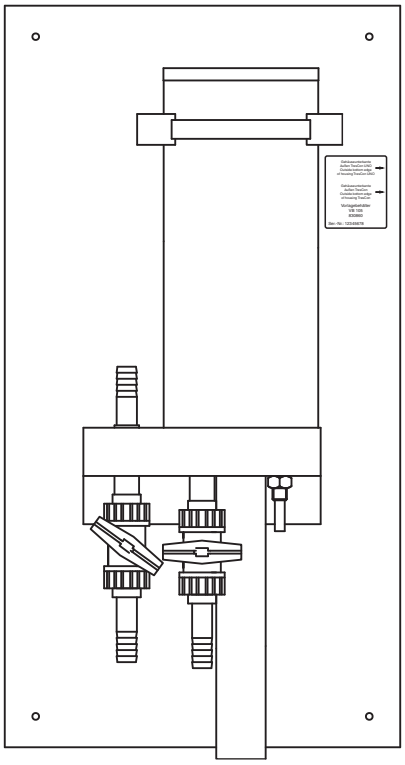
INSTALLATION MANUAL

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VB 105

OVERFLOW VESSEL

WTW

a xylem brand

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1 Overview

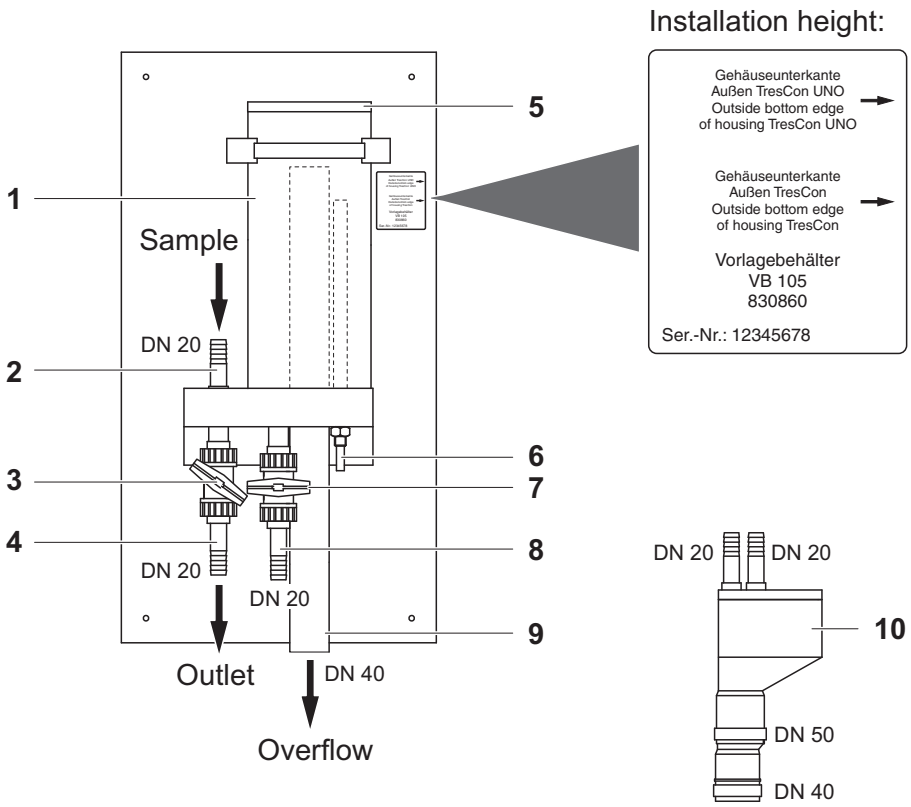


Fig. 1-1 VB 105

1 Overflow vessel
2 Sample inlet
3 Backpressure valve
4 Sample outlet
5 Removeable lid
6 Outlet to the analyzer
7 Drain valve
8 Drain outlet (for cleaning)
9 Central overflow pipe
10 Collection funnel (see section 2.2.3)

2 Commissioning

2.1 Scope of delivery

Scope of delivery of the VB 105:

- Overflow vessel, mounted on mounting plate
- Collection funnel
- 2 m Norprene tubing, inner diameter 6.4 mm
- Installation manual

2.2 Installation

Note
All position numbers in this paragraph refer to the figure on page 5.

2.2.1 Mounting the overflow vessel

Wall mounting of the overflow vessel

Mount the overflow vessel on a wall left of the analyzer to be supplied. The distance between the overflow vessel and the analyzer should be as small as possible (max. 2 meters).

