



General Information

Air Release Valves & Air Release Valve Sets

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Automatic Air and Vacuum Valve for Potable Water

Model 992-00

HaVent Automatic Air Valve Set, 0 – 250 PSI (0 – 17.2 Bar).
(Valve incl. shaft for underground installation)

*993 HaVent 2" FNPT meets the requirements of AWWA
C-512-15*



No.	Component	Material
1	Base with drain-off	Epoxy powder coating
2	Shaft cylinder	Stainless Steel
3	O-ring	EPDM
4	HaVent Body	316 Stainless Steel
5	Yoke	Epoxy powder coating
6	Operating pipe	316 Stainless Steel
7	Centering cap	316 Stainless Steel
8	Centering screw	316 Stainless Steel
9	Cap	PE
10	Washer	316 Stainless Steel
11	Clamping ring	Epoxy powder coating
12	Tripod element	PA
13	BEG rubber plug	EPDM
14	Clamping pin	316 Stainless Steel
15	Hexagon bolt	316 Stainless Steel
16	Mesh hose	316 Stainless Steel
17	Outlet nipple	POM

Type	Maximum Operating Pressure PSI / Bar	Pipe Cover Depth ft. / m	Overall Height ft. / mm	Connection To Pipe Size	Weight lbs. / Kg
Thread	0 - 250 PSI 17.2 Bar	3.3 ft 1 m	2.7 ft 815 mm	2" FNPT	62 lbs 28 Kg
Thread	0 - 250 PSI 17.2 Bar	4.2 ft 1.25 m	3.6 ft 1115 mm	2" FNPT	70 lbs 33 Kg
Thread	0 - 250 PSI 17.2 Bar	4.9 ft 1.5 m	4.5 ft 1365 mm	2" FNPT	76 lbs 35 Kg
Thread	0 - 250 PSI 17.2 Bar	5.7 ft 1.75 m	5.3 ft 1615 mm	2" FNPT	84 lbs 38 Kg
Thread	0 - 250 PSI 17.2 Bar	8.4 ft 2.56 m	8 ft 2440 mm	2" FNPT	106 lbs 48 Kg
Flange	0 - 250 PSI 17.2 Bar	3.3 ft 1 m	2.5 ft 755 mm	3" Flange 150 lbs	64 lbs 29 Kg
Flange	0 - 250 PSI 17.2 Bar	4.2 ft 1.25 m	3.5 ft 1,055 mm	3" Flange 150 lbs	73 lbs 33 Kg
Flange	0 - 250 PSI 17.2 Bar	4.9 ft 1.5 m	4.3 ft 1,305 mm	3" Flange 150 lbs	79 lbs 36 Kg
Flange	0 - 250 PSI 17.2 Bar	5.7 ft 1.75 m	5.1 ft 1,555 mm	3" Flange 150 lbs	86 lbs 39 Kg
Flange	0 - 250 PSI 17.2 Bar	8.7 ft 2.64 m	8 ft 2440 mm	3" Flange 150 lbs	109 lbs 49 Kg

Automatic Air and Vacuum Valve for Potable Water



Applications:

- Large outlet cross section for maximum air release and intake capacity during pipeline filling or draining; opening size: 2". Air release cross section for reliable air release during operation; opening size: 1"
- Automatic Air Release Valve is removable under pressure.
- All maintenance and repair work for this air valve set can be done from the surface, avoiding all the dangers related to manhole access. **Eliminate confined space entry, acc. to OSHA regulations.**

Valve Maintenance:

- Due to the automatic shut-off function, the air valve set can be easily installed and dismantled under pressure for maintenance purposes. **MAINTENANCE ONCE PER YEAR IS RECOMMENDED!**

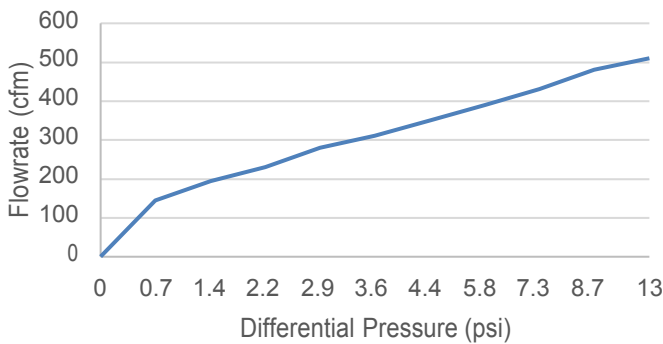
Installation:

- Drain off the accumulated rainwater by proper backfilling from the pipeline to the hood. The drainage backfilling is also necessary for removing splash water drained off through the drain-off fitting (1/2" push-fit fitting).
- For installation in ground water applications, additional measures are required (e.g., closing the drain-off fitting).

