

EOP-driven Micro Pumping Unit



W32 x L 49.1 x H24.8 mm (Excluding plugs)

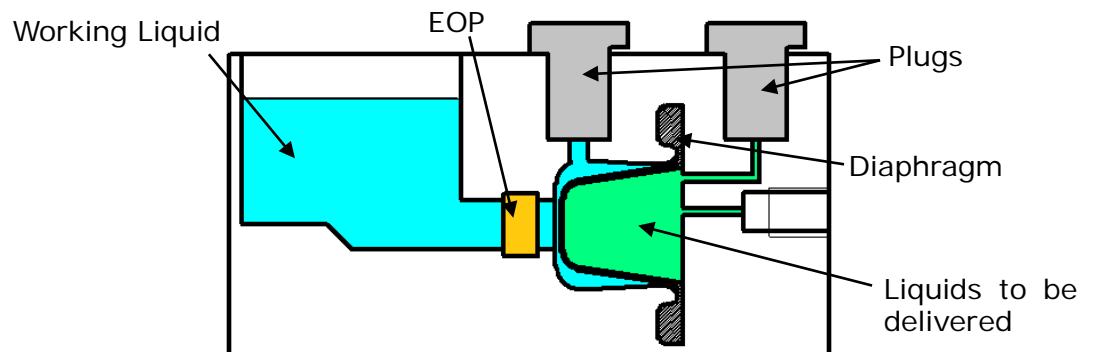
The Electro-Osmotic Pump (EO pump), which employs electroendosmosis, generates no pulsation. It is ideal for pulsation-sensitive microfluidic systems, but only de-ionised water, methanol, or ethanol can be directly pumped. To overcome this limitation, this pumping unit utilises an internal diaphragm that isolates the ethanol etc. from the liquid to be delivered. This indirect pumping mechanism enables you to pump various liquids.

Use the QR code on the right or the link below to see a video.

<https://youtu.be/yA7si9w3Aac>



Internal Structure (Image)



Specifications

Working Liquid	Ethanol
Wetted Materials	PC and FPM
Flow Rate	0 ~ 100 μ L/min
Max. Pump Pressure	800 kPa
Pump Capacity	250 μ L
Weight	45 g

Note: Details including specifications may change without notification.

TAKASAGO ELECTRIC, INC.

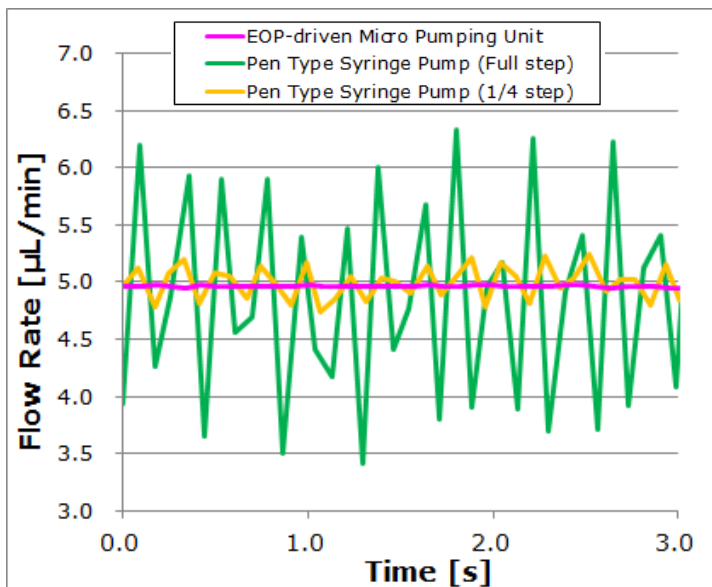
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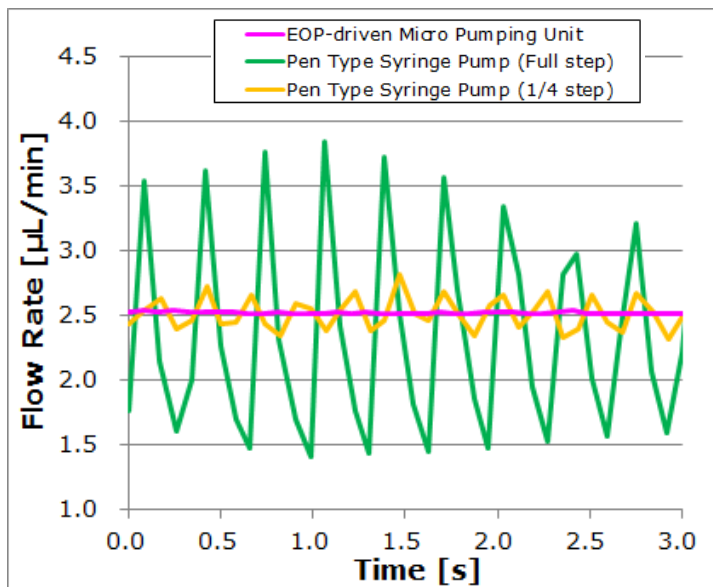
E-mail: info@takasago-elec.co.jp URL: <http://www.takasago-fluidics.com/>