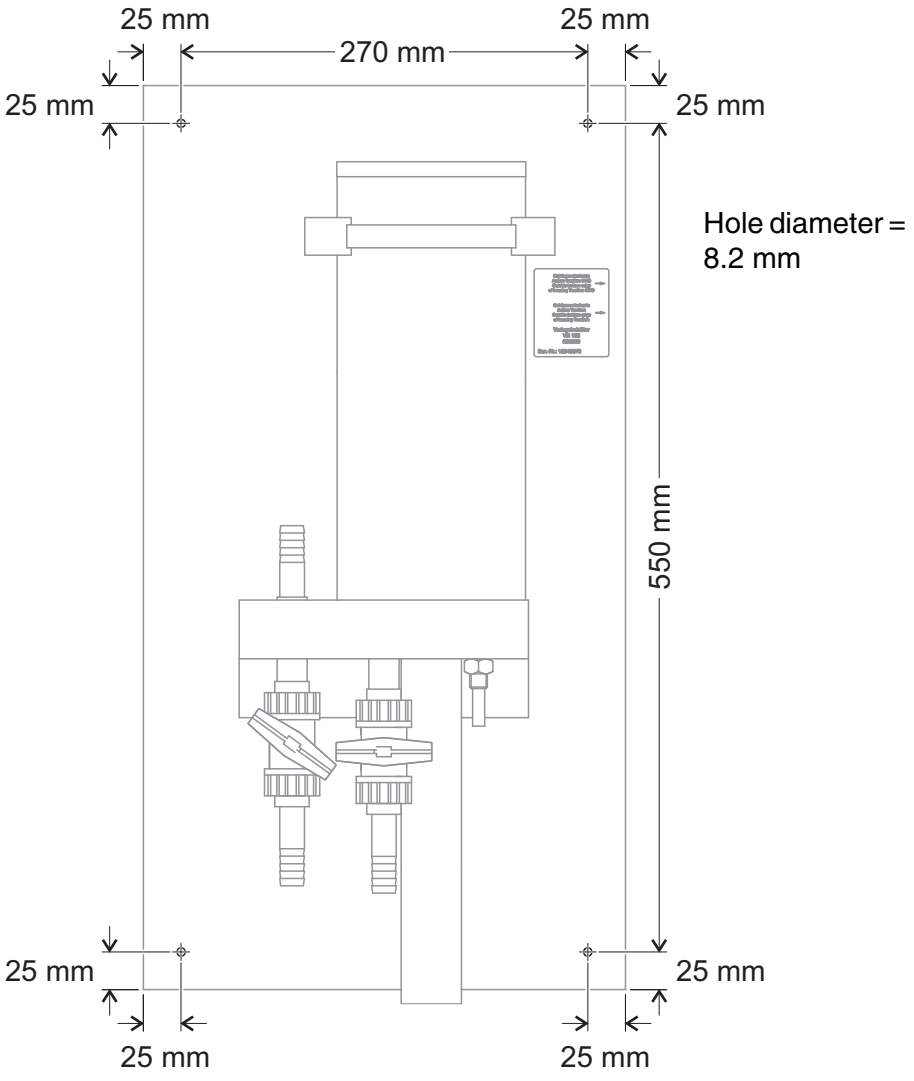


Fig. 2-1 Hole spacings

Mounting height

The height of the overflow vessel relative to the analyzer is important for a correct sample flow to the analyzer. Reference point is the bottom edge of the analyzer housing. Adjust the overflow vessel so that the respective arrow on the name plate is at the same height as the reference point (see Fig. 1-1 on page 5).

2.2.2 Connections

Note
All position numbers in this paragraph refer to the figure on page 5.

General installation instructions

When installing the drain system, observe the following points:

- Use a tubing with an inner diameter of 19 mm / ¾ " (e. g. PZ 105) to connect the pressure tube connection glands.
- The drain into the basin or the drain channel must be open (no backpressure!).
- Select sufficient nominal diameters of the outlet tubings.
- For the drain use pipe bends only (no angles!).
- All drain pipes in the ground must have a steady gradient.

Sample tubing

Connect the overflow vessel to the analyzer using the Norprene tubing provided. Shorten the tubing to the length required.

Submersible pump

The submersible pump must be able to provide a 6 to 11 m³/h sample flow through the overflow vessel. Use a tubing with an inner diameter of 19 mm / ¾ " (e. g. PZ 105) to connect the submersible pump. Connect the submersible pump to the sample inlet (pos. 2).

Sample outlet

Depending on the conditions at the installation location, the drain system can be designed in different ways:

- Separate effluent from the discharge nozzles and the central overflow pipe into a drain pipe or back to the catch location.
- Common effluent via the collection funnel (pos. 10) into the local drain system. How to mount the collection funnel is described in section 2.2.3 MOUNTING THE COLLECTION FUNNEL.

2.2.3 Mounting the collection funnel

You can mount the collection funnel directly under the overflow vessel and insert the central overflow pipe directly into the opening on the funnel lid. Connect the two discharge nozzles with suitable lengths of tubing to the connection pieces on the funnel lid (see Fig. 1-1).

