



## AVK METAL SEAT GATE VALVE, FLANGED, PN 10/16

54/3334-001

SS stem, alu-bronze seat, A4/galv. 8.8 bolts, CTC/CTO, blue FBE/2-pack, by-pass

AVK series 54 gate valves are designed with built-in safety and quality in every detail. The metal valve seat is resistant to high temperature in the medium and will not deform during long periods of compression. This ensures stable and reliable operation over the long life span of the valve.

### Product description:

Metal seat gate valves with rotating, non-rising stem. Operating direction clockwise to close or clockwise to open. For drinking water and neutral liquids to max. 70°C. On DN300-600 operation is either by manual handwheel/gearbox or by electric actuation; on DN≥700 operation is possible only via gearbox or actuator that is able to support the axial thrust loads.

### Standards:

- Designed according to EN 1074 part 1 & 2
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN 10/16

### Test/Approvals:

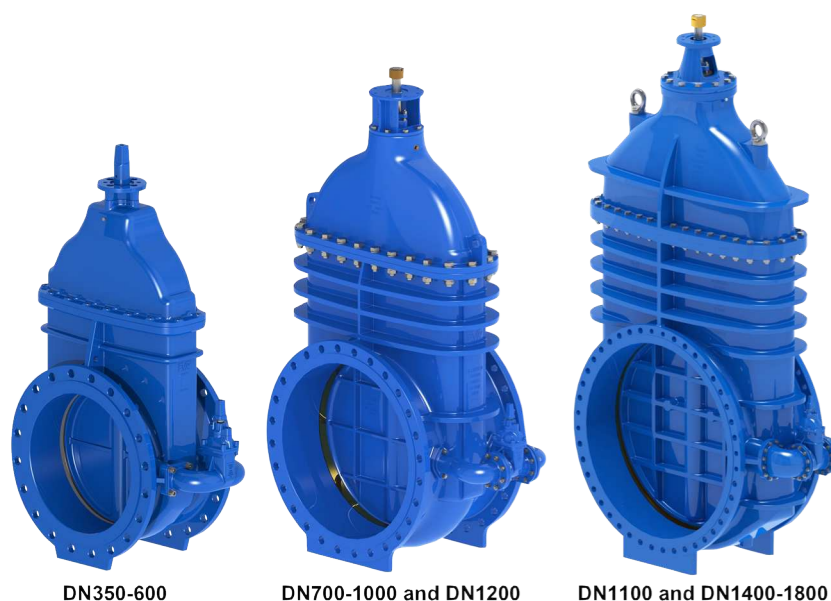
- Hydraulic test according to EN 1074-1 and 2 / EN 12266

### Features:

- High strength alu-bronze valve seat
- Metal faces machined to a high finish for optimum contact and minimum leakage
- Stem in stainless steel
- DN350-600 four separate and independent O-ring stem seals
- DN≥700 stuffing box with ample depth gives long life to the PTFE packing
- Round body-bonnet O-cord gasket fixed in a recess to avoid blow-out
- Full bore
- Lifting eyes for easy handling
- All rubber and coating in contact with the water are drinking water approved
- Guides on the wedge helps provide steady operation
- DN350-600 protected fasteners in galvanized 8.8 steel, exposed fasteners in A4 stainless steel
- DN≥700 fasteners in galvanized 8.8 steel
- DN 350-1000 protected by 250µm blue fusion bonded epoxy coating
- DN≥1100 protected by 250µm blue 2-pack epoxy coating
- A by-pass valve is fitted to reduce differential pressure and facilitate operation

