



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

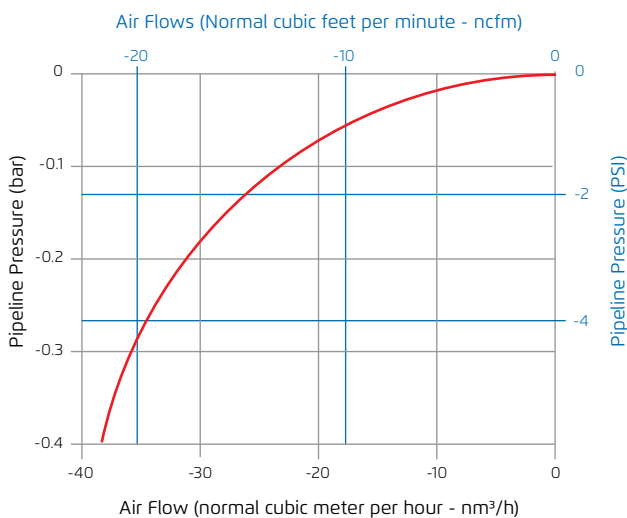
- Body: Glass-reinforced Nylon
- Elastomers: Buna-N

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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