

## 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 aerodynamic design, this valve provides excellent protection against air accumulation, while reducing undesirable leakage.



### 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 in.

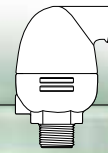
### Features & Benefits

- Straight flow body with large diameter automatic orifice – Higher than usual flow rates.
- Dynamic sealing - reduces leakage during operation even 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.

# BERMAD Irrigation



Model A30

Air Valves Series

## Valve Selection

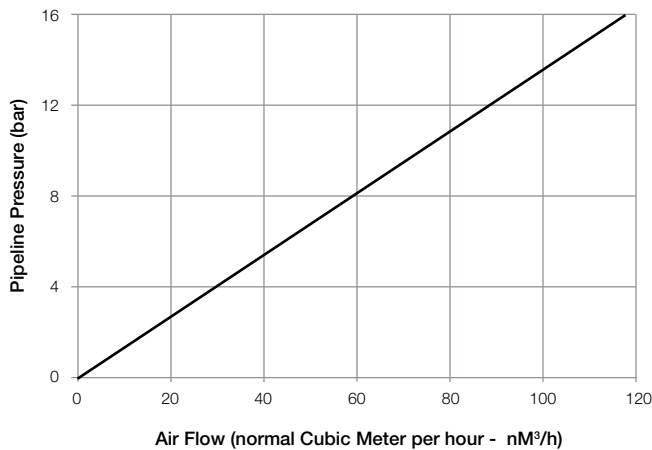
- **Body material** – Glass-reinforced plastic
- **Inlet sizes** - DN20, DN25 (¾", 1")
- **Connections** - Threaded Male BSPT
- **Outlet** – Sideways

## 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)



## Orifices Specification

Size		Automatic
DN	Inch	Ad[mm²]
20	¾"	12.8
25	1"	12.8

## Dimensions & Weights

Size			Side Outlet		
DN	Inch	Connection	D (mm)	H (mm)	Weight (Kg)
20	¾"	Threaded	95	138	0.36
25	1"	Threaded	95	138	0.36

## Parts List and Materials

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



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