### Accessories:

Handwheel (DN350-600), gearbox, actuator, extension spindle



DN350-600

DN700-1000 and DN1200

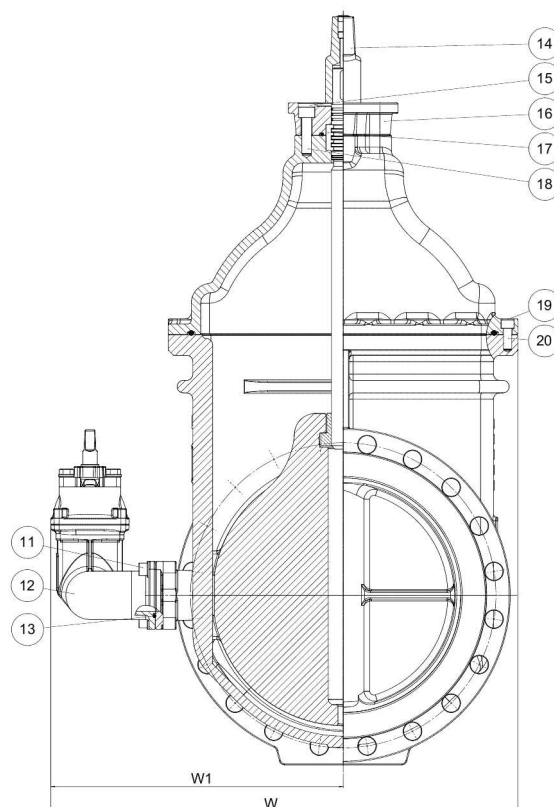
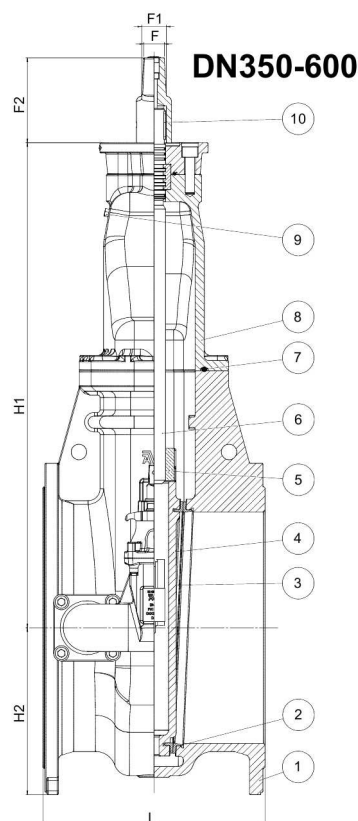
DN1100 and DN1400-1800

Expect... **AVK**

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## Component list:

1. Body	Ductile iron GJS-500-7 (GGG-50)	14. Stem cap <sup>(2)</sup>	Ductile iron GJS-500-7 (GGG-50)
2. Seat ring	Alu-bronze CC331G (AB1)	15. Seal <sup>(2)</sup>	Hot melt glue
3. Face ring	Alu-bronze CC331G (AB1)	16. Gland flange <sup>(2)</sup>	Ductile iron GJS-500-7 (GGG-50)
4. Wedge	Ductile iron GJS-500-7 (GGG-50)	17. Thrust collar <sup>(2)</sup>	Alu-bronze CC331G (AB1)
5. Wedge nut	Alu-bronze CC333G (AB2)	18. Gland flange bolt <sup>(2)</sup>	Steel, hot dip galvanized
6. Stem	Stainless steel 1.4057 (431)	19. Seal <sup>(2)</sup>	Hot melt glue
7. O-cord	EPDM rubber	20. Bonnet bolt <sup>(2)</sup>	Steel, hot dip galvanized
8. Bonnet	Ductile iron GJS-500-7 (GGG-50)	21. Thrust nut <sup>(3)</sup>	Alu-bronze CW307G
9. Air plug <sup>(1)</sup>	Stainless steel	22. Distance piece <sup>(3)</sup>	Ductile iron GJS-500-7 (GGG-50)
10. Key	Steel	23. Gland <sup>(3)</sup>	Ductile iron GJS-500-7 (GGG-50)
11. Bolts <sup>(1)</sup>	Steel, hot dip galvanized	24. Packing <sup>(3)</sup>	PTFE
12. By-pass valve		25. Stuffing box <sup>(4)</sup>	Ductile iron GJS-500-7 (GGG-50)
13. O-ring	EPDM rubber	26. Eye bolt <sup>(4)</sup>	Steel, hot dip galvanized

Components may be substituted with equivalent or higher class materials without prior notification.

