



# VACUUM BREAKER AIR VALVE

## Model ARV

BERMAD ARV is a vacuum breaker air valve for irrigation, designed to enable air intake and prevent the formation of negative pressure caused by line drainage. The ARV remains closed at positive pressure conditions.

### Features & Benefits

- Compact, simple and reliable structure whose parts are fully corrosion, chemical and fertilizer resistant: Low maintenance and increased life span.
- Factory approval and Quality Control: Performance and specification tested and measured with specialized test bench, including vacuum pressure conditions.

### Inlet and Outlet Connections

- Inlet: male threaded 1/2"; DN12



### Typical Applications

- Protects pipe lines from collapsing under vacuum conditions.
- Prevents drip lines from infiltration of toxic substances into the drip system and clogging of drippers due to dirt suction due to vacuum conditions caused by line drainage.
- Air intake for Fertilizer Tanks that seals at positive pressure to prevent fertilizer spill.
- Add-On Air intake feature to valve downstream for Gravity line & downhill irrigation systems.

### Materials

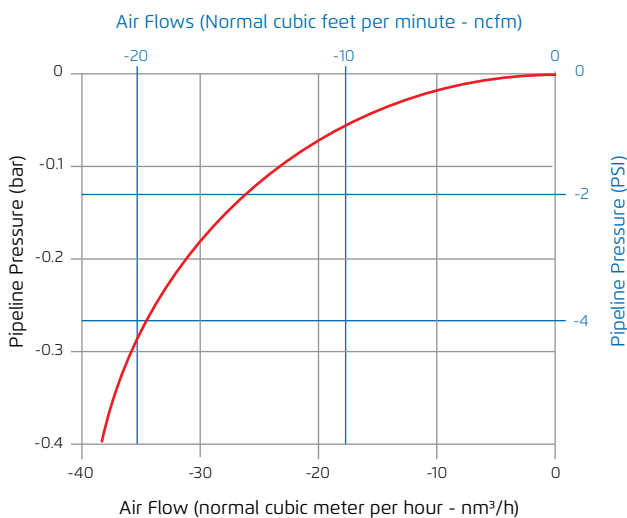
- Body: Glass-reinforced Nylon
- Elastomers: Buna-N

### Operational Data

- Pressure Rating: 150 psi; ISO PN10
- Minimum operating pressure: 1.5 psi; 0.1 bar
- Maximum operating pressure: 150 psi; 10 bar
- Media and operating temperature: Water, 33-120°F; 1-50°C

### Air Flow Performance Chart

Air Intake (Vacuum Conditions)



### Orifice Specifications

Inlet Sizes	Kinetic Orifice	
	Diameter *	Area
Inch	inch	Sq inch
mm	mm	Sq mm
1/2"	0.470	0.12
DN12	9.8	75

### Dimensions & Weights

Inlet Size	Connection	Width (D)	Height * (H)	Weight
inch	---	inch	inch	lbs
mm		mm	mm	Kg
1/2"	Threaded	0.866	0.787	0.11
DN12		22	20	0.05

\* When installed



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