

Description

The **PS3 sampling system** which has been especially designed for the installation on milk collection trucks works according to the principle of a hose pump and makes it possible to take the samples directly from the pipeline. The **PS3** must be always operated with the **DIESSEL ZEVODAT-M** system.

The configurations:

- PS3E1:** Basic device with pump unit and integrated controlling electronics
- PS3:** Pump unit in housing (to be used as extension component only)
- PS3E2:** Sampling system consisting of a **PS3E1** including **PS3** pump unit

Special features:

- Quasi-continuous operation by using a step motor
- Improved lifetime of the hose due to a redesigned pump head and speed limitation
- Good representativity due to a very low sampling volume of the individual sample and frequent individual sampling
- Low carry-over because of small moistening areas in the system. Suitable for bacteriological sampling.
- Easy installation
- Good cleaning capability
- Few maintenance required
- Bottle holders for different sizes; can be optionally fitted with a bottle sensor

It is no problem to retrofit the device into an existing pipeline. At an adequate point the pipeline must be provided with a borehole (D = 14.5 mm) to weld-in a socket.

Then the **PS3 sampler** is placed upon and fastened with pipe clips.

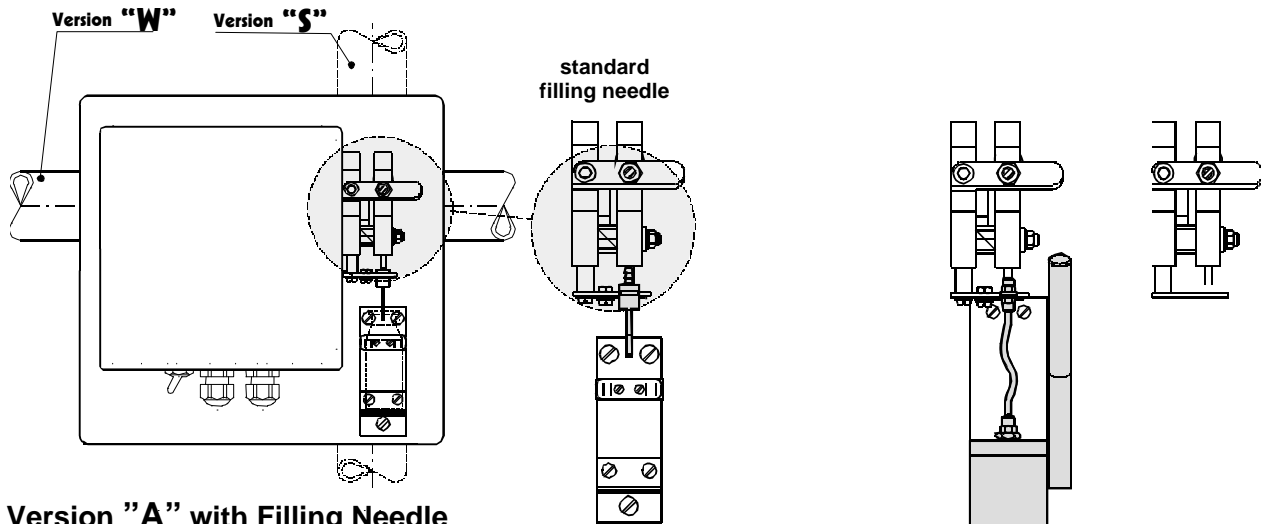
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Peristaltic Sampler
PS-3 E1/E2
with integrated electronics

D 75.22 E

Issued: 06.2000

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Version "A" with Filling Needle

The sample volume is directly filled to a sample bottle which is not closed.

Version "B" with Hose Nozzle

It is possible to carry out a low-germ filling of the taken sample by using a hose which is fixed to the hose nozzle at the sampler and by applying the adequate options.

Options: Version "C" or "D"

- Injection needle for a low-germ sampling process
- Sample bottle with slitted stopple made of caoutchouc.
- Magazine for several sample bottles for a fully automatic sampling process.

Technical Data

Hose pipe connection	Connection to different nominal widths possible. (Borehole \varnothing 14.5 mm for nozzle)			
Sampling volume	10 ml/min min. 140 ml/min max. at $p_{\text{ü}} = 0$ bar in the pipeline			
Pressure in the product line	0.5 - 2.5 bar (absolute). Special design to be used on the suction side of a pump! (Special adapter!)			
Materials	Stainless steel no. 1.4301 (AISI 304) / housing : Al lacquered Silicone tube			
Operating voltage	10 ... 30 V DC			
Current consumption (max.) when using one motor		12 V DC	24 V DC	30 V DC
	Quiescent current	0.3 A	0.15 A	0.12 A
Operating current		2.7 A	1.3 A	1.0 A
Fuse protection of the device	7.5 A (brown)			

Connection scheme PS3E1/E2