(1) DN350-600: bronze air plug and stainless steel A4 bolts

(2) DN350-600

(3) DN700-1800

(4) DN1100 and DN1400-1800

## Reference nos. and dimensions:

AVK ref. no.	DN	Closing	Flange	L	H1	H2	W	W1	F	F1	F2	Actuator	By-pass	Theoretical
	mm	Direction	drilling	mm	mm	mm	mm	mm	mm	mm	mm	flange	DN	weight / kg
54-0350-33-0101100	350	CTC	PN10	381	782	265	775	495	40	48	162	14	50	304
54-0350-33-1101100	350	CTC	PN16	381	782	265	775	495	40	48	162	14	50	304
54-0350-34-0101100	350	CTO	PN10	381	782	265	775	495	40	48	162	14	50	304
54-0350-34-1101100	350	CTO	PN16	381	782	265	775	495	40	48	162	14	50	304
54-0400-33-0101100	400	CTC	PN10	406	857	295	827	525	40	48	162	14	50	372
54-0400-33-1101100	400	CTC	PN16	406	857	295	827	525	40	48	162	14	50	372
54-0400-33-1102100	400	CTC	PN16	406	857	261	827	525	40	48	162	16	50	372
54-0400-34-0101100	400	CTO	PN10	406	857	295	827	525	40	48	162	14	50	372
54-0400-34-1101100	400	CTO	PN16	406	857	295	827	525	40	48	162	14	50	372

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**AVK METAL SEAT GATE VALVE, FLANGED, PN 10/16****54/3334-001****SS stem, alu-bronze seat, A4/galv. 8.8 bolts, CTC/CTO, blue FBE/2-pack, by-pass****Reference nos. and dimensions:**