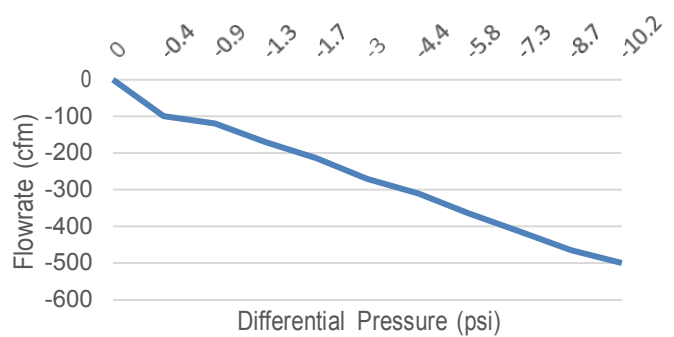
Flood protection:

- For installation in areas where floods have to be expected, the installation of an additional flood protection device can prevent flood water from flowing back into the air valve set and subsequently into the potable water system. For detail see model 992FP (order separately).

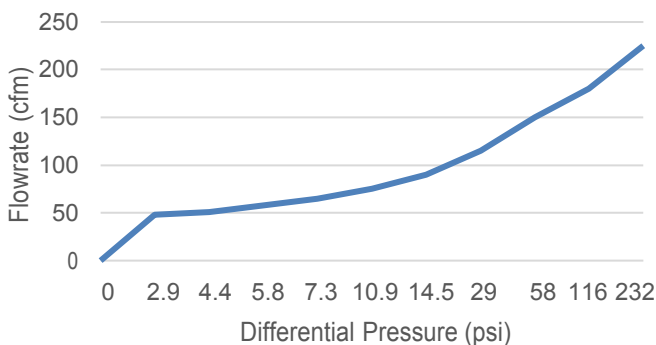
Maximum Air Release Capacity



Vacuum Flowrate



Air Release Flowrate



Features:

- Air release and intake during operation from: 0 – 250 PSI (0 – 17.2 Bar)
- Maximum Air Release Capacity: 3,350 Gallons/minute (450 cfm or 770 m³/h)
- Connections: 2" FNPT Thread and 3" ANSI Flange
- Virtually spill proof
- Vacuum breaking function
- All corrosion resistant materials, Automatic Air Release Valve is certified according to **NSF/ANSI 61 & 372**

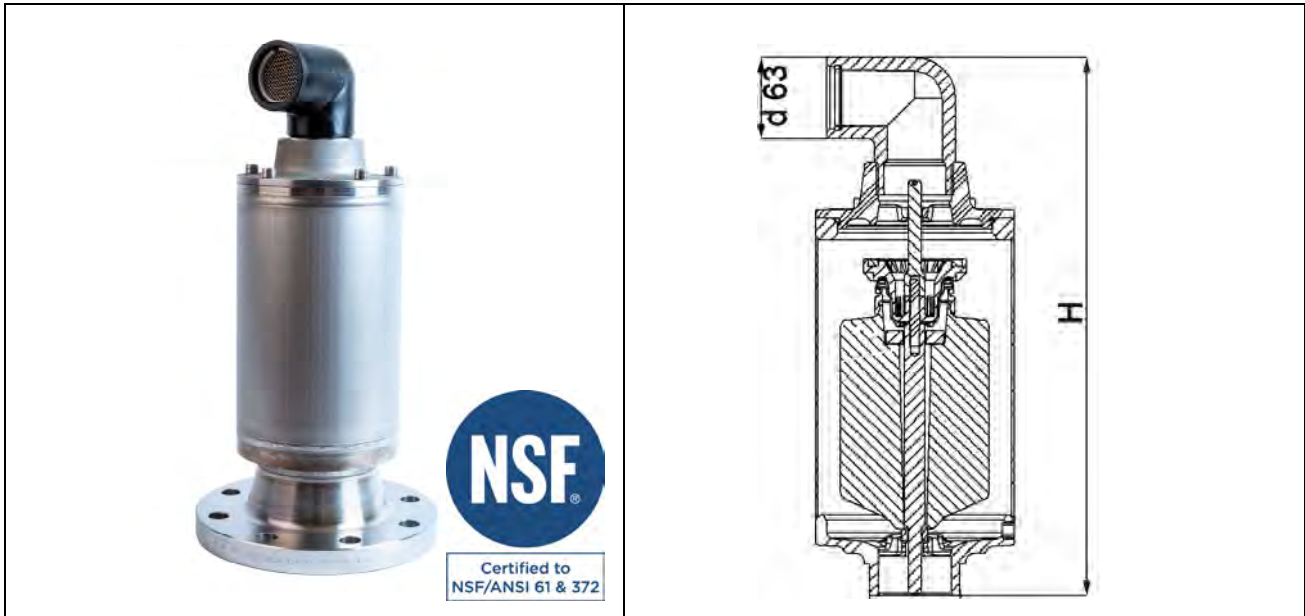
Automatic Air and Vacuum Valve for Potable Water



