Data Sheet

DIESSEL
One step ahead . . .

Description

The sampler is especially designed for the use on milk collection trucks. It works according to the peristaltic principle (hose pump) and permits a direct taking of samples from the pipeline.

Design with filling needle
The sample quantity is filled direct into an unplugged sample bottle.

Design with hose nozzle
On the condition that the necessary options are used, it is possible to fill the taken sample on low-germ conditions through a hose that can be fixed to the hose nozzle of the sampler.

Options:
- Injection needle for low-germ sampling
- Sample bottle with slotted caoutchouc plug
- Magazine for several sample bottles, enabling a fully automatical sampling process

The sampler can supplementarily be installed into an existing pipeline without any problem. For that purpose, the pipeline has to be provided with a borehole (diameter: 14.5 mm) at an appropriate position where a socket can be welded in. The sampler is arranged on the socket and fixed by the aid of pipe clips. The sampler can automatically be controlled by a DIESSEL data acquisition system, a volume-dependent sampler controller (D55.05E, D55.07E), or a time-dependent sampler controller (D55.04E).

Special features

- Low carry-over effect because of the very small wetting surfaces in the system. Suitable for bacteriological sampling.
- Good representativity because of the small volume of the single samples (0.2 ml/pulse min.) and a frequent taking of single samples.
- Simple installation.
- Good cleaning properties.
- Low maintenance.
- Improved lifetime of the tube due to newly designed head of the pump.

Technical data

Pipe connection	Pipe clips, different nominal widths possible (14.5 mm diameter borehole for the socket)			
Sample volume	0.2 ml min. per sample			
	5 ml max. per second			
Input	Input of the optocoupler: 10 ... 30 V 3 ... 10 mA Duration of pulses: 40 ms ≙ 0,4 ml min. 20 ms			
Pressure in the product line	0.5 - 2.5 bar (absolute)			
Operating voltage	24 V DC standard, special designs: 12 V DC, 12...30 V DC			
		24 V DC	12 V DC	12-30 V DC
	Nominal current	2 A	4 A	2 A
	Startup current approx. 12 ms	8 A	16 A	9 A
Materials	Stainless steel, material no. 1.4301 (AISI 304) Silicone hose			
Current consumption during sampling: Nominal current **Startup current**	Approx. 2 A at 24 V DC (approx. 4 A at 12 V DC) Approx. 8 A for approx. 12 ms (approx. 16 A at 12 V DC)			
Current consumption of the controller	Approx. 25 mA			

DIESSEL GmbH & CO.
P.O. Box 10 03 63
D-31103 Hildesheim
Germany
☎ (0)5121-742-0

Peristaltic - Sampler
Type: PS - 2R

D 75.23 E
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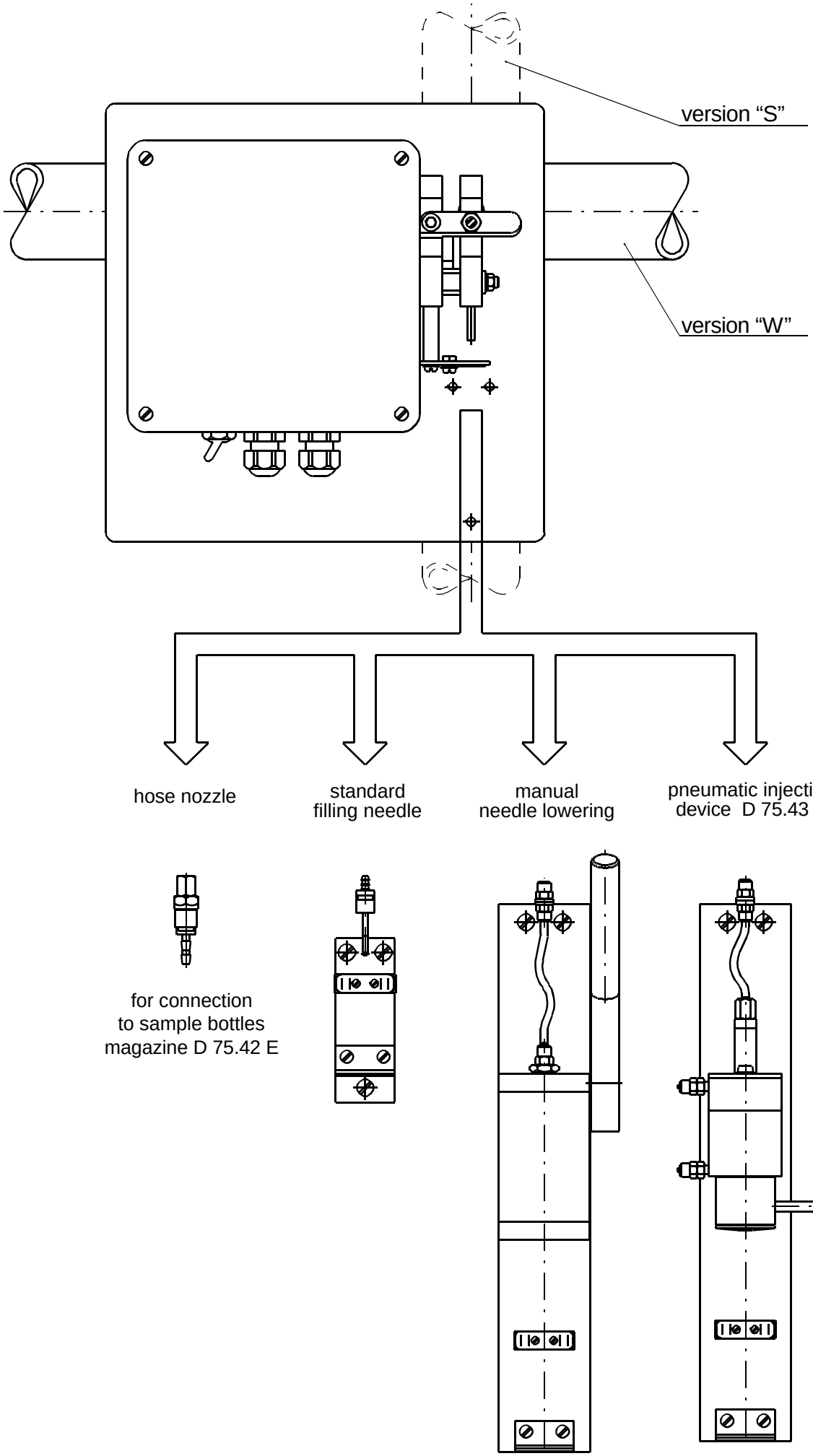
version “S”
version “W”
hose nozzle
standard
filling needle
manual
needle lowering
pneumatic injection
device D 75.43 E
for connection
to sample bottles
magazine D 75.42 E