Air valves high pressure



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 ³/₄" & 1" (A30 / A71). Allows efficient release of air pockets from pressurized pipes
- **Combination** air release valves ³/₄", 1" & 2" (**C30 / C30-C / C70**). 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
- Surge Protection (anti-slam)

Models:

- Plastic PN16
- Metal PN16

Options:

- Metal PN25 and PN40
- Drinking water service standards
- Inflow prevention (only combination air and vacuum release valve)
- Surge Protection (anti-slam) (only combination air and vacuum release valve)



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Air and vacuum release valves high pressure A30 Technical data

Specifications:

Connection: Working pressure: Max. temperature:

Materials:

Body: Float: Seals:

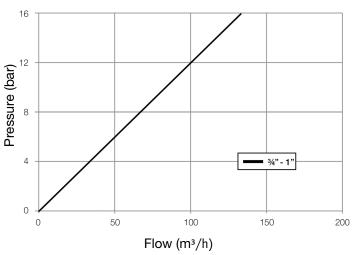
Flow diagram:

Venting kinetic:

¾", 1" BSP (male) 0,1 - 16 bar; option 0,02 bar (A31) 60°C

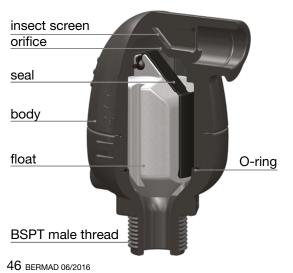
glass-fibre-reinforced polyamide (for drinking water) polypropylene (for drinking water) EPDM (for drinking water)





Dimensions and weights:

Model		3⁄4"	1"	
Orifice	mm²	9,6	9,6	
Height H	mm	136	136	
Diameter D	mm	95	95	
Weight	kg	0,35	0,35	







Air and vacuum release valves high pressure C30 Technical data

34", 1", 2" BSP (male)

0,1 - 16 bar

60°C

Specifications:

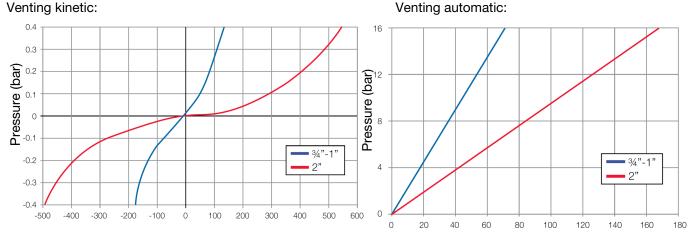
Connection: Working pressure: Max. temperature:

Materials:

Body: Float: Seals: glass-fibre-reinforced polyamide (for drinking water) polypropylene (for drinking water) EPDM (for drinking water)

Flow diagram:





Flow (m³/h) **Dimensions and weights:**

Model		3⁄4"	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	1,3	





Flow (m³/h)

Knee for drainage connection (only 2")



Surge protection (antislam) (only 2")



Inflow prevention (only 2")

NUM UVAR



Air and vacuum release valves high pressure C30-C **Technical data**

Specifications:

Connection: Working pressure: Max. temperature:

Materials:

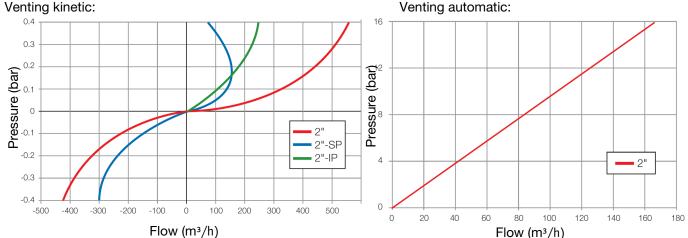
Body: Float: Kinetic plug: Seals:

Flow diagram:

2" BSP (male) option: flange 0,1 - 16 bar 60°C

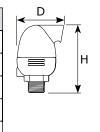
cast, ductile Iron with epoxy coating (for drinking water) polypropylene (for drinking water) glass-fibre-reinforced polyamide (for drinking water) EPDM (for drinking water)

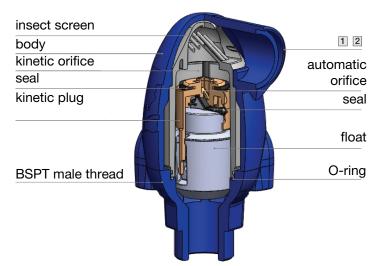




Flow (m³/h) Dimensions and weights:

Model		2"					
Orifice automatic	mm²	12,2					
Orifice kinetic	mm²	1590					
Height H	mm	248					
Diameter D	mm	157					
Weight	kg	6,20					







Surge protection (antislam)



Inflow prevention

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Air and vacuum release valves high pressure A71 Technical data



Specifications:

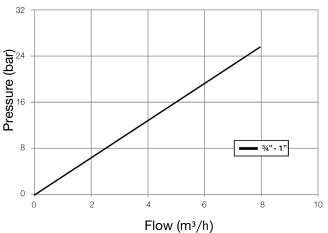
Connection: Working pressure: Max. temperature: ³⁄4", 1" BSP (male) 0,02 - 16 bar option: up to 25 bar 60°C

Materials:

Body: Float: Seals: stainless steel 316 (for drinking water) polypropylene (for drinking water) EPDM (for drinking water)

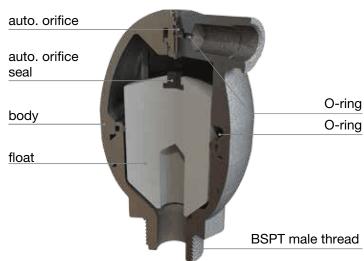
Flow diagram:

Venting automatic:



Dimensions and weights:

Model		3⁄4"	1"		
Orifice PN16	mm²	0,6	0,6		
Orifice PN25	mm²	0,4	0,4		
Height H	mm	132	132		
Diameter D	mm	86	86		
Weight	kg	1,5	1,5		







Air and vacuum release valves high pressure C70 **Technical data**

Specifications:

Connection: Working pressure: Max. temperature:

Materials:

Body:

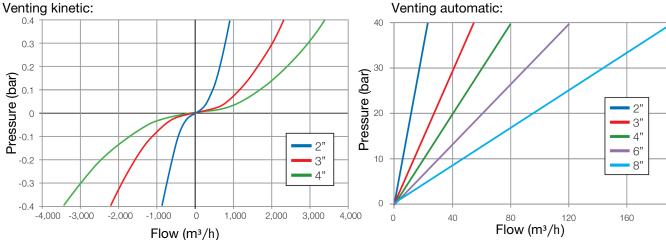
Float: Seals:

Flow diagram:

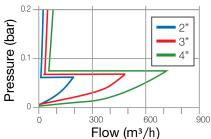
2", 3", 4", 6", 8" flange option: thread (2") 0,1 - 16 bar option: up to 25/40 bar 60°C

cast, ductile Iron with epoxy coating (for drinking water) option: stainless steel, bronze polypropylene (for drinking water) EPDM (for drinking water)





Surge protection:



Options: Side



Mushroom

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Dimensions and weights:

Model		2"	3"	4"	6"	8"
Orifice autom. PN16	mm²	1,1	2,5	3,1	9,1	11,2
Orifice autom. PN25	mm²	0,6	1,5	2,0	5,7	7,5
Orifice autom. PN40	mm²	0,4	1,0	1,3	3,5	4,8
Surge protection	mm²	79	201	314	707	1.257
Orifice kinetic	mm²	1.963	5.027	7.854	17.671	31.416