DOROT DAV-P-KA







Reduced Bore, Combination Air Valve

Description

DOROT DAV-P-KA Series, is a reduced bore Combination Air Valve. Installed on liquid transmission systems, the Air Valve is designed to improve hydraulic operation by protecting the pipeline, increasing pipeline efficiency and reducing energy requirements.

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
- Before water meters
- On strainers and filters

Operation







Automatic Air Release





Features and Benefits

Reliable operation	Reduces water hammer impact, saves energy and increases system efficiency	
	High capacity air discharge	
Dynamic design	Easy to install and simple to maintain	
Unique orifice seat/seal design	Long-term maintenance-free operation	
Accessible discharge outlet	For connecting a vent pipe	
Construction materials	UV resistant, non-corrosive and durable	
Rolling seal	Leak-free sealing over a wide range of pressure differentials	
NSF/ANSI/CAN 61 certified & listed	For drinking water system component	
NSF/ANSI 372 certified & listed	Conforms with lead content requirements for "lead-free" plumbing	

Technical Specifications

Size range	1/2" – 2"			
Working pressure range	DOROT DAV-P-KA 0.1 - 16 bar DOROT DAV-MP-KA 0.1 - 25 bar			
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				

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.









DOROT DAV-P-KA

DOROT DAV-MP-KA

> Valve Selection Options

Models	DOROT DAV-P-KA DOROT DAV-MP-KA Protective metal shell			
Valve connection	Threaded male BSPT/NPT Flanged ends to meet various requested standards			
Standard materials	Reinforced Nylon, Polypropylene, Cast Ductile Iron Shell			
Optional add-on components	One-way Out attachment, allows for air discharge only, prevents air intake One-way In attachment, allows air intake only, not allowing air discharge Non-slam, discharge-throttling attachment, allows full air intake, throttles air discharge (2" only)			
Pressure rating	PN16 DOROT DAV-P-KA PN25 DOROT DAV-MP-KA			

Dimensions and Weight

Size	Dimensions (mm)		Connections	Weight (kg)	Orifice area (mm²)	
	max. A	В	С		A/V	Auto.
DOROT DAV-P-KA						
1/2" (15mm), 3/4" (20mm), 1" (25mm) THR	134	183	3/4" BSP Female	0.5	314	12.85
2" (50mm) THR	187	249	1½" BSP Female	1.0	908	12.85
2" (50mm) FL	215	262	1½" BSP Female	1.5	908	12.85

DOROT DAV-MP-KA						
1" (25mm) THR	141	190	3/4" BSP Female	2.7	314	12.85
2" (50mm) THR	206	252	1½" BSP Female	7	908	12.85
2" (50mm) FL	214	260	1½" BSP Female	9	908	12.85

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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.





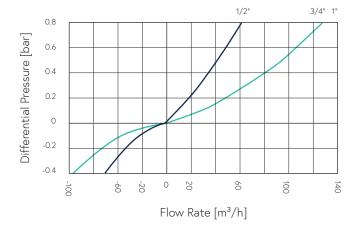
DOROT DAV-P-KA





DOROT DAV-P-KA

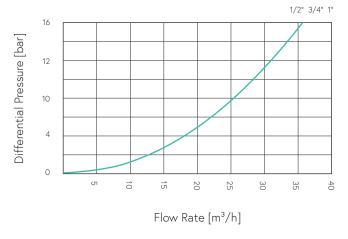
Air & Vacuum Flow Rate



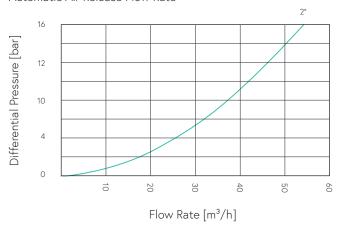
Air & Vacuum Flow Rate



Automatic Air Release Flow Rate

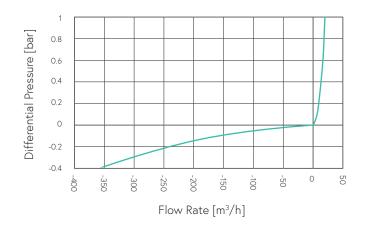


Automatic Air Release Flow Rate

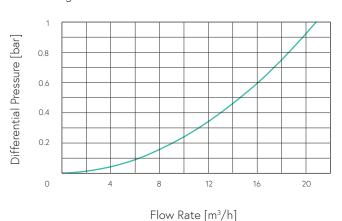


DOROT DAV-P-KA-SA (Non-slam)

Air & Vacuum Flow Rate



Air Discharge Flow Rate







Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Polypropylene
1b	One-way or Non-slam Check Valve (optional)	Polypropylene
1c	Cover	Reinforced Nylon / Polypropylene
2	Air Release / Air & Vacuum Assembly	
2a	Orifice Seal	EPDM
2b	Slider	Reinforced Nylon
2c	Float	Foamed Polypropylene
2d	Rolling Seal	EPDM
2e	O-ring	EPDM
3	Base	Reinforced Nylon / Brass / Polypropylene
4	Flange Assembly (optional)	
4a	O-ring	NBR
4b	Flange	Reinforced Nylon



DOROT DAV-P-KA

















Parts List and Specifications

No.	Part	Material
1	Cover Assembly	
1a	Discharge Outlet	Polypropylene
1b	Shell	Ductile Iron
1c	Cover	Reinforced Nylon / Polypropylene
2	Air Release / Air & Vacuum Assembly	
2a	Kinetic Seal	EPDM
2b	Slider	Reinforced Nylon
2c	Rolling Seal	EPDM
2d	Float	Foamed Polypropylene
3	Base Assembly	
За	Flat Seal	EPDM
3b	Bolts & Washers	Stainless Steel 316
3c	Base Threaded / Flanged	Ductile Iron