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# Microfluidic Pumping System

*Mitos P-Pump system from Dolomite Center Ltd.*

MICRONANOFAB

## GENERAL DESCRIPTIONS:

- ✓ The Mitos P-Pump provides pulseless liquid flow with a precise pressure driven pumping mechanism.
- ✓ It operates over a wide pressure range (0-10 bar) with excellent response time and accuracy.
- ✓ Pressure driven flow is ideal for microfluidic systems where highly stable flow is required in the  $nl \cdot min^{-1}$  to  $\mu l \cdot min^{-1}$  range for applications such as droplet formation.
- ✓ The design features a lockable pressure chamber for safety, which is easy to access and accommodates a wide range of fluid vessels.

## FEATURES AND BENEFITS:

- ✓ Pulseless pumping performance
- ✓ Fast response time
- ✓ Wide pressure range (0 - 10bar) enabling use with systems of high fluidic resistance
- ✓ Works with laboratory N2 or Ar supply, gas bottle or compressor
- ✓ Efficient - uses samples directly from your container, avoiding mess and/or waste



## SYSTEM ARCHITECTURE:

- ✓ Pressure pumps
  - 3 Mitos P-Pumps basic.
- ✓ Remote Chambers
  - 2 Remote Chambers 400 and one 30.
- ✓ Connectors
  - Different adapters and fittings for Lab-on-a-chip application.

[www.imt.ro/MICRONANOFAB](http://www.imt.ro/MICRONANOFAB)

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