



KNIFE GATE VALVE, PN10

702/20-103

Rising stem and handwheel, replaceable top packing gland, DN50-600

AVK lug/wafer knife gate valves are bi-directional with full and plane bore. The protected sealings and high quality materials bring about a great performance and a long service life. AVK knife gate valves are available with lever, non-rising stem and handwheel, rising stem and handwheel, pneumatic actuator, ISO top flange for actuator or complete with electric actuator.

Product description:

Knife gate valve with rising stem and handwheel for wastewater treatment 0°C to +80°C

Standards:

- Face-to-face dimension according EN 558 - Series 20
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN10/16

Features:

- Replaceable top packing gland enables sealing replacement without disassembly of the valve
- The valve is self cleaning as particles will be pushed off the gate when opening the valve. For extra protection of the packing gland a scraper is available as an optional extra.
- Bi-directional, can be installed independent of the flow direction
- Full bore with no reduction of the flow
- Plane bottom prevents sediment from being accumulated
- No cavity in the body and thus no risk of clogging
- U-shaped one-piece NBR sealing between the body parts makes up for tolerances in coating and casting. It is reinforced with a steel insert to protect it from being damaged during operation.
- Encaged stem with yokes prepared for mounting of micro switches and inductive sensors
- Stem and gate connection is secured with self-locking nuts
- Supports integrated in the body casting protect the gate from deflecting under pressure
- Body of ductile iron with 100-150 µm UV resistant polyester coating, RAL 5017. Optionally of acid-resistant stainless steel or duplex
- Yokes of carbon steel with coating 100-150 µm of plascoat PPA 571 Aqua
- Gate, stem, bolts and nuts of acid-resistant stainless steel
- Washers under the bolts protect the coating
- Slim design and low weight
- Approved according to the 2014/68/UE Pressure Equipment Directive
- Approved according to the 2014/34/EU ATEX Directive
- Available in larger dimensions
- Optionally in higher PN class

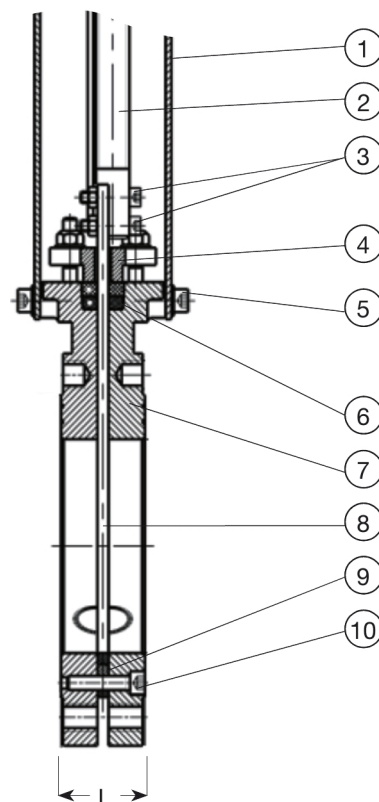
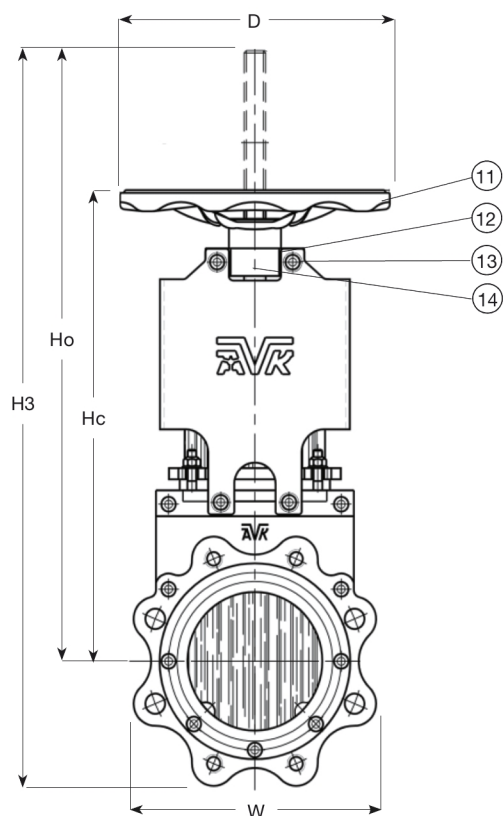


Expect... **AVR**

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Component list:

| | | | |
|----------------------|----------------------------------|------------------|---------------------|
| 1. Plate | Carbon steel | 8. Gate | Stainless steel 316 |
| 2. Stem | Stainless steel 316 | 9. U-shaped seal | Steel / NBR |
| 3. Bolt | Stainless steel A4 | 10. Bolt | Stainless steel A4 |
| 4. Top packing gland | Ductile iron GJS-400-15 (GGG-40) | 11. Handwheel | Steel |
| 5. Bolt | Stainless steel A4 | 12. Washer | Stainless steel A4 |
| 6. Packing | NBR + PTFE | 13. Bolt | Stainless steel A4 |
| 7. Body | Ductile iron GJS-400-15 (GGG-40) | 14. Bearing | Carbon steel |

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

Reference nos. and dimensions:

| AVK ref. no. | DN mm | Flange drilling | D mm | L mm | H3 mm | HC mm | HO mm | W mm | Test pressure bar | Working Pressure bar | Theoretical weight/kg |
|---------------------|----------|--------------------|---------|---------|----------|----------|----------|---------|----------------------|-------------------------|--------------------------|
| 702-0050-10-0000133 | 50 | PN10/16 | 175 | 43 | 424 | 292 | 359 | 131 | 15 | 10 | 6.5 |
| 702-0065-10-0000133 | 65 | PN10/16 | 175 | 46 | 471 | 317 | 399 | 143 | 15 | 10 | 8.3 |
| 702-0080-10-0000135 | 80 | PN10/16 | 225 | 46 | 536 | 361 | 444 | 184 | 15 | 10 | 12 |
| 702-0100-10-0000144 | 100 | PN10/16 | 225 | 52 | 600 | 396 | 499 | 202 | 15 | 10 | 14 |
| 702-0125-10-0000146 | 125 | PN10/16 | 225 | 56 | 675 | 432 | 560 | 230 | 15 | 10 | 19 |
| 702-0150-10-0000147 | 150 | PN10/16 | 300 | 56 | 809 | 523 | 674 | 270 | 15 | 10 | 28 |
| 702-0200-10-0000026 | 200 | PN10 | 300 | 60 | 989 | 623 | 824 | 331 | 15 | 10 | 44 |
| 702-0250-10-0000026 | 250 | PN10 | 300 | 68 | 1178 | 729 | 980 | 397 | 15 | 10 | 62 |
| 702-0300-10-0000023 | 300 | PN10 | 400 | 78 | 1386 | 858 | 1160 | 452 | 15 | 10 | 85 |
| 702-0350-10-0000026 | 350 | PN10 | 400 | 78 | 1562 | 951 | 1303 | 518 | 9 | 6 | 124 |
| 702-0400-10-0000016 | 400 | PN10 | 400 | 90 | 1749 | 1059 | 1461 | 576 | 9 | 6 | 159 |
| 702-0450-10-0000022 | 450 | PN10 | 500 | 90 | 1977 | 1206 | 1664 | 560 | 6 | 4 | 227 |
| 702-0500-10-0000015 | 500 | PN10 | 500 | 95 | 2165 | 1308 | 1816 | 698 | 6 | 4 | 278 |
| 702-0600-10-0000015 | 600 | PN10 | 500 | 105 | 2513 | 1497 | 2105 | 817 | 6 | 4 | 382 |

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