



AVK RESILIENT SEATED GATE VALVE WITHOUT BY-PASS, PN16, BS EN 1074-2

55/49

001

DN450-600, EN 558 Series 3, F16 ISO Mounting Flange

The series 55/49 is a BS high performance, large diameter, resilient seated gate valve. The valve features the renowned AVK, fully encapsulated wedge, allowing for flexibility in the final installed position and significantly reduced operating torques when compared to other valve designs. For installation above or below ground for water, neutral liquids and waste water.

Product Description:

Flanged gate valve for water and neutral liquids. Temperature range: -10° C to +70° C.

Standards:

- Designed according to EN 1074 part 1 & 2
- Face to face according to EN 558 Table 2 Basic Series 3
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN 16
- WIMES 8.09 Compliant

Test/Approvals:

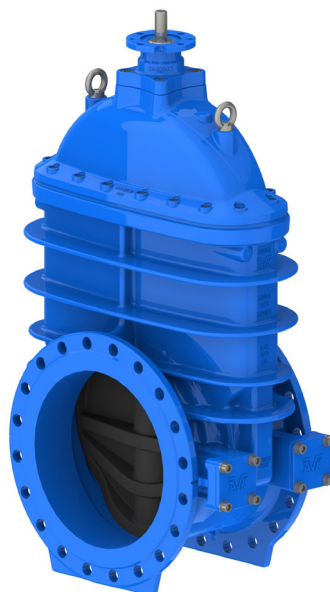
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar). Operation torque test.
- Hydraulic test according to EN 1074-1 and 2 / EN 12266

Features:

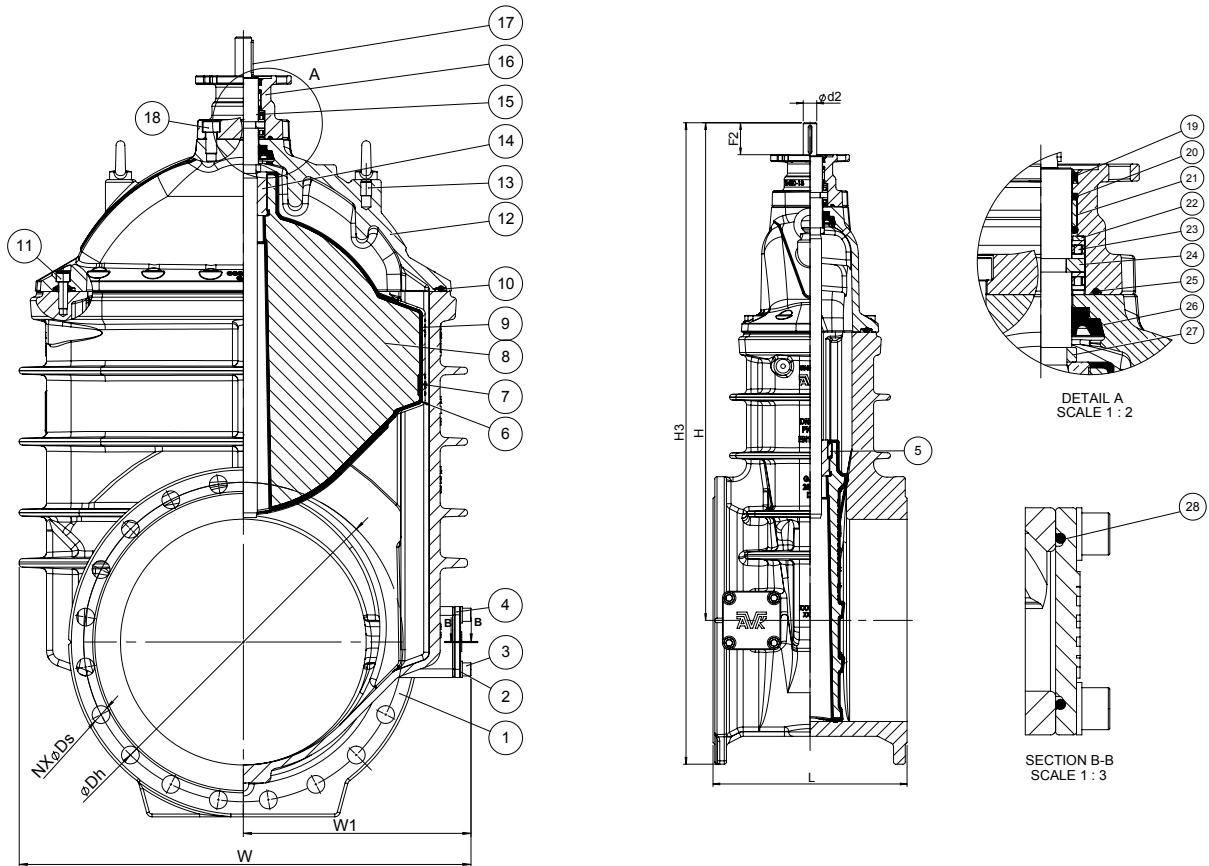
- Fixed, integral wedge nut prevents vibration and gives high durability
- Polyamide wedge shoes protect the wedge rubber and provide low operating torques
- A large conical stem hole in the wedge prevents stagnant water
- Triple safety stem sealings: An NBR wiper ring, a polyamide bearing with two O-rings, and with lip seal as the main hydraulic seals to the flow
- Two roller bearings and a thrust collar of stainless steel provide low operating torques
- Round EPDM bonnet gasket fixed in a recess
- Countersunk and sealed stainless steel bonnet bolts encircled by the bonnet gasket
- Full bore
- F16 ISO top gland flange
- Integrated lifting eyes for easy handling
- Epoxy coating to DIN 30677-2 GSK approved
- Actuator flange F16/ Spindle Ø40
- DN 450/500 at 16 bar differential pressure maximum operating torque set to 450 Nm
- DN 600 at 16 bar differential pressure maximum operating torque set to 500 Nm
- **Options:**
 - with bypass 55/49-002
 - F14 version 55/48-001
 - CTO

