



## AVK GATE VALVE, AWWA, FLANGED, PN10/16

45/59-010

**SS/alu-bronze stem, wrench nut, EPDM (NBR gasket), A4 bolts, brass wedge nut, PI flange, 250 µm blue EP, UL/ULC/FM, DN65-400**

AVK series 45 gate valves are designed to US-standards. Valve body, bonnet and wedge core are made of ductile iron which ensures high strength and reliability. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound featuring an outstanding ability to regain its original shape. Corrosion protection is excellent with all iron parts coated with fusion bonded epoxy, fasteners in stainless steel and stem in either copper alloy or stainless steel.

### Product description:

Flanged gate valve with post indicator flange for fire protection applications to max. 70°C/160°F, rated working pressure DN 50-300: 250psi/17bar, DN 350-400: 200psi/14bar

### Standards:

- Designed according to AWWA C509, Designed according to FM 1120/1130, UL 262
- Face-to-face dimension according to ANSI B16.10
- Universal flange drilling to EN1092 (ISO 7005-2), PN 10/16

### Test/Approvals:

- Hydraulic tests according to FM and UL Standards
- Seat: 1.5 x PN (in Bar). Body: 2 x PN (in Bar). Closing torque test.
- FM Approved, UL/ULC listed

### Features:

- Integral wedge nut firmly fixed to the wedge prevents vibration
- Wedge fully vulcanized with EPDM rubber in a process that prevents creeping corrosion underneath the rubber
- Wedge sliding on guide rails gives smooth operation and low operating torque
- A large conical stem hole in the wedge ensures circulation and prevents stagnant water
- Stem of stainless steel AISI 304 with rolled threads (DN50-300) or high strength alu-bronze grade C63020 (DN350-400)
- Stem sealing with an NBR wiper ring, two upper O-rings in a polyamide bearing, one lower O-ring and one O-ring gland seal
- Round bonnet gasket fixed in a recess to prevent blow-out
- Bonnet bolts in A4 stainless steel, counterbored, sealed with hot-melt and encircled by the bonnet gasket
- Full bore and clear way
- Brass thrust bearing for low operating torque
- Fusion bonded epoxy coating blue RAL5017 in compliance with DIN 3476 part 1 and EN 14901

### Accessories:

Post indicator, wall post indicator



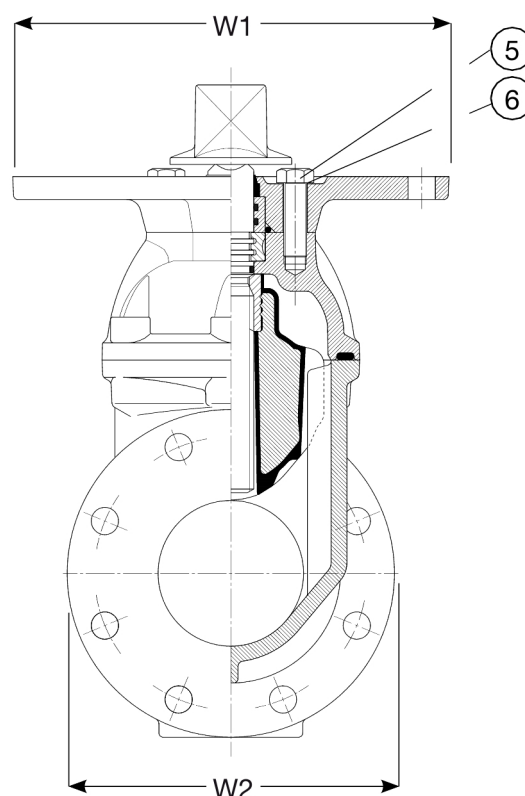
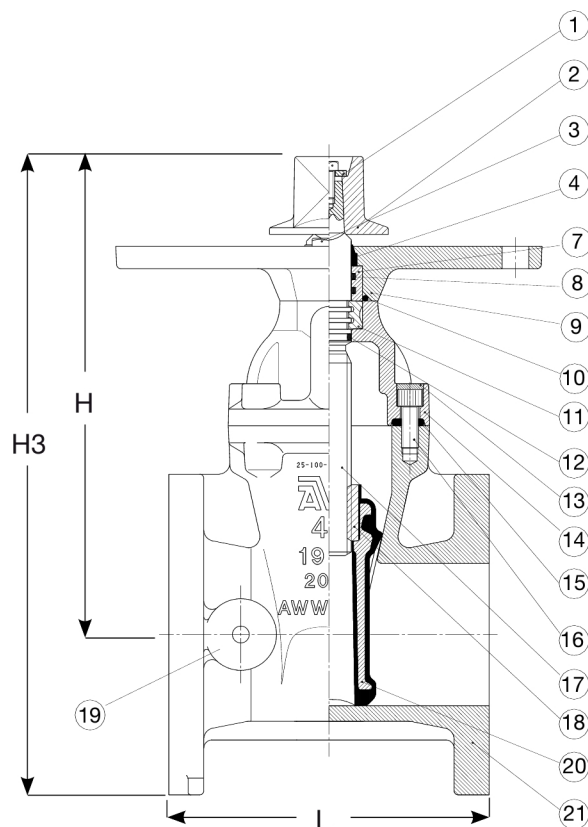
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**Component list:**

