring	EPDM	38	Bolt	SS ISO 3506; Grade A4

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

Reference nos. and dimensions:

AVK ref. no.	DN	Flange	L	F2	H1	H3	W	ISO	Theoretical
	mm	drilling	mm	mm	mm	mm	mm	Flange	weight / kg
54-0350-41-1241424	350	PN16	572	189	834	1302	616	F14	403
54-0400-41-1241424	400	PN16	610	189	910	1410	674	F14	516
54-0450-41-1241424	450	PN16	660	194	995	1525	724	F14	640
54-0500-41-1241424	500	PN16	711	194	1073	1633	794	F14	763
54-0600-41-1242424	600	PN16	787	194	1240	1857	918	F16	1140

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