



AVK GATE VALVE, FLANGED, PE PIPE ENDS, PN16

38/80-116

Black/blue SDR11 PE100 pipe end

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

Product description:

Gate valve with flange/PE100 PN16 SDR11 pipe end. For water and neutral liquids to max. 20° C. Note: The maximum working temperature is set according to the ISO9080 lifetime requirements for PE pipes, and is therefore not the max. temperature for the valve.

Design standards:

- EN 1074 part 1 & 2, EN 1171
- Flange drilling to EN1092, PN10/16

Test/Approvals:

- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar). Operation torque test
- Belgaqua approved material
- Approved according to ACS Certificate 18 ACC NY 369
- Approved according to SVGW Certificate No. 0301-4608 for pipe $\varnothing \leq 400\text{mm}$

Features:

- Fixed, integral wedge nut prevents vibration and ensures durability
- Wedge fully vulcanized with drinking water approved EPDM rubber and equipped with wedge shoes to provide smooth operation
- Large conical stem hole in the wedge prevents stagnant water
- Wedge and body guide rails ensure stable operation
- Stainless steel stem with wedge stop and rolled threads for high strength
- Full circle thrust collar provides fixation of the stem and low free running torques
- Triple safety stem sealing with an NBR wiper ring, a polyamide bearing with four NBR O-rings and an EPDM rubber manchette
- Round EPDM bonnet gasket fixed in a recess
- Countersunk and sealed stainless steel bonnet bolts encircled by the bonnet gasket
- Full bore
- Low operating torque
- Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved
- A standard PE pipe is pressed onto the grooved valve end, locked with a steel ring and sealed with a plastic shrink hose. The boltless, full bore PE end connection is tensile resistant and stronger than the PE pipe itself. The PE pipe end enables direct welding into PE pipes resulting in a fast and secure assembly.
Note: The maximum working temperature of 20°C is set according to the ISO9080 lifetime requirements for PE pipes. For higher working temperatures expect a reduction of the PE pipe's lifetime. Please refer to the local pipe manufacturer for further information.

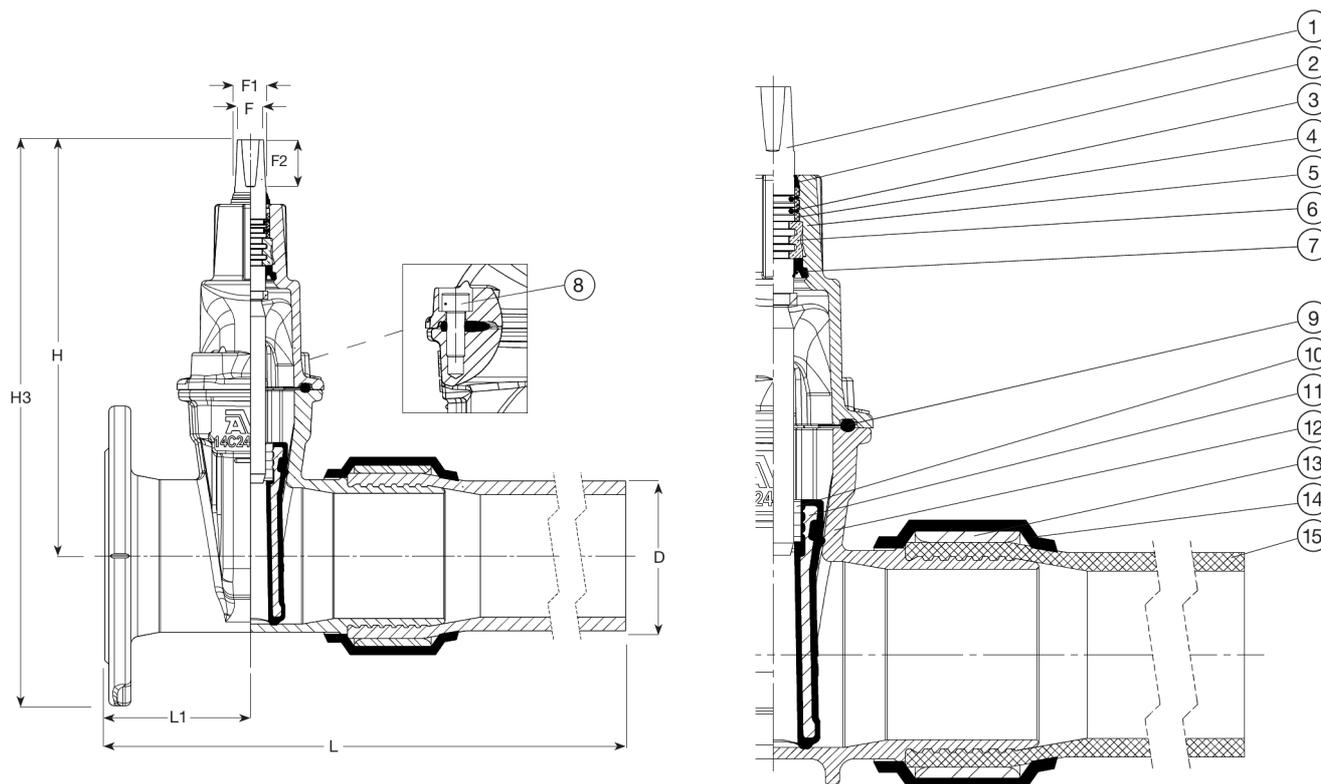
Accessories:

Stem cap, handwheel, extension spindle, street cover, 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.



Component list:

1. Stem	Stainless steel 1.4104 (430F)	9. Bonnet gasket	EPDM rubber
2. Wiper ring	NBR rubber	10. Wedge nut	Brass DZR CW626N
3. O-ring	NBR rubber	11. Wedge	Ductile iron, EPDM encapsulated
4. Bearing	Polyamide	12. Body	Ductile iron GJS-400-15
5. Bonnet	Ductile iron GJS-400-15	13. Sleeve	Carbon steel
6. Thrust collar	Brass DZR CW602N	14. Shrink hose	Plastic
7. Manchette	EPDM rubber	15. Pipe	PE
8. Bonnet bolt	Stainless steel A2, sealed with hot melt		

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

Reference nos. and dimensions:

AVK ref. no.	DN	D	Flange	H	H3	L	L1	F	F1	F2	Theoretical weight/kg
	mm	mm	drilling	mm	mm	mm	mm	mm	mm	mm	
38-063-80-163	50	63	PN10/16	241	324	565	125	14	17	29	11
38-075-80-163	65	75	PN10/16	271	364	596	135	17	20	34	16
38-090-80-16306499	80	90	PN10/16	282	382	543	100	17	20	34	13
38-110-80-16306499	100	110	PN10/16	305	415	544	106	19	22	34	17
38-125-80-16306499	125	125	PN10/16	346	471	547	110	19	22	34	23
38-160-80-16306499	150	160	PN10/16	400	543	643	110	19	22	34	35
38-180-80-163	150	180	PN10/16	448	591	726	175	19	22	38	56
38-180-80-16306499	150	180	PN10/16	400	543	647	118	19	22	34	35
38-200-80-16306499	200	200	PN10	400	543	647	132	24	27	34	61
38-225-80-16306499	200	225	PN10	490	660	671	132	24	27	34	63