

## SYRINGE PUMP

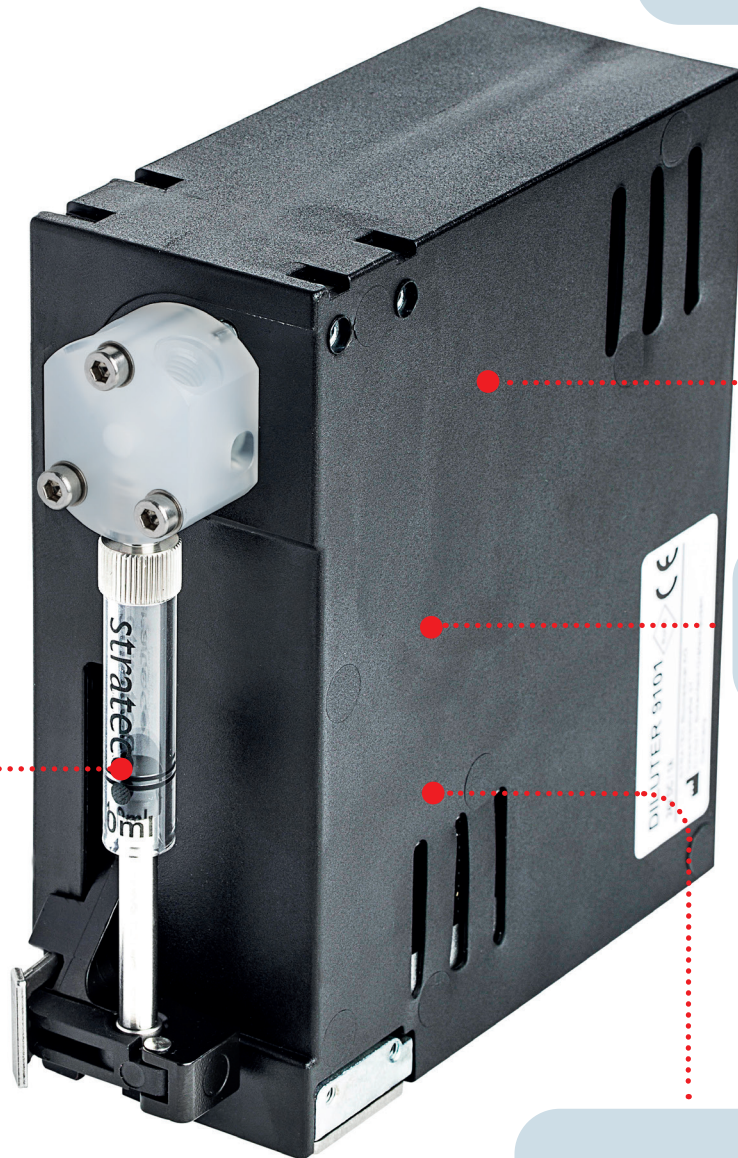
High compatibility  
Open system  
Cost optimized for IVD applications

Compatibility with other manufacturers due to standardized dimensions, mounting and communication interface

30 mm syringe allows flexible and standardized integration

Extensive protocol features allow wide range of application

Lean design derived from IVD requirements



The Syringe Pump is a self-contained 30 mm syringe module, covering various liquid handling applications such as automated pipetting, dispensing and diluting. The pump comes with sensors for step and position monitoring and with an A/D converter to support clot detection.

Standardized mounting and dimensions allow far-reaching compatibility with other modules from other manufacturers.

## SPECIFICATIONS

<b>Plunger drive</b>	Stepper motor with optical encoder, self-lubricating, 30 mm stroke length
<b>Resolution</b>	3000 steps, full step resolution
<b>Speed (full stroke)</b>	1.1 to 600 sec
<b>Valve drive</b>	Stepper motor with optical valve position sensor
<b>Valve drive speed</b>	250 ms between neighboring ports
<b>Valve options</b>	1/4"UNF, 28 thread for syringes 1/4"UNF or M6 connection for tube fittings
<b>Valve configuration</b>	3-port distribution valve
<b>Dimensions [H W D]</b>	127 45 114 mm
<b>Weight</b>	1100 g
<b>In-/Output</b>	2 input TTL, 3 output TTL
<b>Protocol features</b>	Programmable ramps, cut-offs backlash compensation, plunger speeds, delays and loops, select syringe speed, absolute and relative syringe positioning, start and terminate syringe movement, functional self-test
<b>Power requirements</b>	24 V <sub>DC</sub> ± 5 %, 800mA
<b>Communication</b>	RS232, RS485, CAN BUS (selectively work with up to 15 Syringe Pumps)

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