

# MINIATURE SYRINGE PUMPS

Highly accurate dosing of nl &  $\mu$ l

## SBP Series



This miniature syringe pump has dimensions of only  $\text{Ø}12 \times \text{L}170$  mm with an integrated 2-phase stepper motor and reduction gear. A large number of available connections enable a wide range of options for the varied applications of our customers.

On request, we also offer a miniature 3/2-way valve, which can be attached to the pump head of this miniature syringe pump.

All these features make this pump well suitable for microfluidic applications and mobile devices.

The miniature syringe pumps can be mounted directly on a movable arm. A needle can be attached directly below the pump, reducing the air gap between the syringe and the sample to a minimum. This leads to higher accuracy.



## SPECIFICATIONS

	SBP Series
Syringe capacity	100 $\mu$ l
Theoretical resolution	0.105 nl (with 1/100 micro-step) 10.5 nl (with fullstep)
Wetted materials	Glass, PTFE, PVDF, Stainless steel (Needle)
Port connection	Needle   Luer   M6 (male   female)   1/4-28UNF (male   female) Adapter for disposable tip (Eppendorf® epT.I.P.S., 2-200 $\mu$ l)
Fluid temperature range	15 - 40°C
Ambient temperature range	15 - 40°C
Outer dimensions	$\text{Ø}12 \times \text{L}170$ mm (excluding needle and sensor)