

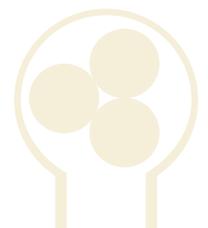


## WADose LITE PERI Peristaltic pump



**An intelligent, highly flexible and sturdy pump for technical centres, laboratories, test benches and production**

- Dosing range 1.6...450 ml/min
- Easy operation and integration in control systems
- Pump head exchangeable in 5 seconds
- Highly resistant to aggressive fluids
- Suitable for contaminated fluids also with particles
- FDA-compliant models
- LED pump head to signalize the status
- External analogue signals (0...10 VDC/4...20 mA)



# Peristaltic pumps



## WADose LITE PERI

The WADose is an intelligent peristaltic dosing pump for dosing tasks with fluids in technical centres, laboratories, for test benches and production. The special benefit of the pump is that the transport tubes are flexibly exchangeable and can be modified to suit almost any medium.

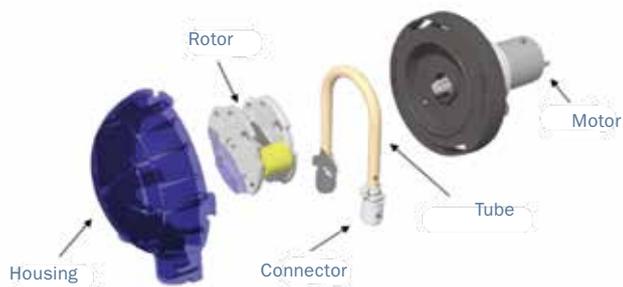
For specially aggressive fluids, a variant without connection pieces, with a continuous, directly inserted tube, can be used. This variant excludes possible leaks and can also be used for FDA-compliant processes with the correct tube material.

Furthermore, the pump is very easy to maintain and the low-shear transport principle also makes the pump suitable for sensitive fluids and fluids that are difficult to handle. The sturdy pump operating principle even allows fluids with solid particles to be transported.

An active backlight in the pump head uses various colours to indicate the current operating status, even at large distances.

## Pump operating principle

The WADose pump head is based on the peristaltic pump principle. An application-specific, exchangeable tube is present inside the pump, through which the two or four rollers of the rotor transport the fluid. This results in a transport volume per rotation of about 0.2...3 ml.



The transport volume depends on the speed, number of rollers and the diameter of the transport tube. The elasticity of the tube is sufficient to generate the required negative inlet pressure. The maximum pressure is generally 1 bar.

## Pump heads

Various pump heads are available, to quickly change between fluids or to change the range of the flow rate. Three are specified in detail here. Others are available on request.

WP 11					
Pump head	Inside diameter	Number of rollers	Usable tubes	Min. flow	Max. flow
WP11.R2.3/16	4.8 mm	2	S, U, EL, P, N, NF, F, W	1.95 ml/min	293 ml/min
WP11.R4.3/16	4.8 mm	4	S, U, EL, P, N, NF, F, W	1.6 ml/min	240 ml/min
WP11.R2.1/4	6.4 mm	2	S, U, P, N, NF, F, W	3.0 ml/min	450 ml/min



# Peristaltic pumps



## Tube types

In order to operate the pump with aggressive fluids or to suit changing fluids, various tube types are available.

Tubes and application		
S	TYGON 3350/3355	Silicone tube with long service life / meets FDA standard
U	TYGON 2001	Chemically resistant to a large number of fluids
EL	TYGON E-LFL	Greatest durability of all transparent tubes
P	PHARMED BPT	Long service life / acid-resistant
N	Norprena A-60-G	Tube for industrial applications
NF	Norprena A-60-F	Suitable for disinfectants and cleaning agents
F	Fluran F-5500-A	Resistant to chemicals, oils and fuels
XL	TYGOPRENE XL-60	Very long service life / alternative to PVC tube
W	W TUBE	Double-walled tube / resistant to chemicals