1. Bolt, hexagon head	Stainless steel A4	12. O-ring stem seal	EPDM rubber
2. Washer	Stainless steel A4	13. Bonnet bolt seal	Hot melt glue
3. Wrench nut	Cast iron GJL-250 (GG-25)	14. Bonnet	Ductile iron GJS-500-7 (GGG-50)
4. Wiper ring	NBR rubber	15. Bonnet gasket	NBR rubber
5. Gland bolt	Stainless steel A4	16. Bonnet bolt	Stainless steel A4
6. Washer	Stainless steel A4	17. Stem <sup>(1)</sup>	Stainless steel 304
7. O-ring stem seal	NBR rubber	18. Wedge nut	Brass, DZR CW602N
8. Bushing	Polyamide	19. Tapped boss	Ductile iron GJS-500-7 (GGG-50)
9. Post indicator plate	Ductile iron GJS-500-7 (GGG-50)	20. Wedge	Ductile iron, EPDM encapsulated
10. O-ring	NBR rubber	21. Body	Ductile iron GJS-500-7 (GGG-50)
11. Thrust collar	Brass, DZR CW602N		

Components may be substituted with equivalent or higher class materials without prior notification.  
 1) DN350-400: Alu-bronze C63020

**Reference nos. and dimensions:**

AVK ref. no.	DN	Flange	L	H	H3	W1	W2	Theoretical weight / kg
	mm	drilling	mm	mm	mm	mm	mm	
45-065-59-016141	65	PN10/16	191	311	394	305	178	29
45-080-59-016141	80	PN10/16	203	307	403	305	191	32
45-100-59-016141	100	PN10/16	229	343	458	305	229	36
45-150-59-016141	150	PN10/16	267	445	585	305	280	51
45-200-59-006141	200	PN10	292	546	718	305	345	77
45-200-59-016141	200	PN16	292	546	718	305	345	77
45-250-59-006141	250	PN10	330	628	832	305	406	129
45-250-59-016141	250	PN16	330	628	832	305	406	129
45-300-59-006141	300	PN10	356	701	944	305	483	193
45-300-59-016141	300	PN16	356	701	944	305	483	193
45-350-5D-016B41	350	PN16	381	891	1158	305	533	350
45-400-5D-006B41	400	PN10	406	893	1192	305	597	376
45-400-5D-016B41	400	PN16	406	893	1192	305	597	376

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AVK ref. no.	DN mm	Flange drilling	L mm	H mm	H3 mm	W1 mm	W2 mm	Theoretical weight / kg