

# BURIED TRIPLE ACTING AIR RELEASE VALVE

## TECHNICAL PASSPORT

### BURIED TRIPLE ACTING AIR RELEASE VALE - DUCTILE IRON BODY

PVTE4246

#### APPLICATION

The buried triple-acting air release valve is designed for use in clear water supply systems.

It serves the following functions:

1. Venting of air during system start-up: When pipelines are being filled, the valve facilitates the release of air.
2. Intake of air during system shut-off: When pipelines are being drained, the valve allows air intake.
3. Discharge of pressurized air pockets during system operation: The valve ensures efficient removal of air pockets under pressure.



**Fluids:** clear water.



#### GENERAL CHARACTERISTICS

**Range:** From DN50 to DN100.

Underground air valves are designed to be buried underground without the need for a chamber. A protection sleeve shields the air valve from soil, allowing sufficient space for air intake and discharge. A drain plug on the body facilitates drainage of any water that may accumulate inside the sleeve.

The integral isolation mechanism is positioned at the base of the air valve.

Maintenance and cleaning are straightforward: simply remove the cover and pull out the air valve assembly from the sleeve. Consequently, the check-isolation mechanism automatically closes, preventing water from escaping the pipeline. After replacing the air valve, the new one can be easily reinstalled on the body,

deactivating the check-isolation mechanism. Thus, there is no need for an external isolation valve installation.

The float is guided by the ribbed body and moves in response to changes in water elevation. Thanks to the aerodynamic valve design, the float remains stable during air intake and discharge, preventing premature closure. Only when water levels rise does the float ascend, closing the valve. Conversely, when water levels drop, the float descends, allowing large volumes of air to enter the system.

The float sealing design enables the float to function even under dynamic conditions, discharging small pockets of pressurized air.

Body coating: From DN50 to DN80 - electrostatic fusion epoxy powder in RAL 5005, thickness 250 µm.

#### STANDARDS

Connection	Flange assembling PN10/16 according to EN1092-2.
Test	Test according to standard EN 12266-1 rate 1 : - Body : 1.5 x WP - Seat : 1.1 x WP

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ISO 9001  
ISO 14001  
BUREAU VERITAS  
Certification

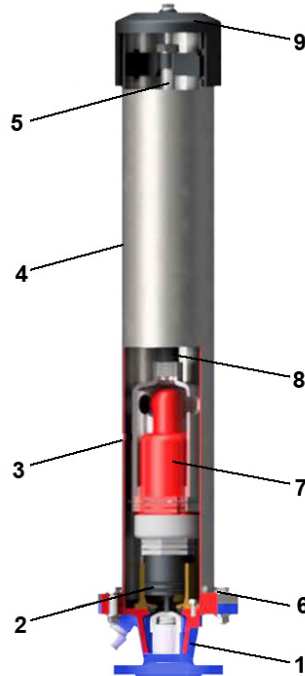


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### CONSTRUCTION



Pos.	Description	Material
1	Body	Ductile iron GGG40
2	Seal	EPDM
3	Air valve sleeve	Aluminium
4	Protection sleeve	Stainless steel AISI 304
5	Shaft	Stainless steel AISI 420 (X20Cr13)
6	Fasteners	Stainless steel AISI 304
7	Air valve body & float	Thermoplastic polymer
8	Pipe	Stainless steel AISI 04
9	Cover	Ductile iron GGG40

The photographs and technical art works are not contractual. The specifications of the presented products are open to modifications without previous advice.

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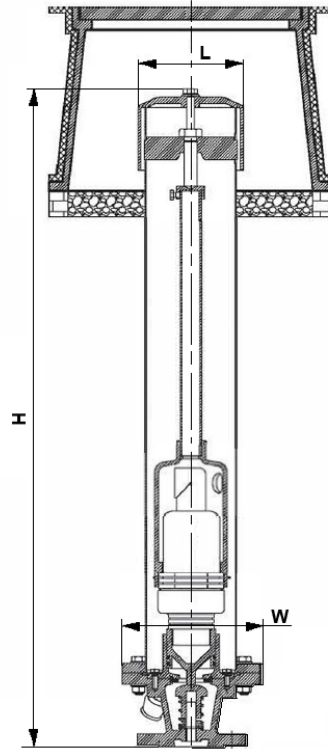


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#### DIMENSIONS



DN		H		L	W	Weight (kg)
mm	inch	Size	Hight			
50	2"	M	755	160	210	21
		S	1055	160	210	25
		L	1355	160	210	27
		XL	1555	160	210	29
65	2 1/2"	M	755	160	210	21
		S	1055	160	210	25
		L	1355	160	210	27
		XL	1555	160	210	29
80	3"	M	755	160	210	22
		S	1055	160	210	26
		L	1355	160	210	28
		XL	1555	160	210	30
100	4"	M	755	160	220	23
		S	1055	160	220	27
		L	1355	160	220	29
		XL	1555	160	220	31

#### WORKING CONDITIONS

Maximum working pressure : 16 bar  
Maximum working temperature : -10°C / 80°C

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