AVK METAL SEATED GATE VALVE, WITH STEMCAP, PN16, CTC

37/50
001

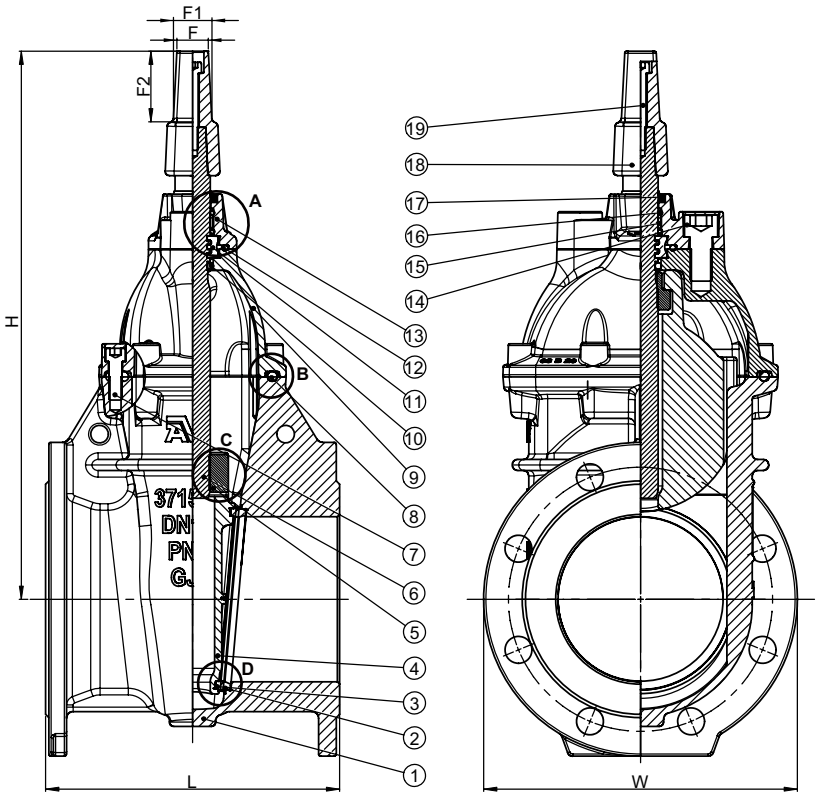
Flanged gate valves, designed according to EN1074 part 1 & 2, Face to face according to EN 558 table 2 basic series 3.
Standard flange drilling to EN1092-2 (ISO 7005-2)

Use:	For water, sewage and neutral liquids to max. 70°C
Hydraulic tests:	Seat: 1.1 x PN Body: 1.5 x PN
Applicable Standards:	To EN 1074 Part 1 & 2 : 2000
Options:	Handwheel Bevel or spur gearbox Extension spindle Street cover

Materials:

Body	Ductile Iron EN 1563 EN-GJS-500/7
Bonnet	Ductile Iron EN 1563 EN-GJS-500/7
Wedge	Ductile Iron EN 1563 EN-GJS-500/7
Seats/Faces	Gunmetal EN 1982 CC491K(LG2)
Wedge Nut	Aluminium bronze EN 1982 CC331G(AB1)
Stem	Stainless Steel EN 10088 No 1.4021/A276-420
Bushing	Nylon
O-rings	EPDM
Gasket	EPDM
Fasteners	Zinc plated mild steel(FZV)
Stemcap	Grey iron EN 1561; EN-GJL-250
Coating	Internal and external blue fusion bonded epoxy(250 microns)WRAS

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.



A. Stem sealing
Stem sealing replaceable under pressure with three independent stem seals:
- A NBR wiper ring protects against dirt from outside.
- A polyamid bearing with 2 EPDM O-rings ensures low friction.
- An O-ring protects the thrust collar and prevents leakage when replacing stem seals under pressure.

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.

C. Wedge nut
The wedge nut is made of aluminium bronze with lubricating abilities providing optimum compatibility with the stainless steel stem.

D. Wedge
The wedge is made from ductile iron with gunmetal face rings which are machined to a fine surface finish to ensure optimum contact seal with body seat rings. The wedge face rings are accurately machined and firmly secured to the wedge. The guides in the wedge ensure uniform closure regardless of high pressures. The wedge has a large through bore housing for the stem that ensures no stagnant water or impurities can collect. The wedge is fully protected by a coating of fusion bonded epoxy.

Component list

1. Body
2. Seat ring
3. Face ring
4. Wedge
5. Wedge nut
6. Stem
7. Socket head bolt
8. Bonnet gasket
9. Bonnet
10. O-ring
11. Thrust collar
12. O-ring
13. Gland
14. Socket head bolt
15. Bushing
16. O-ring
17. Wiper ring
18. Stemcap
19. Bolt

Reference nos. and dimensions

AVK ref. nos.	DN mm	PN drilling	L mm	H mm	W mm	F mm	F1 mm	F2 mm	Theoretical weight kg
37-050-50-210001	50	16	178	304	165	28	35	63	11
37-080-50-210001	80	16	203	349	200	28	35	63	21
37-100-50-210001	100	16	229	381	220	28	35	63	27
37-150-50-210001	150	16	267	498	285	28	35	63	43
37-200-50-210001	200	16	292	597	340	28	35	63	76
37-250-50-210001	250	16	330	672	405	28	35	63	105
37-300-50-210001	300	16	356	753	460	28	35	63	159