

## Press Release

*Bartels Mikrotechnik at ComPaMED 2007, Hall 8A – Booth H 19/3*

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### Customized micropumps

*A versatile platform for your requirements*

Micropumps are applied in so many areas that not every application can be matched with the same pump characteristics. The micropumps mp5 and mp6 from Bartels Mikrotechnik can be regarded as a flexible basis for a wide range of applications.

'The basic principle of the piezo membrane pump is simple, so an adaptation to manifold requirements is possible' illustrates product manager Severin Dahms. 'The customer decides!'

A larger flow range? Certain material demands? Higher flow accuracy? Some examples of performance adaptation are exhibited by Bartels Mikrotechnik at the ComPaMED 2007 in Düsseldorf. The prototypes of a high pressure, high volume flow and a controlled-loop micropump show some of the multitudinous possibilities.



The piezo membrane pump mp5

#### About Bartels Mikrotechnik

Bartels Mikrotechnik is providing innovative technologies and product solutions spanning various branches from its MEMS background. Next to the technological know-how, the long time experience in micro systems technology and the powerful affiliate network, the combination of MEMS solutions centre, excimer laser jobshop and own products defines the unique selling proposition of Bartels Mikrotechnik GmbH.

At the ComPaMED in Düsseldorf the creative competence of the company and innovation potential of micro systems technology is presented through customer specific microfluidic products and own products as micropump and microvalves.

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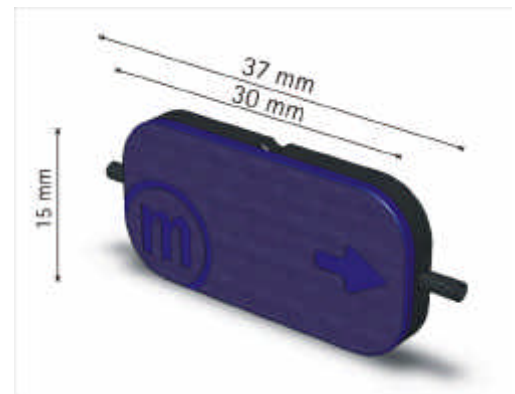
### **mp6 doubles pressure**

*The new micropump from Bartels Mikrotechnik*

At ComPaMED 2007 in Düsseldorf, Bartels Mikrotechnik GmbH presents the mp6, newest generation of its micropump for the first time.

By using a double actuator, the mp6 pump is achieving up to 500 mbars of pressure while a new drive signal makes pumping noiseless. The dimensions of this power pack are 37 x 15 x 3.5 mm<sup>3</sup> including fluidic connectors. The maximum flow rate is 5 ml per minute. Together with the high particle tolerance which is ensured by the established design of the flap valves, the mp6 shows similar pump characteristics to its predecessor mp5.

A valve with positive opening pressure to add backflow control when no actuation is present is currently under development.



CAD model of mp6

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