

Automatic Air Valve

Model A30

BERMAD A30 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

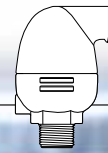
- Pipelines – Protection against air accumulation in horizontal or low slope lines and road/river crossings.
- In proximity to control valves and water meters – Prevention of biased readings and inaccurate pressure regulation due to air flow through these devices.
- Industrial and residential networks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

Features & Benefits

- Straight flow body with large diameter automatic orifice – High flow rates.
- Dynamic sealing – prevents leakage under low pressure conditions (0.1 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

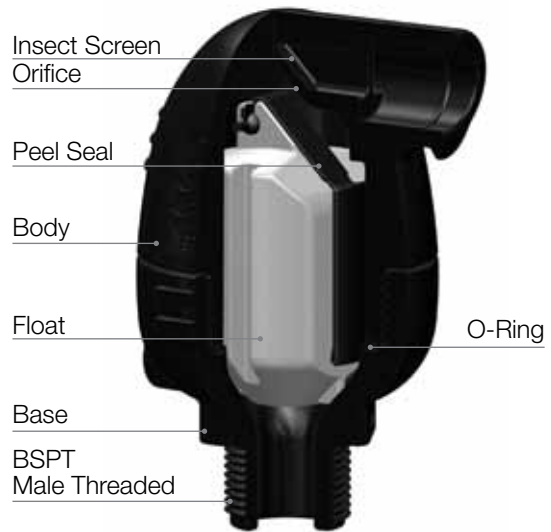
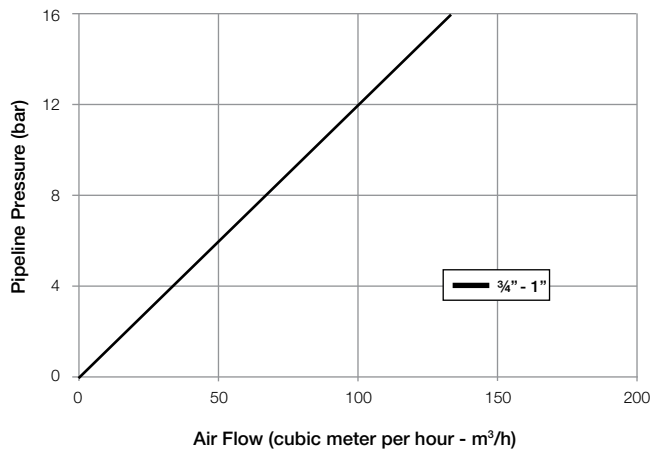
- Body material: Glass-reinforced Nylon
- Inlet sizes: DN20, DN25 (¾", 1")
- Connections: Threaded Male BSPT
- Outlet: Sideways

Operational Data

- Pressure rating: ISO PN16
- Operating pressure range: 0.1 - 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" | 9.6 |
| 25 | 1" | 9.6 |

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) |

