

Press Release

Bartels Mikrotechnik at ComPaMED 2008

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Market launch mp6

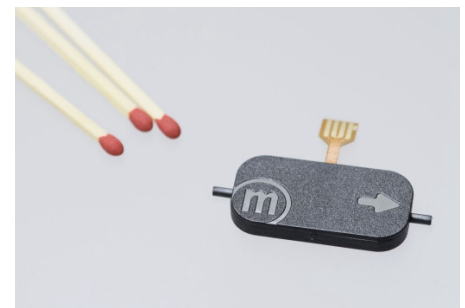
Smallest, fully automated produced plastic micropump on the market

Promptly to the ComPaMED 2008 the new micropump mp6 from Bartels Mikrotechnik GmbH is presented to the market. Based on the well known piezoelectric diaphragm technology of the mp5 the attention during the development of the next generation micropump was directed on an improved pressure behavior and an automated production process for high quantity applications. The powerful pumping performance will be demonstrated to interested customers by various application examples at the fair.

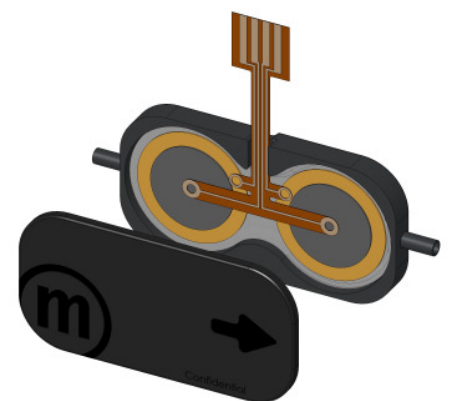
The double actuator system is the smallest fully automated produced piezoelectric diaphragm pump made from plastic on the market. With a size of $30 \times 15 \times 3,8 \text{ mm}^3$ the pump reaches a back pressure of 500 mbar for pumping water. A maximum flow rate of 5 ml/min can be achieved by the mp6. Additional to liquids with different viscosities the delivery of gases or mixtures of liquids and gases is possible. By adaptation of the design only one material is in contact with the pumped media, therefore the chemical resistance and the field of applications are improved. The used material PPSU is certified after USP class 6 and allows sterilization of the pump. With regard to the applications in medical technology it can be pointed out that through the unbeatable cost efficiency of the serial pump the use as disposable is also possible.

"Visitors at the fair should convince themselves of the benefits of the mp6, like the improved gas bubble tolerance and self-priming behaviour" advises product manager Severin Dahms. "Due to my present experience in customer specific requirements, I can say that the mp6 offers the right solution for many applications in different branches."

Since there are many areas of applications with various requirements for the micropump, the pump sometimes does not fulfill the requirements needed from the start. The simple principle of piezo membrane pumps allows the customer specific adaptation to specific requirements like e.g. flow- or back pressure rate, increased repeatability or materials.



The mp6 – the new power pack in micro dimension



Double actuator system mp6

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About Bartels Mikrotechnik

Ever since its foundation in 1996 Bartels Mikrotechnik GmbH has been a synonym for great innovative power and microtechnological know-how.

Bartels specializes in innovative applications of micro systems technology (MST) in the branches of classical consumer goods, mechanical engineering and medical technology. Microfluidics, microactuation and micromechanics constitute the company's technological focus. The international activities of Bartels Mikrotechnik subdivide into two business segments: Bartels microEngineering and Bartels microComponents.

At the ComPaMED Bartels Mikrotechnik demonstrates the innovative potential of microfluidics by showing own products like micropumps and microvalves and solutions developed for customers.

Bartels Mikrotechnik exhibits at the ComPaMED:

19. – 21. November 2008 in Düsseldorf, hall 8a, booth H 19 / 3 (IVAM joint pavilion)

Technical details to mp5 and mp6 as well as an overview on the offer of corresponding controller and other accessories can be found under:
<http://www.bartels-mikrotechnik.de/index.php/Micropumps.html>.