



dolomite

mitos

standard microfluidic
products

pumps

pumps for microfluidic
applications



Innovators in microfluidic solutions

Why choose microfluidic pumps from Dolomite?

Dolomite provides a wide range of user-friendly pumps, specifically designed to manipulate fluids in microfluidic systems, helping users evaluate microfluidic concepts quickly and accelerate time to market.

Pressure Pumps

The **Mitos P-Pump** (Part No. 3200016) is a pressure pump providing **stable** and **pulseless flow** even at very low flow rates. The pump is ideal for droplet formation where a highly stable flow is required.

Operating over a wide **pressure range** of **0- 10bar**, the Mitos P-Pump offers a flexible solution for microfluidic systems operating from nl/min to ml/min and is suitable for use with viscous liquids.

The design features a lockable **pressure chamber**, which is easy to access and accommodates a wide range of fluid vessels. Users can easily control and change the settings of the pump via a display and **intuitive twist-and-click-knob**.

The pump is also available as a **Mitos P-Pump with 3-way Accessories** (Part No. 3200094) which can be used to pump **3 liquids simultaneously**.

Miniature Pumps

Dolomite's Miniature Pumps are ideal for **easy integration** into **experimental set-ups** and can be used in portable microfluidic devices.

- **Peristaltic Pump** offers a very compact and lightweight solution. Easy to use, the pump delivers up to 0.45ml/min, with flow rate adjusted by controlling voltage.
- **Piezoelectric Pump** provides a flexible solution for handling small volumes of fluid within microfluidic systems. The flow rate can be adjusted from 3ml/min to a maximum of 20ml/min.

Syringe Pumps

Dolomite's Syringe Pumps offer a versatile microfluidic pumping solution providing **extremely smooth flow**. The Syringe Pumps feature **advanced drive electronics** that minimize the pulsation from the stepper motor.

- **Mitos Duo XS-Pump** (Part No. 3200057) features two independent syringes and two multi-port valves allowing it to be configured in a number of ways.
- **Mitos Quad XS-Pump** (Part No. 3200056) offers two continuous flows with inline pressure sensing for each channel.

The compact modules are **extremely chemically resistant** and operate over a wide **flow range** from **0.1ul to 10ml/min**.

Dolomite's range of microfluidic pumps include:

Mitos P-Pump	3200016
Mitos P-Pump with 3-way Accessories	3200094
Mitos Duo XS-Pump	3200057
Mitos Quad XS-Pump	3200056
Peristaltic Pumps	3200024
Piezoelectric Pumps 3ml/min	3200138
Piezoelectric Pumps 7ml/min	3200139
Piezoelectric Pumps 20ml/min	3200140



Left: Mitos Duo XS-Pump (Part No. 3200057)

Above Left: Peristaltic Pump (Part No. 3200024)

Above Right: Piezoelectric Pump (Part No. 3200138)

Right: Mitos P-Pump with 3-way Accessories (Part No. 3200094)

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ISO 9001:2008 certified



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