



## NEMESYS MID PRESSURE SYRINGE PUMP

### Description

The NEMESYS Mid Pressure syringe pump suits perfect for demanding metering tasks, e.g. transport of viscose fluids as well as high pressure or high throughput applications. High precision, flexibility and robustness are the perfect base for sophisticated tasks in laboratory or production environment.

The individual choice of wetted material combinations and useful accessories help you to get the system ready for almost each application.



### Flow Performance

Syringe	Material	Parameter		Pressure Max.
		Flow Rate Min [nl/min]	Flow Rate Max [ml/min]	[bar / psi]
1 ml	Steel	1.3	7.0	200 / 3000
	Glass	1.1	6.0	37 / 555
2.5 ml	Steel	3.4	18.0	200 / 3000
	Glass	2.8	15.0	23 / 345
5 ml	Steel	6.4	34.6	100 / 1500
	Glass	5.7	30.0	17 / 255
10 ml	Steel	13.70	72.2	50 / 750
	Glass	11.4	60.0	13 / 195
25 ml	Steel	33.7	176.9	20 / 300
	Glass	28.6	150.0	11 / 165
	PTFE	33.7	176.9	20 / 300
50 ml	Steel	66.1	346.8	10 / 150
	Glass	57.2	300.0	8 / 117

### Mechanical Data

Weight.....1.8 kg  
 Dimensions (L x W x H).....310 x 69.5 x 99.3 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

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

### Module Performance

Max. Pusher Velocity .....6 mm/s  
 Min. Pusher Velocity.....1 nm/s  
 Min. Pusher Travel .....3.7 mm  
 Max. Linear Force .....1000 N / 225 lbs

### Module Configuration

T / I – Piece Material.....316L\* / PTFE  
 Fluidic Port.....¼"-28 UNF\* / ⅜" female ISO

\*default configuration



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### NOTES

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