



neMESYS HIGH PRESSURE SYRINGE PUMP

Description

High pressures, viscose media, large sample volume, precision nano-flows or liters per hour – no problem for the neMESYS High Pressure syringe pump module!

Besides the outstanding flow characteristics of the neMESYS family, rugged technics and safety precautions (internal pressure sensing and safety cover) reduces risks at high system pressures and offers great reliability for lab and industrial applications.



Flow Performance

Syringe	Material	Parameter		Pressure Max.
		Flow Rate Min [nl/min]	Flow Rate Max [ml/min]	[bar / psi]
2.5 ml	Steel	4.4	21.0	510 / 7400
5 ml	Steel	8.2	42.0	220 / 3300
10 ml	Steel	17.4	84.0	120 / 1740
25 ml	Steel	42.7	206.0	50 / 730
50 ml	Steel	83.6	404.0	25 / 363
100 ml	Steel	171.0	825.0	12 / 174

Pressure Transducer Configuration (integrated)

Body Material	17-4 PH (1.4548 Stainless Steel)
Pressure Rating	40, 60, 100, 160, 250, 400, 600
Operating Temperature	-40 – 105 °C
Temperature Signal	On Request

Mechanical Data

Weight.....4.5 kg
Dimensions (L x W x H)..... 310 x 110 x 136 mm

Environment

Operating Temperature.....0 – 45 °C
Storage Temperature..... -40 – 75 °C
Operating Humidity..... 20 – 80 %, Noncondensing
Storage Humidity 20 – 80 %, Noncondensing

Electrical Data

Peak Power Consumption.....24 W
Power Supply Voltage (Input) 24 V DC

Interfaces

CANmax. 1 Mbit/s
RS232.....max. 115200 bit/s
I/O Port (12 Pin).....12 bit

Module Performance

Max. Pusher Velocity 7 mm/s
Min. Pusher Velocity 1 nm/s
Min. Pusher Travel.....4.3 nm
Max. Linear Force2600 N / 585 lbs

Configuration

I – Piece Material 316L*
Fluidic Port 1/8" female ISO* / 1/4-28 UNF

*default configuration



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NOTES
