

KINETIC AIR VALVE

Glass Reinforced Nylon, PN10 / 150 PSI

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 enable 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: Higher than usual flow rates.
- Dynamic Sealing: Prevents leakage under low pressure conditions (1.5 psi; 0.1 bar).
- Compact and simple structure, whose internal 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.

Typical Applications

- Irrigation control heads: Air relief and vacuum prevention at filtration and fertilization stations and downstream control valves.
- Infield Systems: Prevention of vacuum formation.
- Landscape Irrigation: Prevention of vacuum formation.
- Prevents drip lines from infiltration of toxic substances into the drip system and clogging of drippers from dirt suction due to vacuum conditions caused by line drainage.

Additional Features & Accessories

- The boss on the base can be tapped with a thread (code P) for pressure gauge connection, check point or test drain for air valve function.
- Test point (code T).

Inlet and Outlet Connections

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

Operational Data

- Pressure Rating: 150 psi
- Minimum operating pressure: 1.5 psi
- Maximum operating pressure: 150 psi
- Media and operating temperature: Water, 33-140°F

Materials

- Body: Glass-Reinforced Nylon
- Float: Polypropylene
- Elastomers: EPDM



Combination Air Valve, Ductile Iron



Combination Air Valve, Ductile Iron

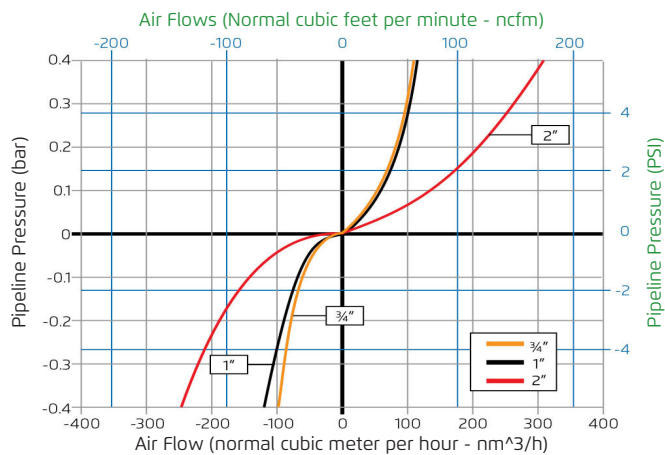


Orifice Specifications

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

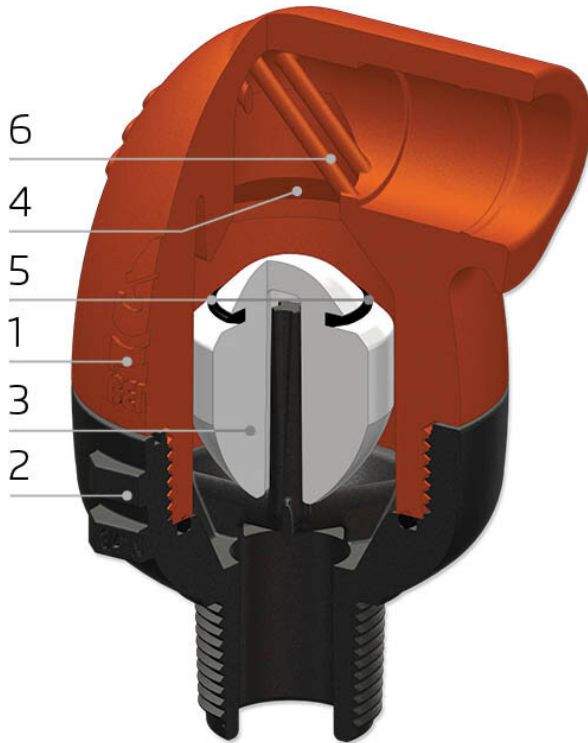
Air Flow Performance Charts

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



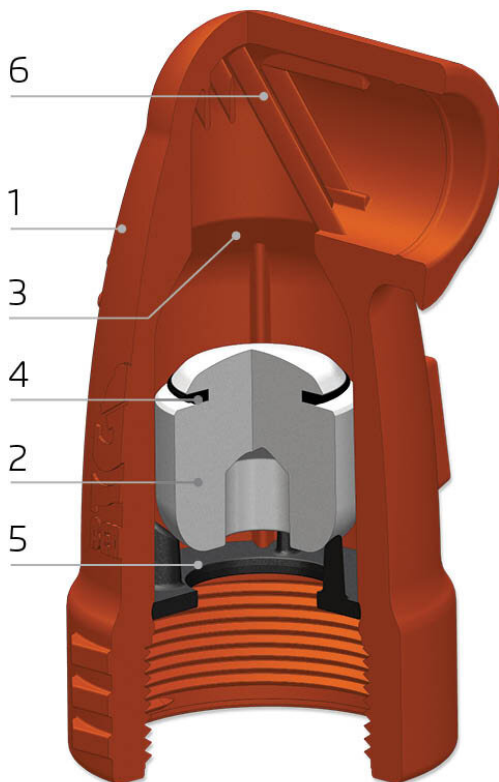


Cutaway K10 ¾"-1"; DN20-25



- [1] Body
- [2] Base
- [3] Float
- [4] Kinetic Orifice
- [5] Kinetic Orifice Seal
- [6] Insect Screen

Cutaway K10 2"; DN50



- [1] Body
- [2] Float
- [3] Kinetic Orifice
- [4] Kinetic Orifice Seal
- [5] Stopper Disc
- [6] Insect Screen



Dimensions & Weights

		K10 ¾"-1"; DN20-25			K10 2"; DN50		
Inlet Sizes	Connection	Width (D)	Height (H)	Weight	Width (D)	Height (H)	Weight
in; mm		in	in	lbs	in	in	lbs
¾"-1"; DN20-25	Threaded	2.992	4.291	0.37	---	---	---
2"; DN50	Threaded	---	---	---	3.661	5.118	0.62