Pulsation-free Performance (Flow Data Comparison)

<At 5.0 $\mu\text{L}/\text{min}$ flow>

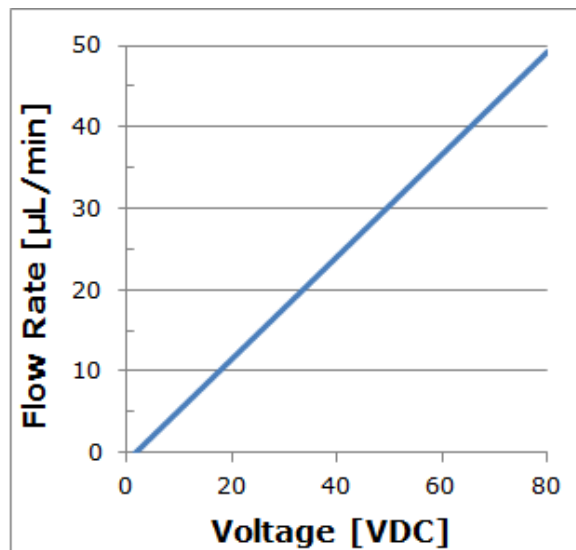


<At 2.5 $\mu\text{L}/\text{min}$ flow>

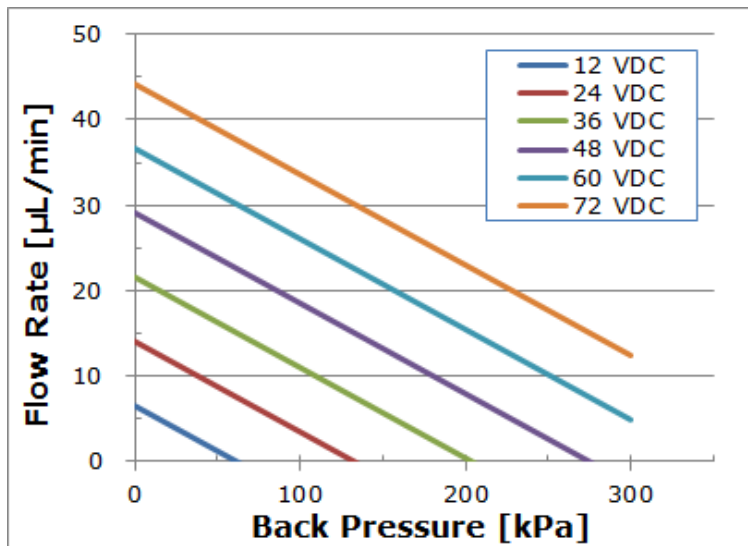


*Measured by a flow sensor at 80 ms intervals.

Flow Characteristics



*at 0 kPa back pressure



Dimensions

