METAL SEATED GATE VALVE OS&Y, PN16, CTC, DN 350-600

54/31
002

Metal seated gate valve, 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 Manual bevel or spur gearboxes Alternative trim materials Jacking screw Inspection cover Floor pillar Shoes and channels By-pass PN 10 drilling

Valves must not be operated without a gearbox. Thrust is taken in the gearbox.

Ref. numbers shown relate to the standard ISO mounting flange. For differential pressures of 10 bar and above, the mounting flange and Ref. number may change.

Materials:

Body, bonnet & wedge	Ductile Iron EN 1563 EN-GJS-500/7
Gland follower & yoke	Ductile Iron EN 1563 EN-GJS-500/7
Blanking plate	Ductile Iron EN 1563 EN-GJS-500/7
Seat/Face ring	Aluminium bronze EN 1982 CC331G (AB1)
Wiper ring	NBR
Stem nut	Aluminium bronze EN 1982 CC331G (AB1)
Stem	Stainless steel EN 10088 No 1.4057/A276-431
Plug	Bronze
Pin	Stainless steel A2
Bushing & Gland	Dezn. res. brass EN12165:CW602N (CZ132)
O-ring/O-cord	EPDM WRAS
Fasteners	Zinc plated mild steel
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.

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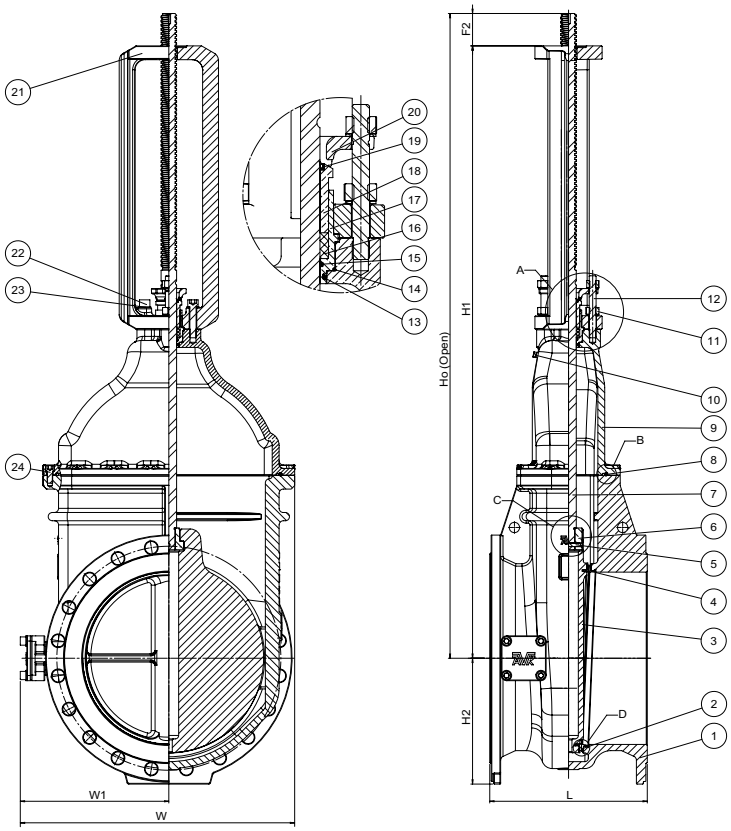
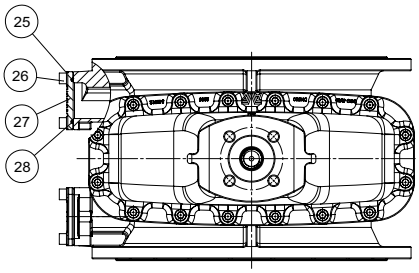


A. Stem sealing
Seal is by conventional stuffing box with ample depth to ensure long life to the PTFE packing. A NBR wiper ring protects against dirt from outside.

B. Body/bonnet connection
The assembly of the valve body and bonnet ensures a durable tightness:
A round rubber bonnet O-cord fits into a recess in the bonnet preventing it from being blown out by pressure surges.

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 bronze 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 the stem that ensures no stagnant water or impurities can collect.



Component list

1. Body	15. O-ring
2. Seat ring	16. Packing
3. Wedge	17. Bushing
4. Face ring	18. Gland
5. Pin	19. Wiper ring
6. Stem nut	20. Gland follower
7. Stem	21. Yoke
8. O-cord	22. Insex bolt
9. Bonnet	23. Washer
10. Plug	24. Insex bolt
11. Nut	25. Washer
12. Stud	26. Insex bolt
13. O-ring	27. Blanking plate
14. O-ring	28. O-ring

Reference nos. and dimensions

AVK ref. nos.	DN mm	Closing dir.	PN drilling	L mm	H1 mm	H2 mm	Ho mm	W mm	W1 mm	F2 mm	ISO flange	Theoretical weight kg
54-0350-31-1106100	350	CTC	16	381	1380	265	1852	611	331	94	14	300
54-0400-31-1106100	400	CTC	16	406	1455	295	1980	663	361	94	14	375
54-0450-31-1106100	450	CTC	16	432	1542	325	2118	726	391	94	14	452
54-0500-31-1106100	500	CTC	16	457	1777	365	2398	796	431	94	14	568
54-0600-31-1106100	600	CTC	16	508	1948	430	2666	911	491	94	14	751