

Automatic Air Valve

Model A31

BERMAD A31 is a high quality automatic air release valve that allows efficient release of air pockets from pressurized pipes.

With its advanced design, this valve provides excellent protection against air accumulation with improved sealing in low pressure conditions.



Typical Applications

- Pipelines – Protection against air accumulation in horizontal or low slope lines and road/river crossings.
- In proximity to control valves and water meters – Prevention of biased readings and inaccurate pressure regulation due to air flow through these devices.
- Industrial and residential networks – Protection against air accumulation.

Features Benefits

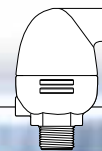
- Efficient release of air pockets from pressurized pipe lines.
- Dynamic sealing – prevents leakage under low pressure conditions (0.02 bar).
- Compact, simple and reliable structure with fully corrosion-resistant parts; lower maintenance and increased life span.
- Designed in compliance with EN-1074/4 standard and water service standards.
- Factory approval and Quality Control – Performance and specification tested and measured with specialized test bench.

Principles of Operation

During pressurized operation of a pipeline, air accumulates in the upper part of the air valve chamber, causing the float to gravitate downwards.

This in turn causes the automatic orifice to open, releasing the accumulated air.

Once the air is discharged, the water level and float rise, causing the automatic orifice to close.



Valve Selection

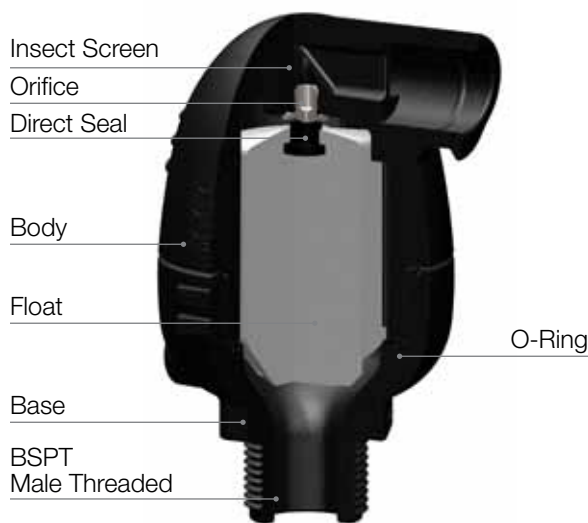
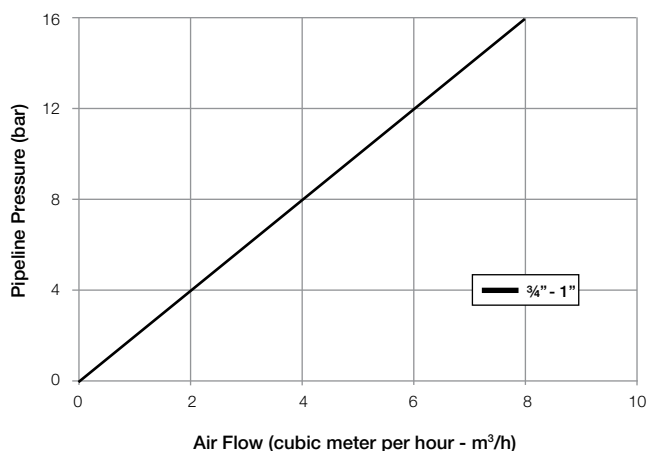
- Body material: Glass-reinforced Nylon
- Inlet sizes: DN20, DN25 (¾", 1")
- Connections: Threaded Male BSPT
- Outlet: Sideways

Operational Data

- Pressure rating: ISO PN16
- Operating pressure range: 0.02 - 16 bar
- Operating temperature: Water up to 60°C

Air Flow Performance Charts

Air Release (Pressurized Operation)



Orifice Specifications

Size		Automatic
DN	Inch	Ad [mm²]
20	¾"	0.8
25	1"	0.8

Dimensions & Weights

Size			Side Outlet		
DN	Inch	Connection	D (mm)	H (mm)	Weight (Kg)
20	¾"	Threaded	95	136	0.35
25	1"	Threaded	95	136	0.35

Parts List and Materials

	Description	Material
1	Base	Glass Reinforced Nylon (for Drinking Water)
2	Body	Glass Reinforced Nylon (for Drinking Water)
3	Float	Polypropylene (for Drinking Water)
4	Peel Seal	EPDM (for Drinking Water)
5	O-Ring	EPDM (for Drinking Water)

