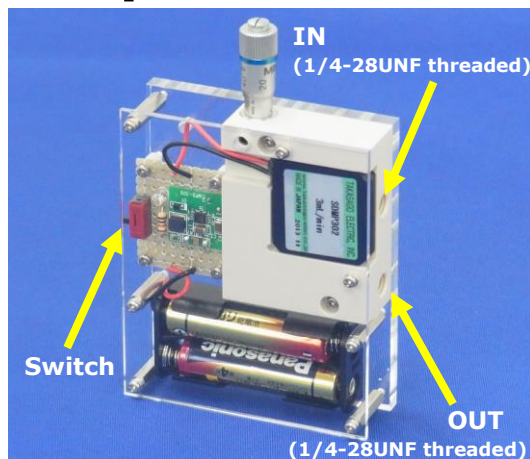


INTEGRATED PRODUCT

**Manually Adjustable Low Pulsation
Micro Pump Unit**



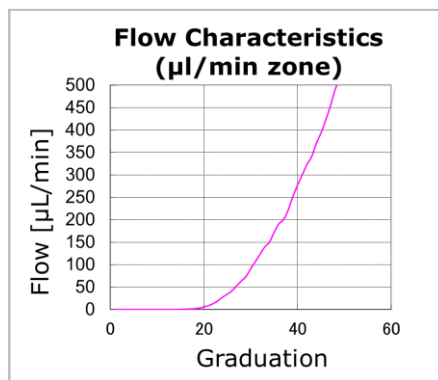
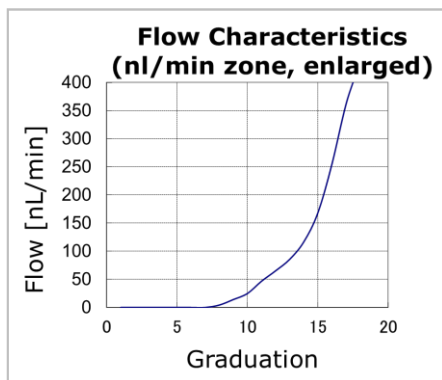
**Suitable for Lab-on-a-Chip Devices,
Cell Culture Media Circulation, etc.**

Features

- Flow from a piezoelectric micro pump is adjusted by a micro needle valve.
- Can adjust flow from nl/min level to around 1.5 ml/min manually.
- Flow pulsation at low flow rates is drastically reduced by a micro needle valve (See the graph at the bottom).
- Usable as a stand alone by AAA or R03 batteries.
- Compact size: Dimensions of 66 x 25 x 105 mm
- Maximum pump pressure is around 35 kPa (The value varies depending on the flow channel configuration and fluid characteristics).

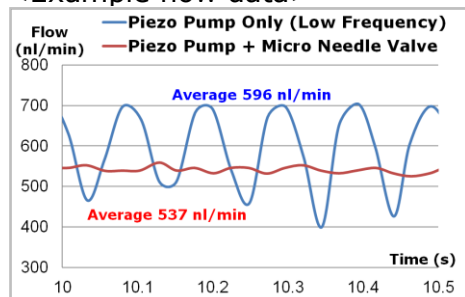
Demonstration video is available at the following website.
http://www.takasago-elec.co.jp/movie/low_pulsation_pump_unit-e.wmv

Flow Characteristics <Example flow data>



Reduction of Flow Pulsation **Similar Item**

<Example flow data>



Unit of a piezo pump and a needle valve is also available (Either a driver or a controller is separately needed).

Note: Details including specifications may change without notification.

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