Air and vacuum release valves

Air and vacuum release valves:
Air bubbles in a pipeline system lead to reduced capacity and can damage installations.
The situations described below can result in air in the pipeline system:

- Starting up the pump
- During the filling of the installation, air can be trapped in the system
- Turbulence at pump suction
- (Per volume unit of water (at 20°C), 2% of air enters the system. In case of pressure and temperature variations, it is possible that the air does not remain in solution.)

To protect the installation against vacuum damage a kinetic or combination air release valve can be used.

The **Bermad** range of air and vacuum release valves comprises of 3 different types.
Depending on the installation requirements one of the following types should be installed:

- **Automatic** air release valves ¾" & 1" (**A10**). Allows efficient release of air pockets from pressurized pipes
- **Kinetic** air release valves ¾", 1" & 2" (**K10**). Evacuates air during pipeline filling and enables large volume air intake in the event of network draining
- **Combination** air release valves ¾", 1" & 2" (**C10**). It evacuates 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

Features:

- Dynamic sealing – Prevents leakage under low pressure conditions (0.1 bar)
- Large air-flow capacity.
- Advanced aerodynamic design with a straight-flow body allowing higher than ever before flow rates
- Cavitation and surge protection (anti-slam)

Model:

- Plastic PN10

Options:

- Plastic PN16
- Drinking water mark
- Inflow prevention (only combination air and vacuum release valve 2")
- Surge Protection (anti-slam) (only combination air and vacuum release valve 2")

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Air and vacuum release valves A10
Technical data

Specifications:

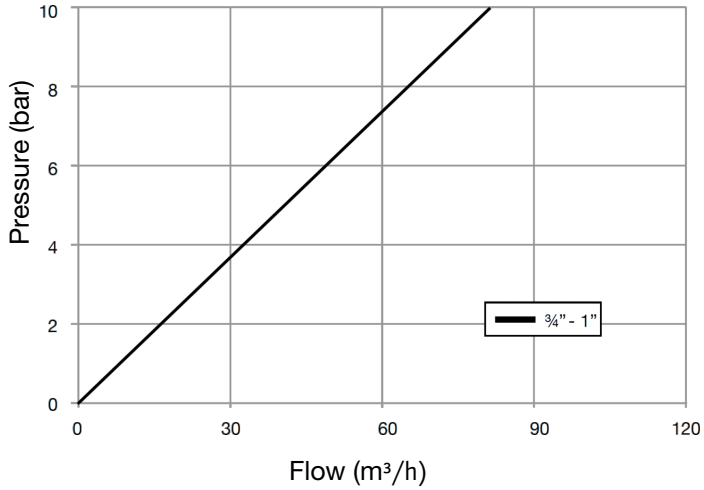
Connection:	¾", 1" BSP (male)
Working pressure:	0,1 - 10 bar
Max. temperature:	60ºC

Materials:

Body:	glass-fibre-reinforced polyamide
Float:	polypropylene
Seals:	EPDM

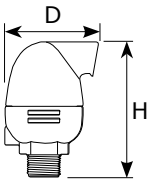
Flow diagram:

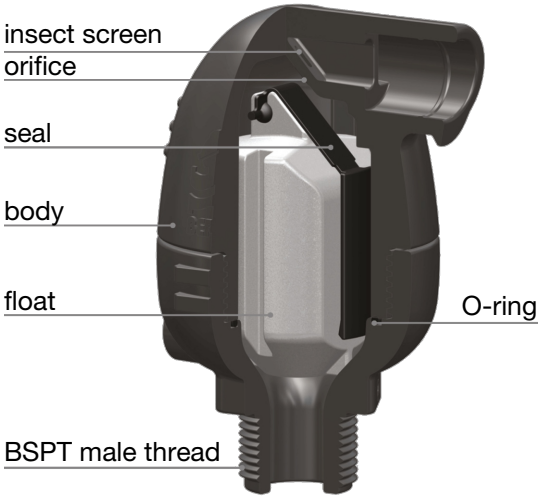
Venting:



Dimensions and weights:

Model		¾"	1"
Orifice	mm²	8,8	8,8
Height H	mm	136	136
Diameter D	mm	95	95
Weight	kg	0,35	0,36





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Air and vacuum release valves K10
Technical data

Specifications:

