



Potable water  
Air release valves and  
Air valve sets  
HaVent®

# 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 guarantee” for Hawle potable water products are available at the following link: [www.hawle.de/en/10-years-quality-warranty/](http://www.hawle.de/en/10-years-quality-warranty/)



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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# HaVent® air release valves

## HaVent® PN 16

The HaVent® air release valve with its roll-on membrane technology is ideally suited for the intake and release of large volumes of air during filling and discharging pipelines as well as for releasing large volumes of air during operation. The air release valve operates continuously from 0 to 16 bar and seals perfectly even when depressurized. No minimum relieving pressure is required.

The sealing principle using a roll-on membrane also has a shock-absorbing property. Due to its elevated air intake capacity, the air release valve offers also effective vacuum protection. The integrated ball valve serves to relieve pressure and for extracting samples.

## HaVent® PN 25

The HaVent® air release valve with its patented valve mechanism is ideally suited for the intake and release of large volumes of air while filling and draining pipe lines of up to PN 25. The operating range is between 0.2 to 25 bar. The integrated ball valve serves to relieve pressure and for extracting samples.

Caution: Air release valves contain compressed air. Before starting any maintenance works, always put the air release valve out of operation by closing the shut-off valve installed below it and by depressurizing it using the integrated ball valve.



HaVent® PN 16 DVGW (German Association for Gas and Water) certification (order no.: 987-00)

### Technical features:

- Housing: stainless steel
- Float: PP
- Gaskets: EPDM according to KTW-BWGL for water (evaluation criteria for products and materials in contact with potable water)
- With ball valve for pressure relief and sampling
- Vacuum-breaking function

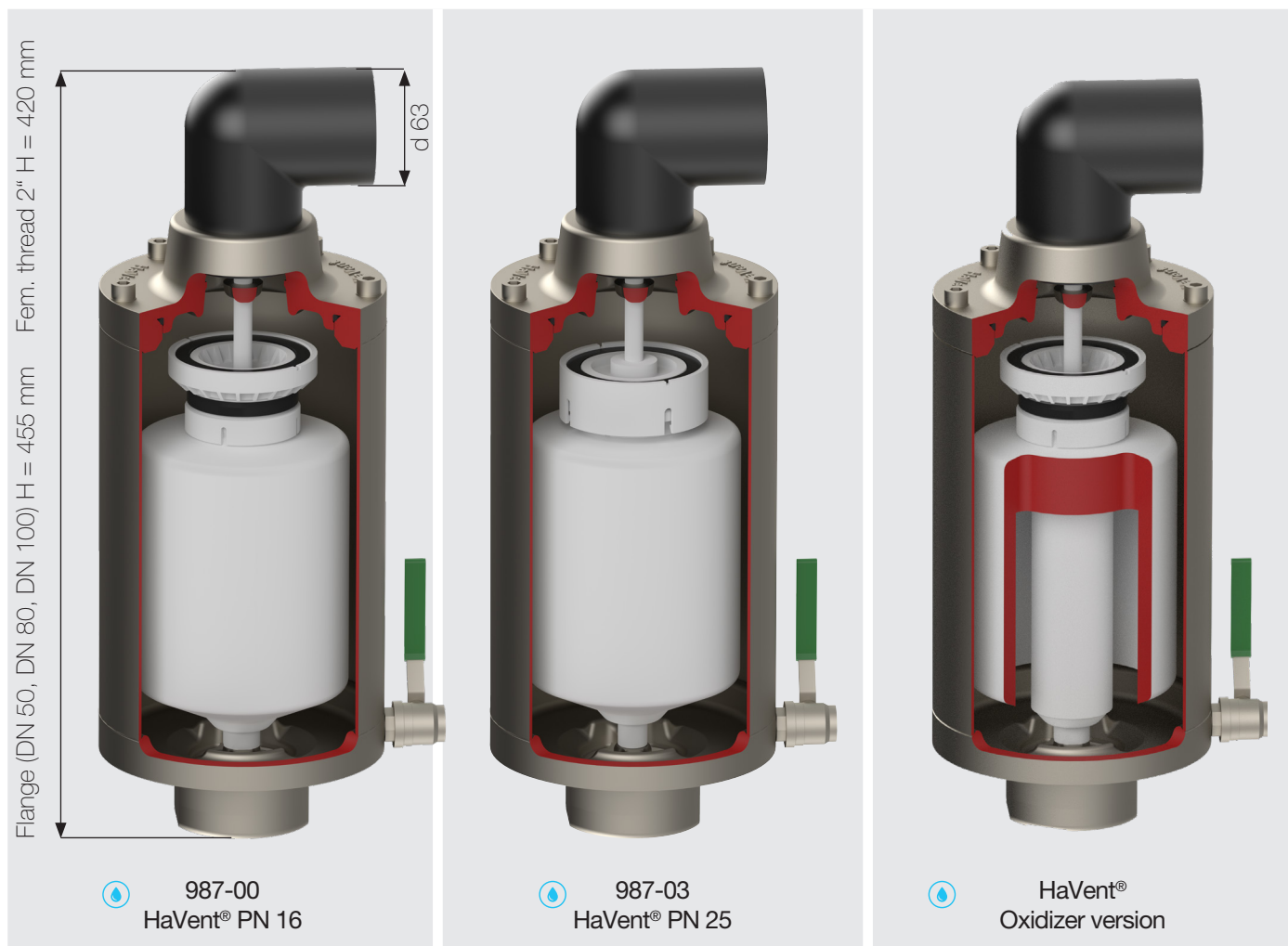
### Special functions on request:

- With closing aid, for more active closing in the presence of large volumes of air (e.g., for well pipes between the pump and water treatment station, elevated tank or pure water container; well head for releasing the air from pressure line)
- Air release only (min. operating pressure: 0.2 bar)
- With outlet elbow 2" male thread for connecting an exhaust air line
- Oxidizer version


