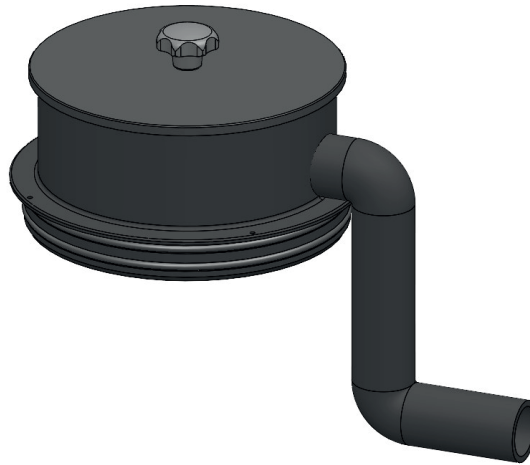


1. Intended Use / Product Description



Medium:	Potable water
Operating temperature:	0° to 40°C
Max. operating pressure:	25 bar
Material:	Housing/cover/spigot: PE Screws: stainless steel Seal: EPDM in accordance with UBA-KTW-BWGL

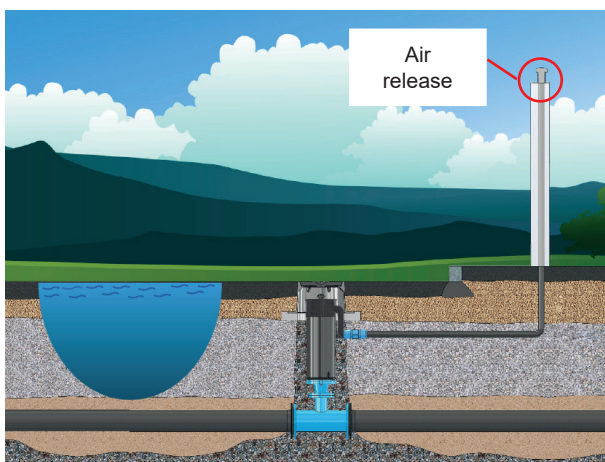
If the Air Release Valve Set Order No. 993-00 is installed in areas where flooding is possible, the flood guard Order No. 993-01 prevents the ingress of contaminated water into the air release valve and, in turn, into the drinking water network.

CAUTION: When using the flood guard, the street box Order No. 206-02 (see Accessories) must be used.

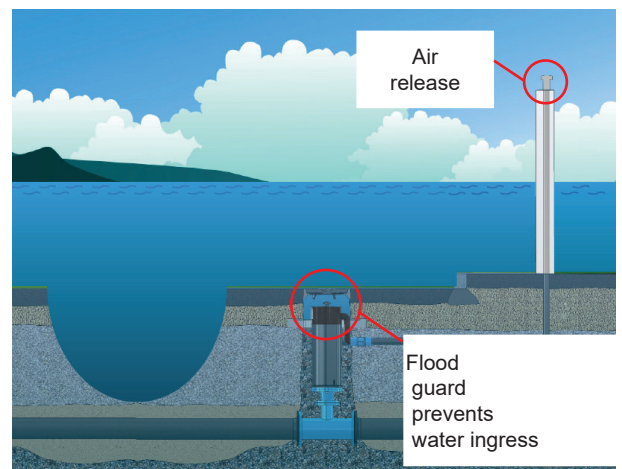
The flood guard consists of a flood cap with cover, an outlet spigot d 50, and a sealing plug. The ventilation pipe and the necessary connecting pieces, fittings, or transitions da 50 can be found under Accessories, for example. The air release line (PE pipe da 50) must be provided by the customer; a maximum length of 10 m should be observed.

The flood guard can also be retrofitted onto an already installed Air Release Valve Set Order No. 993-00. To do so, remove the installed street box, fit the flood cap, and then replace it with the matching street box (Order No. 206-02). In addition, seal the drain hole with the sealing plug supplied (a suitable tool/extension may be required).

The applicable standards and codes of practice, accident prevention regulations, and the requirements of the relevant trade associations must be observed and complied with during laying, installation, and maintenance. Laying, installation, and maintenance may only be carried out by suitably qualified personnel.