Model 993-00

HaVent[®] - Automatic and infinitely variable air valve for potable water for operating range: 0 – 250 PSI (PN16)

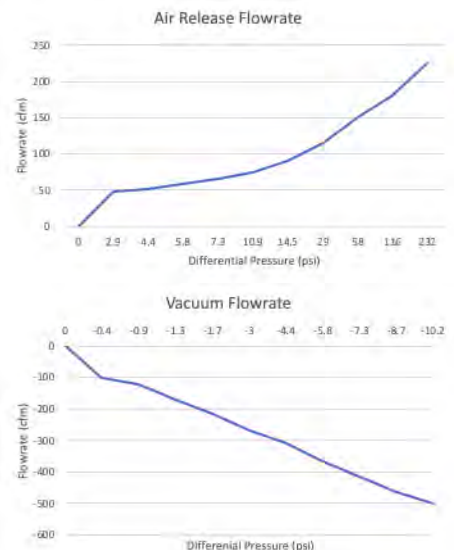
HaVent 2" FNPT meets the requirements of AWWA C-512-15



Type	Size	Range of Pressure PSI/Bar	Overall Width Inch/mm	Overall Height H Inch/mm	Weight lbs./Kg
Thread	2" FNPT	0 – 250 PSI 0 – 16 Bar	6" 154 mm	16.5" 420 mm	24 lbs. 11 Kg
Flange	4" ANSI	0 – 250 PSI 0 – 16 Bar	6" 154 mm	18.5" 470 mm	33 lbs. 15 Kg

Materials:

Component	Material
Body	Stainless steel 316
Diaphragm	EPDM
Float	Polypropylene
Outlet elbow with screen	Polyethylene



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Automatic Air and Vacuum Valve for Potable Water



HaVent[®] Valve mechanism

Large outlet cross section for maximum air release and intake capacity during pipeline filling or draining.

Transverse section: 2.3 in²

Large air release cross section for reliable air release during operation.

Transverse section: 0.3 in²

Corrosion resistant body of stainless steel 316

Robust float of Polypropylene



HAVENT 250 psi version

HaVent[®] Performance features

- Very high air release and intake during operation infinitely variable from: 0 to 250 psi (16 bar)
- Max. air release capacity: 3,700 gal/m (500 cfm)
- Vacuum breaking function
- Corrosion resistant materials
- Ultraviolet resistance
- Ease of maintenance
- Virtually spill proof