AVK ref. no.	DN	Closing	Flange	L	H1	H2	W	W1	F	F1	F2	Actuator	By-pass	Theoretical
	mm	Direction	drilling	mm	mm	mm	mm	mm	mm	mm	mm	flange	DN	weight / kg
54-0450-33-0101100	450	CTC	PN10	432	944	325	895	560	40	48	162	14	80	452
54-0450-33-1101100	450	CTC	PN16	432	944	325	895	560	40	48	162	14	80	452
54-0450-33-1102100	450	CTC	PN16	432	944	325	895	560	40	48	162	16	80	452
54-0450-34-0101100	450	CTO	PN10	432	944	325	895	560	40	48	162	14	80	452
54-0450-34-1101100	450	CTO	PN16	432	944	325	895	560	40	48	162	14	80	452
54-0500-33-0101100	500	CTC	PN10	457	1017	365	965	600	40	48	162	14	80	553
54-0500-33-0102100	500	CTC	PN10	457	1017	365	965	600	40	48	162	16	80	553
54-0500-33-1101100	500	CTC	PN16	457	1017	365	965	600	40	48	162	14	80	553
54-0500-33-1102100	500	CTC	PN16	457	1017	365	965	600	40	48	162	16	80	553
54-0500-34-0101100	500	CTO	PN10	457	1017	365	965	600	40	48	162	14	80	553
54-0500-34-1101100	500	CTO	PN16	457	1017	365	965	600	40	48	162	14	80	553
54-0600-33-0101100	600	CTC	PN10	508	1178	440	1080	660	40	48	162	14	80	723
54-0600-33-1101100	600	CTC	PN16	508	1178	440	1080	660	40	48	162	14	80	723
54-0600-33-1102100	600	CTC	PN16	508	1178	440	1080	660	40	48	162	16	80	723
54-0600-34-0101100	600	CTO	PN10	508	1178	440	1080	660	40	48	162	14	80	723
54-0600-34-1101100	600	CTO	PN16	508	1178	440	1080	660	40	48	162	14	80	723
54-0700-33-0101100	700	CTC	PN10	610	1497	450	1359	834	-	-	116	14	100	1440
54-0700-33-0102100	700	CTC	PN10	610	1497	450	1359	834	-	-	129	16	100	1440
54-0700-33-1101100	700	CTC	PN16	610	1497	450	1359	834	-	-	116	14	100	1440
54-0700-33-1102100	700	CTC	PN16	610	1497	450	1359	834	-	-	129	16	100	1440
54-0700-33-1103100	700	CTC	PN16	610	1497	450	1359	834	-	-	169	25	100	1440
54-0700-34-0101100	700	CTO	PN10	610	1497	450	1359	834	-	-	116	14	100	1440
54-0700-34-0102100	700	CTO	PN10	610	1497	450	1359	834	-	-	129	16	100	1440
54-0700-34-1101100	700	CTO	PN16	610	1497	450	1359	834	-	-	116	14	100	1440
54-0700-34-1102100	700	CTO	PN16	610	1497	450	1359	834	-	-	129	16	100	1440
54-0700-34-1103100	700	CTO	PN16	610	1497	450	1359	834	-	-	169	25	100	1440
54-0800-33-0101100	800	CTC	PN10	660	1689	525	1488	908	-	-	116	14	100	1789
54-0800-33-0102100	800	CTC	PN10	660	1689	535	1488	908	-	-	129	16	100	1789
54-0800-33-0103100	800	CTC	PN10	660	1689	535	1488	908	-	-	169	25	100	1789
54-0800-33-1101100	800	CTC	PN16	660	1689	535	1488	908	-	-	116	14	100	1789
54-0800-33-1102100	800	CTC	PN16	660	1689	535	1488	908	-	-	129	16	100	1789
54-0800-33-1103100	800	CTC	PN16	660	1689	535	1488	908	-	-	169	25	100	1789
54-0800-33-1104100	800	CTC	PN16	660	1689	535	1488	908	-	-	199	30	100	1799
54-0800-34-0101100	800	CTO	PN10	660	1488	525	1160	908	-	-	116	14	100	1789
54-0800-34-0102100	800	CTO	PN10	660	1689	535	1488	908	-	-	129	16	100	1789
54-0800-34-1101100	800	CTO	PN16	660	1689	525	1488	908	-	-	116	14	100	1789
54-0800-34-1102100	800	CTO	PN16	660	1689	535	1488	908	-	-	129	16	100	1789
54-0900-33-0102100	900	CTC	PN10	711	1844	596	1603	948	-	-	131	16	100	2341
54-0900-33-1101100	900	CTC	PN16	711	1844	596	1603	948	-	-	118	14	100	2341
54-0900-33-1102100	900	CTC	PN16	711	1844	596	1603	948	-	-	131	16	100	2341
54-0900-33-1103100	900	CTC	PN16	711	1844	596	1603	948	-	-	171	25	100	2341
54-0900-33-1104100	900	CTC	PN16	711	1844	596	1603	948	-	-	201	30	100	2351
54-0900-34-0102100	900	CTO	PN10	711	1844	596	1603	948	-	-	131	16	100	2341
54-0900-34-0104100	900	CTO	PN16	711	1844	596	1603	948	-	-	201	30	100	2351
54-0900-34-1101100	900	CTO	PN16	711	1844	596	1603	948	-	-	118	14	100	2341
54-0900-34-1102100	900	CTO	PN16	711	1844	596	1603	948	-	-	131	16	100	2341
54-0900-34-1103100	900	CTO	PN16	711	1844	596	1603	948	-	-	171	25	100	2341
54-1000-33-0102100	1000	CTC	PN10	813	2007	648	1707	1005	-	-	136	16	100	3083
54-1000-33-0103100	1000	CTC	PN10	813	2007	648	1707	1005	-	-	176	25	100	3083
54-1000-33-0104100	1000	CTC	PN16	813	2007	648	1707	1005	-	-	206	30	100	3093
54-1000-33-1102100	1000	CTC	PN16	813	2007	648	1707	1005	-	-	136	16	100	3083
54-1000-33-1103100	1000	CTC	PN16	813	2007	648	1707	1005	-	-	176	25	100	3083
54-1000-33-1104100	1000	CTC	PN16	813	2003	648	1707	1005	-	-	206	30	100	3093
54-1000-34-0102100	1000	CTO	PN10	813	2007	648	1707	1005	-	-	136	16	100	3083
54-1000-34-1102100	1000	CTO	PN16	813	2007	648	1707	1005	-	-	136	16	100	3083
54-1000-34-1103100	1000	CTO	PN16	813	2007	648	1707	1005	-	-	176	25	100	3083
54-1100-33-0302100	1100	CTC	PN10	811	2382	700	1793	1040	-	-	160	16	100	4046
54-1100-33-0303100	1100	CTC	PN10	811	2382	700	1793	1040	-	-	173	25	100	4078
54-1100-33-1302100	1100	CTC	PN16	811	2382	700	1793	1040	-	-	160	16	100	4046
54-1100-33-1303100	1100	CTC	PN16	811	2382	700	1793	1040	-	-	173	25	100	4078
54-1100-34-0302100	1100	CTO	PN10	811	2382	700	1793	1040	-	-	160	16	100	4046