## Technical data

Medium:	Potable water
Operating range:	PN 16: 0 - 16 bar PN 25: 0.2 - 25 bar
Max. air release capacity:	PN 16: 700 m <sup>3</sup> /h* PN 25: 1,150 m <sup>3</sup> /h* *During filling of pipeline
Air intake and air release cross section:	1,500 mm <sup>2</sup>
Cross-section for in-service air release:	PN 16: 200 mm <sup>2</sup> PN 25: 3.14 mm <sup>2</sup>
Body:	Stainless steel

# HaVent® air release valves



## Maximum operating pressure

No.:	Description		Nominal diameter
987-00	HaVent® PN 16	16 bar	DN 50, DN 80, DN 100, IG 2“ *
987-03	HaVent® PN 25	25 bar	DN 50, DN 80, IG 2“ *

\*Other flanges available upon request.

## HaVent® - Oxidizer version

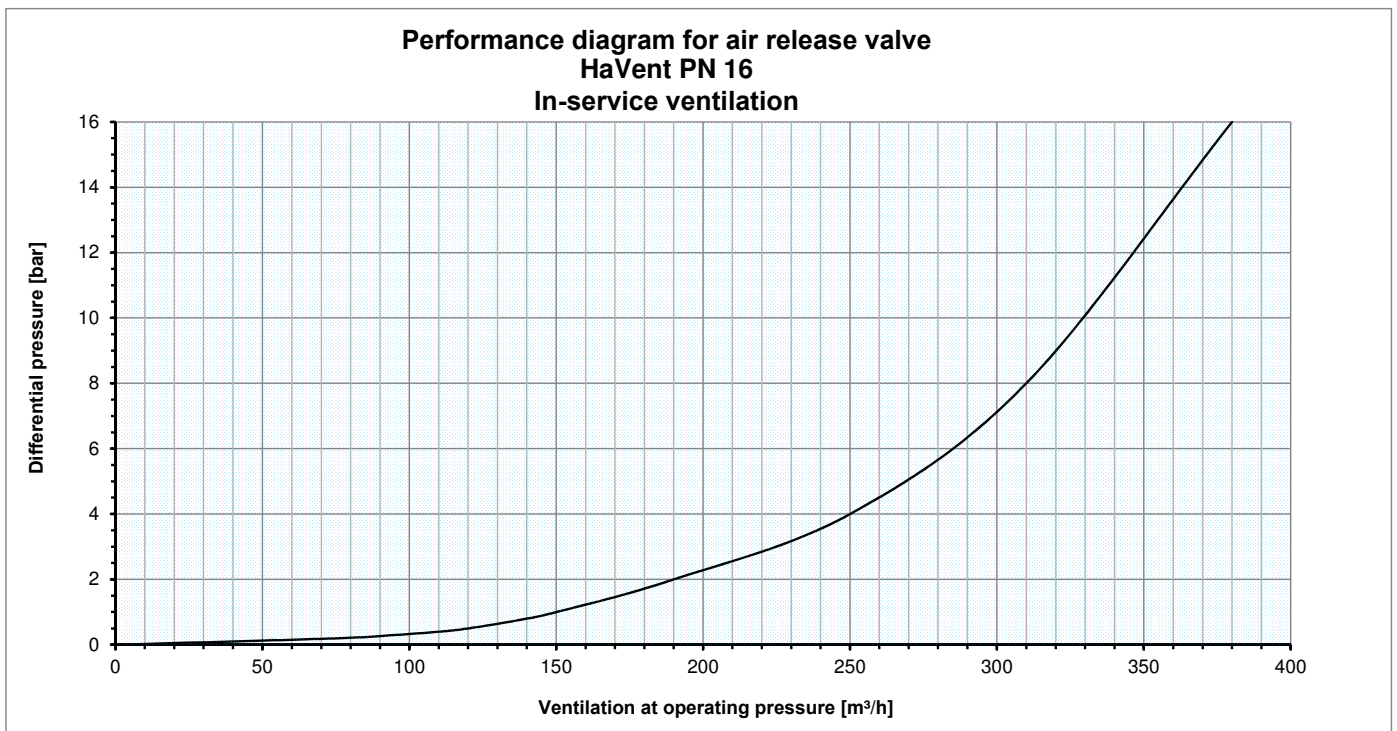
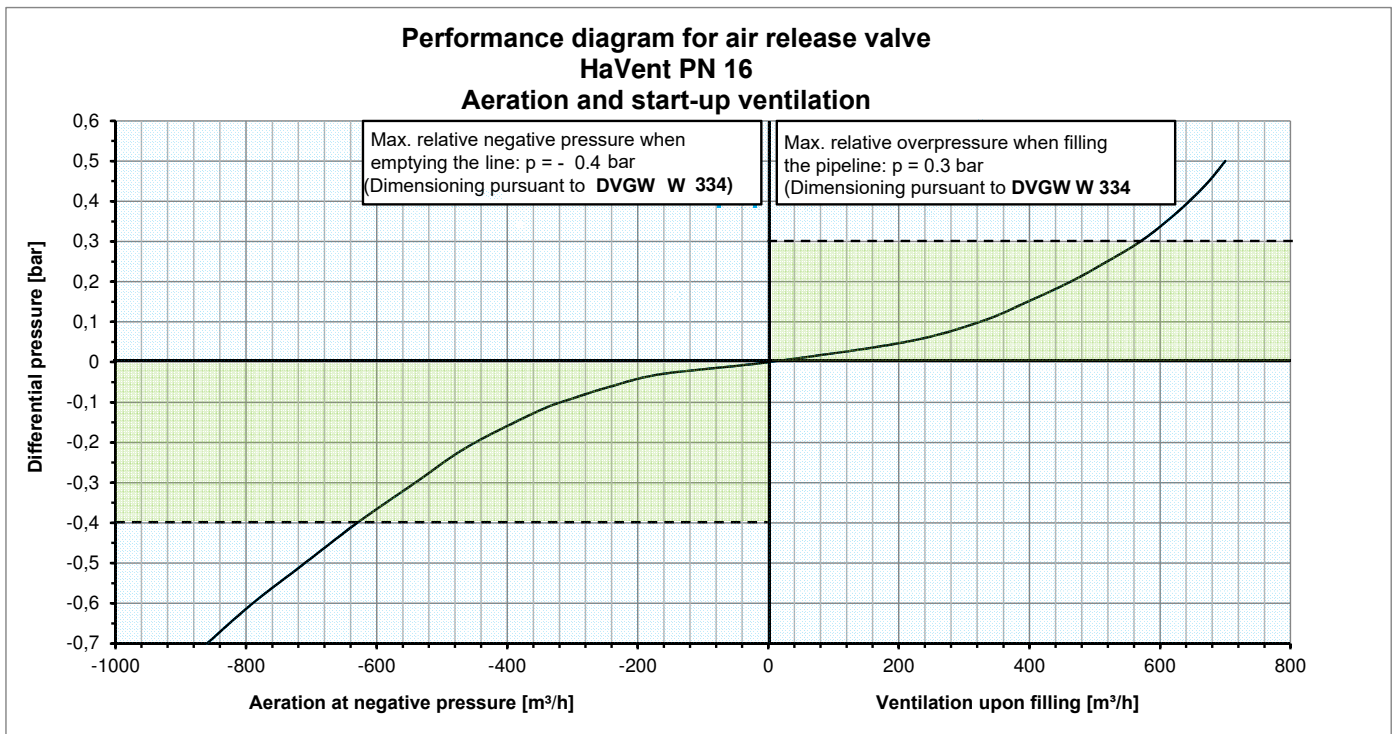
### Description:

