



## AVK GATE VALVE, FLANGED, PN10/16

06/30-0035

EN 558-2 S.14/DIN F4, DN40-600

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:

Flanged gate valve EN 558-2 S.14/DIN F4. For drinking water and neutral liquids to max. 70°C

### Standards:

- Designed according to EN 1074 part 1 & 2, Designed according to EN 1171
- Face-to-face dimension according to EN 558 Table 2 Basic Series 14
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN10/16

### Test/Approvals:

- Hydraulic test according to EN 1074-1 and 2 / EN 12266
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar). Operation torque test
- Belgaqua approved
- Approved according to DIN-DVGW Certificate NW-6203BN0117
- Approved according to ACS Certificate 18 ACC NY 369
- Approved according to KIWA Certificate K 6320
- Approved according to SVGW Certificate No. 0301-4606

### 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
- DN 450-600 are fitted with stainless steel roller bearings providing low operating torques, ISO top flange, eye lifting bolts and optionally with DN 50 by-pass

### Accessories:

Stem cap, handwheel, extension spindle, street cover, flange adaptor and combi-flange



**kiwa**

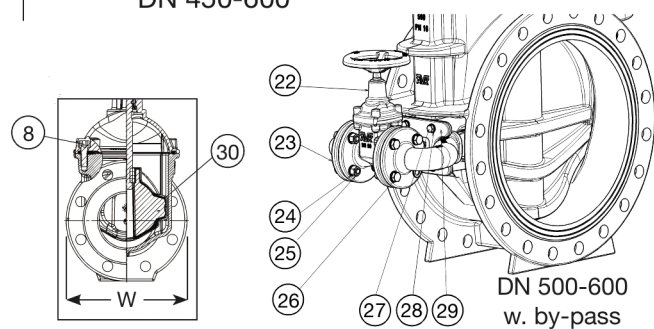
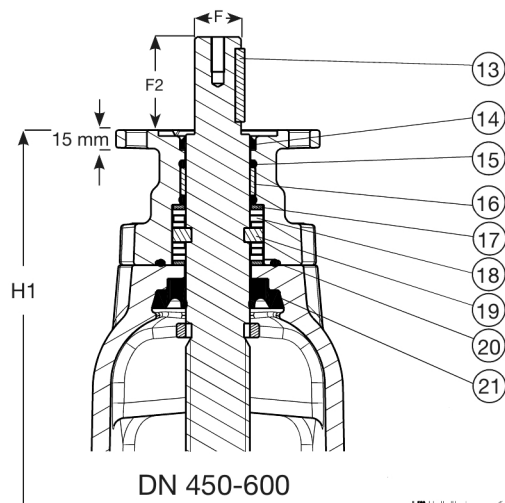
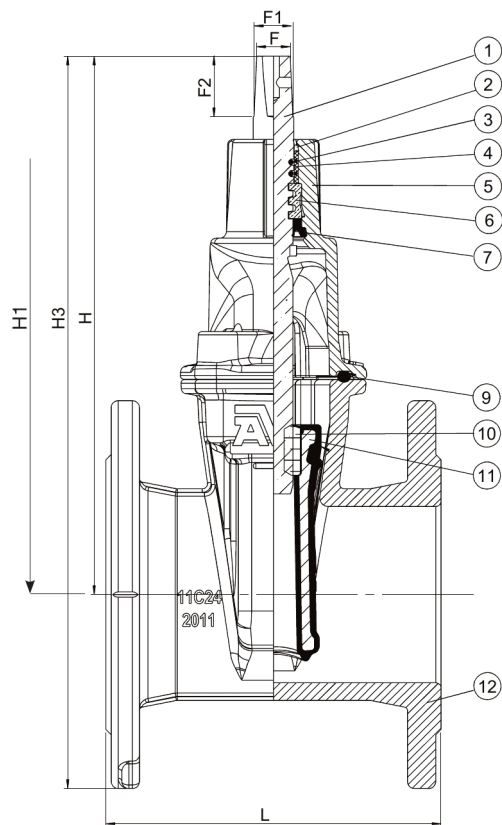


