AVK LARGE COMBINATION AIR VALVE, PN 16 — 701/78

For wastewater, steel — **010**

AVK combination air valves are designed to combine large volume of air discharge/intake whilst filling/draining a pipeline with automatic discharge of air from the fluid. They feature an innovative design with a large air gap between liquid and sealing system. A spring between stem and float compensates for slight pressure changes and maintains the air gap ensuring reliable function even when used with aggressive liquids and liquids carrying solid particles.

Product Description:
Large combination air valve for wastewater treatment to max. 60°C (temporarily up to 90°C)

Test/Approvals:
- Hydraulic test according to EN 1074-1 and 4 / EN 12266.
- Approved for wastewater

Features:
- Orifice sizes: Automatic 16 mm², kinetic 5024 mm².
- The large air gap between liquid and sealing system ensures a reliable function even when used with aggressive liquids and liquids carrying solid particles.
- The small orifice in the automatic valve releases small volumes of air when the line is under pressure. The spring between the stem and upper float compensates for slight pressure changes.
- Unique design of the float assembly prevents contact between the wastewater and the sealing mechanism, prevents clogging by floating solids and ensures drip-tight sealing.
- The disc is placed at the top of the valve, keeping the levers and pins away from the corrosive atmosphere in the air valve body.
- The stainless steel float system ensures high corrosion resistance.
- The conical body with funnel-shaped lower body allows maximum air volume within minimum valve length and prevents accumulation of deposits at the bottom.
- The spray guard minimizes liquid spray discharge from the air valve outlet, mainly during rapid pipeline filling conditions.
- The epoxy coated steel body features low weight.
- Drainage and flushing is possible through the drain in the valve's side.
- An exhaust tube can be mounted in the threaded opening on the top of the valve.
- The outlet enables removal of excessive fluids.
- With connection flange.
- Working pressure range: 0.2 – 16 bar.

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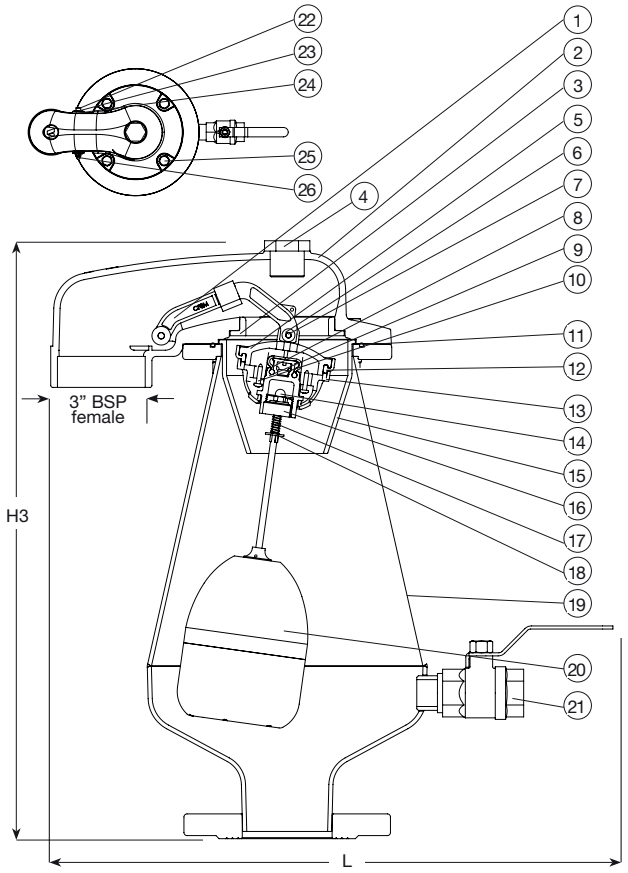
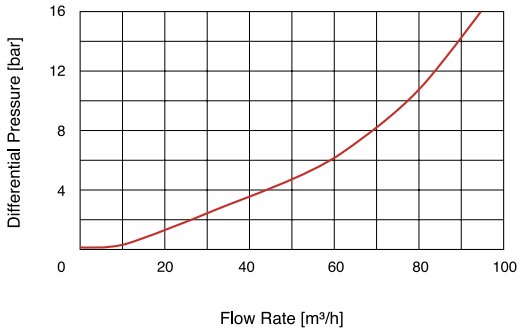
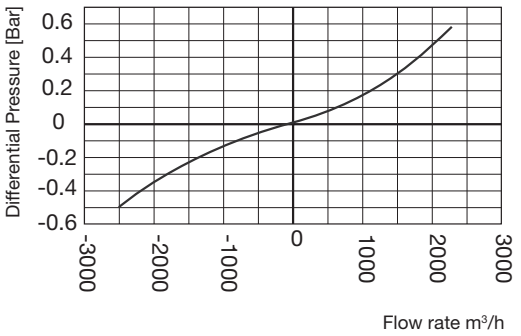


AUTOMATIC AIR RELEASE FLOW RATE



Air and vacuum flow rate



Component List:

1. Disc arm assembly	Cast stainless steel / EPDM	2. Cover	Ductile iron / cast stainless steel
3. Orifice seat	Acid-resistant stainless steel AISI 316	4. Plug	Polypropylene
5. Air and vacuum disc	Reinforced nylon / cast stainless steel	6. Washer	Stainless steel 304
7. Rivet	Stainless steel 304	8. Air release seal	EPDM
9. Air release disc	Reinforced nylon	10. Bolt	Stainless steel 304
11. O-ring	NBR rubber	12. Air and vacuum seal	EPDM rubber
13. Air and vacuum seal lock	Reinforced nylon	14. Domed nut / washer	Stainless steel 304
15. Spray guard	Polypropylene	16. Stopper	Polypropylene
17. Spring	Acid-resistant stainless steel AISI 316	18. Washer	Stainless steel 304
19. Body	Steel st. 37	20. Float assembly	Acid-resistant stainless steel AISI 316 / polypropylene
21. Ball valve	Brass, chrome casted and acid-resistant stainless steel AISI 316	22. Bolt	Acid-resistant stainless steel AISI 316
23. Washer	Acid-resistant stainless steel AISI 316	24. Bushing	Acetal
25. Bolt, nut and washer	Acid-resistant stainless steel AISI 316	26. Domed nut	Acid-resistant stainless steel AISI 316

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

Reference Nos. and Dimensions:

AVK ref. nos	DN mm	Flange drilling	L mm	H3 mm	Theoretic. weight kg
701-080-78-11003	80	PN10/16	554	580	25
701-100-78-11003	100	PN10/16	554	580	27
701-150-78-11003	150	PN10/16	554	580	28
701-200-78-01003	200	PN10	554	580	30
701-200-78-11003	200	PN16	554	580	30

AVK ref. nos	DN mm	Flange drilling	L mm	H3 mm	Theoretic. weight kg