- In the case of water heavily enriched with air, the oxidizer float ensures improved buoyancy and prevents the valve from “spluttering”.

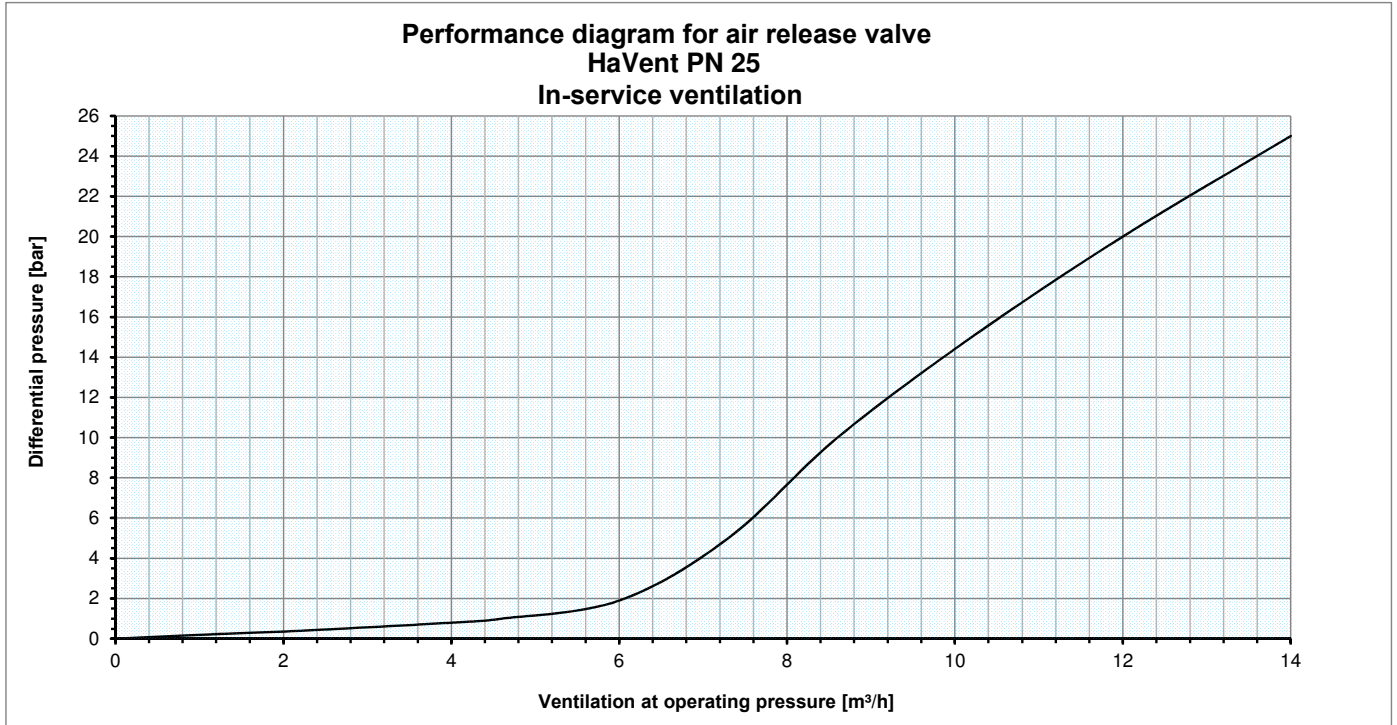
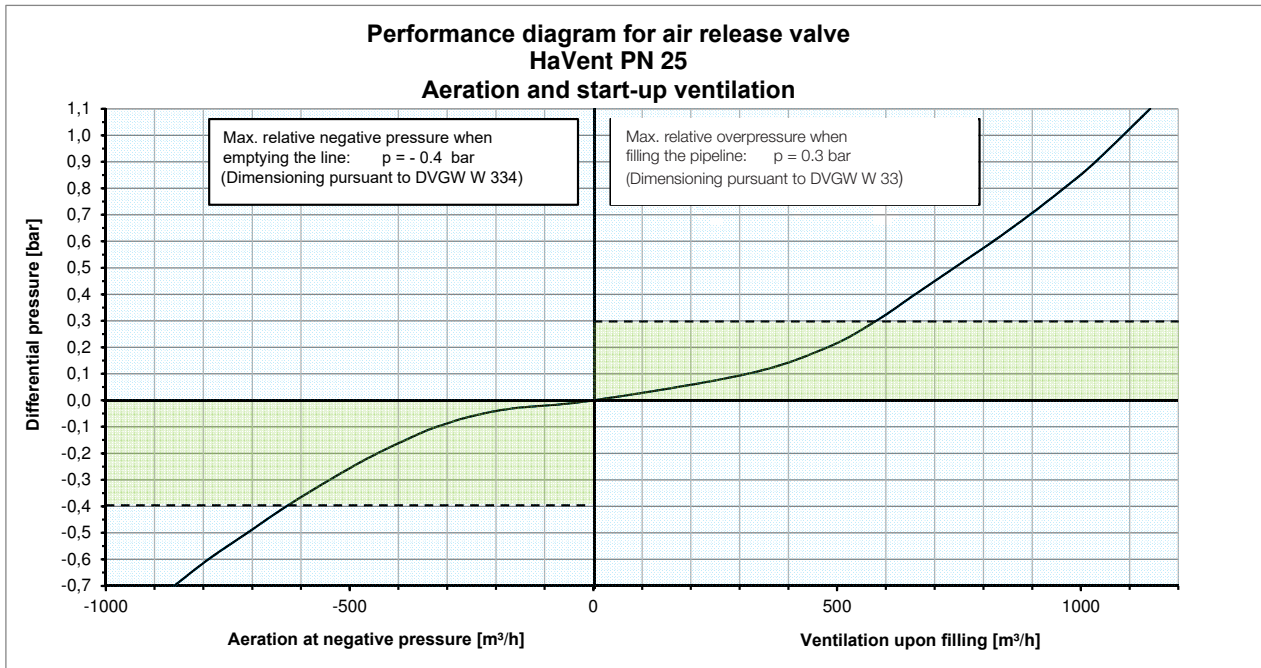
### Features:

