

Features

- Small-sized, lightweight and slim.
- Supply of microfluidic volumes is possible.
- No metal is used as wetted materials.
- Low noise and low power consumption.
- Flow rate is adjustable by changing drive voltage or drive frequency.
- Self-priming is possible.

Specifications

Model Number	SDMP302	SDMP306
Pump Type	Piezoelectric Diaphragm Pump	
Flow Rate	3 ml/min (Typical)	7 ml/min (Typical)
Pump Pressure	40 kPa (Typical)	45 kPa (Typical)
Drive Voltage	60 ~ 250 Vp-p	
Drive Frequency	10 ~ 60 Hz	
Suction Load Pressure	-1.0 kPa (Typical)	
Operating Temp.	5 ~ 50 °C	
Wetted Materials	COC (Cyclic Olefin Copolymer) EPDM (Ethylene Propylene Diene Monomer)	
External Dimensions	25 × 25 × 4.8 mm	
Weight	Approx. 4 g	
Input / Output Pipes	φ0.6 - φ1.2 - L2.5 mm	φ1.2 - φ2.1 - L3.5 mm

The higher flow version, SDMP320, is also available.

- Typical flow rate: 20 ml/min
- External dimensions: 33 x 33 x 5.5 mm
- Input / output pipes: φ 1.8- φ 2.8- L5.0 mm

Disposable body types under development.

(These have replaceable bodies that can be sterilized before use.)

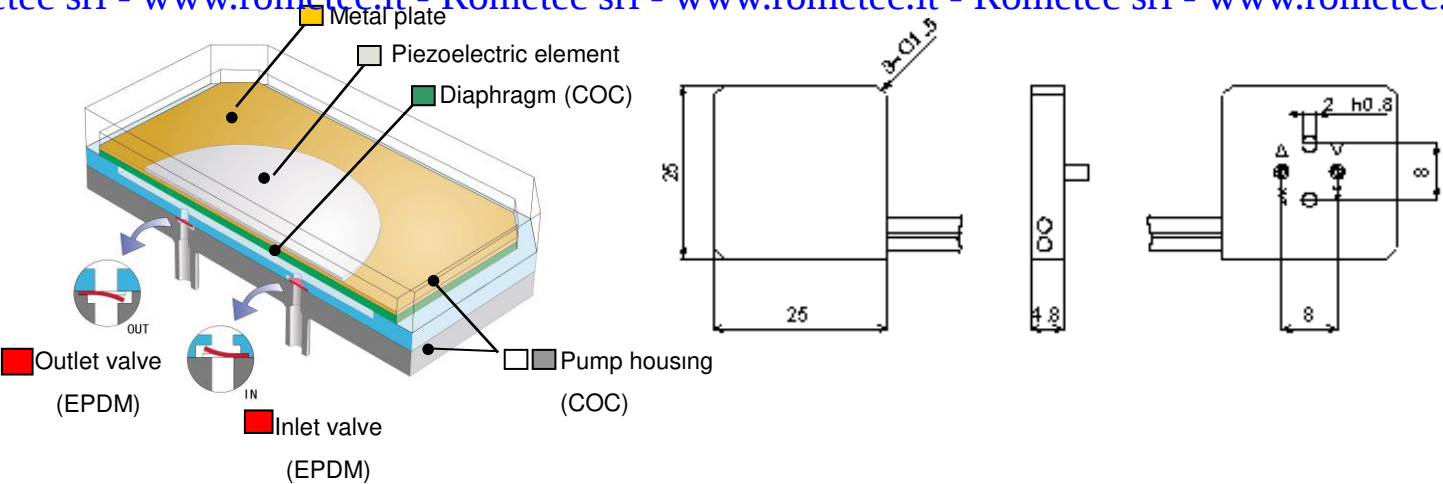
Note: Details including specifications may change without notification.

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Driver Board MPD-200A

This driver board is a thin, compact and lightweight, yet high-voltage circuit board, designed for the piezoelectric micro pumps. From a regular 5 VDC input voltage, it can easily generate the high voltage supply of approximately 250 Vp-p, 40 Hz necessary for driving the micro pumps.



Item	Specifications
Input Voltage	5 VDC \pm 5%
Output Frequency	1 ~ 60 Hz
Output Voltage	50 ~ 340 Vp-p
Number of Pumps Connectable	2 pieces (maximum)
External Dimensions, Weight	30 x 30 x 18 mm, approx. 9 g

Controller MPC-200A

This is a compact and lightweight controller that can provide the high voltage power necessary for driving the micro pumps. It is user-friendly with a front panel digital display for configuring the output voltage and output frequency, and a memory function to store the latest setting used.



Item	Specifications
Input Voltage	5 VDC \pm 5%
Output Frequency	1 ~ 60 Hz
Output Voltage	60 ~ 300 Vp-p
Number of Pumps Connectable	2 pieces (maximum)
External Dimensions, Weight	75 x 30 x 89 mm, approx. 140 g
Attachment	AC adapter

Tygon® Tubing (accessory, sold separately)

Tygon® 2001 (for use with methanol, water and most general uses): I.D. 0.79 mm (for SDMP302), I.D. 1.59 mm (for SDMP306)

Tygon® 2375 (for use with methanol, water and most general uses): I.D. 2.38 mm (for SDMP320)

*Note : If the flow decreases with the above tubing, please use the larger size tubing.

*Tygon® is a trademark of Saint-Gobain Performance Plastics.