



## AVK METAL SEATED GATE VALVE, FLANGED, Reservoir Specification 54/31-A01

Shoes & Channels, jacking screw, Grade A4 fasteners, DN700 - 1200



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), PN16

#### Test/Approvals:

- Hydraulic test according to EN 1074-1 and 2 / EN 12266-1
- 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 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-cord 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.
- DN700-DN1000, Internal and external blue fusion bonded epoxy coating 300um.
- DN1200, Internal and external blue 2-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.

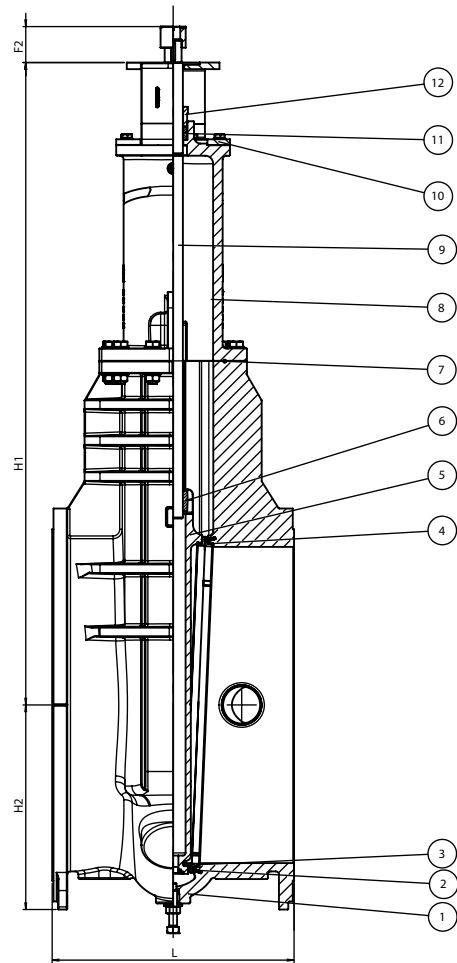
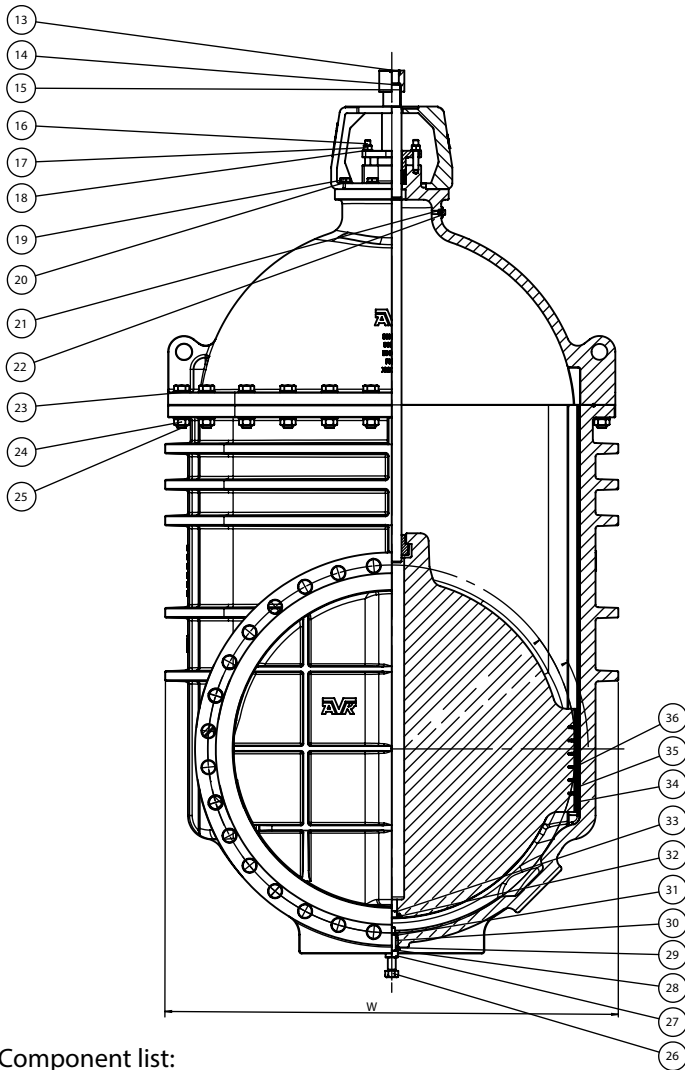
#### Accessories:

By-pass valve, gearbox, electrical and hydraulic actuator, rising spindle design, extension spindles, inspection cover, floor pillar, position indicator, support brackets, flange coupling and adapters.



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	19	Bolt	SS ISO 3506; Grade A4
2	Pin	Phosphor Bronze BS 2874 PB102	20	Washer	SS ISO 3506; Grade A4
3	Seat Ring	Aluminium Bronze (EN1982 CC331G)(AB1)	21	Gasket	Nylon
4	Face Ring	Aluminium Bronze (EN1982 CC331G)(AB1)	22	Plug	SS EN 10088-1;(W1.4401)/ASTM A276-316
5	Wedge	Ductile iron - EN 1563 - GJS-500-7	23	Washer	SS ISO 3506; Grade A4
6	Wedge Nut	Al. Bronze BS EN 1982 CC333G(AB2)	24	Nut	SS ISO 3506; Grade A4
7	O-Cord	EPDM	25	Bolt	SS ISO 3506; Grade A4
8	Bonnet	Ductile iron - EN 1563 - GJS-500-7	26	Jacking Screw	SS EN 10088-1;(W1.4401)/ASTM A276-316
9	Stem	SS EN 10088-1;(W1.4057)/ASTM A276-431	27	Nut	SS ISO 3506; Grade A4
10	Distance Piece	Ductile iron - EN 1563 - GJS-500-7	28	Washer	Copper alloy (CW608N)
11	Packing	PTFE	29	Washer	Copper alloy (CW608N)
12	Gland	Ductile iron - EN 1563 - GJS-500-7	30	Plug	Dezn. res. brass EN 12165: CW602N (CZ132)
13	Screw	SS ISO 3506; Grade A4	31	O-Ring	EPDM
14	Thrust Nut	Al. Bronze; BS EN12163; CW307G	32	Screw	SS ISO 3506; Grade A4
15	Key	DIN6885-A 1.0503	33	Jacking plug	SS EN 10088-1;(W1.4401)/ASTM A276-316
16	Stud Bolt	SS ISO 3506; Grade A4	34	Shoe	gunmetal CC491K or al-bro AB1
17	Nut	SS ISO 3506; Grade A4	35	Channel	gunmetal CC491K or al-bro AB1
18	Washer	SS ISO 3506; Grade A4	36	Screw	SS ISO 3506; Grade A4

Components may be substituted with equivalent or higher class material 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
54-0700-31-1203424	700	CTC	PN16	610	1497	450	1050	169	F25	1416
54-0800-31-1203424	800	CTC	PN16	660	1689	535	1160	169	F25	1766
54-0900-31-1203424	900	CTC	PN16	711	1844	596	1310	171	F25	2317
54-1000-31-1205424	1000	CTC	PN16	813	2007	648	1404	-	F35	3069
54-1200-31-1405424	1200	CTC	PN16	914	2427	773	1712	-	F35	4691