- Oxidizer float
- Small footprint

# Performance charts for HaVent® PN 16



# Performance charts for HaVent® PN 25



# HaVent® air valve set 992-00 | 992-01

The air valve set (AVS) consists of a chamber with a shut-off device and an air release valve (ARV). Due to its compact design, the air valve set can be used instead of expensive, high-maintenance chamber models. Maintenance is made easy - by removing the replacement set. This eliminates all hazards associated with entering manholes.

The air valve set is available in versions with HaVent® PN 16 and PN 25.

For a technical description of the respective valves, see page 3.



HaVent® air valve set

## Technical features:

- Standpipe: stainless steel, 100 mm, for resizing
- Base: GJS-400, Hawle epoxy powder coating
- Bonnet: PE
- ARV body: stainless steel
- With integrated shut-off device
- Vacuum-breaking function

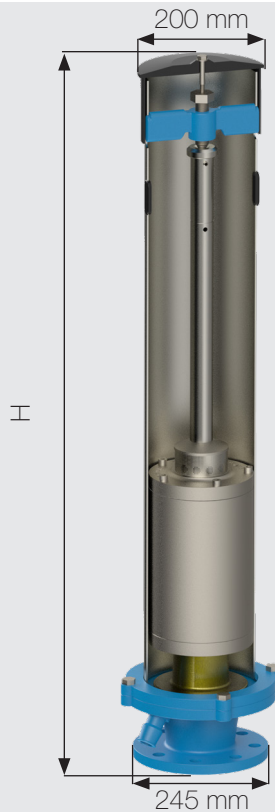
## Special functions on request:

- With closing aid, for more active closing in the presence of large volumes of air (e.g., for well pipes between the pump and water treatment station, elevated tank or pure water container; well head for releasing air from pressure line)
- Air release only (min. operating pressure: 0.2 bar)
- Installation in high-water range with flood protection, order no. 992-08

## Technical data

Medium:	Potable water
Operating range:	PN 16: 0 - 16 bar PN 25: 0.2 - 25 bar
Pipe cover depths:	1.00 m, 1.25 m, 1.50 m, 1.75 m (pipe cover depth 1.00 m not resizable)
Max. air release capacity:	PN 16: 700 m <sup>3</sup> /h* PN 25: 770 m <sup>3</sup> /h* *During filling of pipeline
Air intake and air release cross section:	1,500 mm <sup>2</sup>
Cross-section for in-service air release:	PN 16: 200 mm <sup>2</sup> PN 25: 3.14 mm <sup>2</sup>
Body:	Stainless steel

# HaVent® air valve set 992-00 | 992-01



Heights for version  
with flange connection  
 H = 755 mm = Pipe cover depth 1.00 m  
 H = 1,055 mm = Pipe cover depth 1.25 m  
 H = 1,305 mm = Pipe cover depth 1.50 m  
 H = 1,555 mm = Pipe cover depth 1.75 m



