



Hawle air release valve  
for potable water treatment  
Oxidizer version

## Explanatory notes on the brochure

General media information in the product descriptions may apply subject to certain restrictions. Kindly always state the relevant medium in your given application when you place an order or submit a query.

If you have any further questions about our products, please do not hesitate to contact our employees of the application engineering division at any time.



Products for use in connection with potable water



In general, products sold by us are subject to the statutory warranty period of 2 years from the date of delivery at Hawle. Due to the high quality of Hawle products, we are able to offer you an extended warranty of 5 years for products manufactured by us. For more details, please see our website at: [www.hawle.de/en/warranty-extension/](http://www.hawle.de/en/warranty-extension/)



Information on our “10-year quality warranty” for Hawle potable water products is available at the following link: [www.hawle.de/en/10-years-quality-warranty/](http://www.hawle.de/en/10-years-quality-warranty/)  
Excluded from the Hawle manufacturer’s warranty are, i.a., consumables and wear parts.



For current information, please see our Hawle app. Further information is available at [www.hawle.de/en/downloads/hawle-app/hawle-app/](http://www.hawle.de/en/downloads/hawle-app/hawle-app/)

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# Hawle air release valve 986-05

## Oxidizer version

The Hawle air release valve (ARV) 986-05 "Oxidizer version" was specially designed for the treatment of potable water using filters and oxidizers. It is used in numerous water treatment plants where an above-average volume of air occurs. To prevent the accumulation of larger air pockets and thus of disturbances in the reaction behavior of the filter or oxidizer, the introduced air must be discharged quickly.

Standard valves reach their technical limits when it comes to permanent high-frequency air release in water treatment, as these valves are designed for the intake and release of air in pipelines. To meet the stringent requirements for the permanent release of air, Hawle has developed the "Oxidizer version".

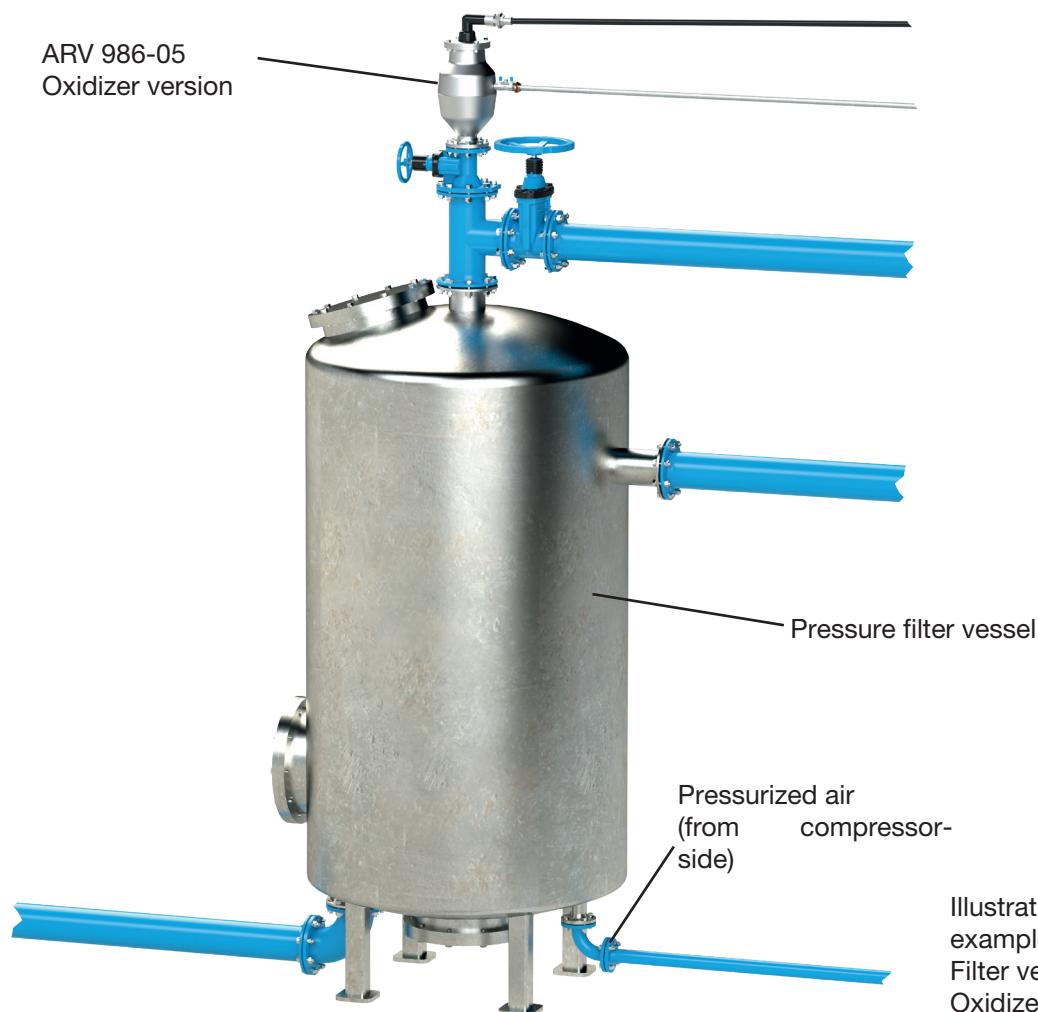
The air release valve 986-05 has a significant impact on the release of air in the case of large volumes of air. The integrated stainless steel sleeve calms the turbulent oxygen-water mixture in the valve and thus allows it to rise evenly in the valve.

