



AVK METAL SEATED GATE VALVE, FLANGED, Reservoir Specification 54/31-A02

Shoes & Channels, jacking screws, Grade A4 fasteners, DN1400 - 1800



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 valves with rotating, non-rising stem. For drinking water and neutral liquids to max 70°C. Operation is possible only via gearbox or actuator that is capable of supporting axial thrust loads.

Standards:

- Designed according to EN 1074 part 1 & 2
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN 16

Test/Approvals:

- Hydraulic test according to EN 1074-1 and 2 / EN 12266
- Body: 1.5 X PN Seat: 1.1 X PN (Leakage Rate B)
- 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 ensures uniform closure and reduced levels of vibration under higher 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-cord gasket is fixed in a recess to avoid blow-out.
- Full bore design for maximum system efficiency.
- Lifting eyes fitted onto to valve bonnet for improved handling and installation.
- Jacking / easing screws included for improved maintenance purposes.
- Internal and external blue two pack epoxy coating 300um. (Increased DFT available on request.)
- Clockwise to close operation as standard, clockwise to open available upon request.
- Stainless steel fasteners for increased corrosion protection.
- Alu-bronze wedge nut with lubricating abilities providing optimum compatibility with stem.

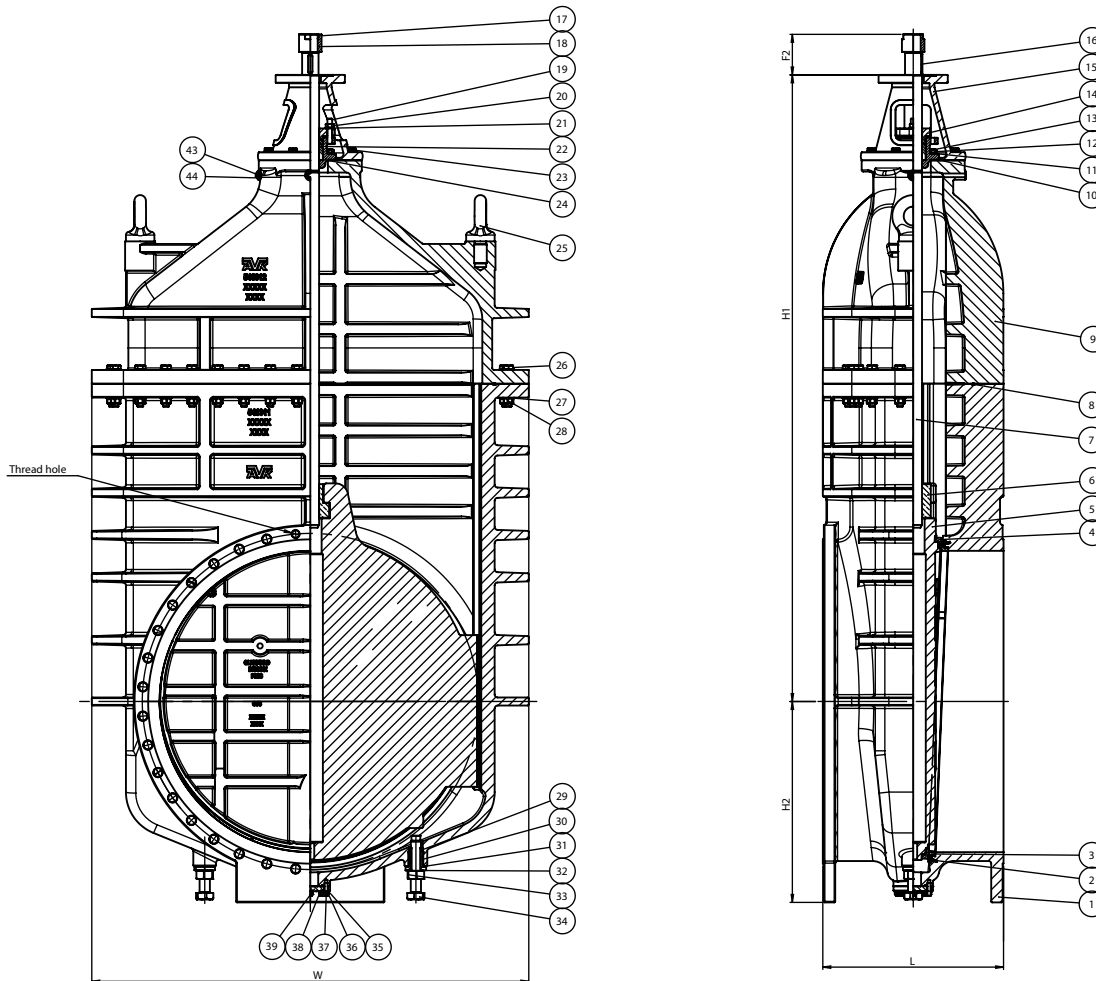
Accessories:

By-pass valve, gearbox, electrical and hydraulic actuator, extension spindles , inspection cover, floor pillar, position indicator, support brackets, flange couplings and adaptors.



The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.

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Component list:

1	Body	Ductile iron - EN 1563 - GJS-500-7	23	Bolt	SS ISO 3506; Grade A4
2	Pin Rivet	Phosphor Bronze BS 2874 PB102	24	Stuffing Box	Ductile iron - EN 1563 - GJS-500-7
3	Seat Ring	Aluminium Bronze (EN1982 CC331G)(AB1)	25	Eyebolt	SS ISO 3506; Grade A4
4	Face Ring	Aluminium Bronze (EN1982 CC331G)(AB1)	26	Bolt	SS ISO 3506; Grade A4
5	Wedge	Ductile iron - EN 1563 - GJS-500-7	27	Washer	SS ISO 3506; Grade A4
6	Stem Nut	Aluminum Bronze -EN1982- CC333G	28	Nut	SS ISO 3506; Grade A4
7	Stem	SS EN 10088-3;(W1.4057)/ASTM A276-431	29	O-Ring	EPDM
8	Bonnet Gasket	EPDM	30	Bushing	Aluminum Bronze - EN12163 - CW307G
9	Bonnet	Ductile iron - EN 1563 - GJS-500-7	31	Washer	Copper alloy (CW608N)
10	Gasket	EPDM	32	Washer	Copper alloy (CW608N)
11	Washer	SS ISO 3506; Grade A4	33	Nut	SS ISO 3506; Grade A4
12	Nut	SS ISO 3506; Grade A4	34	Jacking Screw	SS EN 10088-3;(W1.4401)/ASTM A276-316
13	Stud Bolt	SS ISO 3506; Grade A4	35	Washer	SS ISO 3506; Grade A4
14	Gland	Ductile iron - EN 1563 - GJS-500-7	36	Nut	SS ISO 3506; Grade A4
15	Stool	Ductile iron - EN 1563 - GJS-500-7	37	Bolt	SS ISO 3506; Grade A4
16	Key	SS ISO 3506; Grade A4	38	O-Ring	EPDM
17	Bolt	SS ISO 3506; Grade A4	39	Blanking Plate	Ductile iron - EN 1563 - GJS-500-7
18	Thrust Nut	Aluminum Bronze - EN12163 - CW307G	40	Channel	gunmetal CC491K or al-bro AB1
19	Stud Bolt	SS ISO 3506; Grade A4	41	Screw	SS ISO 3506; Grade A4
20	Nut	SS ISO 3506; Grade A4	42	Shoe	gunmetal CC491K or al-bro AB1
21	Washer	SS ISO 3506; Grade A4	43	Air Plug	SS EN 10088-1;(W1.4401)/ASTM A276-316
22	Packing	PTFE	44	Gasket	EPDM

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

Reference nos. and dimensions:

AVK ref. no.	DN mm	Closing Direction	Flange drilling	L mm	H1 mm	H2 mm	W mm	F2 mm	Actuator flange	Theoretical weight / kg
54-1400-31-1405424	1400	CTC	PN16	876	2870	885	1956	-	F35	7500
54-1600-31-1405424	1600	CTC	PN16	914	3291	1060	2290	-	F35	12130
54-1800-31-1405424	1800	CTC	PN16	1067	3659	1180	2454	-	F35	14800