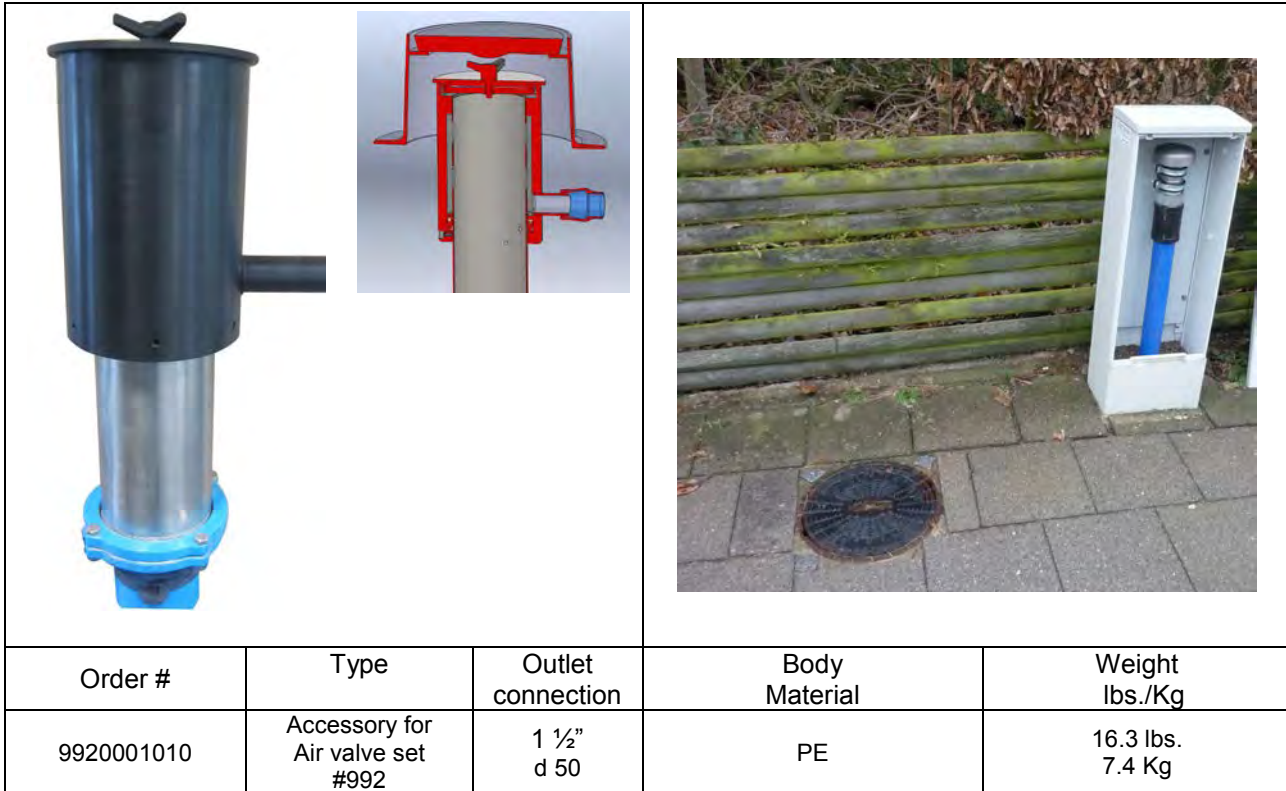


Automatic Air and Vacuum Valve for Potable Water



Model 992FP

Flood protection for HaVent automatic air valve set, H-TEC model 992



Order #	Type	Outlet connection	Body Material	Weight lbs./Kg
9920001010	Accessory for Air valve set #992	1 1/2" d 50	PE	16.3 lbs. 7.4 Kg

Features:

For below ground installation in addition to an H-TEC HaVent automatic air valve set model 992. This flood-proof device is retrofittable to existing set installations under pressure.

Below ground installation with pipe extension either through:

1. PE connector 1 1/2" / d50
2. Welding sockets
3. Butt-welding

The height of the exhaust air pipe is variable.

Waterproof up to 16 ft. / 5 m water column.

Advantages:

- Easy maintenance: open the waterproof lid for access to the air release valve.
- Less public space consumption
- Flexible positioning of pipe extension
- Accident-proof installation

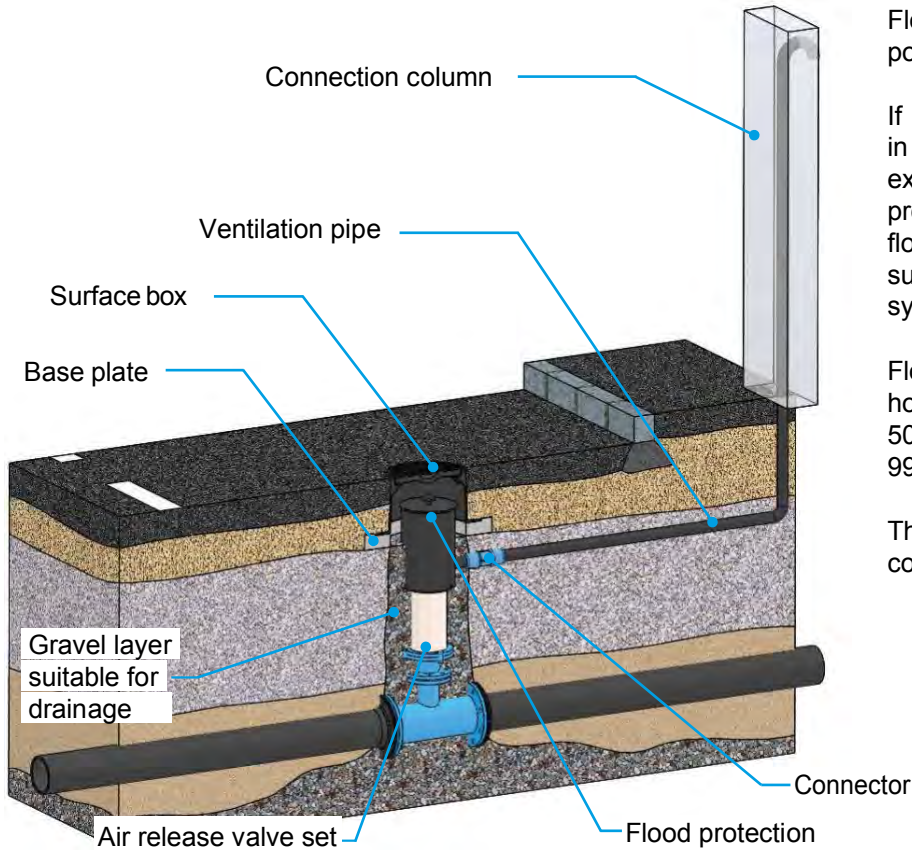
Scope of delivery: PE chamber with gasket and screw cap

