



**AVK MAGNUS™ PE100 BALL VALVES**  
**Fusible ends / Minimum full bore on all body sizes**  
**Valve sizes OD63 up to OD180**

**85/50**  
**006+008**  
**HDPE/BV+SE+PP**

The AVK Magnus universal ball valve is for use in the isolation of water & gas on domestic, commercial and industrial premises. The ends are designed for butt-/electro-fusion making the valve an integral part of the fully welded leak-free pipe system.

The valve is designed, manufactured and approved to worldwide leading standards.

**Features**

- Robust design, suitable for most harsh environments
- Material selection body and spigot (PE100-RC) offering excellent resistance to crack propagation
- Seat, ball and grease combination ensuring low operating torques and avoids sticking over time
- Selected ball material offering good scratch resistance
- Grease with minimal wearing off from the lubricated surfaces for improved long term performance
- With stem extension and purge points
- White bearing ring for easy identification universal valve
- Traccoding (barcode) + AVIT (QR code) - asset management to record, track and identify where valves are located and ensure traceability at all times
- Seat compression of large sealing surfaces precisely set via separate pre-assembly
- Flexible spindle shaft to ensure equal compression around the O-rings when loaded by internal pressure
- Fully automated socket welding of stem extension and purge pipes for optimal reliability
- Threaded metal bush in purge valve spigot for durable and secure connections
- BSP thread 1" suitable for universal flares
- Stainless steel lever for easy operation of purge valve
- Delivered with pressure retaining plug

**Tests/Approvals (main valve)**

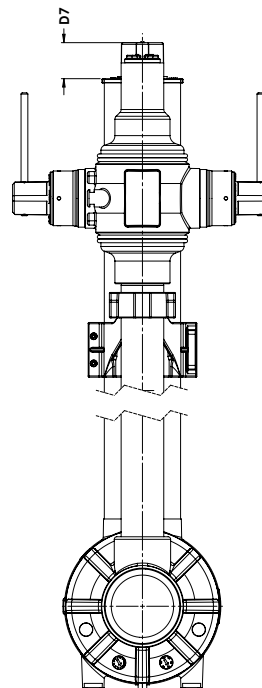
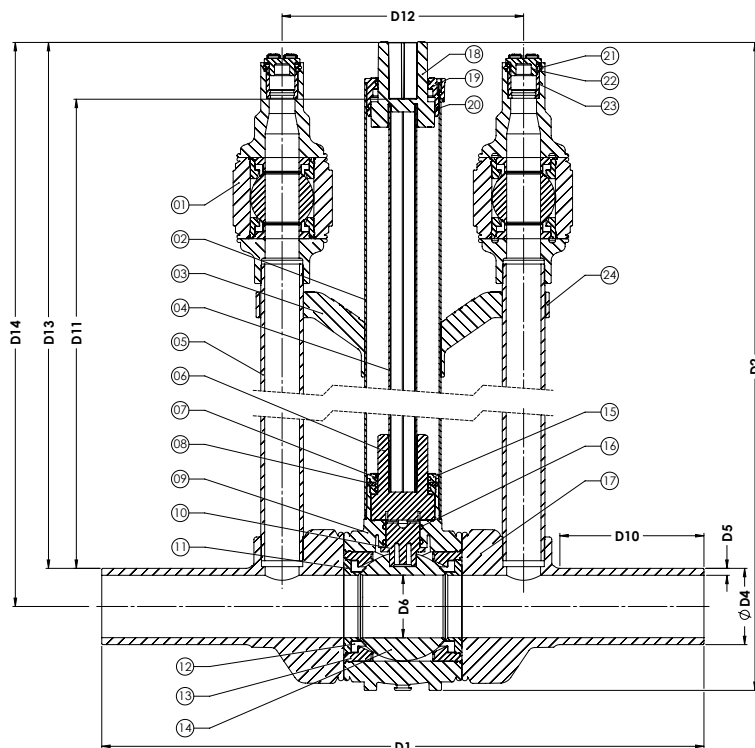
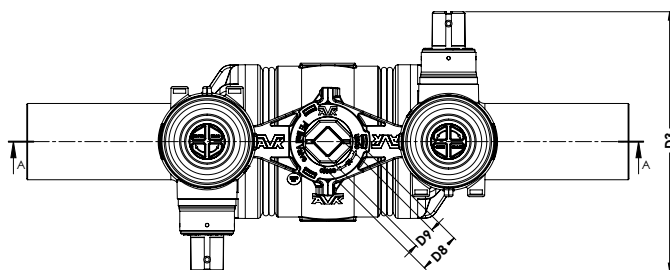
EN1555-4, ISO4437-4, GB15558.3 and EN12201-4



