# AVK GATE VALVE, PE PIPE ENDS, PN16

**36/80-116**

**Black/blue SDR11 PE100 pipes, DN65-500**

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 PE100 PN16 SDR11 pipes. For water and neutral liquids to max. 20° C. Note: The maximum working temp. 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 1074 part 1 & 2, Designed according to EN 1171

**Test/Approvals:**

- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar). Operation torque test
- Materials approved for drinking water
- Hydraulic test according to EN 1074-1 and 2 / EN 12266
- Belgaqua approved
- Approved according to DIN-DVGW Certificate NW-6202BN0114
- Approved according to ACS Certificate 18 ACC NY 369
- Approved according to SVGW Certificate No. 0301-4608 for pipe Ø ≤ 400mm

**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 fully tensile resistant and designed to meet all the criteria specified in DVGW G5600-1 (≤ DN400 DVGW approved). The PE pipe end enables direct welding into PE pipes resulting in a fast and secure assembly.
  Note: 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 and street cover

SVGW

DVGW CERT

ATTESTATION DE CONFORMITÉ SANITAIRE ACS

BELGAQUA

Expect... AVK

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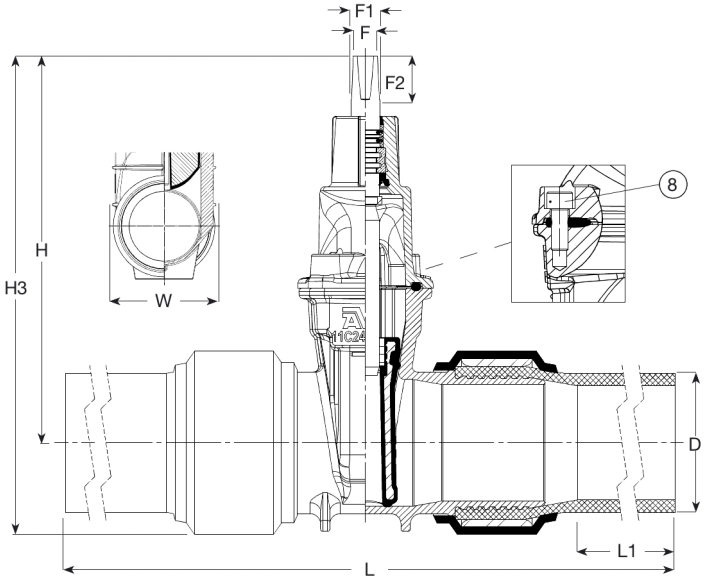


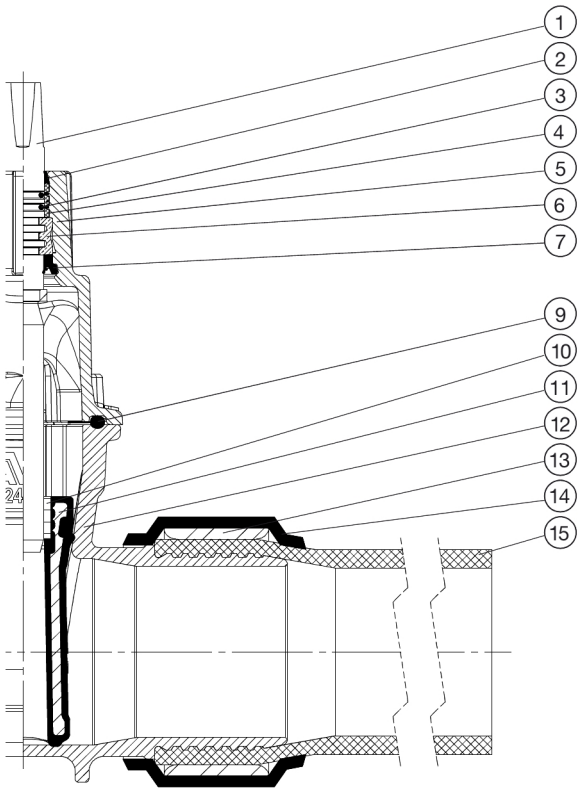


## Component list:

| | | | | | |
|---|---|---|---|---|---|
| 1. | Stem | Stainless steel 1.4104 (430F) | 9. | Bonnet gasket | EPDM rubber |
| 2. | Wiper ring | NBR rubber | 10. | Wedge nut (2) | Brass, DZR CW626N |
| 3. | O-ring | NBR rubber | 11. | Wedge | Ductile iron, EPDM encapsulated |
| 4. | Bearing | Polyamide | 12. | Body (1) | Ductile iron GJS-500-7 (GGG-50) |
| 5. | Bonnet (1) | Ductile iron GJS-500-7 (GGG-50) | 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.
(1) Body and bonnet, Ø450 - Ø630 mm in GJS-400-18LT
(2) DN500: CW724R Si-brass

