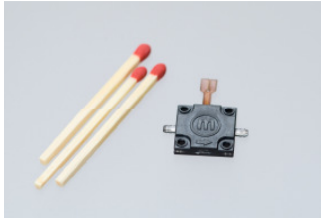
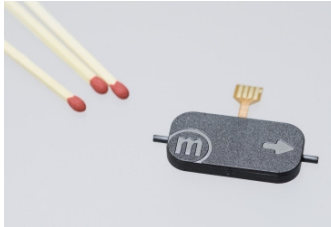
No space for compromises: Bartels Micropump



Micropump mp5.



mp6 – the new micropump generation.

Based on the piezomembrane principle Bartels Mikrotechnik GmbH offers two types of micropumps, the mp5 and mp6. The small power packs exhibit a flow performance of 5 respectively 6 ml/minute and can deal with a back pressure of 250 respectively 550 mbar, offering universal capabilities for liquids and gases. The pumps are ingeniously simple and their advantages are next to the small size and low weight its robustness, long lifetime and high reliability.

The pumps are driven via frequency and amplitude allowing flexible adjustment in accordance to the system requirements at low energy consumption. Different control units are offered, also battery powered versions for use in portable devices.

Build from plastics, with only one material (PPSU) in contact with the pump medium, the automated serial production offers unbeatable cost effectiveness.

Performance data:

General Specifications	mp5	mp6
type	piezoelectric diaphragm pump	
pump medium	liquids or gases	liquids, gases and mixtures
outer dimensions (without fluidic connectors)	14 x 14 x 3.5 mm³	30 x 15 x 3.8 mm³
fluidic connectors	tube clips, 2 mm outer diameter	tube clips, 1.6 mm outer diameter
operating temperature	0 - 70 °C	
life time	> 5000 h	
materials in contact with media	PPSU/PI/NBR	PPSU
particle tolerance	∅ < 50 µm	
max. flow, water[1]	5 ml/min (100 Hz)	6 ml/min (100 Hz)
max. pressure, water[1]	250 mbar (100Hz)	550 mbar (100 Hz)
max. flow, air[1]	15 ml/min (300 Hz)	On request
max. pressure, air[1]	30 mbar (300 Hz)	On request

Content is subject to changes without notice.

[1]Values taken with electronic controller mp-x set to 250 V amplitude, SRS signal

Bartels mikrotechnik

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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.

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