

# PRODUCT DATA SHEET

## Puredyne® kit b

- Volumetric printing system
- Disposable caps with rotor and piston
- For low to high viscosity biomaterials
- Linear relation between dosing volume and rotation speed
- Active suck-back prevents dripping or stringing of biomaterials
- Precise start and end points
- Low-maintenance and durable print heads
- Easy integration into bioprinting machines
- Driven by a 2-phase stepper motor
- Luer-Lock connection for dispensing needles





## TECHNICAL DATA    PUREDYNE® KIT B

Volume reservoir (ml)	~ 5
Dosing volume (µl/rev)	~ 9,4
Max. volume flow (µl/min) <sup>(2)</sup>	220
Guaranteed min. dosing volume (µl) <sup>(1)</sup>	1
Max. dosing pressure (bar) <sup>(1)</sup>	5
Max. inlet pressure (bar) <sup>(1)</sup>	1
Recommended inlet pressure (bar) <sup>(1)</sup>	0.5
Dosing accuracy (%) <sup>(3)</sup>	± 1
Repeatability (%) <sup>(1)</sup>	> 99
Operating temperature (°C)	4 – 40
Material temperature (°C) <sup>(1)</sup>	4 – 40
Max. rotation speed (rev/min) <sup>(4)</sup>	25
Weight (g)	125

(1) Depends on material.

(2) Depends on viscosity and primary pressure.

(3) Volumetric dosing as absolute deviation in relation to one dispenser revolution. Depends on the viscosity of the material.

(4) Higher speed causes increased wear.