BELGAQUA



Expect... **AVK**

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



**Component list:**

|                              |                                          |                       |                                 |
|------------------------------|------------------------------------------|-----------------------|---------------------------------|
| 1. Stem                      | Stainless steel 1.4104 (430F)            | 16. Bearing           | Polyamide                       |
| 2. Wiper ring                | NBR rubber                               | 17. Thrust washer     | Stainless steel 1.4104 (430F)   |
| 3. O-ring                    | NBR rubber                               | 18. Roller bearing    | Stainless steel                 |
| 4. Bearing                   | Polyamide                                | 19. Thrust collar     | Stainless steel 1.4104 (430F)   |
| 5. Bonnet                    | Ductile iron GJS-500-7 (GGG-50)          | 20. O-ring            | NBR rubber                      |
| 6. Thrust collar             | Brass, DZR CW602N                        | 21. Manchette         | EPDM rubber                     |
| 7. Manchette                 | EPDM rubber                              | 22. By-pass valve     | Ductile iron GJS-500-7 (GGG-50) |
| 8. Bonnet bolt               | Stainless steel A2, sealed with hot melt | 23. By-pass bend      | Ductile iron GJS-500-7 (GGG-50) |
| 9. Bonnet gasket             | EPDM rubber                              | 24. Washer            | Stainless steel A2              |
| 10. Wedge nut <sup>(1)</sup> | Brass, DZR CW626N                        | 25. Nut               | Stainless steel A2              |
| 11. Wedge                    | Ductile iron, EPDM encapsulated          | 26. Bolt              | Stainless steel A2              |
| 12. Body                     | Ductile iron GJS-500-7 (GGG-50)          | 27. Bolt              | Stainless steel A2              |
| 13. Key                      | Stainless steel                          | 28. Washer            | Stainless steel A2              |
| 14. Wiper ring               | NBR rubber                               | 29. Plate for by-pass | Ductile iron GJS-500-7 (GGG-50) |
| 15. O-ring                   | NBR rubber                               | 30. Wedge shoe        | Polyamide                       |

Components may be substituted with equivalent or higher class materials without prior notification.  
 1) DN450-600: SILICON BRASS, DZR CW724R

