

COMBINATION AIR VALVE

Glass Reinforced Nylon, PN16 / 230 PSI

Model C35

BERMAD C35 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, 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 with fully corrosion resistant internal parts: Lower maintenance and increased life span.
- Certified to drinking water standards: NSF/ANSI/CAN 61 and NSF/ANSI 372 (USA).
- Factory approval and Quality Control: Performance and specification tested and measured with specialized test bench, including vacuum pressure conditions.

Typical Applications

- Water networks: Protection against air accumulation and vacuum formation at elevations, slope change points and road or river crossings.

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: 230 psi
- Minimum operating pressure: 1.5 psi
- Maximum operating pressure: 230 psi
- Media and operating temperature: Water, 33-140°F

Materials

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



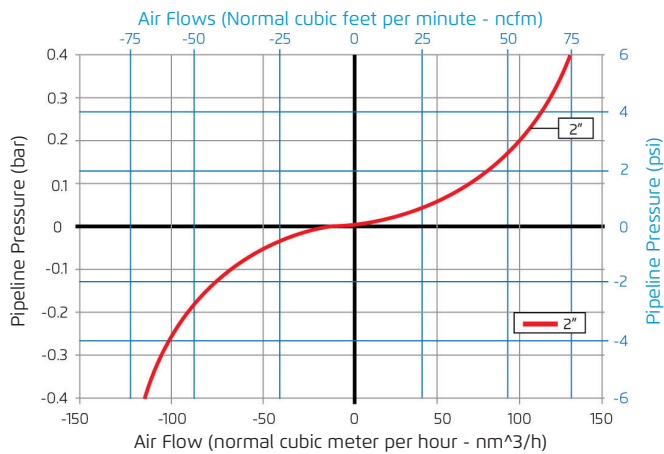


Orifice Specifications

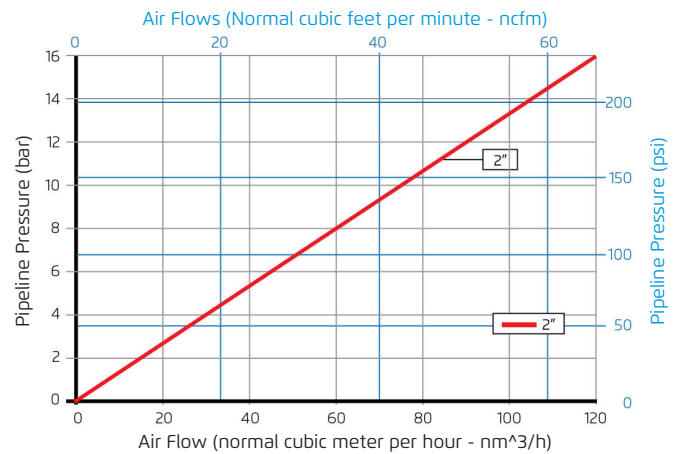
Inlet Sizes	Automatic Orifice	Kinetic Orifice	
	Area	Diameter	Area
Inch; mm	Sq inch	inch	Sq inch
2"; DN50	0.008	0.795	0.497

Air Flow Performance Charts

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



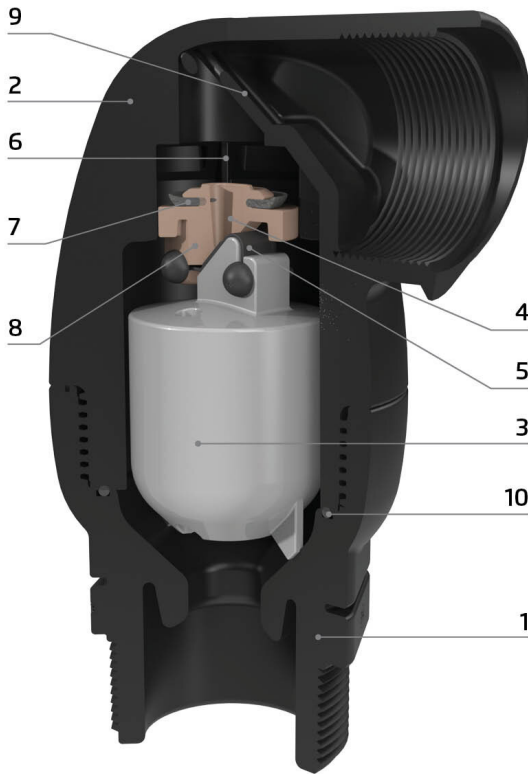
Air Release (Pressurized Operation)



- 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.

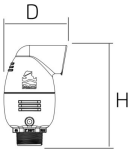


Cutaway



- [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

		 C35		
Inlet Sizes	Connection	Width (D)	Height (H)	Weight
in; mm		in	in	lbs
2"; DN50	Threaded	4.123	6.850	1.322