Accessories:

Gearbox, electric actuator, retro-fit by-pass kit, stem cap and handwheel



Expect... **AVR**



Component List:

1. Body	Ductile iron EN-GJS-500-7 BS EN 1563	2. Washer	Grade A2
3. Bolt	Grade A2-70	4. Blanking plate	Ductile iron EN-GJS-500-7 BS EN 1563
5. Slotted pin	Stainless steel AISI 316 (W 1.4404)	6. Wedge rubber	EPDM rubber
7. Clip for wedge	Brass EN 12164 CW612N	8. Wedge core	Ductile Iron EN-GJS-500-7 BS EN 1563
9. Wedge shoe	Ultramid A3k (PA 6.6) black	10. Bonnet gasket	EPDM rubber
11. Bolt	Grade A2-70	12. Bonnet	Ductile iron EN-GJS-500-7 BS EN 1563
13. Eyebolt	Hot dip galvanized	14. Wedge nut	Bronze CW 626
15. Stem	Stainless steel AISI 430F (W 1.4104)	16. Gland flange	Ductile Iron EN-GJS-500-7 BS EN 1563
17. Key	Grade A2-70	18. Bolt	Grade A2-70
19. Wiper ring	NBR rubber	20. O-ring	NBR rubber
21. Bearing shell	Polyamide PA 6.6	22. Thrust washer	Stainless steel AISI 430F (W 1.4104)
23. Bearing	Alloy Steel	24. Thrust collar	Stainless steel AISI 430F (W 1.4104)
25. O-ring	NBR rubber	26. Stem seal	EPDM rubber
27. Stop ring	Stainless steel AISI 430F (W 1.4104)	28. O-ring	EPDM rubber

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

Reference Nos. and Dimensions:

AVK ref. nos	DN mm	Flange drilling	L mm	W mm	W1 mm	H mm	H3 mm	F2 mm	D2 mm	Dh mm	Ds mm	Bolt no.	ISO flange	Theoretic. weight kg
55-450-49-014	450	PN16	432	828	417	1108	1428	71	40	585	32.5	20	F16	507
55-500-49-014	500	PN16	457	847	431	1133	1491	71	40	650	35.5	20	F16	536
55-600-49-014	600	PN16	508	966	491	1276	1696	71	40	770	38.5	20	F16	733