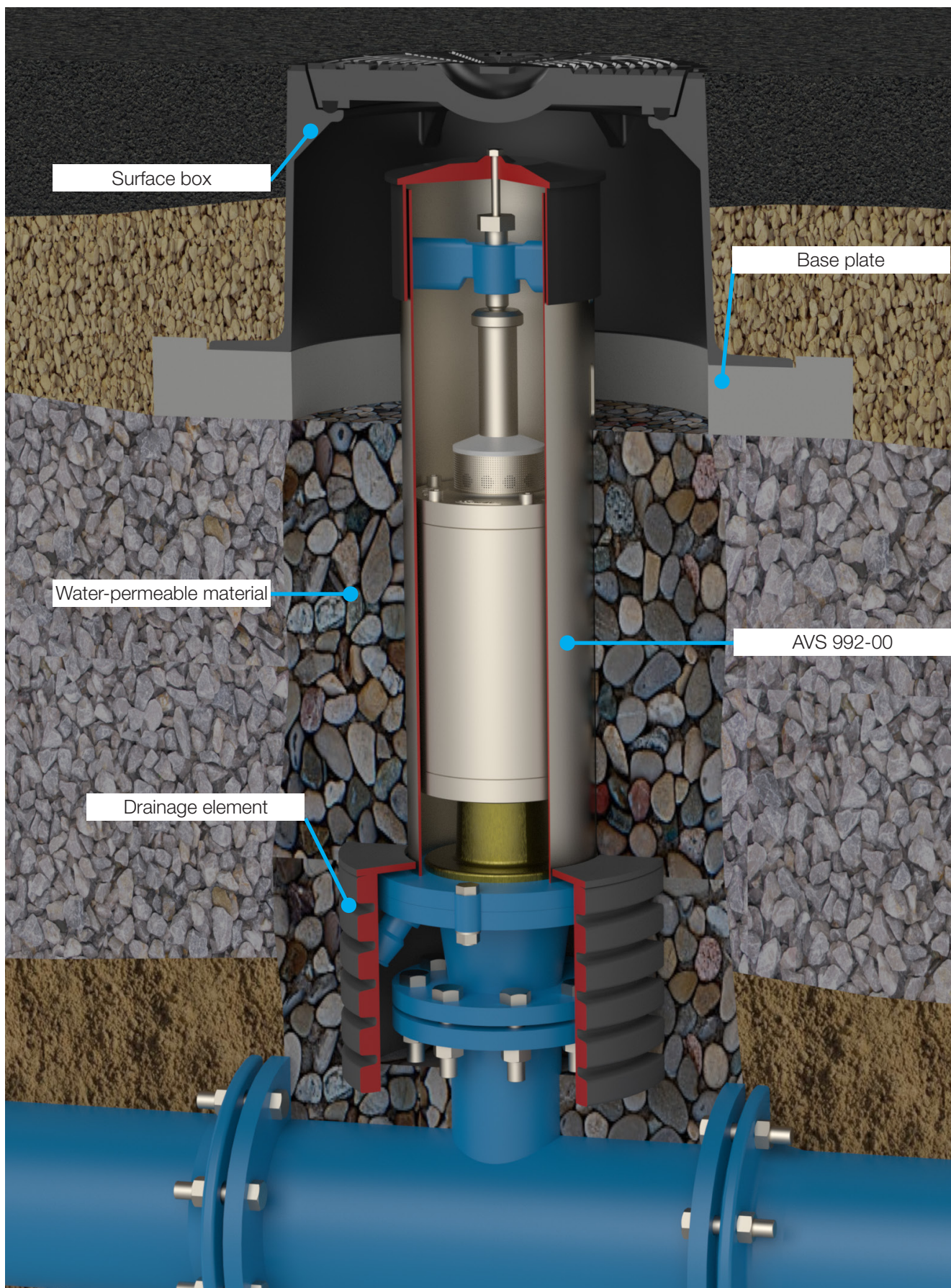
992-00 - Air valve set with HaVent® PN 16  
 992-01 - Air valve set with HaVent® PN 25

## Maximum operating pressure

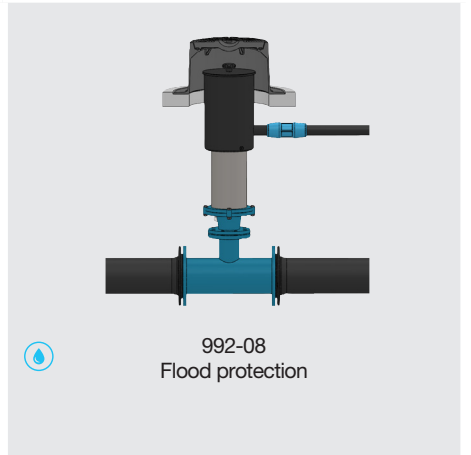
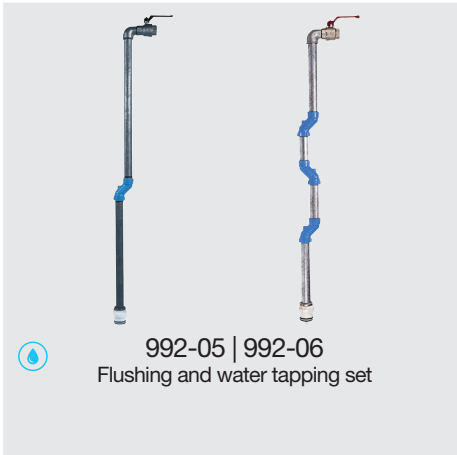
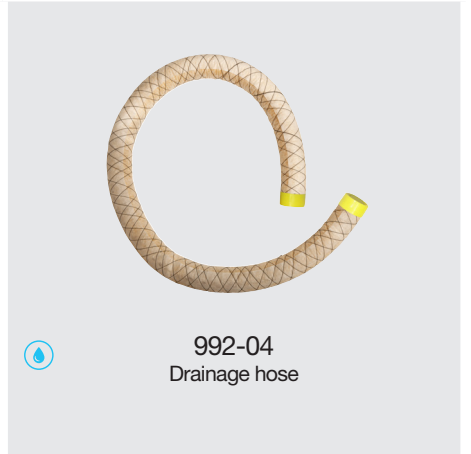
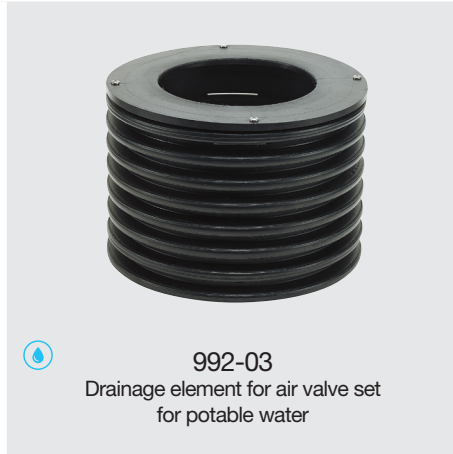
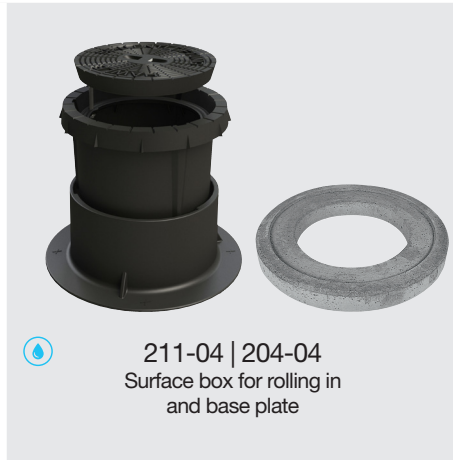