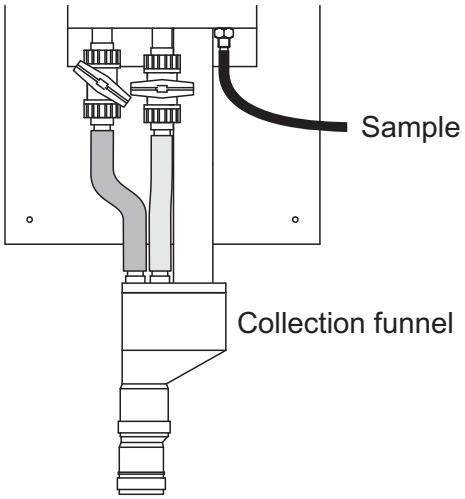


Fig. 2-2 VB 105 with collection funnel

2.3 Initial commissioning

Observe the following order when switching on the submersible pump:

1	Close the drain valve (right-hand side).
2	Completely open the backpressure valve (left-hand side).

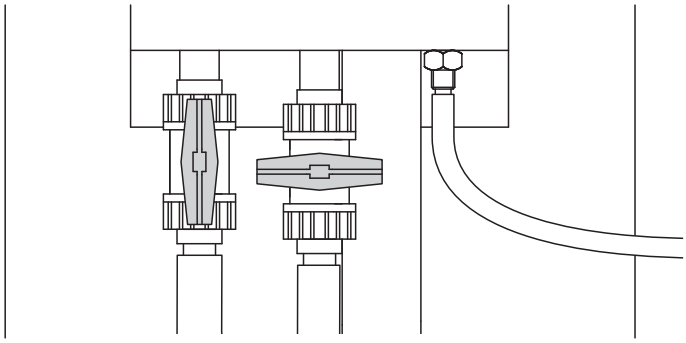


Fig. 2-3 Valve position during switching on

3	Switch on the submersible pump.
4	Adjust the sample flow by slowly closing the backpressure valve so that the sample partly drains off via the central overflow pipe. The analyzer is supplied with sample.

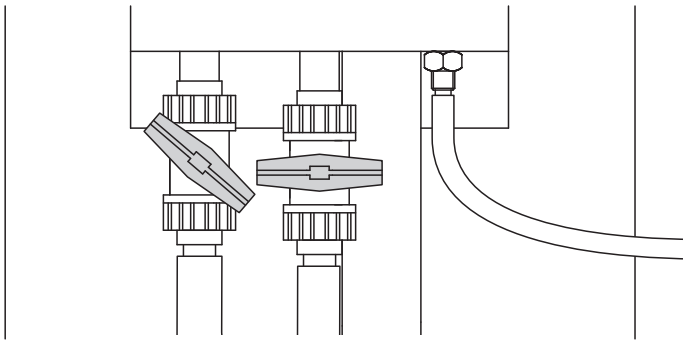


Fig. 2-4 Valve position in throttling position

3 Maintenance, cleaning

Maintenance: The VB 105 does not require special maintenance. We merely recommend to drain the container contents via the drain valve (right-hand side) once a week in order to remove sludge and particles present.

Cleaning For a thorough cleaning, open the lid of the overflow vessel and remove any sludge and overflow present. After cleaning thoroughly rinse the container with clean tapwater while the the drain valve is open, until the container is free of sludge residues and particles.

4 Technical data

Dimensions

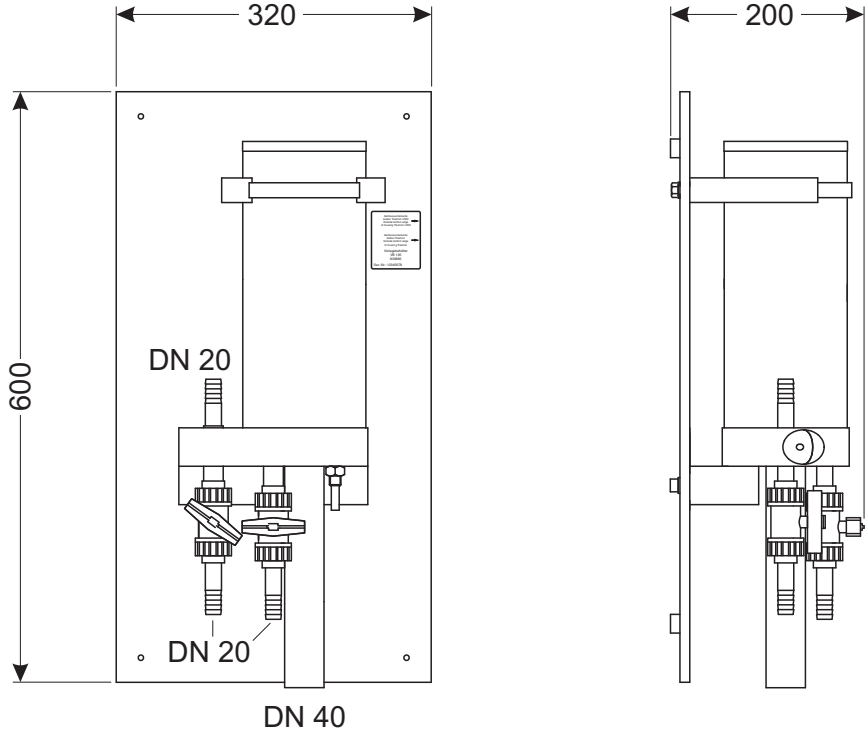


Fig. 4-1 Dimensional drawing of the VB 105

Material	Base plate, overflow vessel, pipe components	PVC

required sample flow	minimum	6 m³/h
	maximum	11 m³/h

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