Outlet pipe: PE d50 (1 1/2"), 0.7" / 18 mm long

General Information

Air Release Valve Sets Accessories

Flood protection for air release valve set for potable water (Model. 992 FP)



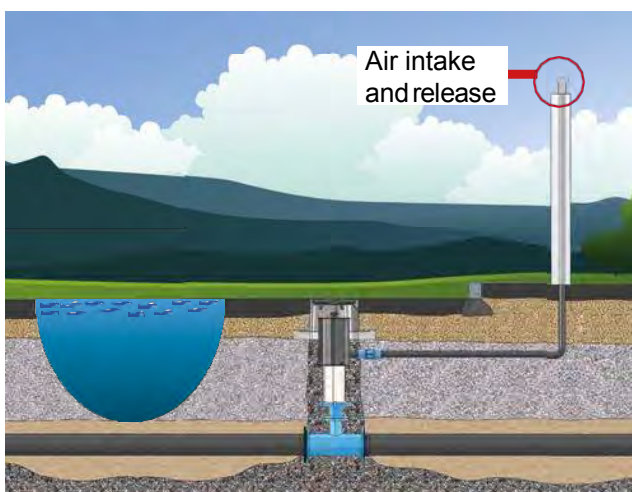
Flood protection for air valve sets for potable water (Model: 992 FP)

If the air valve sets 992 is installed in areas where floods have to be expected, the installation of a flood protection can prevent dirty water from flowing back in via the air valve and subsequently into the potable water system.

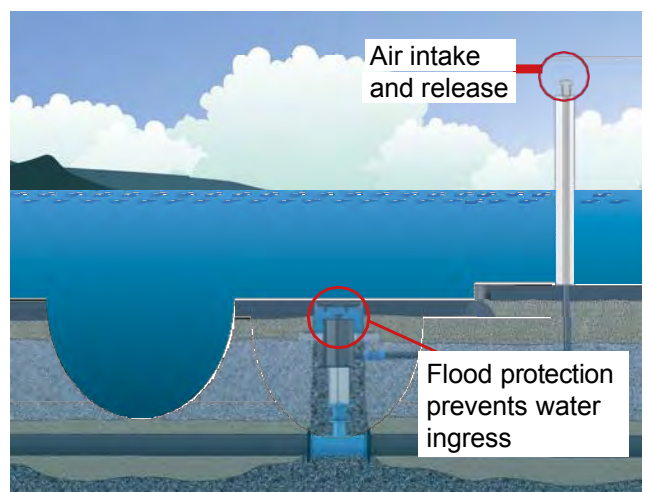
Flood protection, consisting of a flood hood with cover and outlet connection 50 mm for air valve set Model: 992-00

The ventilation pipe and the connection column must be provided individually.

Example of application (possible installation variant)