**AVK GATE VALVE, FLANGED, PN10/16**  
**EN 558-2 S.14/DIN F4, DN40-600**

**06/30-0035**

**Reference nos. and dimensions:**

| AVK ref. no.          | DN<br>mm | Flange<br>drilling | L<br>mm | H<br>mm | H1<br>mm | H3<br>mm | W<br>mm | F<br>mm | F1<br>mm | F2<br>mm | Theoretical<br>weight/kg | GWP<br>kg CO2 eq. |
|-----------------------|----------|--------------------|---------|---------|----------|----------|---------|---------|----------|----------|--------------------------|-------------------|
| 06-040-30-0146499     | 40       | PN10/16            | 140     | 194     | -        | 269      | 150     | 14      | 16       | 30       | 8.0                      | 16                |
| 06-050-30-0146499     | 50       | PN10/16            | 150     | 208     | -        | 290      | 165     | 14      | 16       | 30       | 9.0                      | 19                |
| 06-065-30-0146499     | 65       | PN10/16            | 170     | 244     | -        | 337      | 185     | 17      | 20       | 34       | 11                       | 23                |
| 06-080-30-0146499     | 80       | PN10/16            | 180     | 282     | -        | 382      | 200     | 17      | 20       | 34       | 13                       | 27                |
| 06-100-30-0146499     | 100      | PN10/16            | 190     | 305     | -        | 415      | 220     | 19      | 22       | 34       | 15                       | 31                |
| 06-125-30-0146499     | 125      | PN10/16            | 200     | 346     | -        | 471      | 250     | 19      | 22       | 34       | 19                       | 39                |
| 06-150-30-0146499     | 150      | PN10/16            | 210     | 401     | -        | 543      | 285     | 19      | 22       | 34       | 27                       | 56                |
| 06-200-30-0046499     | 200      | PN10               | 230     | 490     | -        | 660      | 340     | 24      | 28       | 42       | 41                       | 85                |
| 06-200-30-0146499     | 200      | PN16               | 230     | 490     | -        | 660      | 340     | 24      | 28       | 42       | 41                       | 85                |
| 06-250-30-0046499     | 250      | PN10               | 250     | 625     | -        | 825      | 422     | 27      | 31       | 47       | 66                       | 137               |
| 06-250-30-0146499     | 250      | PN16               | 250     | 625     | -        | 825      | 422     | 27      | 31       | 47       | 66                       | 137               |
| 06-300-30-0046487     | 300      | PN10               | 270     | 706     | -        | 934      | 455     | 27      | 31       | 47       | 91                       | 188               |
| 06-300-30-0146487     | 300      | PN16               | 270     | 706     | -        | 934      | 455     | 27      | 31       | 47       | 91                       | 188               |
| 06-350-30-006         | 350      | PN10               | 290     | 924     | -        | 1184     | 564     | 32      | 37       | 55       | 165                      | 342               |
| 06-350-30-016         | 350      | PN16               | 290     | 924     | -        | 1184     | 564     | 32      | 37       | 55       | 165                      | 342               |
| 06-400-30-006         | 400      | PN10               | 310     | 951     | -        | 1241     | 580     | 32      | 37       | 55       | 182                      | 377               |
| 06-400-30-016         | 400      | PN16               | 310     | 951     | -        | 1241     | 580     | 32      | 37       | 55       | 181                      | 375               |
| 06-450-30-006 (1)     | 450      | PN10               | 330     | 1167    | 1087     | 1487     | 814     | Ø30     | -        | 75       | 407                      | 842               |
| 06-450-30-016 (1)     | 450      | PN16               | 330     | 1167    | 1087     | 1487     | 814     | Ø30     | -        | 75       | 407                      | 842               |
| 06-500-30-006 (1)     | 500      | PN10               | 350     | 1142    | 1062     | 1500     | 834     | Ø30     | -        | 75       | 430                      | 890               |
| 06-500-30-0060011 (2) | 500      | PN10               | 350     | 1142    | 1062     | 1500     | 1045    | Ø30     | -        | 75       | 439                      | 909               |
| 06-500-30-016 (1)     | 500      | PN16               | 350     | 1142    | 1062     | 1500     | 834     | Ø30     | -        | 75       | 430                      | 890               |
| 06-500-30-0160011 (2) | 500      | PN16               | 350     | 1142    | 1062     | 1500     | 1045    | Ø30     | -        | 75       | 459                      | 950               |
| 06-600-30-006 (1)     | 600      | PN10               | 390     | 1285    | 1205     | 1705     | 964     | Ø30     | -        | 75       | 593                      | 1228              |
| 06-600-30-0060011 (2) | 600      | PN10               | 390     | 1285    | 1205     | 1705     | 1105    | Ø30     | -        | 75       | 602                      | 1246              |
| 06-600-30-016 (1)     | 600      | PN16               | 390     | 1285    | 1205     | 1705     | 964     | Ø30     | -        | 75       | 613                      | 1269              |
| 06-600-30-0160011 (2) | 600      | PN16               | 390     | 1285    | 1205     | 1705     | 1105    | Ø30     | -        | 75       | 622                      | 1288              |

(1) With F14 top flange. round stem w/keyway  
(2) With F14 top flange and by-pass. round stem w/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. S-P-09366) found under downloads for this valve in our product finder on [www.avkvalves.eu](http://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.