The calmed water lifts the special float which is guided inside the stainless steel sleeve and thus activates the valve

mechanism.

Due to the unique roll-on membrane technology, the amount of air released can be gradually reduced until the valve is sealed tight. Accordingly, the system continuously releases air during operation, which causes the entire plant to run substantially smoother. Moreover, this reduces the wear and tear of the air release valve, ensures safe operation and a long lifetime of the air release valve.

For more information, please see [www.hawle.de/en/products/infos/product-group/986-05/](http://www.hawle.de/en/products/infos/product-group/986-05/)



# Hawle air release valve 986-05

## Oxidizer version



Illustration: Oxidizer stainless steel sleeve  
(=guided float, Oxidizer version)

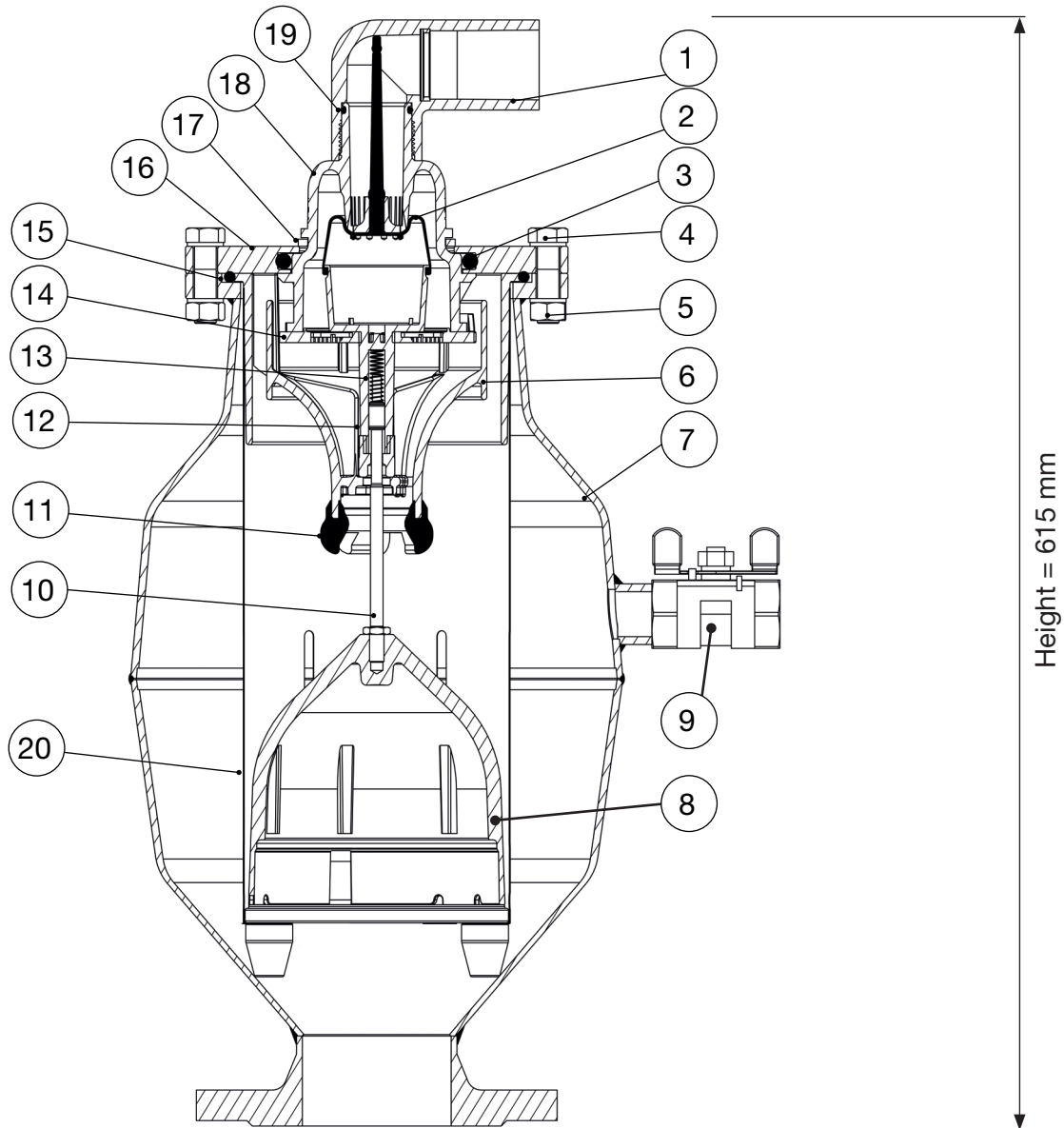


Illustration: ARV 986-05 Oxidizer version

## Technical data

- Medium: potable water, raw water
- Max. air release capacity: 440 m<sup>3</sup>/h
- Venting and ventilation cross section: 480 mm<sup>2</sup>
- Infinite variable operation from 0 - 10 bar, seals tight already as from 0 bar
- ARV housing: stainless steel 1.4571 or, alternatively, steel, Hawle epoxy powder coated
- Connection variants: Flange DN 50, DN 65, DN 80, DN 100 (other connections available upon request)
- Sealing seat does not come in contact with the medium
- The sealing principle using a roll-on membrane also has a shock-absorbing property
- Guided float - Oxidizer version - in a robust stainless steel sleeve
- Works reliably, even with deposits from raw water
- Outlet elbow with external thread to connect a detachable exhaust air line, available on request with Camlok coupling for quick release
- Easy maintenance of the air release valve (required at least once annually; more frequently, if necessary)
- The Oxidizer version can also be retrofitted for ARV 986-00 (conversion kit)
- DVGW [German Association for Gas and Water] type approval certificate for air release valve 986-00 in the potable water version, which serves as the basic valve for air release valve 986-05 (Oxidizer version)
- Digital ARV 986-04 available on request

