

**METAL SEATED GATE VALVE, DN 700-900, WITH BY-PASS****54/5758**  
003

Large metal faced gate valve with by-pass, designed according to EN1074 part 1 & 2,  
Face to face according to EN 558 table 2 basic series 3.  
Flange drilling to AS 4087 B5

**Use:** For water, sewage and neutral liquids to max. 70°C  
**Hydraulic tests:** In accordance with AS 2638.1  
 Seat Test - both directions: 16 bar for 10mins;  
 Permissible seat leakage 10mL/min  
 Body Test - 24 bar for 10mins  
**Coating tests:** According to AS4158 and AS4020  
**Applicable Standards:** To EN 1074 Part 1 & 2 : 2000 (BS 5163: 1986 type B)  
 Flange drilling to AS 4087 B5  
**Options:** Handwheel  
 Electric Actuation  
 Bevel or Spur Gearboxes  
 Alternative Trim Materials  
 Jacking screw  
 Inspection cover  
 Rising Stem

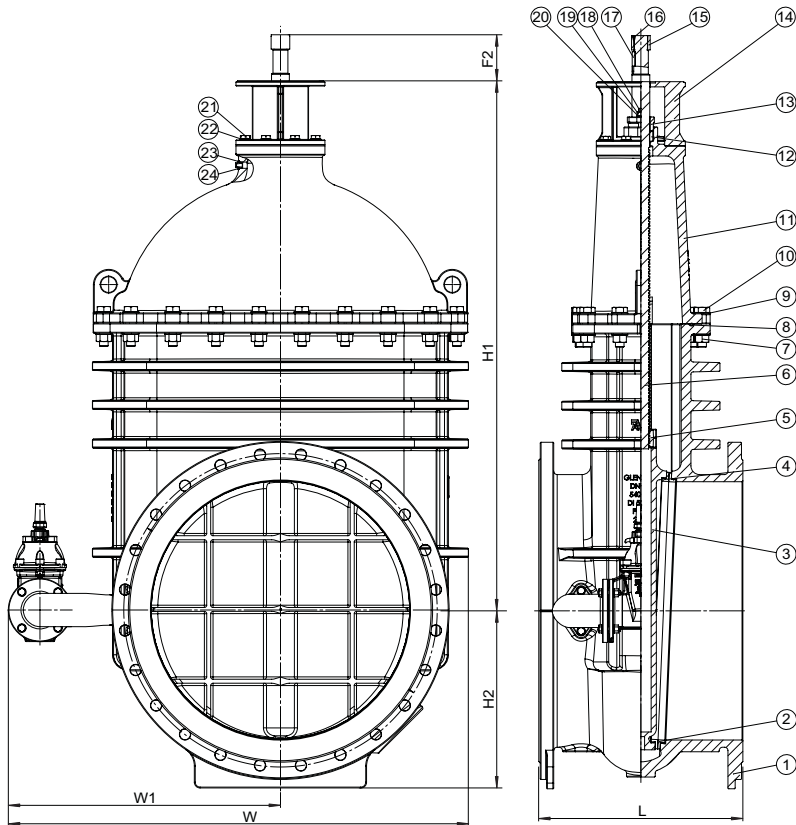
Valves must not be operated without a gearbox or actuator. Thrust is taken in the gearbox or actuator.

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	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
Stem cap	Ductile Iron EN 1563 EN-GJS-500/7
ISO top flange	Ductile Iron EN 1563 EN-GJS-500/7
Bypass elbow	Ductile Iron EN 1563 EN-GJS-500/7
Seats/Faces	Gunmetal EN 1982 CC491K (LG2)
Wedge nut	Gunmetal EN 1982 CC491K (LG2)
Thrust nut	Al Bronze BS EN12163 Gr CW307G(CA104)
Stem	Stainless Steel EN 10088 No 1.4057 / A276-431
Key	Carbon Steel BS 4235 Part 1
Plug	Brass EN 12165: CW602N
O-Rings	EPDM
Gasket	Nylon
Packing	PTFE
Fasteners	Stainless steel A4
Coating	Blue FBE 350 internal 300 external





**A. Stem sealing**

Seal is by conventional stuffing box with ample depth to ensure long life to the PTFE packing.

**B. Body/bonnet connection**

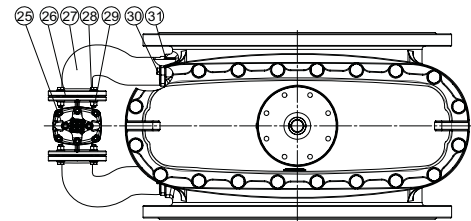
The unique assembly of the valve body and bonnet ensures a durable tightness: A round rubber bonnet gasket fits into a recess in the valve body preventing it from being blown out by pressure surges.

**C. Wedge nut**

The wedge nut is made of gunmetal 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	12. Packing	23. Gasket
2. Face ring	13. Gland	24. Plug
3. Wedge	14. Distance piece	25. Bypass gate valve
4. Seat ring	15. Thrust nut	26. O-ring
5. Stem nut	16. Screw	27. Bypass elbow
6. Stem	17. Key	28. Bolt
7. Nut	18. Stub bolt	29. Nut
8. O-cord	19. Nut	30. Bolt
9. Washer	20. Washer	31. O-ring
10. Bolt	21. Bolt	
11. Bonnet	22. Washer	

**Reference nos. and dimensions**

AVK ref. nos.	DN mm	Closing dir.	L mm	H1 mm	H2 mm	W mm	W1 mm	F2 mm	ISO flange	By-pass DN	Theoretical weight kg
54-0700-57-5842501	700	CTC	610	1497	455	1359	834	129	16	100	1453
54-0700-58-5842501	700	CTO	610	1497	455	1359	834	129	16	100	1453
54-0800-57-5842501	800	CTC	660	1689	552	1488	908	129	16	100	1802
54-0800-58-5842501	800	CTO	660	1689	552	1488	908	129	16	100	1802
54-0900-57-5842501	900	CTC	711	1844	620	1603	948	131	16	100	2354
54-0900-58-5842501	900	CTO	711	1844	620	1603	948	131	16	100	2354