



## AVK HIGH FLOW COMBINATION AIR VALVE, PN16

701/46-010

Flanged, body of ductile iron



AVK combination air valves are combined air release and air and vacuum valves. The 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. The body and all operating parts are made of specially selected corrosion-resistant materials.



### Product description:

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

### Standards:

- Designed according to EN 1074-4

### Test/Approvals:

- Working pressure range: 0.1 - 16 bar
- Testing pressure: 1.5 times the maximum working pressure of the air valve.

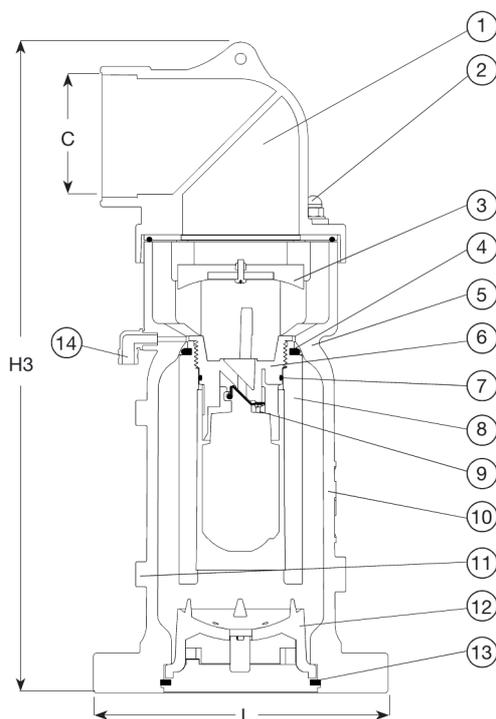


### Features:

- Available with 50, 80, 100 or 150 mm flange
- Optional with non-slam element which reduces water hammer incidents
- Dynamic design allows for high capacity air discharge while preventing premature closure
- The discharge outlet enables the connection of a vent hose/pipe
- Large size of the automatic air release orifice relative to the air valve body:
  - Discharges air at high flow rates
  - Enables the usage of the rolling seal, making it less sensitive to pressure differential than a direct float seal
- Body is made of ductile iron and all operating parts are made of specially selected, corrosion resistant materials
- Due to its light weight, the valve may be installed on plastic piping systems, as well as other lightweight piping systems
- Minimum down-time for maintenance – all operating parts are consolidated into one replaceable cartridge
- When impure water accumulates above the sealing, it can be drained in order to avoid entering the system during vacuum conditions



Expect ... **AVR**

**AVK HIGH FLOW COMBINATION AIR VALVE, PN16****701/46-010****Flanged, body of ductile iron****Component list:**

1. Discharge outlet	Polyethylene	8. Air and vacuum float	PP
2. Thread rod	Stainless steel 304	9. Automatic float	PP
3. Discharge outlet seal	NBR rubber	10. Body	Ductile iron
4. Air and vacuum seal	EPDM rubber	11. Pressure release plug	Stainless steel 316
5. Float cover	POM	12. Float lock	POM
6. O-ring	EPDM rubber	13. Snap ring	POM
7. Rolling seal	EPDM rubber	14. Drain outlet	PP

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

**Reference nos. and dimensions:**

AVK ref. no.	DN mm	Product PN Class	H3 mm	L mm	C mm	Theoretical weight/kg
701-050-46-110034	50	PN16	336	165	2" BSP	7.3
701-050-46-111534 <sup>(1)</sup>	50	PN16	336	165	2" BSP	7.3
701-080-46-110034	80	PN16	467	200	3" BSP	13
701-080-46-111534 <sup>(1)</sup>	80	PN16	467	200	3" BSP	13
701-100-46-110034	100	PN16	537	220	4" BSP	18
701-100-46-111534 <sup>(1)</sup>	100	PN16	537	220	4" BSP	18
701-150-46-110534	150	PN16	757	362	6" GROOVED	44
701-150-46-111534 <sup>(1)</sup>	150	PN16	757	362	6" GROOVED	44

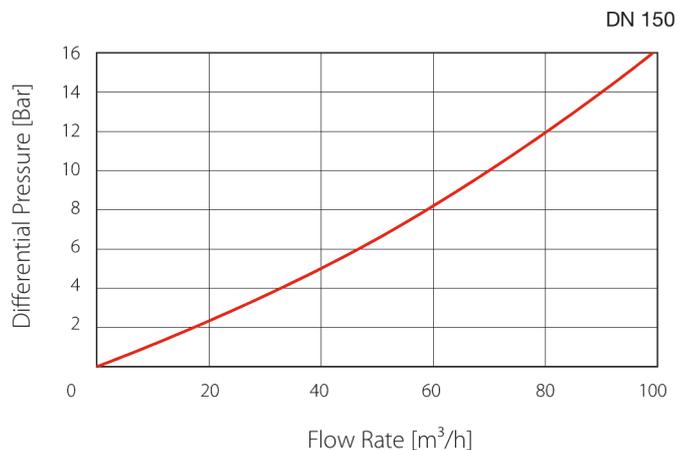
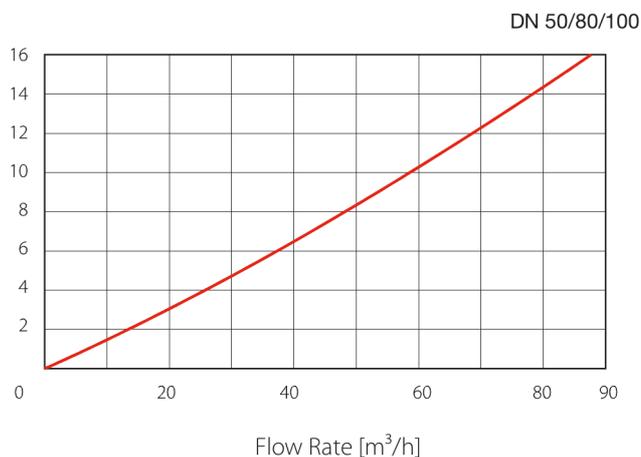
(1) With non-slam element