Normal installation situation

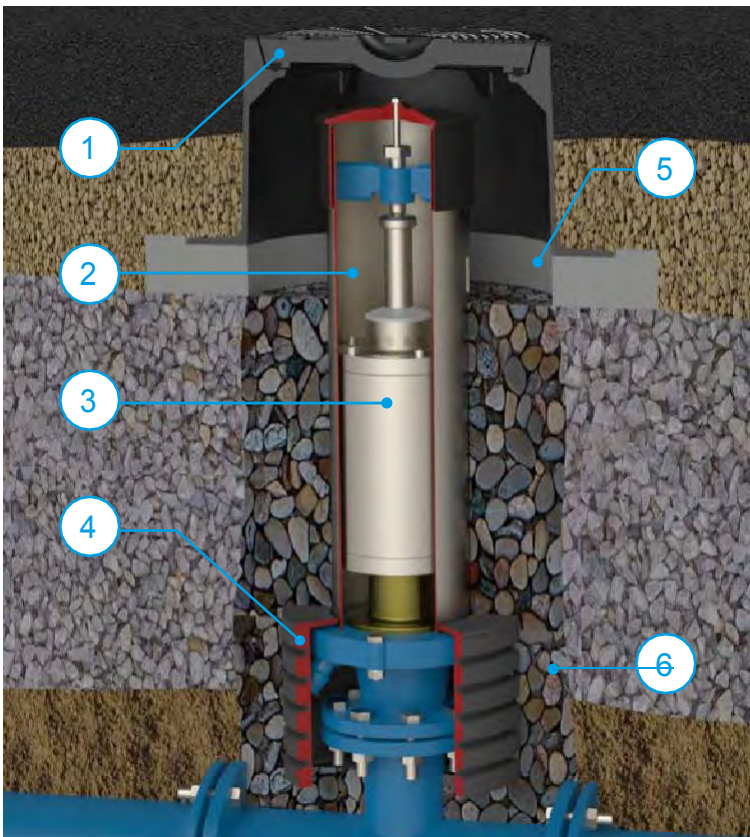


Installation situation when flooded

General Information

Air Release Valve Sets

Installation situation - buried installation (potable water):



Caption

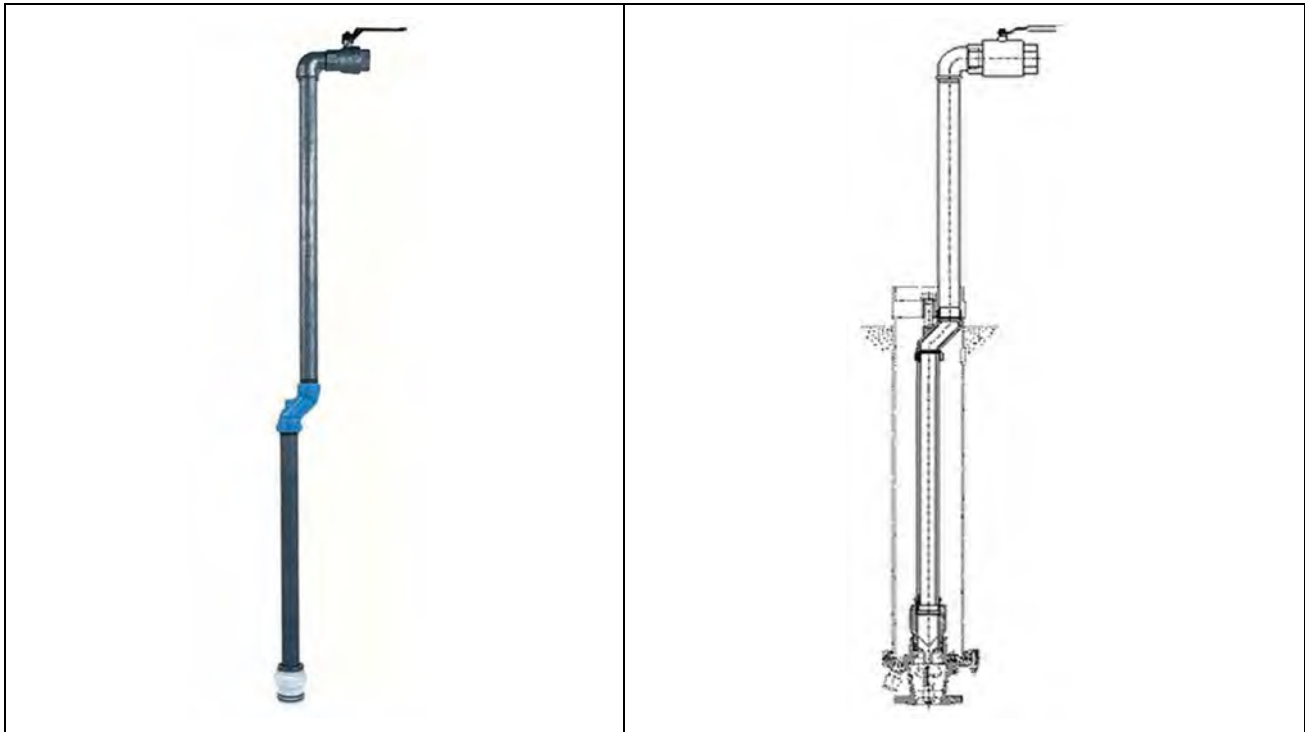
1. Surface box
2. Standpipe
3. Air Release Valve HaVent®
4. Drainage element
5. Base plate for surface box
6. Gravel layer suitable for drainage