No.:	Description	Maximum operating pressure	Nominal diameter
992-00	HaVent® air valve set for potable water PN 16	16 bar	BAIO® spigot end DN 80, flange DN 50, flange DN 80
992-01	HaVent® air valve set for potable water PN 25	25 bar	Flange DN 80

# Installation situation of AVS 992-00 | 992-01



# Product supplements 987-00 | 987-03 | 992-00 | 992-01



# HaVent® air valve set 993-00

The air valve set (AVS) consists of a chamber with a shut-off device and an air release valve (ARV). Due to its compact design, the air valve set can be used instead of expensive, high-maintenance chamber models. Maintenance is made easy - by removing the replacement set. This eliminates all hazards associated with entering manholes.

The chamber cover is equipped with an integrated insect screen.

We recommend the installation of a drainage hose (order no. 490-04) in combination with backfilling consisting of material with good drainage properties.

The air valve set is available as a version with HaVent® PN 16; a version with HaVent® PN 25 is currently in preparation.

For a technical description of the respective valves, see page 3.

The shut-off unit in the air valve set can be opened or closed using a valve key (order no. 341-00). When closing the shut-off unit, the air valve set is

automatically depressurized. Manual pressure relief prior to maintenance is not required as the compressed air contained in the air release valve can escape via the automatic bleeding function of the shut-off unit.

The air valve set can be shortened as required down to 100 mm max. before installation at the installation site. Using accessories (order no. 993-04), the shaft can be extended at the installation site.



## Technical features:

- Chamber pipe: PE high-pressure pipe
- Base: GJS-400, Hawle epoxy powder coating
- Bonnet: PE high-pressure
- ARV housing: stainless steel
- With integrated shut-off device (Hawlinger 2")
- Vacuum-breaking function

## Special functions on request:

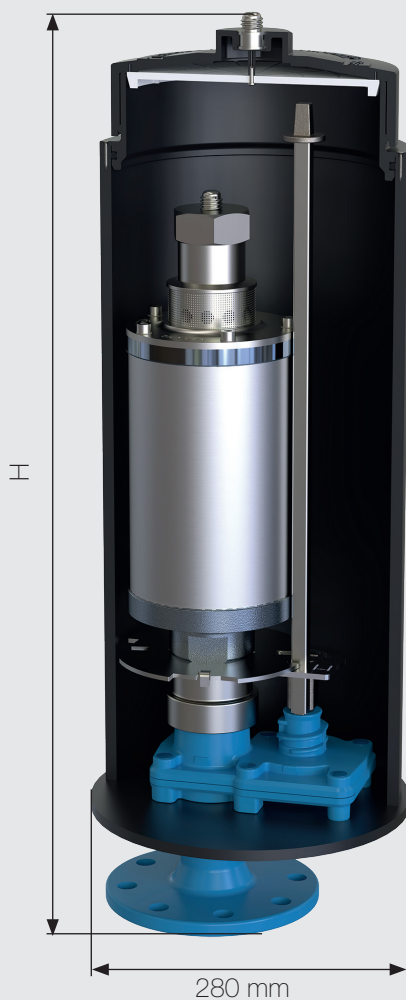
- With closing aid, for more active closing in the presence of large volumes of air (e.g., for well pipes between the pump and water treatment station, elevated tank or pure water container; well head for releasing the air from pressure line)
- Air release only (min. operating pressure: 0.2 bar)
- Flood protection
- Shaft extension

## Technical data

Medium:	Potable water
Operating temperature:	0 - 40 °C
Operating range:	PN 16: 0 - 16 bar PN 25: 0.2 - 25 bar (in preparation, instead of roll-on membrane with patented valve mechanism)
Pipe cover depths:	1.00 m, 1.25 m, 1.50 m, 1.75 m
Max. air release capacity:	PN 16: 700 m³/h* PN 25: 770 m³/h* (in preparation)
Air intake and air release cross section:	1,500 mm²
Cross-section for in-service air release:	PN 16: 200 mm²   PN 25: 3.14 mm² (in preparation)
Connection variants:	Flange DN 50, flange DN 80, BAIO® spigot end DN 80

