



NEMESYS HIGH PRESSURE SYRINGE PUMP

DESCRIPTION

High pressures, viscose media, large sample volume, precision nanoliter-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. [BAR / PSI]
		FLOW RATE MIN [NL/MIN]	FLOW RATE MAX [ML/MIN]	
3 ml	Steel	4.4	21.1	510 / 7400
5 ml	Steel	7.4	35.7	220 / 3300
10 ml	Steel	14.8	71.4	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	316L (others on request)
Pressure Rating	40, 60, 100, 160, 250, 400, 600 bar
Operating Temperature	-40 – 105 °C

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 %, non-condensing
Storage Humidity 20 – 80 %, non-condensing

ELECTRICAL DATA

Peak Power Consumption 48 W
Power Supply Voltage (Input) 24 V DC

INTERFACES

CAN max. 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 21 mm
Max. Linear Force 2600 N / 585 lbs

CONFIGURATION

I – Piece Material 316L*
Fluidic Port 1/8" female ISO* / 1/4-28 UNF
Orifice 2mm* / 4mm

*default configuration