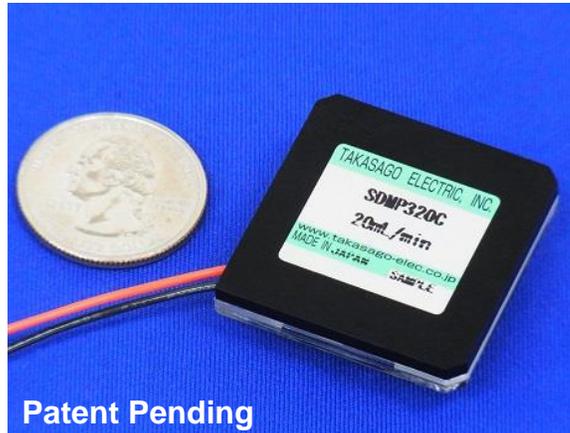


Cartridge Type Piezo Pump SDMP320C



Patent Pending



Can be easily replaced for each fluid

Features

- A built-in magnet enables the pump cartridge to be easily removed from and attached to an actuator with a piezoelectric element.
- Sterilization of the pump cartridge prior to use is possible.
- No metal is used as wetted materials.
- Self-priming is possible.
- Flow rate is adjustable by changing drive voltage or drive frequency.
- Small-sized, lightweight and slim.
- Low noise and low power consumption.

Use the QR code on the right or the link below to see the movie "How to use"

https://youtu.be/0XMQHMF_qu8



Specifications (Target Values)

Model Number	SDMP320C
Pump Type	Piezoelectric Diaphragm Pump
Typical Flow Rate	20 ml/min
Typical Pump Pressure	20 kPa
Drive Voltage	60 to 250 Vp-p
Drive Frequency	10 to 60 Hz
Typical Suction Load Pressure	-1.0 kPa
Operating Temp.	5 to 50 °C
Wetted Materials	COC (Cyclic Olefin Copolymer) EPDM (Ethylene Propylene Diene Monomer)
External Dimensions	33 x 33 x 6.9 mm
Weight	Approx. 13 g
Input / Output Pipes	φ1.8-φ2.8-L5.0 mm

The data above are based on sine wave drive. Flow rate and pump pressure are larger if driven by Takasago Standard wave.

Note: Details including specifications may change without notification.

Contact for Purchase

TFS (Takasago Fluidic Systems)

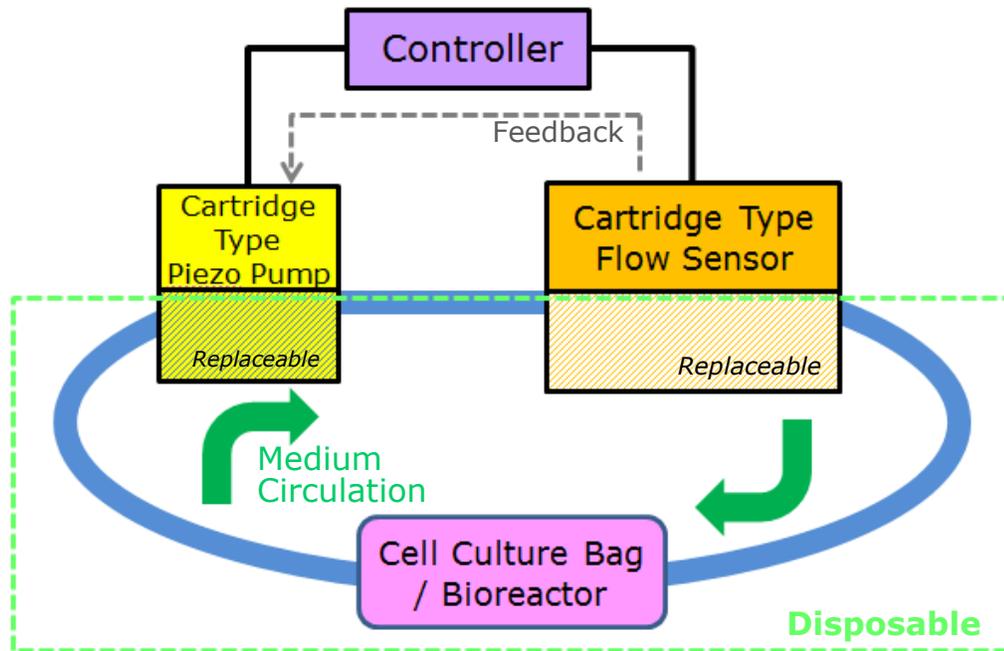
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Application Example

● Flow Control System for a Biotech Application



The features of the Cartridge Type Piezo Pump are most useful for applications sensitive to cross-contamination, for example, biotech devices. It also works most effectively when used with other replaceable items as a system. The system in the photo above is one example; a circulation system of culture medium, which consists of a cartridge type flow sensor, the Cartridge Type Piezo Pump, and a controller. As the flow sensor monitors the flow and the controller adjusts the output of the pump accordingly, the flow remains very stable even over a long period, despite changes in the liquid level. Programmed flow control using an external input is also possible. All wetted parts can be replaced after each cell/tissue culturing cycle is completed.

Note:

- The controller is compatible with other Takasago piezoelectric micro pumps. It is also customisable for other flow sensors. Please contact us for details.
- The flow sensor in the photo above is manufactured by Aichi Tokei Denki Co., Ltd. and is currently under development. More information is available on request.