



# PRODUCT SPECIFICATION

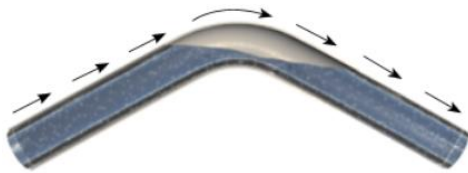


## **Dorot Plastic Air Valves – used on cold water irrigation pipe networks**

Trapped air in a pressurized pipeline can have serious effects on system operation and efficiency.

As air pockets accumulate at high points, this reduces the effective cross section of the pipeline in their location, decreasing the water flow and increasing energy consumption required to pump the water through, reducing the overall system efficiency.

When a system is being drained there is a necessity to admit atmospheric air into the pipeline in order to occupy the volume of drained water so to prevent dangerous sub-atmospheric pressure in the pipeline that may bring to complete collapse of pipe-sections.



Pipeline Without Air-Release valve at normal flow



Pipeline Without Kinetic Vacuum Valve with water draining

### **DAVPBSP1A:**

The valve is designed for an efficient release of entrapped air from the pipeline, while the network is at normal working pressure.

The large orifice will release the air through initial filling of a small diameter pipe, or admit air into it while it is drained.

### **Technical Specifications:**

- Operating pressure 20 – 1,600 KPA
- Maximum water temp. for continuous operation: 60°C
- Maximum water temp. for intermittent operation: 80°C
- 25mm BSP MI
- Structure materials: Cover/Base Glass Reinforced Nylon
- Internal parts: corrosion resistant, reinforced plastic materials and synthetic rubber
- Discharge of 17CFM of air at pipe pressure of 100kpa when fully open



Specifications subject to change without notice – Product drawings / images are representative only and are subject to change.

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## DAVPBSP2KA:

This valve has been designed for efficient discharge and intake of air in cold water pipe networks.

The valve is appropriate for:

- Expelling the air at high flow velocity during the initial filling of the system
- Introducing large quantities of air when the pipe drains, maintaining atmospheric pressures in the pipe and preventing collapse and cavitation damage to the conduits



## Technical Specifications:

- Operating pressure 20 – 1,600 KPA
- Maximum water temp. for continuous operation: 60°C
- Maximum water temp. for intermittent operation: 80°C
- 50mm BSP MI
- Structure materials: Cover/Base Glass Reinforced Nylon
- Internal parts: corrosion resistant plastic materials and synthetic rubber
- Discharge of 410 CFM of air at pipe pressure of 48kpa

MODELS	CODE
1" BSP Plastic Automatic Air Valve	DAVPBSP1A
2" BSP Plastic Combination Air Valve (Kinetic/Automatic)	DAVPBSP2KA

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