## Specifications

**Dosage amounts:** 1.6...450 ml/min

**Pressure range:** atm...1 barg

**Temperature range:** fluid and ambient 5 °C to 50 °C

**External set point:** 0...10 VDC / 4...20 mA

### Mechanical

**connections:** clamp ring or tube insert

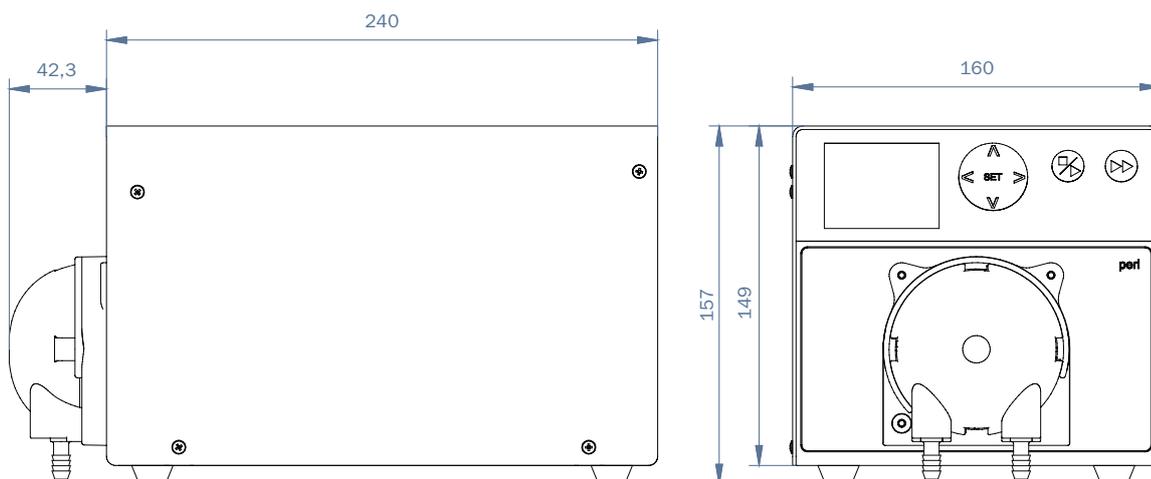
**Weight:** 4.5 kg

**Housing:** stainless steel, brushed

**Power supply:** via external mains adapter (included)

90...264 VAC/120 W

## Dimensions (mm)



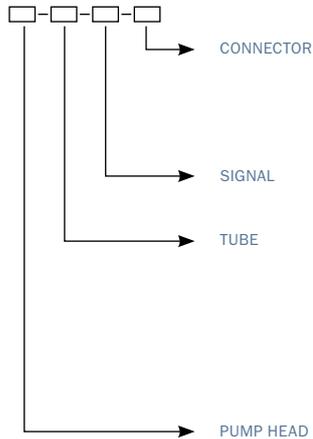
The indicated dimensions are approximate dimensions and may be changed without prior notice.

# Peristaltic pumps



## Model number key:

### WADose-LITE-PERI-



<b>W4</b>	tube connection 1/4" and 6mm OD
<b>J4</b>	tube connection 1/4" OD
<b>W16</b>	tube connection 6mm OD
<b>WT6</b>	tube connection 6mm ID
<b>N</b>	loose tube end 3/16" or 1/4" ID
<b>U</b>	0-10 V
<b>I</b>	4-20 mA
<b>S</b>	Tygon 3355/3350
<b>U</b>	Tygon 2001
<b>EL</b>	Tygon E-LFL
<b>PE</b>	Pharmed BPT
<b>N</b>	Norprene A-60-G
<b>NF</b>	Norprene A-60-F
<b>F</b>	Fluran F-5500-A
<b>W</b>	W dual wall (polyolefin)
<b>WP11.R2.3/16</b>	1.95...290 ml/min
<b>WP11.R4.3/16</b>	1.6...240 ml/min
<b>WP11.R2.1/4</b>	3...450 ml/min

e. g.: **WADose-LITE-PERI-WP11.R2.3/16-W-I-WT6**



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