

CTS-P System

with automatic filter cleaning

Filtration of moderately contaminated wastewater

Application

The CTS-P system has been specifically designed for sample preparation for online analyzers and indoor installation. Thanks to periodic compressed-air backflushing, the system is particularly suitable for measurements in activated sludge tanks and at the outlets of municipal wastewater treatment plants, as well as for industrial wastewater with moderate levels of contamination.

Depending on the application, the complete system consists of a CTS-P panel for indoor installation, an optional tank mounting bracket, and a filter probe.

Operating Principle

A low-maintenance diaphragm pump draws the permeate from the wastewater through a submerged filter probe. The extracted permeate is then conveyed through tubing on the pressure side to the measuring instrument.

Regular compressed-air flushing ensures effective cleaning of the filter probe. The cleaning intervals can be individually configured in the control program and adapted to the specific conditions at the installation site.

The compressed air required for cleaning must be supplied by an external compressed-air source and connected to the system.

Design & Components

The immersed CTS-P filter probe is connected via a suction line to the diaphragm pump integrated into the CTS-P panel. By generating a vacuum, the permeate is drawn through the membranes and then transported to the measuring instrument via a pressure line.

The customer-provided compressed air supply can be integrated into the system. An integrated pressure regulator allows the pressure to be reduced to 4 bar.

The filter probe is immersed in the tank or channel using a mounting bracket. It consists of a membrane insert and an upper and lower probe section. Different membrane inserts are available to meet the requirements of various applications.

When required, the membrane insert can be quickly and easily replaced with a cleaned or new insert. The low weight of the immersed filter probe also makes handling considerably easier.



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FILTRATION TECHNOLOGY

Wir bieten Lösungen!

Advantages

- Filter probe cleaning with compressed air
- Lightweight filter probe
- Solids-free sample
- Short response time due to the low sample volume
- High operational reliability
- Suitable for aeration tanks and effluent applications
- Suitable for use in tanks and channels

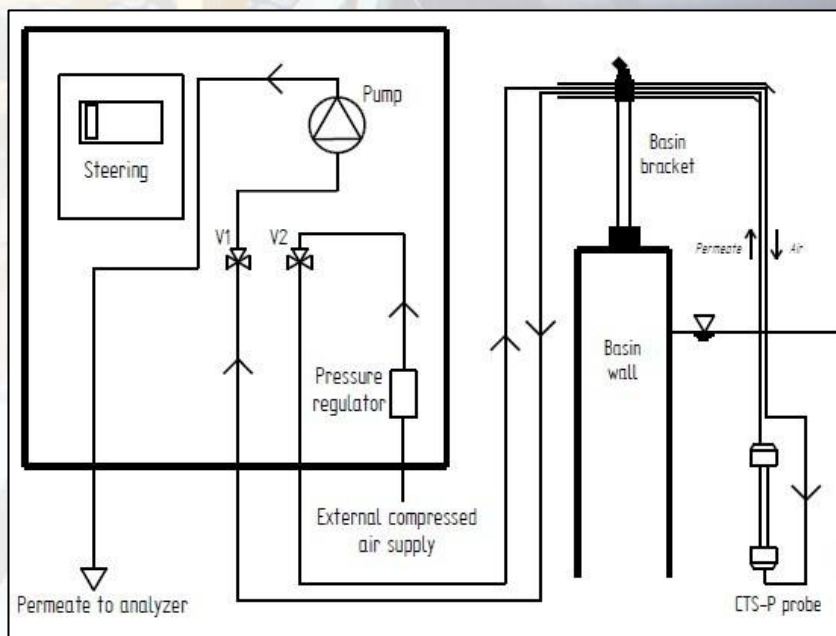
Technical data

Operating data

- Electrical connection: 230 V / 50 Hz
- Ambient temperature: -20°C to +45°C
- Membrane surface area: 230 cm²
- Total weight of filter probe: 0.5 kg
- Pore sizes: 5/ 20/ 50/ 100 µm

Materials

- Adapter and panel: PVC
- Seals: EPDM, FKM
- Pump : PP, FKM, PTFE
- Tubing: PE
- Filter material: PE



CTS-P filter cleaning set



CTS-P filter cartridge



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