# Components of the air release valve 986-05 Oxidizer version



Item	Component	Material
1	Outlet elbow d 50 mm with external thread 1 1/2"	PE
2	Roll-on membrane	HNBR
3	O-ring 95 x 8.5 mm	NBR
4	Hexagon bolt	stainless steel
5	Hexagon nut	stainless steel
6	Protector	PP
7	Housing	steel, Hawle epoxy powder coated or stainless steel
8	Float, Oxidizer version	POM
9	Ball valve 1"	stainless steel
10	Rod, complete	stainless steel
11	Absorber ring	EPDM
12	Membrane cup, complete	POM
13	Compression spring	stainless steel
14	Screen disc	POM
15	O-ring 157 x 6 mm	NBR
16	Clamping flange	steel, Hawle epoxy powder coated or stainless steel
17	Locking ring	POM
18	Valve housing- bonnet	POM
19	O-ring 34 x 3 mm	NBR
20	Oxidizer stainless steel sleeve	stainless steel

# Structure and function

## ARV 986-05 Oxidizer version and HaVent®

### Technical functionality of the ARV 986-05 Oxidizer version



Fig.: Valve open - air release

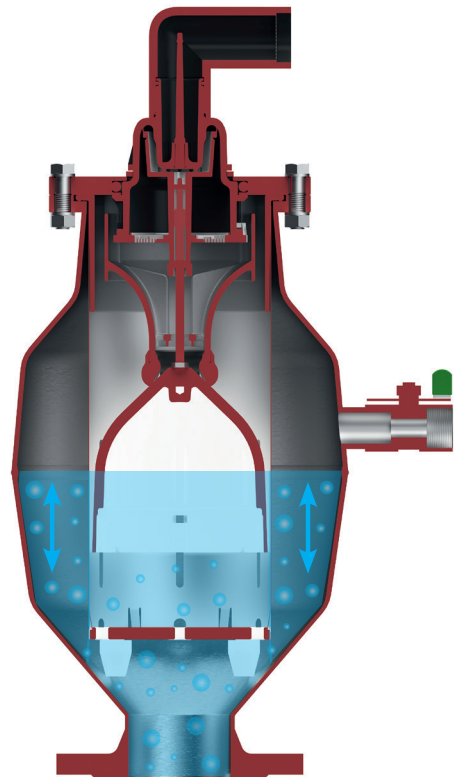


Fig.: Valve closed

### HaVent® : a smaller alternative to ARV 986-05, Oxidizer version

For cases where the height above the filter or oxidizer is not sufficient to allow for the installation of an air release valve 986-05, we offer the smaller HaVent® PN 16 in the version for oxidizers as an alternative. To this end, the valve using roll-on membrane technology is equipped with a special oxidizer float.

Housing: stainless steel

Operating range: 0 - 10 bar

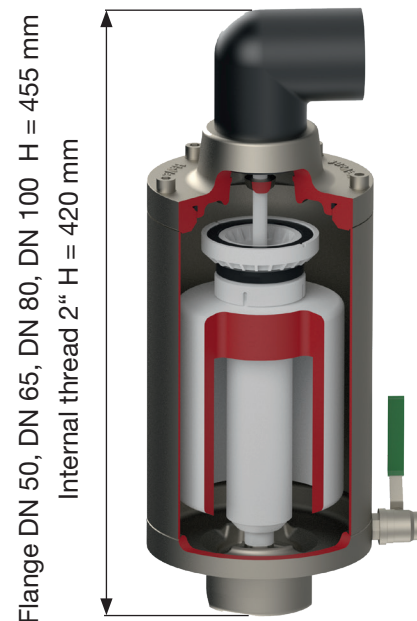
Max. air release capacity: 700 m<sup>3</sup>/h

Further information available at [www.hawle.de/en/products/infos/product-group/987-00/](http://www.hawle.de/en/products/infos/product-group/987-00/)



## Maintenance notes:

A shut-off valve, which must be closed during maintenance, must be installed below an air release valve. Also ensure that you have sufficient working space for maintenance. You must be able to remove the functional unit from above during maintenance. The space required for this purpose must be included in the calculation of the layout. In addition, it must be possible to easily detach the exhaust air line from the valves. For further details, please see the operating and maintenance manuals.



# Reference illustrations on filter

ARV 986-05 / HaVent®



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