Automatic Air and Vacuum Valve for Potable Water



Model 9922

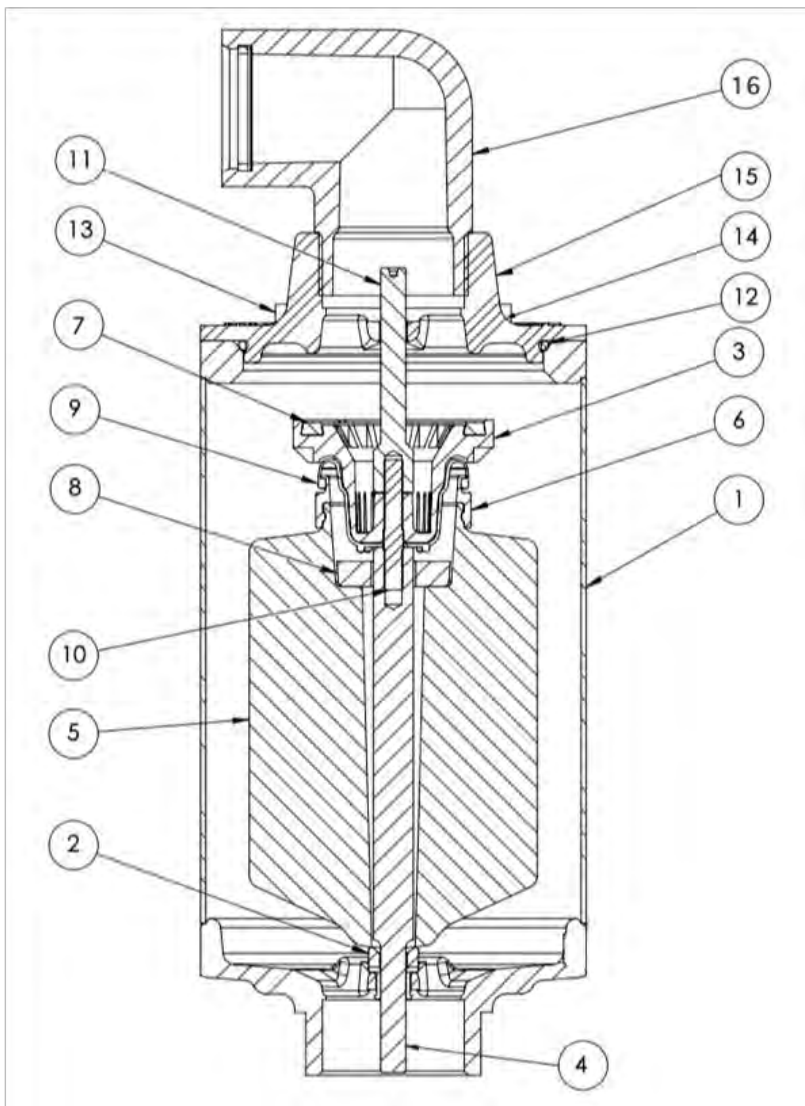
Water Tapping Set for the 992 Air Valve Set



