

NEMESYS[®] ULTRA HIGH PRESSURE

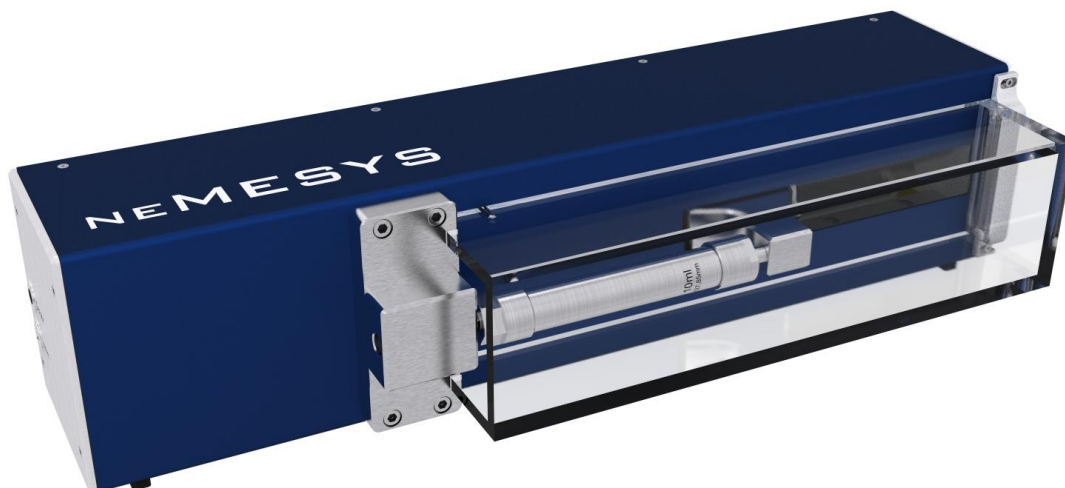
Ultra High Pressure Syringe Pump

Features

For dosing fluids into large scaled fluidic systems with ultra high pressures there is the need for special equipment that suits for this application. With the neMESYS Ultra High Pressure Syringe Pump a dosage with a pressure up to 890 bar is possible.

Dosing performance

Min. pusher velocity (pulsation free)	2,3 µm/s
Max. pusher velocity (pulsation free)	15 mm/s
Min. increment	0.5 µm
Step frequency (pulsation free)	30 step/s
Max. shear force	7000 N



Mechanical Data

Weight 19 kg
 Dimensions (L x W x H) 600 x 195 x 145 mm

Electrical Data

Power Supply Voltage..... 48 VDC ± 10%
 Dosing Unit Current peak at 48 VDC..... 5 A

Environment

Operating Temperature..... -10°C to 45°C
 Storage Temperature..... -40°C to 45°C
 Operating Humidity 20% to 80%, non-condens.
 Storage Humidity 20% to 80%, non-condens.

Interfaces

CAN..... max. 1 Mbit / s
 RS-232 max. 115200 bit/s

Supported Syringes

Syringes stroke..... up to 130 mm
 Volume 10 / 25 / 50 / 100 / 250 ml
 Connection 1/8" / 1/16" Swagelok
 Material syringe stainless steel
 Material seal EPDM / NBR / FKM

Syringes, pressures and flow rates

Syringe size (ml)	Kolbenhub [mm]	Max. pressure	Min flow (ml/min)	Max flow (ml/min)
10	127,85	890 bar 13000 psi	0,011	70,69
25	124,34	345 bar 5000 psi	0,028	180,96
100	124,34	85 bar 1250 psi	0,111	723,82
250	127,32	35 bar 515 psi	0,272	1767,20

With the special design of cetoni High Precision Syringes it's possible to reach a maximum system-pressure of 13000 psi.



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