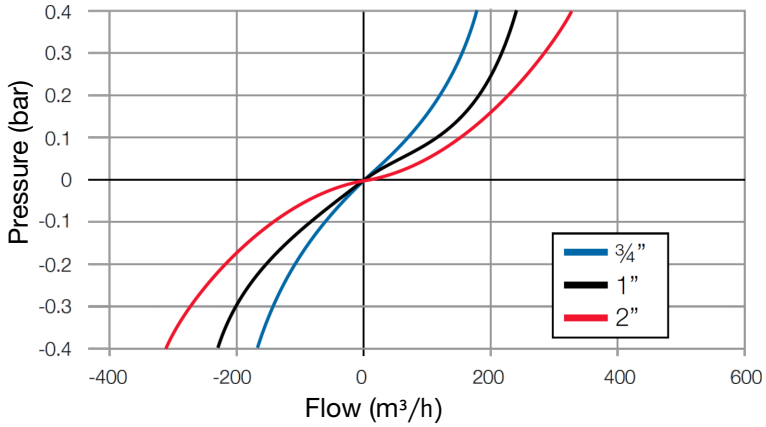
Connection:	¾", 1", 2" BSP (male)
Working pressure:	0,1 - 10 bar
Max. temperature:	60ºC

Materials:

Body:	glass-fibre-reinforced polyamide
Float:	polypropylene
Seals:	EPDM

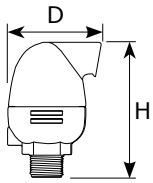
Flow diagram:

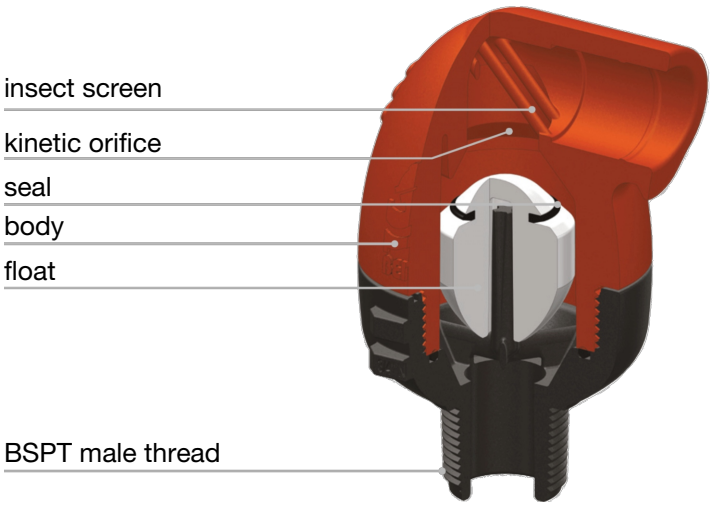
Venting:

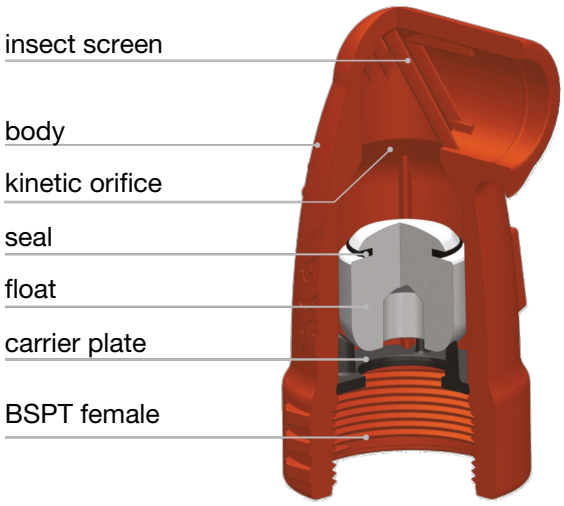


Dimensions and weights:

Model		¾"	1"	2"
Orifice	mm²	320	320	755
Height H	mm	109	109	130
Diameter D	mm	76	76	93
Weight	kg	0,17	0,17	0,28







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Air and vacuum release valves C10
Technical data

