

# AVK GATE VALVE, PN16, CTC

21/30  
001

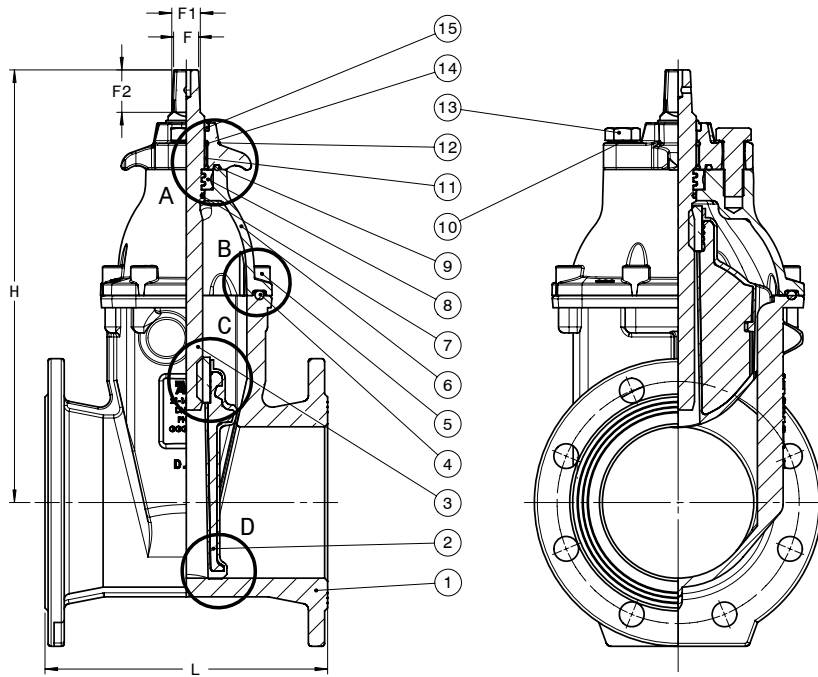
Flanged gate valve to BS EN 1074-2 / BS 5163-1, for water to max. 70° C, designed according to EN1074 part 1 & 2, Face to face according to EN 558 table 2 basic series 3. Standard flange drilling to EN1092-2 (ISO 7005-2)

Resilient seated gate valve in ductile iron with flanges to BS 5163 part 1. Wedge in ductile iron, fixed brass wedge nut, fully vulcanized with EPDM rubber. Stem in stainless steel 1.4401 with rolled threads. Stem sealing is exchangeable under pressure. EPDM bonnet gasket in a groove, countersunk bonnet bolts are encircled by the bonnet gasket and sealed with hot melt. Epoxy coating - Internally and externally - blue fusion bonded epoxy.

**Accessories:** Combi-flange AVK series 05, flange adaptors AVK series 603 and 623, handwheel AVK series 08.



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 exchangeable under pressure with three independent stem seals:

- A NBR wiper ring protects against dirt from outside.
- A polyamid bearing with 2 NBR O-rings ensures low friction
- An O-ring protects the stem collar and prevents leakage when exchanging 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.
- The 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
2. Wedge
3. Stem
4. Bonnet Gasket
5. Bonnet bolt
6. Bonnet
7. O-ring
8. Thrust Collar
9. O-ring
10. Washer
11. Bushing
12. Gland Flange
13. Gland Flange bolt
14. O-ring
15. Wiper Ring

## Reference nos. and dimensions

AVK ref. nos.	DN mm	L mm	H mm	F mm	F1 mm	F2 mm	Theoretical weight kg
21-050-3001412	50	178	294	19	22	38	14
21-065-3001412	65	190	288	19	22	38	18
21-080-3001412	80	203	294	19	22	38	18
21-100-3001412	100	229	324	19	22	38	27
21-125-3001412	125	254	363	19	22	38	38
21-150-3001412	150	267	429	24	28	42	51
21-200-3001412	200	292	531	27	31	47	81
21-250-3001412	250	330	614	27	31	47	132
21-300-3001412	300	356	690	27	31	47	177
21-350-3001412	350	381	867	32	37	55	271
21-400-3001412	400	406	867	32	37	55	274