

**AVK METAL SEATED GATE VALVE WITH ISO FLANGE, PN16,CTC****37/41  
001**

Flanged gate valves, designed according to BS5163/B, Face to face according to EN 558 table 2 basic series 3.  
Standard flange drilling to EN1092-2 (ISO 7005-2)

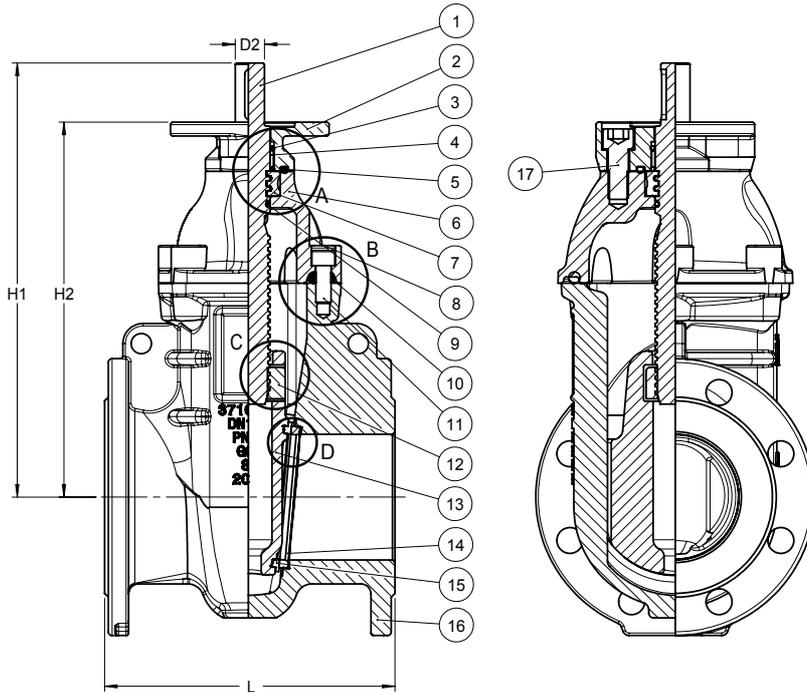
<b>Use:</b>	For water, sewage and neutral liquids to max. 70°C
<b>Hydraulic tests:</b>	Seat: 1.1 x PN. Body: 1.5 x PN
<b>Applicable Standards:</b>	To EN 1074 Part 1 & 2 : 2000
<b>Options:</b>	Handwheel Extension spindle Flange adaptor

**Materials:**

Body	Ductile Iron EN 1563 EN-GJS-500/7
Bonnet	Ductile Iron EN 1563 EN-GJS-500/7
Gland flange	Ductile Iron EN 1563 EN-GJS-500/7
Wedge	Ductile Iron EN 1563 EN-GJS-500/7
Wedge nut	Aluminium bronze EN 1982 CC331G (AB1)
Stem	Stainless steel 316s11/A276-316L
Face/seat ring	Gunmetal EN 1982 CC491K (LG2)
Bushing	Nylon
Stem collar	Brass BS 2872 CZ132
O-ring	EPDM WRAS
Gasket	EPDM WRAS
Fasteners	Stainless steel A4
Coating	Internal and external blue fusion bonded epoxy (300 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 exchangeable under pressure with three independent stem seals:

- A polyamid bearing with 2 EPDM 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 wedge nut is made of 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. Stem	10. Bonnet gasket
2. Gland flange	11. Bonnet bolt
3. O-ring	12. Wedeg nut
4. Bushing	13. Wedge
5. O-ring	14. Seat ring
6. Bonnet	15. Face ring
7. Stem collar	16. Body
8. Hot melt	17. Bolt
9. O-ring	

**Reference nos. and dimensions**

AVK ref. nos.	DN mm	PN drilling	L mm	H1 mm	H2 mm	D2 mm	ISO flange	Theoretical weight kg
37-050-41-01013110	50	16	178	272	225	23	10	17
37-080-41-01013110	80	16	203	317	270	23	10	23
37-100-41-01013110	100	16	229	345	298	23	10	35
37-150-41-01013110	150	16	267	442	395	23	10	65
37-200-41-01013110	200	16	292	544	498	23	10	104
37-250-41-01013110	250	16	330	623	577	23	10	170
37-300-41-01013110	300	16	356	702	656	23	10	228