

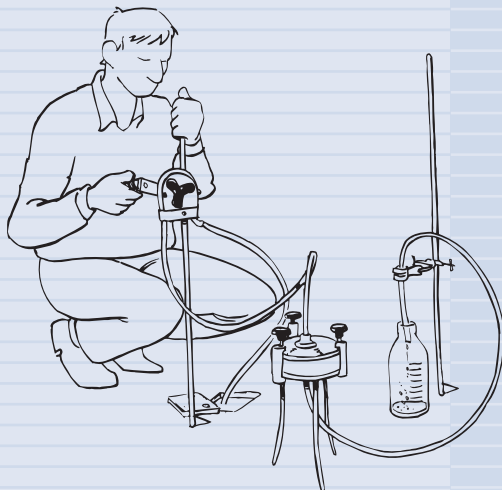


You will return to the contents of P2 WATER by clicking the pictogram

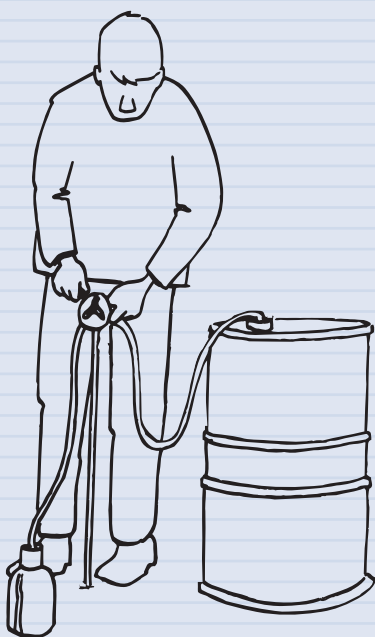
PERISTALTIC PUMPS FOR USE IN THE FIELD

P2.52

Using the hand-operated peristaltic pump the groundwater is pumped up and filtered.



The reservoir is sampled using the hand-operated peristaltic pump.



12.23 Hand-operated peristaltic pump

The hand-operated peristaltic pump is a very reliable apparatus that is used for pumping of gasses and fluids. The pump used is a simple, but very durable, peristaltic pump with three pressure rollers.

The bearings of the drive shaft and the pressure rollers are waterresistant.

The pump can deliver a pump pressure of 3 bar (thus also suitable for use with in-line filters) and an underpressure maximum of 1 bar. It is a self-priming pump.

Even when the pump is out of use the pump tube is completely pressed by at least one roller. Fluid and gas can not flow back.

Using the hand-operated peristaltic pump water can be pumped from a depth of up to 9.5 meter.

The hand-operated peristaltic pump is fitted with a handle with bearings that operates very light. The stainless steel monopod stand has been fitted with

a press-down rim that allows you to press the stand into the soil easily for support.

A 6 x 10 mm silicon tube is most suitable for groundwater sampling.

Advantages

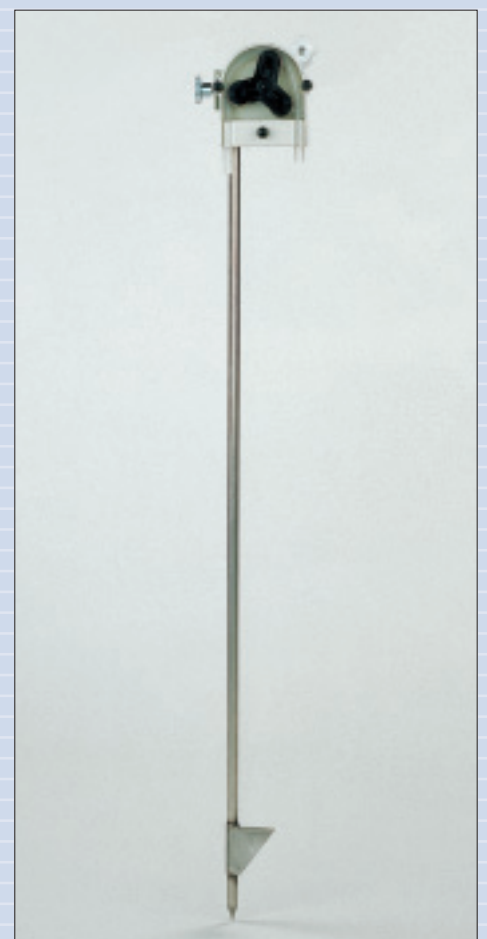
- The fluid (or gas) that has been pumped is only in contact with the inside of a piece of non-toxic silicon rubber tube (the so called pump tube). No mechanical wear and tear of sealings, bearings or membranes is possible. For this reason there is no risk of the medium to be pumped to get in touch with abrasive particles from shafts, sealing or impellers.
- As long as the pump tube used and the other tubes connected are chemically reliable, the integrity of the sampling is guaranteed.
- The pump tube can easily be replaced to avoid any risk of cross-contamination.



Pressure rollers and pump tube



Peristaltic pump with "Third hand"



Hand-operated peristaltic pump