



AVK GATE VALVE, AWWA, FLANGED, PN10/16

45/59-020

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

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 wrench nut 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
- Flange drilling to EN1092, PN10/16

Test/Approvals:

- 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:

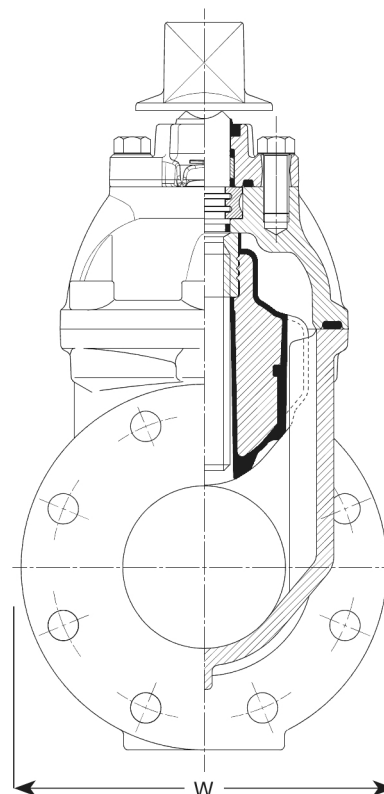
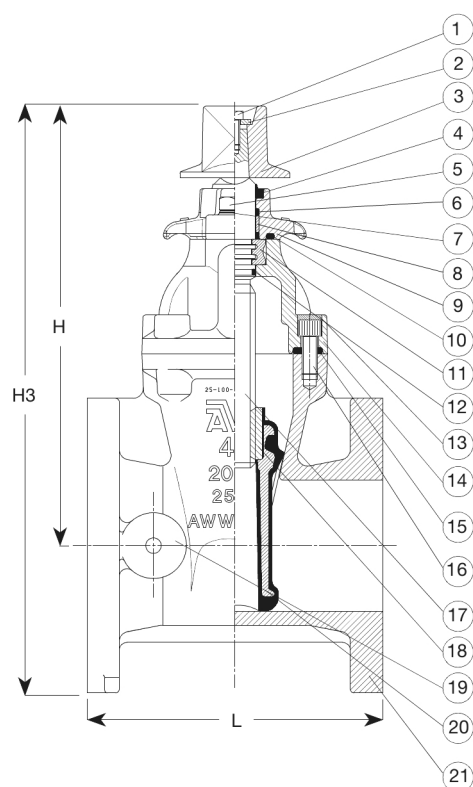
Extension spindle, street cover, T-key, flange adaptor and combi-flange



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The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.

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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. Stem seal O-ring	NBR rubber	17. Stem ⁽¹⁾	Stainless steel A2
7. Washer	Stainless steel A4	18. Wedge nut	Brass DZR CW602N
8. Bushing	Polyamide	19. Tapped boss	Ductile iron GJS-500-7 (GGG-50)
9. Gland flange	Ductile iron GJS-500-7 (GGG-50)	20. Wedge	Ductile iron GJS-500-7 (GGG-50)
10. Gland flange 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 mm	Flange drilling	L mm	H mm	H3 mm	W mm	Theoretical weight/kg
45-050-59-01614	50	PN10/16	169	293	383	165	23
45-065-59-01614	65	PN10/16	191	311	394	178	29
45-080-59-01614	80	PN10/16	203	307	403	191	32
45-100-59-01614	100	PN10/16	229	343	458	229	36
45-150-59-01614	150	PN10/16	267	445	585	280	51
45-200-59-00614	200	PN10	292	546	718	343	77
45-200-59-01614	200	PN16	292	546	718	343	77
45-250-59-00614	250	PN10	330	628	832	407	129
45-250-59-01614	250	PN16	330	628	832	407	129
45-300-59-00614	300	PN10	356	701	944	438	193
45-300-59-01614	300	PN16	356	701	944	438	193
45-350-5D-016B4 ⁽¹⁾	350	PN16	381	891	1158	585	342
45-400-5D-006B4 ⁽¹⁾	400	PN10	406	893	1192	597	369

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AVK ref. no.	DN	Flange	L	H	H3	W	Theoretical
	mm	drilling	mm	mm	mm	mm	weight/kg
45-400-5D-016B4 ⁽¹⁾	400	PN16	406	893	1192	597	369
⁽¹⁾ Stem in aluminium bronze. 200 PSI/14 bar							