

Fact Sheet Flowise

Air Release Chamber off-line

Controlled air management

Elimination of unwanted air during water distribution

The air release chamber is installed at high points in pipeline systems to remove accumulated air and maintain reliable hydraulic performance. During operation, entrained air separates from the water and collects at elevated locations, where it can impair flow efficiency. With the off-line version of the air release chamber, the pressure pipe is not the main pipeline but a separate, smaller pipe coming from the main pipeline connected by a t-branch, or at an end point. The chamber operates without external power and also prevents siphoning under negative pressure conditions, protecting the system from uncontrolled drainage and ensuring stable operation during pump start-stop cycles.



Up to 70 % faster installation*

Pre-assembled, plug-and-play design reduces installation time, labor, and site disruption.

*compared to traditional materials such as concrete



Safe installation in high groundwater conditions

Oversized Weholite® bottom provides counterweight stability—no additional anchoring required.



Up to 100-year service life

Durable polyethylene chamber ensures outstanding long-term performance.



Peace of mind

Expert engineering with high-quality GF components.

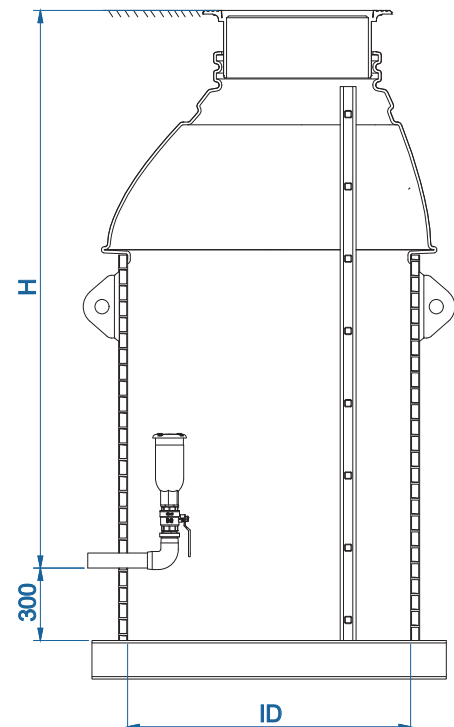


Reduced operational costs

Increases energy efficiency and system reliability.

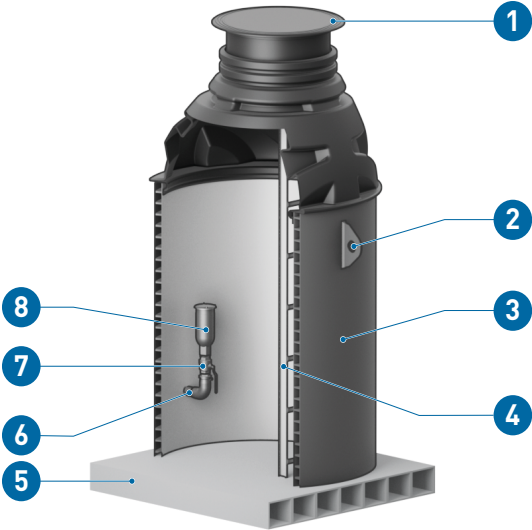
Technical data

Application	Potable Water System
Material	PE 100
Color	Black (outside), white (inside)
Medium	Water
Temperature ambient	- 40 °C to 50 °C
Temperature material	0 °C to 40 °C
Ring stiffness	SN2, SN4, SN8 or by agreement
Technical chamber body inner diameter (ID)	Customizable
Technical chamber height, inlet pipe to technical chamber top (H)	Customizable
Nominal pressure PN	Up to PN 16
Anchoring variants	Self-anchoring base plate
Approvals	National Attestation of Conformity of the Hygienic Suitability of Drinking Water (DVGW-Konformitätsbestätigung Hygiene)
Standards	EN 13598, EN 13476 (tanks/chambers), EN 1074 (valves), EN 12201 (piping), EN 1092 (flanges)
Local regulations	Germany: DVGW Codes of Practice



Components

Pos.	Designation
1	Technical chamber top
2	Lifting yoke
3	Technical chamber body PE 100
4	Ladder (optional)
5	Self-anchoring base plate
6	Pressure pipe
7	Ball valve/Gate valve
8	Air release valve



Customizable components

- Technical chamber body PE 100 dimensions
- Technical chamber top type and size
- Pressure pipe diameter (D)
- Vent valve type (1 way, 2 way, 3 way)
- Vent valve size (1", 2", DN 50, DN 80, DN 100)
- Riser height

Technical chamber dimensions								
ID [mm]	1000	1200	1400	1600	2000	2400	3000	other

Technical chamber top types and sizes (selection)				
Type A	Type B	Type C	Type D	Type E
ø860/800 Safety gate	600x600 metal 800x800 metal	ø600 CI 40tn ø630 CI 40tn	ø630 CI 40tn ø800 CI 40tn	ø600 no lid ø800 no lid ø1000 no lid
				

Optional components

- Ladder
- Handrail
- Pressure gauge
- Spool valve and connection

Item number

Item no.	Description
35001140531	Air release chamber



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