\*During filling of pipeline

# HaVent® air valve set 993-00



Heights for version  
with flange connection

H = 815 mm = Pipe cover depth 1.00 m


H = 1,065 mm = Pipe cover depth 1.25 m

H = 1,315 mm = Pipe cover depth 1.50 m

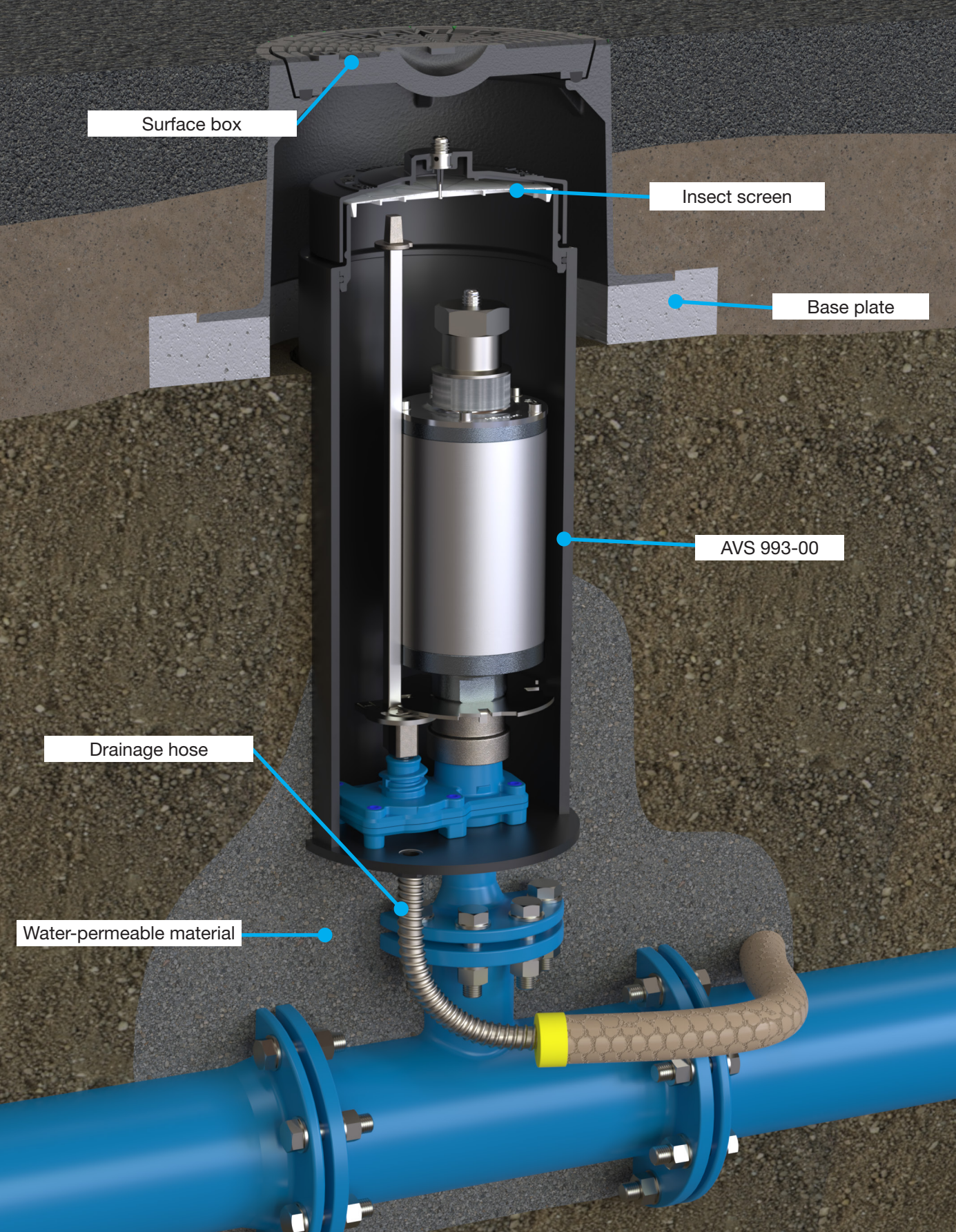
H = 1,565 mm = Pipe cover depth 1.75 m

993-00 - HaVent® air valve set PN 16

## Maximum operating pressure

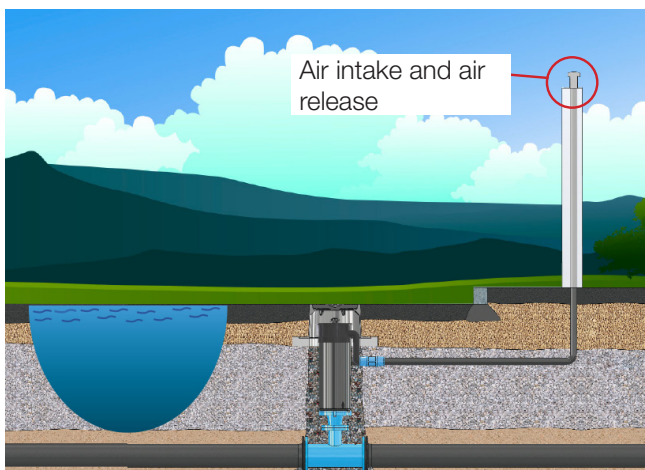
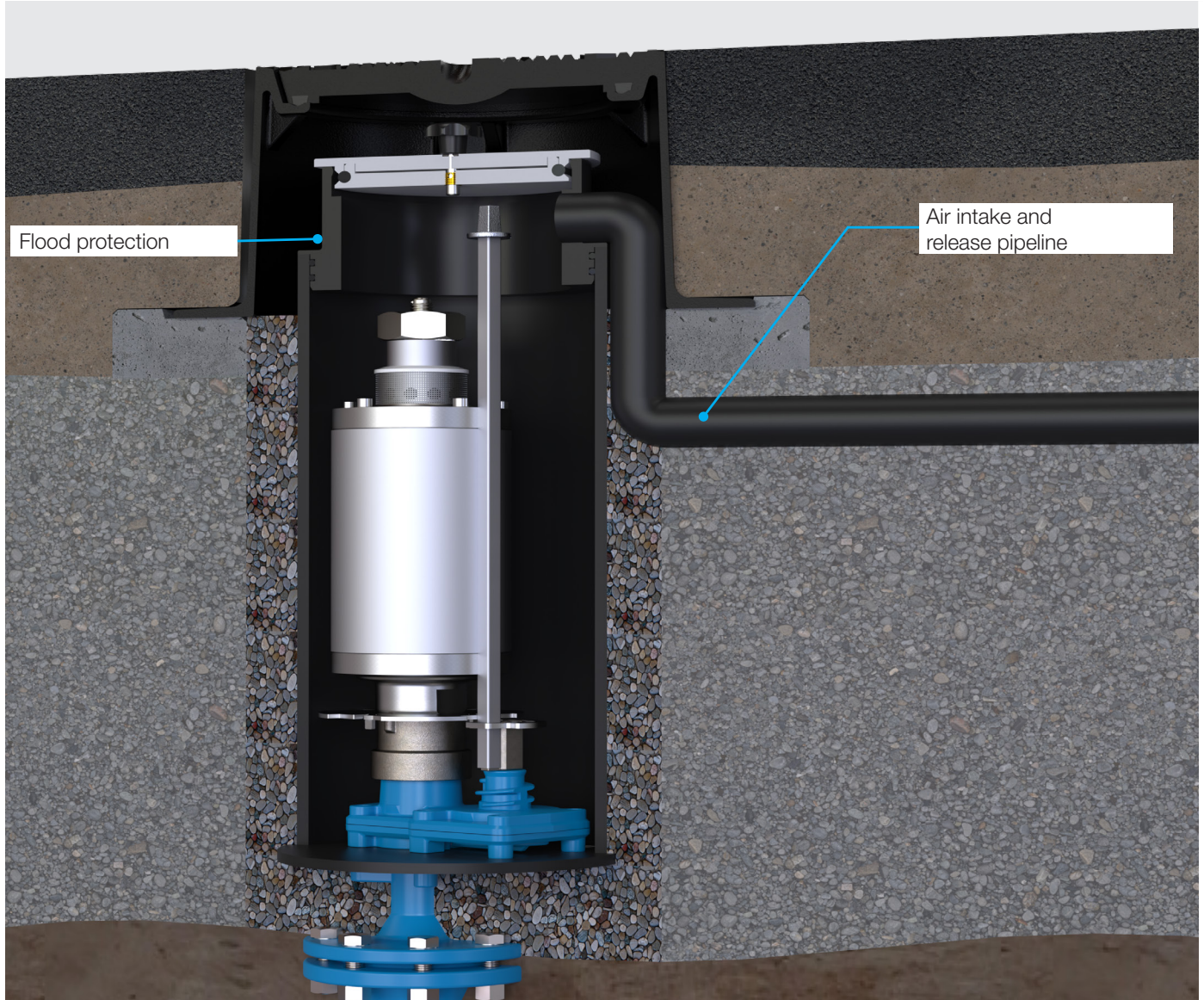
No.:	Description		Nominal diameter
993-00	HaVent® air valve set for potable water	16 bar	BAIO® spigot end DN 80, flange DN 50, flange DN 80
	HaVent® air valve set for potable water	25 bar	In preparation

# Installation situation of AVS 993-00

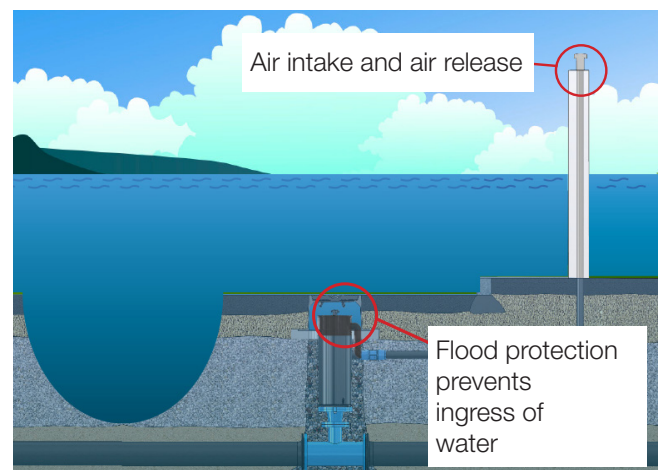


# Installation situation: Flood protection for 993-00

When the air valve set is to be installed in areas, where flooding can be expected, the flood protection can serve to prevent any penetration of waste water through the air release valve and further downstream into the potable water system.