**Comments:**

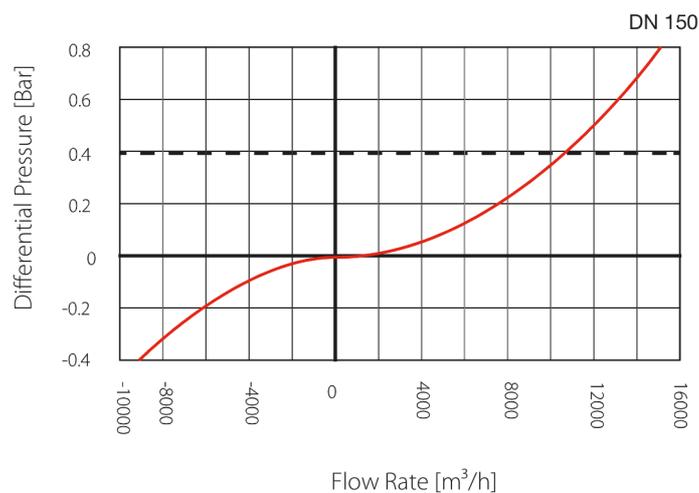
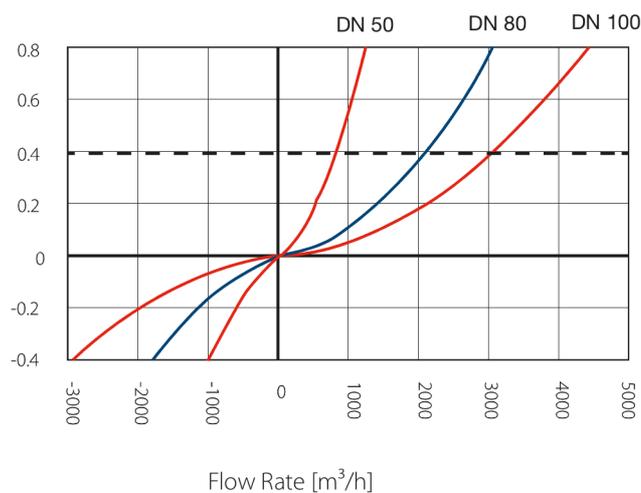
The addition of an adjustable non-slam disc converts the 701/46 into a non-slam air valve.

The non-slam addition can be easily assembled in the field on an existing 701/46 or bought already assembled (701/46 NS)

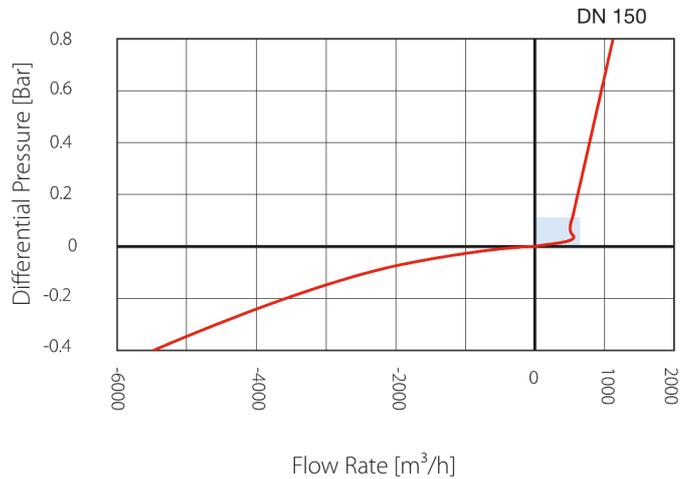
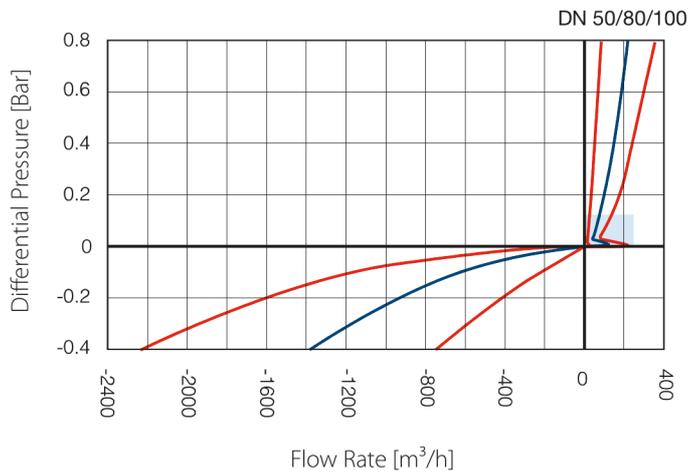
**AUTOMATIC AIR RELEASE FLOW RATE**



**AIR & VACUUM FLOW RATE**



**AIR & VACUUM FLOW RATE, NON-SLAM**



**AIR DISCHARGE SWITCHING REGION, NON-SLAM**

