



Task:

Samples had to be extracted from a pressurised line >1 bar. The extraction point was 2 resp. 10 m above the sampler.

A fixed single sample volume at a variable pressure had to be guaranteed.

An unpressurised discharge was not possible.





Solution:





Details:

Structure:

The sampler is a standard unit without dosing unit. The dosing unit consists of two hose pinch-valves which are connected by a piece of tube. This valve system is directly mounted at the line. The hose pinch-valves are actuated pneumatically by means of solenoid valves. The solenoid valves are installed on the pinch-valves and are directly controlled by the sampler control unit.





Details:

Functional description:

The valve unit is supplied with compressed air.

As the solenoid valves are normally open, the pinch-valves are kept closed.

When sampling, the valve facing the pipe is opened first. Thus the piece of tube between the valves is aerated and filled with sample fluid.

After a short time, the valve is closed again and the second valve is opened so that the sample can flow off to the sampler where it is filled into the bottles by means of a distributor.