Normal installation situation



Flooded installation situation

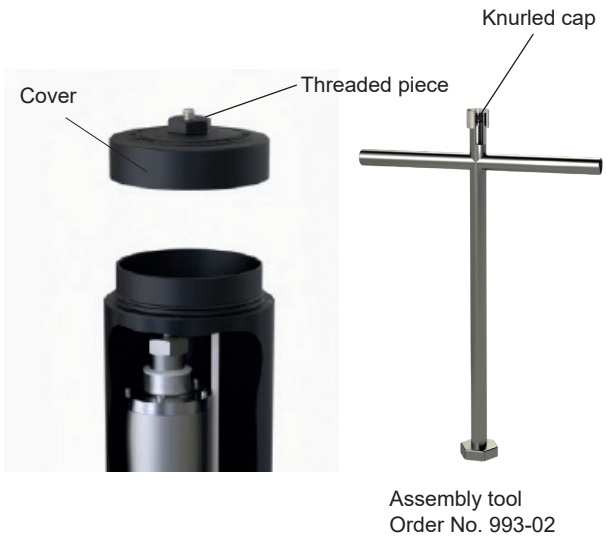
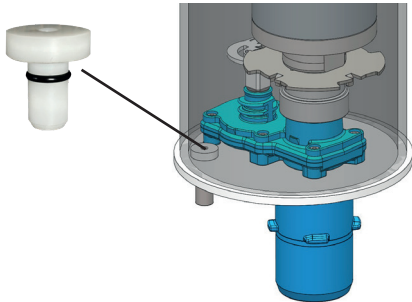
2. Accessories

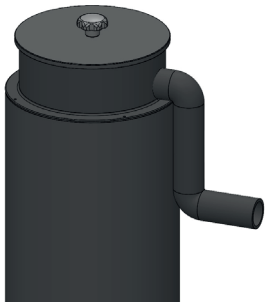
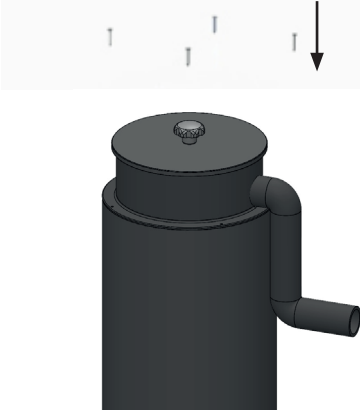
		
 993-02 Assembly tool for BEG 993-00	 206-02 Street box, rollable (For BEG 993-00 WITH flood guard)	 630-06 / 630-07 Connector with push-fit fitting on both sides da 50 / Connector with push-fit fitting on both sides and removable cone ring da 50
		Example image: 
 646-01 / 646-02 Angled rotating push-fit fitting ZAK46 da 50 / Angled rotating push-fit fitting ZAK46 with removable cone ring da 50	 551-00 Transition piece, flange DN 50, ZAK46 socket	 Ventilation pipe available on request

3. Installation

CAUTION: if the Air Release Valve Set is ordered together with the flood guard, factory assembly has already taken place. If the flood guard is ordered separately, proceed as follows.

	Assembly tool Order No. 993-02 (see Accessories) Cordless screwdriver or Phillips screwdriver PH2 Spindle grease, e.g. Order No. 600 000 0015 PE pipe da 50 Tool/extension with M8 external thread for fitting the sealing plug
---	---

1.	Remove the cover (1) using the assembly tool Order No. 993-02. To do so, place the assembly tool onto the hexagon of the cover and, using the tool's knurled cap, screw it clockwise onto the threaded piece (2) as far as it will go. Pull the cover (1) upward with the assembly tool. This releases the cover's snap-fit connections.	
2.	Remove the four sheet metal screws (4) from the transition ring (3) in the shaft pipe (9) and lift off the transition ring.	
3.	Insert the sealing plug (included in the scope of delivery) into the drain hole from above. Depending on the pipe cover depth, an M8 external-thread tool may be needed as an extension for fitting.	
4.	Grease the O-rings of the flood guard with spindle grease.	

5.	Insert the flood guard into the shaft pipe until the collar rests on the shaft pipe.	
6.	Hand-tighten the flood guard using the 4 sheet metal screws (4).	

4. Commissioning and Pressure Test

For commissioning and pressure testing the air release valve set Order No. 993-00, see the corresponding operating and maintenance instructions.

5. Maintenance and Servicing

The Hawle flood guard is maintenance-free.

For maintenance and servicing of the Air Release Valve Set Order No. 993-00, see the corresponding operating and maintenance instructions.



Caution: Careful monitoring of the system must ensure that no water can flow back into the drinking water pipeline via the air release line.

