



AVK GATE VALVE, PE / STEEL SPIGOT ENDS, PN10

46/90-010

For SDR11 PE100/PE100-RC pipes and gas steel pipes, external PUR, replaceable stem sealing, NBR, DN50-300

AVK gate valves are designed with built-in safety in every detail and with full traceability of vital valve components. The wedge is fully vulcanized with AVK's own oil and gas resistant NBR 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 replaceable under pressure, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

Product description:

Gate valve with PE100/PE100-RC PN10 SDR11 pipe acc. to EN 1555-2 / steel spigot end. For gas 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.

Standards:

- Designed according to EN 13774, Spigot ends to EN10216-2, PE pipes according to EN1555-2

Test/Approvals:

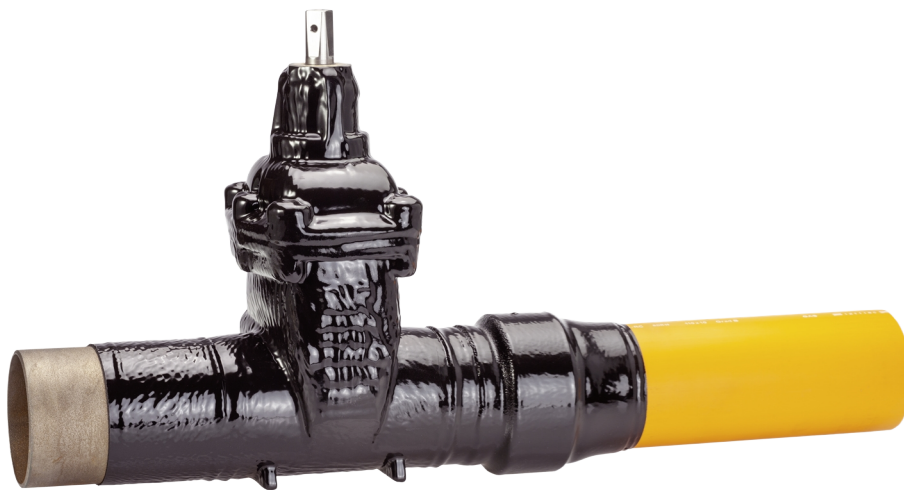
- Hydraulic test to DIN 3230-5, PG 3 and EN 13774
- Seat: 1.1 X PN and 0.5 with air (in bar). Body: 1.5 X PN with water, 1.1 X PN and 0.5 with air (in bar)
- Approved according to DIN-DVGW Certificate NG-4313BO0281
- Approved according to DVGW EC Certificate CE-0085BO0317

Features:

- Fixed, integral wedge nut prevents vibration and ensures durability
- Wedge fully vulcanized with NBR rubber and equipped with wedge shoes to provide smooth operation
- 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 and four NBR O-rings in a stem seal nut of dezincification resistant brass replaceable under pressure. A rubber manchette is the main seal to the flow
- Round NBR 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, PUR according to EN 10290 type 2, class B for extra cathodic protection externally
- 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

Accessories:

Stem cap, handwheel, extension spindle and street cover



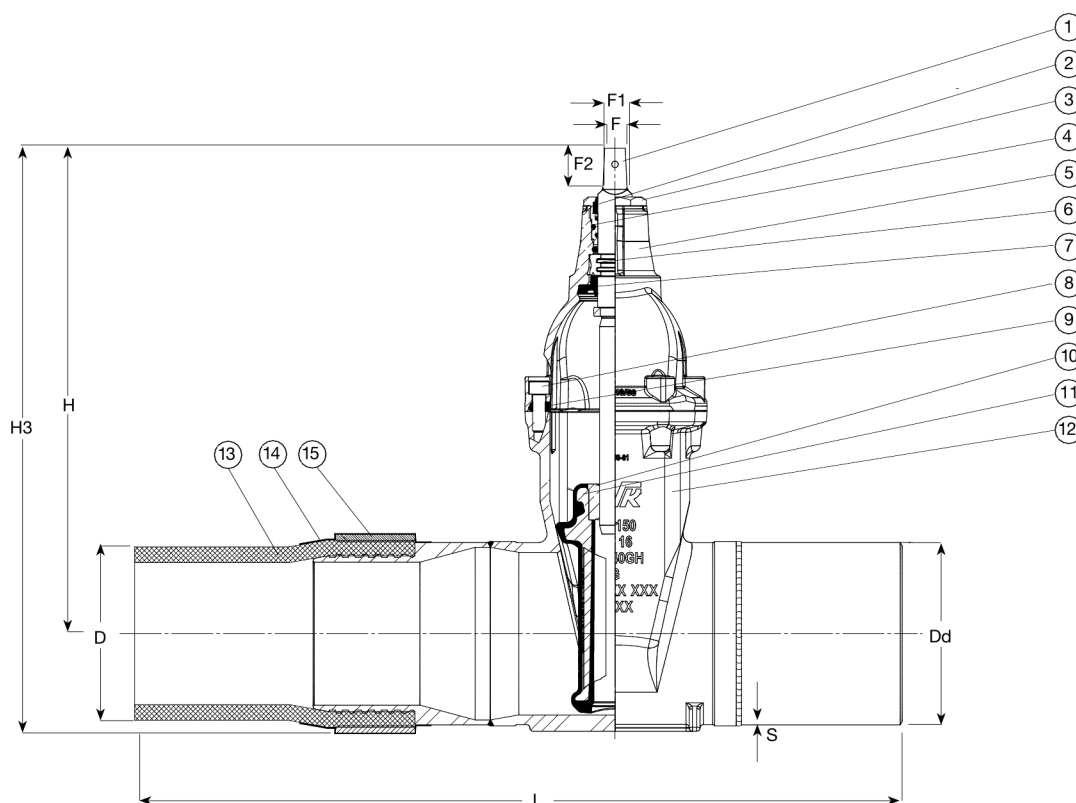
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Component list:

1. Stem	Stainless steel 1.4104 (430F)	9. Bonnet gasket	NBR rubber
2. Wiper ring	NBR rubber	10. Wedge nut	Brass, DZR CW626N
3. Stem seal nut	Brass, DZR CW602N	11. Wedge	Ductile iron, NBR encapsulated
4. O-ring	NBR rubber	12. Body	Cast steel GP240GH+N
5. Bonnet	Ductile iron GJS-400-15 (GGG-40)	13. Pipe	PE
6. Thrust collar	Brass, DZR CW602N	14. Shrink hose	Plastic
7. Manchette	NBR rubber	15. Sleeve	Carbon steel
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	Dd	L	H	H3	F	F1	F2	S	Theoretical weight / kg
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
46-063-90-0038070	50	63	76	774	243	281	14	17	29	2,9	9.0
46-090-90-0038070	80	90	101	782	298	351	17	20	34	3,2	15
46-110-90-0038070	100	110	114	782	355	398	19	22	38	3,6	21
46-160-90-0038070	150	160	168	900	448	538	19	22	38	4,5	39
46-225-90-0038070	200	225	219	935	562	681	24	27	42	6,3	65
46-250-90-0038070	250	250	273	1053	664	811	27	31	47	6,3	95
46-315-90-0038070	300	315	324	1105	739	910	27	31	47	7,1	145

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