Installation situation, normal



Installation site, flooded

# Product supplements AVS 993-00



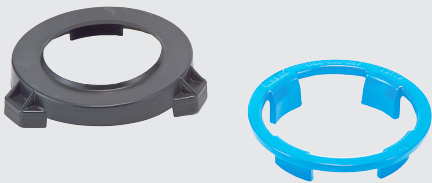
211-00 | 204-04  
Surface box and base plate



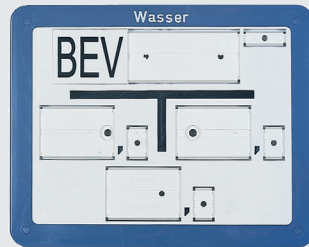
211-04 | 204-04  
Surface box for rolling in  
and base plate



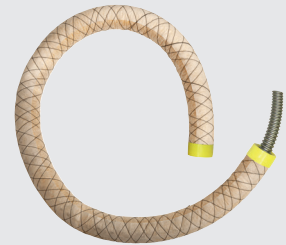
206-02  
Surface box  
for flood protection 993-01



490-05  
Dirt cover and locking ring\*  
\*for BAIO spigot end DN 80



986-02  
Indicator plate



490-04  
Drainage hose  
for AVS 993-00



993-01  
Flood protection  
for air valve set 993-00



993-02  
Installation tool  
for air valve set 993-00



993-04  
Shaft extension  
for air valve set 993-00



993-05  
Flushing and water tapping set  
for air valve set 993-00



341-00  
Operating key /  
valve key

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