



COMBINATION AIR VALVE

Glass Reinforced Nylon, PN10 / 150 PSI

Model C15

BERMAD C15 is a high quality combination air valve for a variety of water networks and operating conditions. It relieves air during pipeline filling, allows efficient release of air pockets from pressurized pipes, and enables large volume air intake in the event of network draining.

With its advanced aerodynamic design and double orifice, this valve provides excellent protection against air accumulation and vacuum formation, with improved sealing in 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 networks: Protection against air accumulation and vacuum formation at elevations, slope change points and river crossings.
- Irrigation and landscape control heads: Protection against air accumulation and vacuum formation at filtration and fertilization stations and downstream of main control valves.

Additional Features & Accessories

- Service port (code P) fitted with ¼"; DN6 plug for pressure gauge connection, check point or test drain for air valve function.
- Test point (code T).

Inlet and Outlet Connections

- Inlets: Male threaded 2"; DN50
- Outlets: Sideways, female threaded 1.5"; DN40

Operational Data

- Pressure Rating: 150 or 175 psi
- Minimum operating pressure: 1.5 psi
- Maximum operating pressure: 150 or 175 psi
- Media and operating temperature: Water, 33-140°F

Materials

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



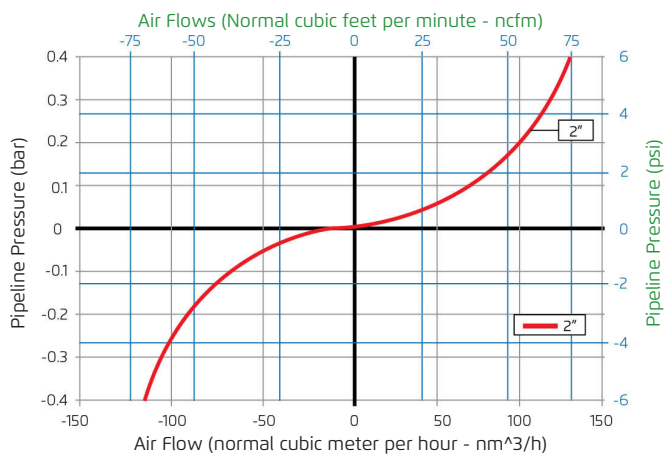


Orifice Specifications

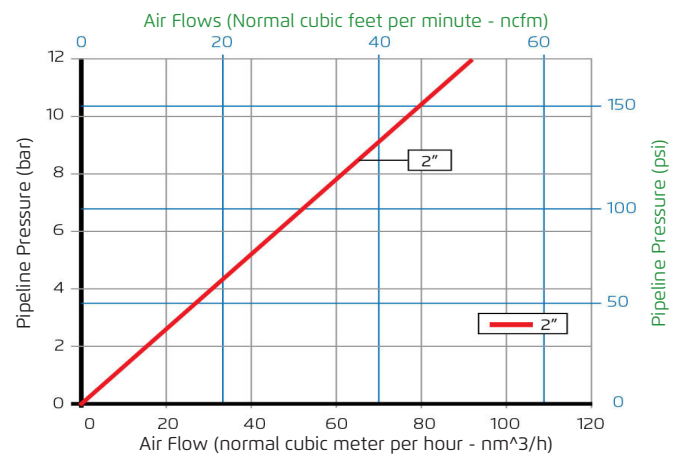
Inlet Sizes	Automatic Orifice	Kinetic Orifice	
	Area	Diameter	Area
Inch; mm	Sq inch	inch	Sq inch
2"; DN50	0.008	0.795	0.497

Air Flow Performance Charts

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



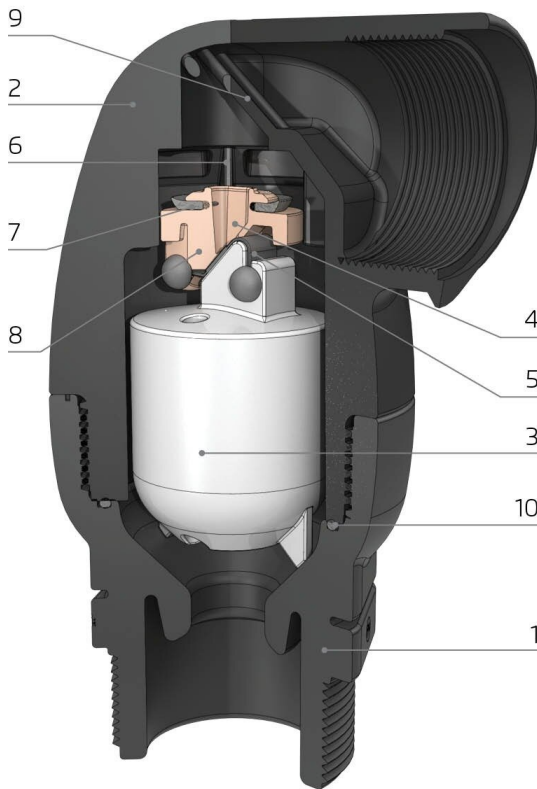
Air Release (Pressurized Operation)



- For higher automatic air release capacity, Please consult with BERMAD.
- Air relief and intake charts are based on actual measurements, measured in Bermad Air Flow test bench, according to EN-1074/4 and AS4883 standard and refer to side outlet. Use Bermad Air software for optimized Sizing & Positioning of Air Valves.

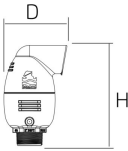


Cutaway



- [1]** Base
- [2]** Body
- [3]** Float
- [4]** Auto Orifice
- [5]** Auto Orifice Seal
- [6]** Kinetic Orifice
- [7]** Kinetic Orifice Seal
- [8]** Kinetic Plug
- [9]** Insect Screen
- [10]** O-Ring

Dimensions & Weights

				
		C15		
Inlet Sizes	Connection	Width (D)	Height (H)	Weight
in; mm		in	in	lbs
2"; DN50	Threaded	4.123	6.850	1.322