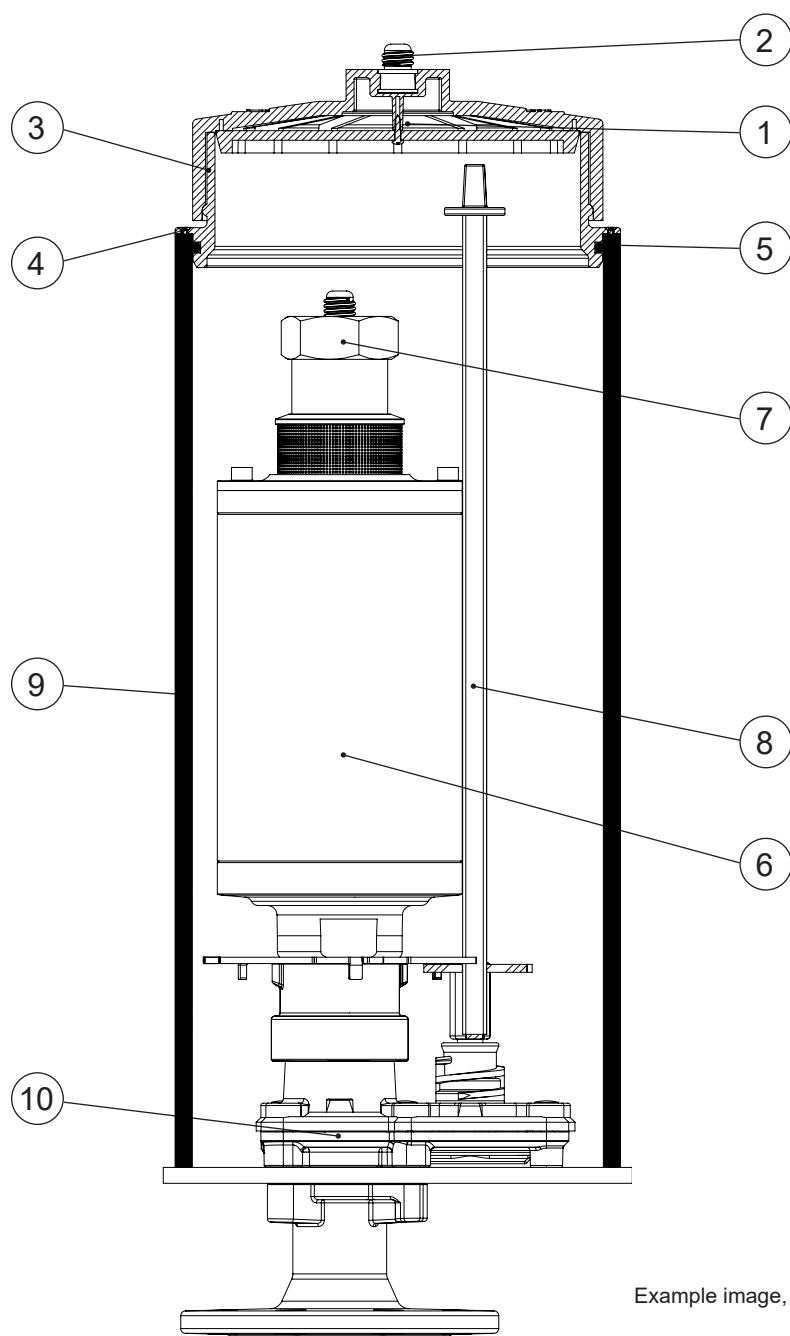
Since the drain of the air release valve set is sealed in the version with flood guard, any splash water that may occur during the venting process must be pumped out of the assembly at regular intervals, e.g. using a hand pump.

If you have any questions or require further information, please contact:

Hawle Deutschland Armaturen GmbH
 - Application Engineering -
 Liegnitzer Str. 6
 83395 Freilassing
 Phone: +49 (0)8654 6303-0
 E-mail: info@hawle.de
 Internet: www.hawle.de

Air Release Valve Set HaVent® PN 16 Order No. 993-00

Parts List



Example image, flange connection variant

No.	Qty.	Short Description	Material			
1	1	Cover for assembly with insect screen	PE	7	1	End cap
2	1	Threaded piece Rd20x1/8" DIN405	Stainless steel	8	1	Key rod
3	1	Transition ring Cover	PE	9	1	Shaft pipe
4	4	Sheet metal screw 3.9x32	Stainless steel	10	1	Shut-off unit
5	1	O-ring 245x6	NBR			- Spigot end DN80
6	1	Replacement valve assembly see separate parts list				- Flange DN50
						- Flange DN80
						Housing: GJS-400, Hawle epoxy powder coating
						Spindle, plug-disc drive, plug disc: stainless steel
						Seals: EPDM