



Intelligent Micro Pump
MP-32-110S



Intelligent Micro Pump
MP-32-110P



Auto Valve-equipped Linear-drive Pulse Control Intelligent Micro Pump MP-32 Series

Uses FLOM's unique configuration of
switching valve and linear-drive pump

Features

- Improved near-zero pulse flow
- Problems with bubbles greatly reduced
- Long life plunger seal
- Upper and lower pressure limiters
- Space-saving compact design
- Control with RS232C communication protocol

Product Name	Intelligent Micro Pump	
Product Number	MP-32-110S	MP-32-110P
Pump Head Material	SUS316	PEEK
Max Pressure* ¹	40 MPa (5800 psi)	20 MPa (2900 psi)
Flow Rate Range* ²	0.1 ~ 500.0 μ L/min	
Flow Per Stroke	80 μ L	
Plunger Stroke	10 mm	
Flow Repeatability* ²	< 0.3 % RSD (10 ~ 250 μ L/min)	
Flow Accuracy* ²	\pm 2.0 % or \pm 0.2 μ L /min or less, whichever is greater (at 250 μ L/min or the lower)	
Flow Mode	Continuous flow mode , Timer flow mode	
Safety Function	Upper / lower pressure limiters	
Pressure Accuracy	\pm 0.2 MPa (\pm 29 psi)	
Wetted Materials	SUS : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , FFKM , ELGILOY®* ³ , PEEK , SUS316 PEEK : Sapphire , Ruby , PCTFE , PFA , UHMW-PE , FFKM , PEEK	
Remote Control	Input : START / STOP , Output : ERROR / FUNC (either one of READY / END / RUN) DC1-5V Input : Setup flow rate , DC1-5V Output : Pressure signal	
Communication	RS232C , RS485 (between FLOM devices)	
Dimensions	150 (H) \times 150 (W) \times 240 (D) mm , excluding protuberances	
Weight	Approx. 5.1 kg	
Power	AC100 ~ 240V (50 / 60 Hz) , MAX 250 VA	
Environment Temperature	5 ~ 40 $^{\circ}$ C , 20 ~ 80 % RH (Non-condensing)	
Order Code	SMP-P5501	SMP-P5502

*1: Maximum pressure is only sustained intermittently, this does not mean maximum pressure under continuous use.

*2: Test data generated under FLOM's standard test conditions.

*3: ELGILOY® is a registered trademark of the Elgiloy Specialty Metals.

Roller Pump

Roller Pump WP-21

Great for plunger pump cleaning and basic pumping
applications

Features

- Choose tubing to match your solvent
- Tube cassette can be set in any of 4 directions
- Space-saving compact design

Product Name	Roller Pump
Product Number	WP-21
Flow Rate Range	Approx. 0.5, 1.0, 2.0, 3.0 mL/Min. (4 step settings in rotary style)
Features	Hold down front switch to purge (approx. 5mL/min)
Flow Rate Accuracy	\pm 5 % (fresh Pharmed® BPT* ¹)
Max Pressure	90 kpa or less (Pharmed® BPT* ¹)
Intake Pressure	-90 kpa or less (Pharmed® BPT* ¹)
Liquid Temperature Range	5 ~ 50 $^{\circ}$ C
Rotary Direction	Clockwise when viewed from front
Remote Control	Input : OFF / ON switch Output : Error from open collector
Tubing	Pharmed® BPT* ¹ / Fluran F-5500-A / TransMaster TM-15
Dimensions	65 (H) \times 46 (W) \times 110 (D) mm, excluding protuberances
Weight	Approx. 0.5 kg
Power	DC 24 V, MAX 15 W (AC Adapter included)
Order Code	SWP-F021

*1: "Pharmed® BPT" is a registered trademark of Saint-Gobain, S.A.

※ Product comes with Pharmed® BPT tubing standard.

Please contact us if you prefer Fluran F-5500-A or TransMaster TM-15 tubing.

※ Pumping action begins automatically as soon as the power is turned on.



Roller Pump
WP-21



Pharmed® BPT
(standard)



Fluran F-5500-A
(sold separately)



TransMaster TM-15
(sold separately)