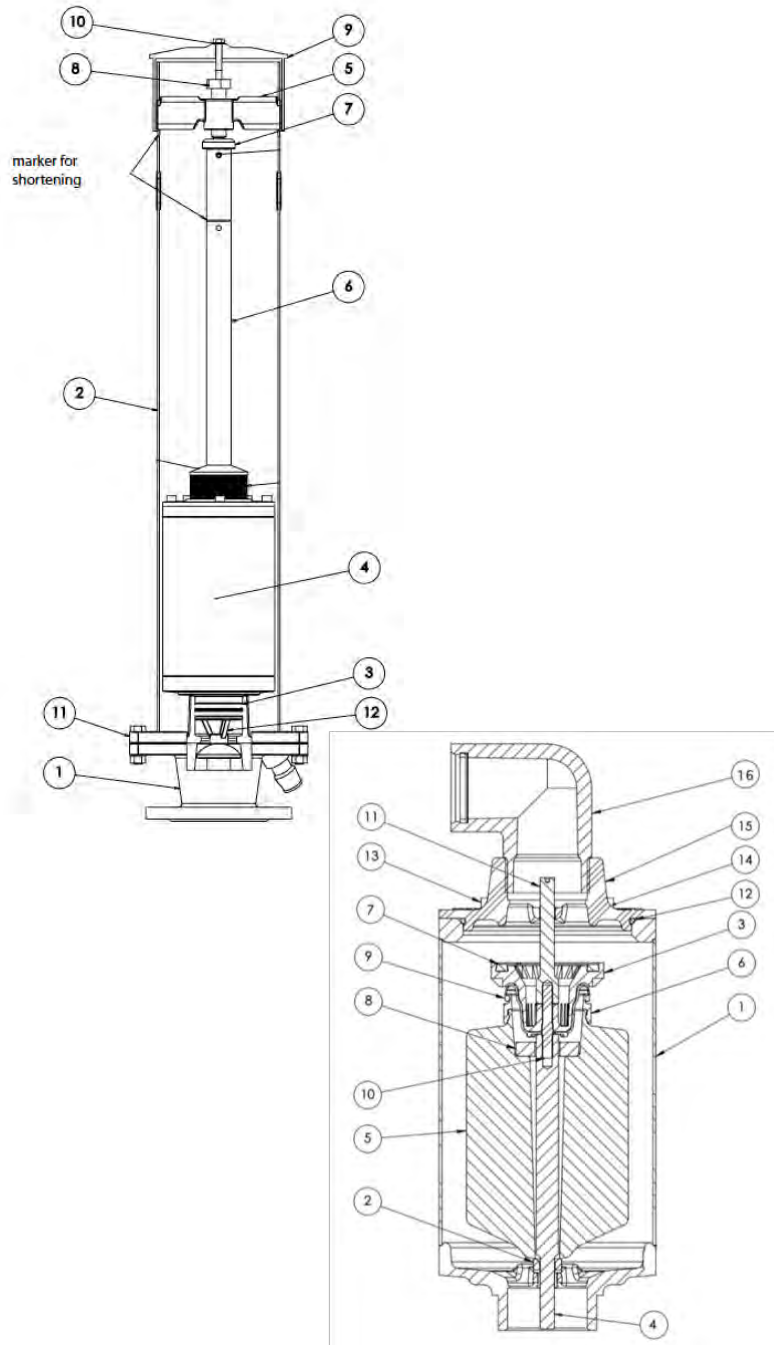
Type	Pipe Cover Depth Inch/meter	Overall Height Inch/mm	Overall Weight lbs./Kg
Plug-In	3.3 ft / 1 m	2.5 ft / 755 mm	12.3 lbs / 5.6 kg

Materials:

Component	Material
Pipe and Elbow	316 Stainless Steel
Fitting	Epoxy Coated Ductile Iron
Ball Valve	316 Stainless Steel
Push Fitting	POM, EPDM



No.	Description	Material	Part Number
1	Body	316 Stainless Steel	8889872635
2	Quick shot device (optional)	POM	98781570
3	Vent cage	POM	9878000400
4	Guide rod w. screw	POM	98780520
5	Float	PP Homopolymer	9878000300
6	Diaphragm cup adapter	POM	Contact Rep
7	Vent cage gasket	EPDM	9878000400
8	Compensating disk	POM	98780330
9	Diaphragm	EPDM	98781605
10	Grub screw	316 Stainless Steel	Contact Rep
11	Guide rod, upper part	POM	98780610
12	O-ring 145x4 mm	EPDM	98780805
13	Hexagon screw	316 Stainless Steel	Contact Rep
14	Flat washer	316 Stainless Steel	Contact Rep
15	Upper air valve	316 Stainless Steel	Contact Rep
16	Outlet elbow	Polyethylene	9878001300



No.	Description	Material
1	Base with drain-off	Epoxy powder coating
2	Shaft cylinder	316 Stainless Steel
3	O-ring 60x6 mm	EPDM
4	Havent	316 Stainless Steel
5	Yoke	Epoxy powder coating
6	Operating pipe	316 Stainless Steel
7	Centering cap	316 Stainless Steel
8	Centering screw with ball	316 Stainless Steel
9	Cap	PE
10	Washer	316 Stainless Steel
11	Clamping ring	Epoxy powder coating
12	Tripod element	PA

No.	Description	Material	Part Number
1	Body	316 Stainless Steel	8889872635
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3	Vent cage	POM	9878000400
4	Guide rod w. screw	POM	98780520
5	Float	PP Homopolymer	9878000300
6	Diaphragm cup adapter	POM	Contact Rep
7	Vent cage gasket	EPDM	9878000400
8	Compensating disk	POM	98780330
9	Diaphragm	EPDM	98781605
10	Grub screw	316 Stainless Steel	Contact Rep
11	Guide rod, upper part	POM	98780610
12	O-ring 145x4 mm	EPDM	98780805
13	Hexagon screw	316 Stainless Steel	Contact Rep
14	Flat washer	316 Stainless Steel	Contact Rep
15	Upper air valve	316 Stainless Steel	Contact Rep
16	Outlet elbow	Polyethylene	9878001300