## Reference nos. and dimensions:

| AVK ref. no. | DN | D | H | H3 | L (± tol) | L1 | W | F | F1 | F2 | Theoretical | GWP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | weight/kg | kg CO2 eq. |
| 36-075-80-163 | 65 | 75 | 271 | 322 | 900 (20) | 250 | 135 | 17 | 20 | 34 | 12 | 26 |
| 36-090-80-16306499 | 80 | 90 | 282 | 342 | 900 (20) | 255 | 173 | 17 | 20 | 34 | 12 | 26 |
| 36-110-80-16306499 | 100 | 110 | 305 | 378 | 860 (20) | 250 | 194 | 19 | 22 | 34 | 17 | 37 |
| 36-125-80-16306499 | 125 | 125 | 346 | 432 | 860 (20) | 300 | 222 | 19 | 22 | 34 | 26 | 57 |
| 36-140-80-16306499 | 125 | 140 | 346 | 435 | 860 (20) | 250 | 222 | 19 | 22 | 34 | 26 | 57 |
| 36-160-80-16306499 | 150 | 160 | 400 | 502 | 1030 (20) | 325 | 274 | 19 | 22 | 34 | 36 | 79 |
| 36-180-80-16306499 | 150 | 180 | 400 | 508 | 1030 (20) | 265 | 274 | 19 | 22 | 34 | 36 | 79 |
| 36-200-80-16306499 | 200 | 200 | 490 | 615 | 1080 (20) | 255 | 334 | 24 | 27 | 34 | 65 | 143 |
| 36-225-80-16306499 | 200 | 225 | 490 | 632 | 1080 (20) | 265 | 334 | 24 | 27 | 34 | 72 | 158 |
| 36-250-80-163 | 250 | 250 | 664 | 810 | 1280 (30) | 420 | 372 | 27 | 31 | 47 | 118 | 260 |
| 36-280-80-163 | 250 | 280 | 664 | 823 | 1360 (30) | 365 | 372 | 27 | 31 | 47 | 126 | 277 |
| 36-315-80-163 | 300 | 315 | 740 | 924 | 1420 (30) | 355 | 448 | 27 | 31 | 47 | 189 | 416 |
| 36-355-80-163 | 300 | 355 | 740 | 961 | 1520 (30) | 355 | 448 | 27 | 31 | 47 | 230 | 506 |
| 36-400-80-163 | 400 | 400 | 912 | 1165 | 1700 (30) | 355 | 564 | 32 | 37 | 55 | 376 | 827 |
| 36-450-80-163 (1) | 400 | 450 | 935 | 1200 | 1800 (40) | 384 | 564 | 32 | 37 | 55 | 446 | 982 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm | weight/kg | kg CO2 eq. |
| 36-500-80-163 (1) | 400 | 500 | 951 | 1246 | 1850 (40) | 350 | 564 | 32 | 37 | 55 | 514 | 1130 |
| 36-560-80-163 (2) | 500 | 560 | 1118 | 1448 | 2200 (40) | 474 | 834 | Ø30 | - | 75 | 1013 | 2229 |
| 36-630-80-163 (2) | 500 | 630 | 1136 | 1502 | 2350 (40) | 534 | 834 | Ø30 | - | 75 | 1134 | 2496 |

(1) Not included in SVGW certificate

(2) Not included in DVGW and SVGW certificate, F14 topflange, round shaft end w/key-keyway

**Comments:**

Global Warming Potential (GWP) for each valve is calculated as GWP per kilo valve multiplied by the theoretical weight of the valve. GWP per kilo valve has been calculated for the phases A1-A3 (cradle to gate) as declared in the Environmental Product Declaration (ref. no. EPD-IES-0015438) found under downloads for this valve in our product finder on www.avkvalves.eu. The EPD is in accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 and based on Product Category Rules PCR 2019:14 Construction Products (UN CPC code: 412).

**Note**: For comparison of GWP values, please be aware that EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be directly comparable. For further information about comparability, please refer to page two of the EPD.