AVK GATE VALVE, PN 10/16, CTC 02/25
001

Flanged gate valve, for water to max. 70° C, designed according to EN1074 part 1 & 2,
Face to face according to EN 558 table 2 basic series 3.
Standard flange drilling to EN1092-2 (ISO 7005-2)

Resilient seated gate valve to EN 1074-1 and 2 / EN 1171. Body and bonnet of GJS-500-7 (GGG-50). Wedge of ductile iron fully vulcanized with EPDM rubber and with fixed brass wedge nut. Stem of stainless steel min. 13% Cr with rolled thread and wedge stop ring. Stem sealing with 4 O-rings in a nylon bearing, an EPDM rubber manchette and a NBR wiper ring. EPDM bonnet gasket in a groove, countersunk bonnet bolts encircled by the bonnet gasket and sealed with hot melt.
Epoxy coating to DIN 30677-2 and GSK approved - internally and externally.

Accessories: Combi-flange AVK series 05, flange adaptors AVK series 603, 623 and 633

For further details see section "Technical Information".
The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product programme.

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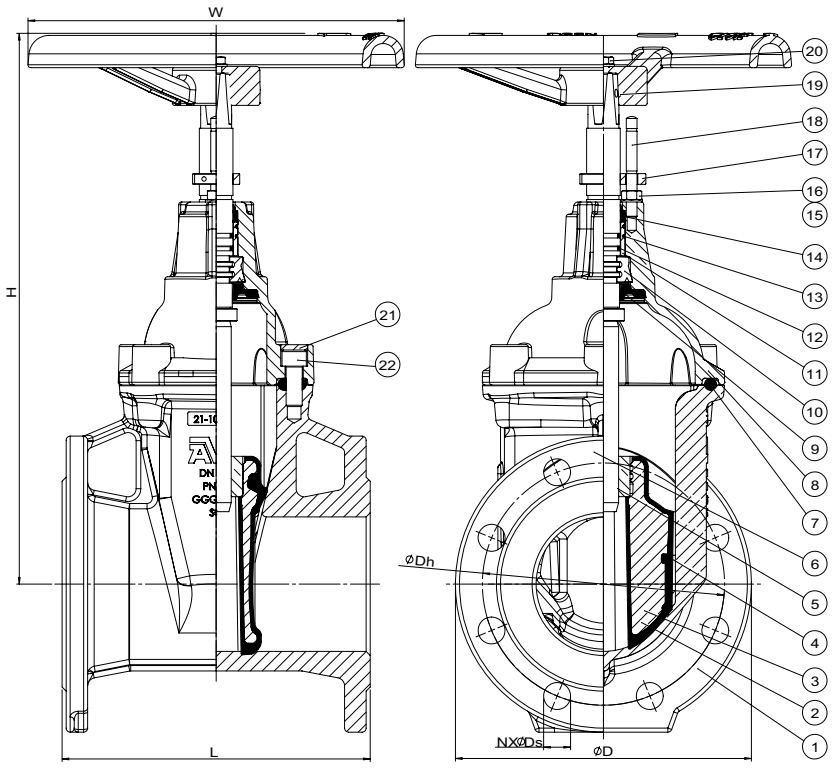

A. Stem sealing
Three independent stem seals offering triple safety:
- A NBR wiper ring protects against dirt from outside.
- A polyamid bearing with 4 NBR O-rings protects against galvanic corrosion.
- An EPDM rubber manchette sealing acts as the main hydraulic seal to the flow.

B. Body/bonnet connection
The unique assembly of the valve body and bonnet ensures a durable tightness:
- A round rubber bonnet gasket fits into a recess in the valve bonnet preventing it from being blown out by pressure surges.
- The stainless steel bonnet bolts are countersunk in the valve bonnet, encircled by the bonnet gasket and sealed with hot melt. Thus there is no risk of corrosion as the bolts are not exposed to the medium or soil.

C. Wedge nut
The fixed, integral wedge nut reduces the number of movable valve parts thus minimizing the risk of corrosion and malfunction. The wedge nut is made of dezincification resistant brass with lubricating abilities providing optimum compatibility with the stainless steel stem.

D. Vulcanized wedge
The ductile iron core is fully vulcanized with drinking water approved EPDM rubber internally and externally. No iron parts are exposed to the medium and the excellent rubber vulcanization prevents creeping corrosion underneath the rubber. Guides in the wedge and on the valve body ensure a uniform closure regardless of high pressure. Safe operation is ensured, as the guides prevent overloading of the stem. The wedge has a large through bore and as there are no hollows in the core, stagnant water or impurities cannot collect and cause contamination.

Component list

1. Body	12. O-ring
2. Wedge rubber	13. O-ring
3. Wedge core	14. Wiper ring
4. Wedge shoe	15. Washer
5. Wedge nut	16. Nut
6. Stem	17. Indicator nut
7. Bonnet gasket	18. Indicator pin
8. Bonnet	19. Handwheel
9. Stem seal	20. Bolt
10. Thrust collar	21. Holt melt
11. Bushing	22. Insex bolt

Reference nos. and dimensions

AVK ref. nos.	DN mm	PN drilling	L mm	H mm	W mm	D mm	Dh mm	Ds mm	Num. of bolts	Theoretical weight kg
02-050-25-016	50	10/16	178	329	180	165	125	19	4	13
02-065-25-016	65	10/16	190	355	225	185	145	19	4	16
02-080-25-016	80	10/16	203	382	225	200	160	19	8	20
02-100-25-016	100	10/16	229	414	280	220	180	19	8	26
02-125-25-016	125	10/16	254	461	320	250	210	19	8	36
02-150-25-016	150	10/16	267	540	320	285	240	23	8	50
02-200-25-006	200	10	292	688	360	340	295	23	8	80
02-200-25-016	200	16	292	688	360	340	295	23	12	80
02-250-25-006	250	10	330	780	500	400	350	23	12	124
02-250-25-016	250	16	330	780	500	400	355	28	12	124
02-300-25-006	300	10	356	855	500	455	400	23	12	177
02-300-25-016	300	16	356	855	500	455	410	28	12	177
02-350-25-006	350	10	381	1060	640	533	460	23	16	247
02-350-25-016	350	16	381	1060	640	533	470	28	16	247
02-400-25-006	400	10	406	1060	640	580	515	28	16	247
02-400-25-016	400	16	406	1060	640	580	525	31	16	247