

DOROT DAV-P-K

Aquestia
Directing the Flow



Irrigation

Reduced Bore, Air & Vacuum Air Valve Series

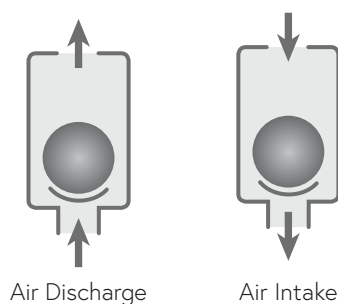
Description

DOROT DAV-P-K is a polymeric reduced bore Air & Vacuum Air Valve Series. Valve operation includes venting air from a filling pipeline and also vacuum breaking (air intake) of a draining pipeline, to optimize pipeline hydraulic efficiency and flow.

Installation

- Pump stations: downstream of the pump and the check valve
- Downstream and upstream of shut-off valves
- Downstream of deep-well pumps
- On long constant-sloped pipeline segments
- At peaks along the pipeline and at peaks relative to hydraulic gradient
- At end lines
- On strainers and filters

Operation



Features and Benefits

Reliable operation	Reduces water hammer impact, saves energy and increases system efficiency
Dynamic design	High capacity air discharge
	Easy to install and simple to maintain
Accessible discharge outlet	For connecting a vent pipe
Construction materials	UV resistant, non-corrosive and durable

Technical Specifications

Size range	1/2" – 2"
Working pressure range	0.1 - 16 bar (PN16)
Testing pressure	1.5 times maximum working pressure
Temperature	Maximum working temperature: 60° C Maximum intermittent temperature: 80° C

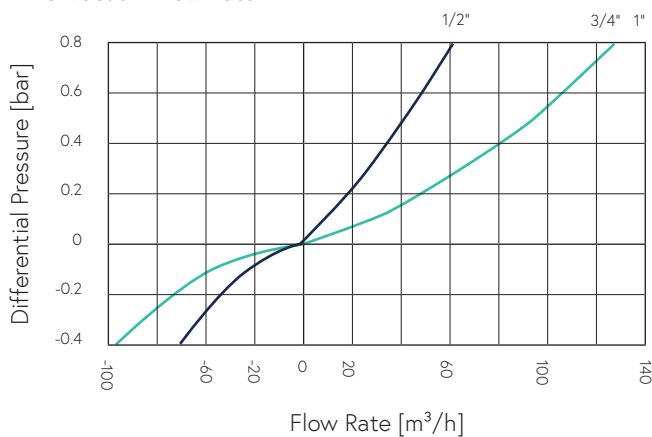
Upon ordering, please specify: model, size, working pressure, thread/flange standard and type of liquid

Valve Selection Options

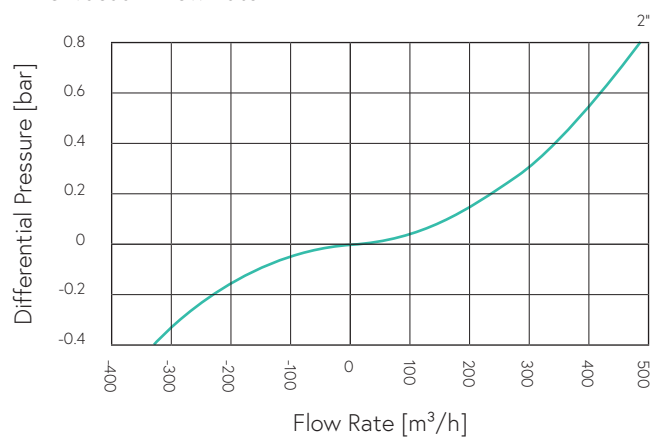
Valve connection	Threaded male BSPT/NPT Flanged ends to meet various requested standards
Standard materials	Reinforced Nylon, Polypropylene
Pressure rating	PN16

Flow Charts

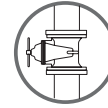
Air & Vacuum Flow Rate



Air & Vacuum Flow Rate



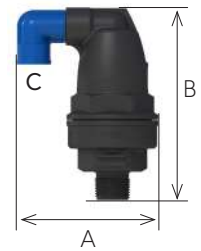
The isolation valve installed under the air valve must be fully open to prevent damage or malfunction and ensure performance within the specifications of the air valve.



For complete installation instructions, please refer to the IOM document.

➤ Dimensions and Weight

Size	Dimensions (mm)		Connections	Weight (kg)	Orifice area (mm ²)
	max. A	B			
1/2" (15mm), 3/4" (20mm) 1" (25mm) TRH	134	183	3/4" BSP Female	0.5	314
2" (50mm) TRH	187	249	1½" BSP Female	1.0	908
2" (50mm) FL	215	262	1½" BSP Female	1.5	908



NOTE Dimension A in the picture and in the table shows the maximum product width. This width can be reduced by changing the cover direction. All product weights are approximate, due to the differences in flange standards, materials and variable accessories.

FL - Flanged THR - Threaded

➤ Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Polypropylene
1b	Cover	Reinforced Nylon / Polypropylene
2	Air & Vacuum Assembly	
2a	Kinetic Seal	EPDM
2b	Float	Foamed Polypropylene
2c	O-ring	NBR / EPDM
3	Base	Reinforced Nylon / Brass / Polypropylene
4	Flange Assembly (optional)	
4a	O-ring	NBR
4b	Flange	Reinforced Nylon