Expect... **AVK**

**AVK MAGNUS™ PE100 BALL VALVES**  
**Fusible ends / Minimum full bore on all body sizes**  
**Valve sizes OD63 up to OD180**

**85/50**  
**006+008**  
**HDPE/BV+SE+PP**



## Component list

|                    |                  |                              |          |
|--------------------|------------------|------------------------------|----------|
| 1. Purge valve     | PE100-RC         | 13. Seat retainer            | PE100-RC |
| 2. Extension pipe  | PE100            | 14. Ball                     | POM      |
| 3. Support bracket | PP               | 15. Bearing ring             | PA       |
| 4. Profile         | Galvanized steel | 16. O-ring                   | NBR-70   |
| 5. Purge pipe      | PE100            | 17. Spigot                   | PE100-RC |
| 6. Connector       | PA-GF            | 18. Connector SE             | PA-GF    |
| 7. O-ring          | NBR-70           | 19. Bearing ring SE          | PA       |
| 8. Locking pin     | PVC              | 20. O-ring                   | NBR-70   |
| 9. Body            | PE100-RC         | 21. O-ring for threaded bush | VITON    |
| 10. Stem           | POM              | 22. Plug for threaded nut    | POM      |
| 11. Support ring   | PE100-RC         | 23. Threaded bush            | AISI 304 |
| 12. Ball seat      | NBR-70           | 24. Support bracket clamp    | PP       |

## Reference nos. and dimensions

| AVK ref. nos. | Valve size<br>mm | D1<br>mm | D2<br>mm | D3<br>mm | D4<br>mm | D5<br>mm | D6<br>mm | D7<br>mm | D8<br>mm    | D9<br>mm    | D10<br>mm | D11<br>mm | D12<br>mm | D13<br>mm | D14<br>mm | Theoretical<br>weight (Kg.) |
|---------------|------------------|----------|----------|----------|----------|----------|----------|----------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------------------------|
| 85-063-50XXX  | OD63/DN50        | 715      | 810      | 305      | 63       | 5.8      | 50       | 40       | 49.6 x 49.6 | 25.5 x 25.5 | 170       | 635       | 285       | 700       | 730       | 8.7                         |
| 85-090-50XXX  | OD90/DN80        | 710      | 855      | 305      | 90       | 8.2      | 74       | 40       | 49.6 x 49.6 | 25.5 x 25.5 | 170       | 645       | 285       | 710       | 755       | 12.0                        |
| 85-110-50XXX  | OD110/DN100      | 715      | 875      | 305      | 110      | 10.0     | 86       | 40       | 49.6 x 49.6 | 25.5 x 25.5 | 170       | 645       | 285       | 710       | 765       | 13.8                        |
| 85-125-50XXX  | OD125/DN100      | 715      | 875      | 305      | 125      | 11.4     | 86       | 40       | 49.6 x 49.6 | 25.5 x 25.5 | 170       | 635       | 285       | 700       | 765       | 14.6                        |
| 85-160-50XXX  | OD160/DN150      | 795      | 1045     | 305      | 160      | 14.6     | 120      | 40       | 49.6 x 49.6 | 25.5 x 25.5 | 170       | 750       | 355       | 815       | 895       | 26.3                        |
| 85-180-50XXX  | OD180/DN150      | 795      | 1045     | 305      | 180      | 16.4     | 120      | 40       | 49.6 x 49.6 | 25.5 x 25.5 | 170       | 740       | 355       | 805       | 895       | 27.1                        |