



## AVK COMBINATION AIR VALVE, PN16

701/60-010

For water, ductile iron/ductile iron

AVK combination air valves are combined automatic and air vacuum valves. The automatic air release function releases accumulated air from the system while it is under pressure. The air and vacuum function discharges and admits large volumes of air during the filling or draining of pipelines. The valve will open to relieve negative pressures whenever water column separation occurs.

### Product description:

Combination air valve for water and neutral liquids to max. 60°C (temporarily up to 90°C)

### Design standards:

- EN 1074-4
- Flange drilling to EN1092, PN16

### Test/Approvals:

- Hydraulic test according to EN 1074-1, 2 and 4 / EN 12266
- Belgaqua approved material
- Approved according to DIN-DVGW Certificate NW-6215BS5030

### Features:

- Orifice sizes: Air and vacuum DN 50: 794 mm<sup>2</sup> – automatic 12 mm<sup>2</sup>. Air and vacuum DN 80: 1809 mm<sup>2</sup> – automatic 12 mm<sup>2</sup>. Air and vacuum DN 150: 7850 mm<sup>2</sup> – automatic 12 mm<sup>2</sup>.
- The enlarged orifice is less exposed to obstruction by debris
- The large orifice in the automatic valve releases large volumes of air at high flow rates when the line is under pressure
- The automatic valve's rolling seal mechanism design is less sensitive to different pressures than a direct float seal, thus enabling a one size orifice for a wide pressure range
- Reliable operation reduces water hammer incidents
- Dynamic design allows for high velocity air discharge while preventing premature closure
- Special orifice seat design with a combination of bronze and EPDM rubber ensures long-term maintenance-free operation
- The discharge outlet enables removal of excess fluids
- Air and vacuum air valve with body and cover of ductile iron with blue fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901
- Automatic valve of high-strength composite material with protective shell of cast iron
- With connection flange or BSP thread
- Working pressure range: 0.2 – 16 bar

### Accessories:

Gate valve, butterfly valve, combi-flange, flange adaptor



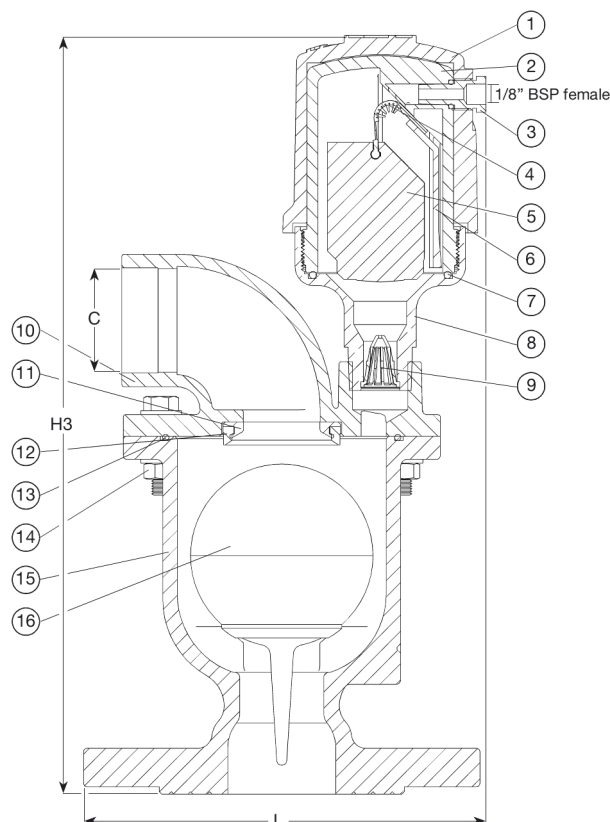
Expect... **AVK**

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

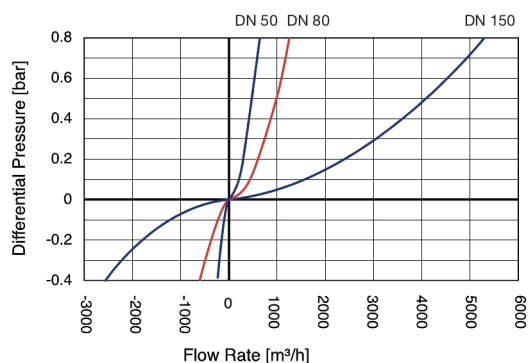
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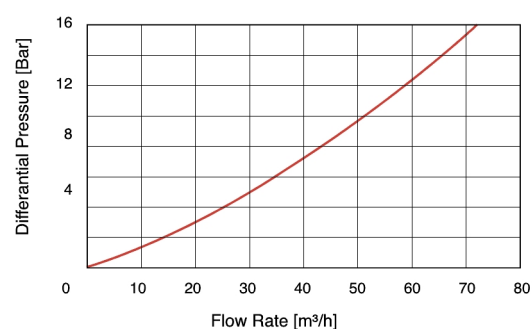
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## AIR & VACUUM FLOW RATE



## AUTOMATIC AIR RELEASE FLOW RATE



## Component list:

1. Shell	Ductile Iron	9. Strainer mesh	Polyamide
2. Body	PA, reinforced	10. Cover	Ductile Iron
3. Discharge outlet	Brass	11. Orifice seat	Bronze
4. Rolling seal	EPDM rubber	12. Orifice seal	EPDM rubber
5. Float	Foamed PP	13. O-ring	NBR rubber
6. Clamping key	PA, reinforced	14. Bolt/nut/washer	Steel, zinc plated
7. O-ring	NBR rubber	15. Body	Ductile Iron
8. Base	Brass	16. Float	Polycarbonate

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

## Reference nos. and dimensions:

AVK ref. no.	DN mm	Connection	Product PN Class	L mm	H3 mm	C mm	Theoretical weight/kg
701-050-60-11003	50	50 MM	PN16	168	315	1/2" BSP	7.8
701-051-60-91003	50	2" BSP	PN16	168	302	1/2" BSP	5.7
701-080-60-11003	80	80 MM	PN16	205	339	2" BSP	14
701-081-60-91003	80	3" BSP	PN16	205	339	2" BSP	12
701-150-60-11003	150	150 MM	PN16	399	439	90 MM	45