KINETIC AIR VALVE

Model K10

BERMAD K10 is a high quality kinetic air valve for a variety of irrigation networks and operating conditions. It evacuates air during pipeline filling and enables large volume air intake in the event of network draining.

With its advanced aerodynamic design, this valve provides excellent protection against vacuum formation, with improved sealing under low pressure conditions.

Features & Benefits

- Straight flow body with large diameter orifice: High flow rates.
- Aerodynamic full-body kinetic shield: Prevents premature closing without disturbing air intake or discharge.
- Dynamic sealing: Prevents leakage during operation even under low pressure conditions (1.5 psi; 0.1 bar).
- The boss on the base can be tapped with a thread for pressure gauge connection, check point or test drain for air valve function.
- Compact, simple and reliable structure whose parts are fully corrosion, chemical and fertilizer resistant: Lower maintenance and increased life span.
- Factory approval and Quality Control: Performance and specification tested and measured with specialized test bench, including vacuum pressure conditions.

Additional Features & Accessories

- Test point (code T)

Inlet and Outlet Connections

- Inlets: male threaded ¾-2"; DN20-50
- Outlets: Sideways

Orifice Specifications

Inlet Sizes	Kinetic Orifice	
	Diameter	Area
Inch	inch	Sq inch
mm	mm	Sq mm
¾-1"	0.787	0.496
DN20-25	20	320
2"	1.220	1.17
DN50	31	755

Typical Applications

- Main Irrigation Networks: Air relief and vacuum prevention downstream of pumps, along supply lines and at elevations in main irrigation networks.
- Irrigation Control Heads: Air relief and vacuum prevention at filtration and fertilization stations.
- Infield Systems: Prevention of vacuum formation.
- Landscape Irrigation: Prevention of vacuum formation.

Materials

- Body: Glass-reinforced Nylon
- Float Assembly: Polypropylene
- Elastomers: EPDM

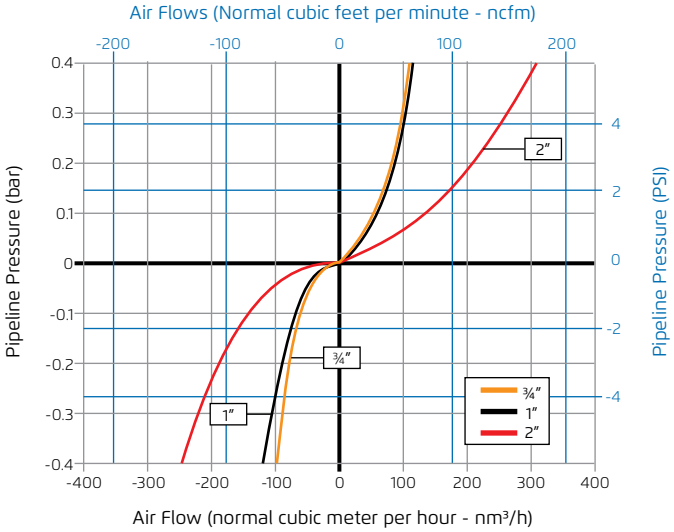
Operational Data

- 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, 33-140°F; 1-60°C

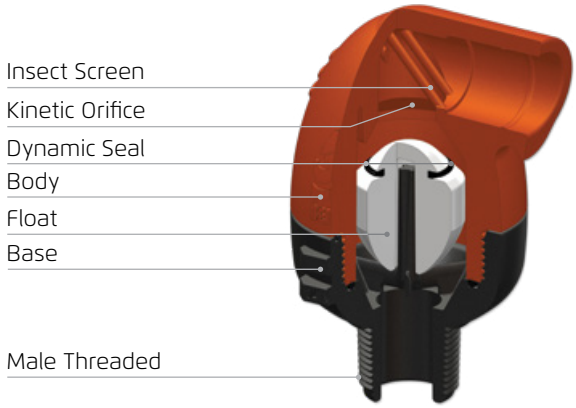
All images in this catalog are for illustration only

Air Flow Performance Chart

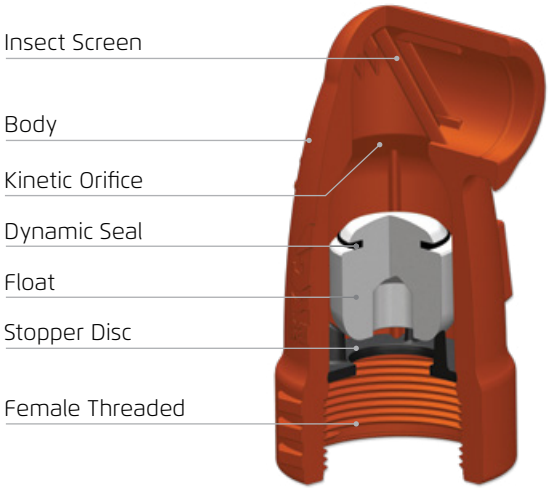
Air Relief and Intake (Pipeline Filling, Draining and Vacuum Conditions)



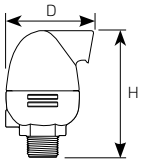
Cutaway K10 ¾ - 1"; DN20-25



Cutaway K10 2"; DN50



Dimensions & Weights



Inlet Size	Connection	Width (D)	Height (H)	Weight
inch	---	inch	inch	lbs
mm		mm	mm	Kg
¾-1"	Threaded	2.992	4.291	0.37
DN20-25		76	109	0.17
2"	Threaded	3.661	5.118	0.62
DN50		93	130	0.28

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