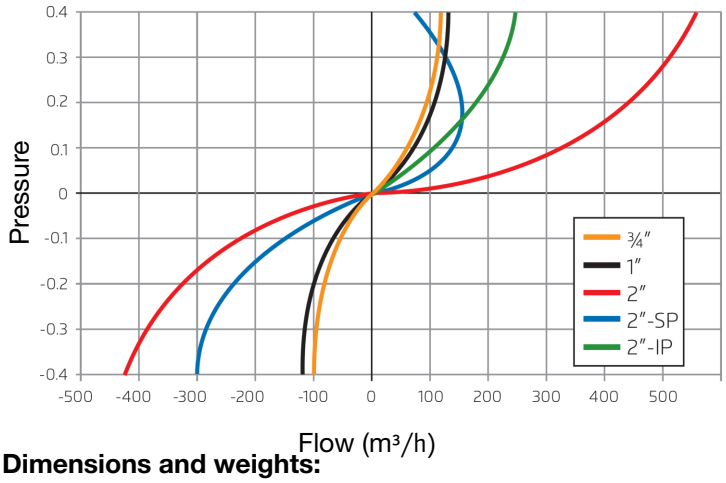
Specifications:

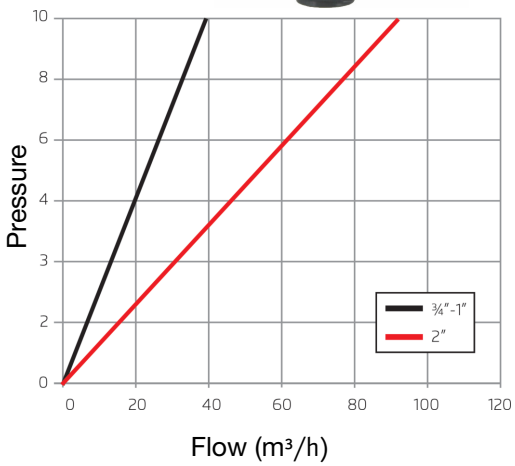
Connection:	¾", 1", 2" BSP (male)
Working pressure:	0,1 - 10 bar
Max. temperature:	60ºC

Materials:

Body:	glass-fibre-reinforced polyamide
Float:	polypropylene
Kinetic plug:	glass-fibre-reinforced polyamide
Polypropylene:	EPDM

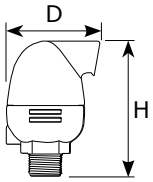
Flow diagram:
Venting:

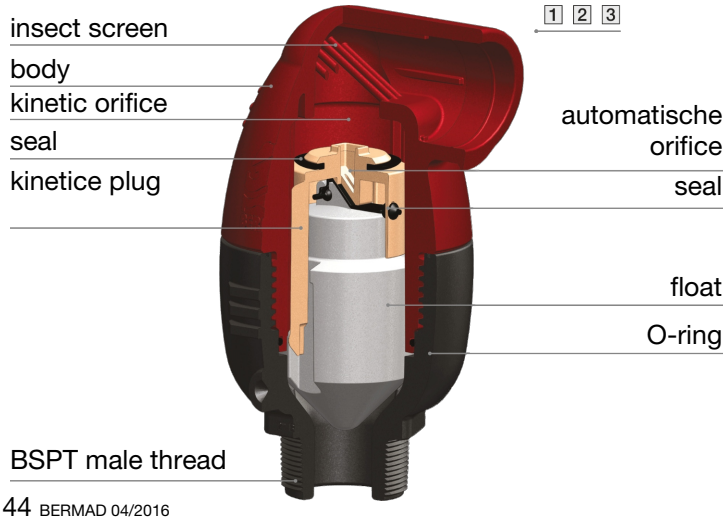


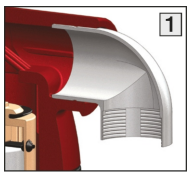


Dimensions and weights:

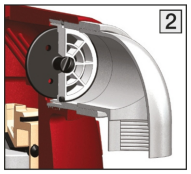
Model		¾"	1"	2"
Orifice autom.	mm²	5,5	5,5	12,2
Orifice kinetic	mm²	320	320	1590
Height H	mm	160	160	230
Diameter D	mm	97	97	143
Weight	kg	0,44	0,45	1,30



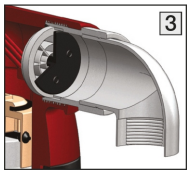




Knee for drainage connection (only 2")



Surge Protection (anti-slam) (only 2")



Inflow prevention (only 2")

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