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AVK ref. no.	DN mm	Closing Direction	Flange drilling	L mm	H1 mm	H2 mm	W mm	W1 mm	F mm	F1 mm	F2 mm	Actuator flange	By-pass DN	Theoretical weight / kg
54-1100-34-0303100	1100	CTO	PN10	811	2382	700	1793	1040	-	-	173	25	100	4078
54-1100-34-1302100	1100	CTO	PN16	811	2382	700	1793	1040	-	-	160	16	100	4046
54-1100-34-1303100	1100	CTO	PN16	811	2382	700	1793	1040	-	-	173	25	100	4078
54-1200-33-0302100	1200	CTC	PN10	914	2427	773	2036	1180	-	-	136	16	150	4730
54-1200-33-0303100	1200	CTC	PN10	914	2427	773	2036	1108	-	-	176	25	150	4730
54-1200-33-0304100	1200	CTC	PN10	914	2427	773	2036	1108	-	-	206	30	150	4730
54-1200-33-1302100	1200	CTC	PN16	914	2427	773	2036	1180	-	-	136	16	150	4730
54-1200-33-1303100	1200	CTC	PN16	914	2427	773	2036	1180	-	-	176	25	150	4730
54-1200-33-1304100	1200	CTC	PN16	914	2427	773	2036	1180	-	-	206	30	150	4730
54-1200-34-0302100	1200	CTO	PN10	914	2427	773	2036	1180	-	-	136	16	150	4730
54-1200-34-1302100	1200	CTO	PN16	914	2427	773	2036	1180	-	-	136	16	150	4730
54-1400-33-0303100	1400	CTC	PN10	876	2870	885	2275	1297	-	-	166	25	100	7600
54-1400-33-0304100	1400	CTC	PN10	876	2870	885	2275	1297	-	-	202	30	100	7600
54-1400-33-1303100	1400	CTC	PN16	876	2870	885	2275	1297	-	-	166	25	100	7600
54-1400-34-0303100	1400	CTO	PN10	876	2870	885	2275	1297	-	-	166	25	100	7600
54-1400-34-1303100	1400	CTO	PN16	876	2870	885	2275	1297	-	-	166	25	100	7600
54-1600-33-0303100	1600	CTC	PN10	914	3291	1060	2577	1434	-	-	179	25	150	12200
54-1600-33-0304100	1600	CTC	PN10	914	3291	1060	2577	1434	-	-	205	30	150	12200
54-1600-33-1303100	1600	CTC	PN16	914	3291	1060	2577	1434	-	-	179	25	150	12200
54-1600-33-1304100	1600	CTC	PN16	914	3291	1060	2577	1434	-	-	205	30	150	12200
54-1600-34-0303100	1600	CTO	PN10	914	3291	1060	2577	1434	-	-	179	25	150	12200
54-1600-34-1303100	1600	CTO	PN16	914	3291	1060	2577	1434	-	-	179	25	150	12200
54-1600-34-1304100	1600	CTO	PN16	914	3291	1060	2577	1434	-	-	205	30	100	12200
54-1800-33-0304100	1800	CTC	PN10	1067	3659	1180	2795	1601	-	-	208	30	200	14900
54-1800-33-1304100	1800	CTC	PN16	1067	3659	1180	2795	1601	-	-	208	30	200	14900
54-1800-34-0304100	1800	CTO	PN10	1067	3659	1180	2795	1601	-	-	208	30	200	14900
54-1800-34-1304100	1800	CTO	PN16	1067	3659	1180	2795	1601	-	-	208	30	200	14900

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