

We are always striving for the better and therefore continuously develop new and innovative products which exactly fit our customer's needs. This overview shows our latest and upcoming developments!

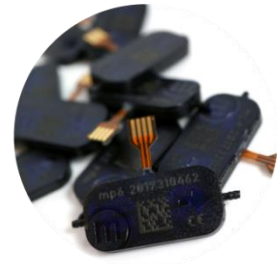
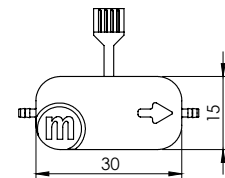
On behalf of Bartels Mikrotechnik GmbH,

Frank Bartels

New products!

Technical Data of the mp6-liq ^{1, 2}

mp6-liq	Order code: mp6-liq
Pump type	piezoelectric diaphragm pump
Number of actuators	2
Dimensions without connectors	30 x 15 x 3,8 mm 1.1811 x 0.5906 x 0.1498 in.
Weight	2 g
Fluidic connectors	barbed tube clip, (outer diameter 1.9 mm, length 3.5 mm) ³
Electric connector	flex connector 1.25 mm pitch
Power consumption	~ 50 mW ⁶
Self-priming	yes ⁴
Pumping media	Liquids and mixtures
Operating temperature	0–70°C
Life time	5000 h ⁶
IP code	IP33 ⁷
Material in contact with media	polyphenylsulfone (PPSU) ⁸
Suitable pump driver	mp-x, mp6-EVA, mp6-OEM, mp6-QuadEVA, mp6-QuadOEM and mp6-QuadKEY
Typical values of flow and back pressure for selected media (values measured with mp-x: 100–200 Hz, 250 V, SRS):	
Liquids – water	
min. volume flow \dot{v} (p=0)	12 ml/min ⁵
min. back pressure p ($\dot{v}=0$)	900 mbar ⁵



- 1 Typical values. Values can vary under application conditions. Content is subject to changes without notice.
- 2 Preliminary values, changes will occur on series production
- 3 Recommended tubing: Tygon tubing 1.3 mm inner diameter.
- 4 Conditions: Suction pressure > 10 mbar, DI water, settings mp-x: 100–200 Hz, 250 V, SRS, the max. volume flow will be reached after a few minutes of operation time.
- 5 Conditions: DI water (25°C), room temperature 23°C, settings mp-x: 100–200 Hz, 250 V, SRS
- 6 Conditions: settings mp-x: 100 Hz, 250 V, SRS
- 7 Can be changed to IP44.
- 8 For media compatibility details please find more information in the corresponding media compatibility sheets.

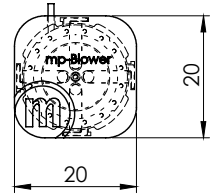


New products!

Technical Data of the mpBlower ^{1, 2}

The mpBlower is the perfect match for **your gas application!**

mpBlower	Order code: mpBlower
Pump type	piezoelectric diaphragm pump
Number of actuators	1
Dimensions without connectors	20 x 20 x 5,8 mm without connectors
Weight	3 g
Power consumption	~ 50 mW ³
Pumping media	Gases
build shape	closed system for stable operation
Typical values of flow and back pressure for selected media (values measured with mp-x: 100 Hz, 250 V, SRS):	
Gases – air	
min. volume flow \dot{v} (p=0)	700 ml/min ^{4, 5}
min. back pressure p ($\dot{v}=0$)	14 mbar ⁴



- ¹ Typical values. Values can vary under application conditions. Content is subject to changes without notice.
² Preliminary values, changes will occur on series production
³ Conditions: electronics settings: 22 kHz \pm 0.5, 20 V, rect. signal
⁴ Conditions: air, room temperature, 23°C, electronics settings: 22 kHz \pm 0.5, 20 V, rect. signal
⁵ Temperature influences flowrate

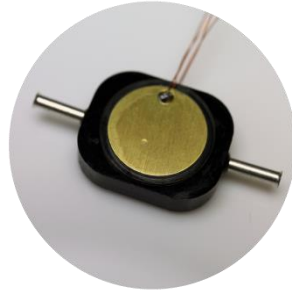
mp10

Coming soon

Sometimes, bigger is better. The mp-10 will migrate the mp-6 principle to a larger piezo element, reaching higher pressures and flowrates than with the smaller mp6.

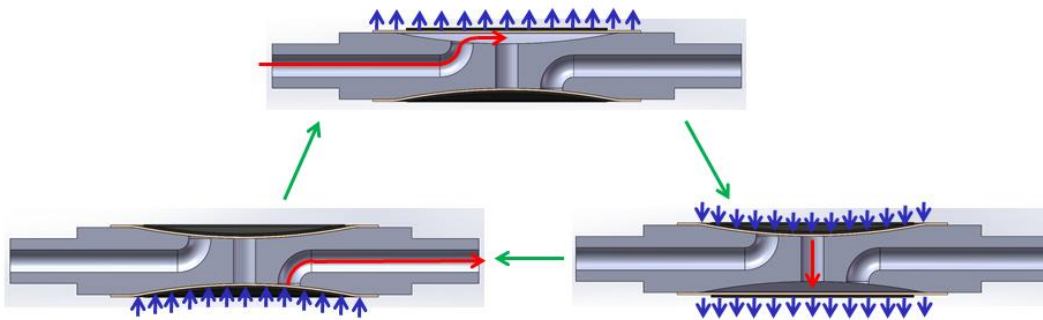


ONE step further!



mpONE

This monolithic concept of the classic piezo pump will allow bi-directional pumping, restricting the flowrate or closing the fluid channel as an active or passive valve – all with the same pump device!

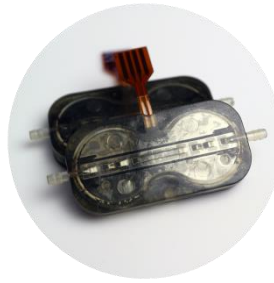


Even better than before

mp6-gas+

If you need a **higher back pressure** for your application, this pump might be for you. The mp6-gas works with 100 mbar backpressure at 300 Hz. The new model mp6-gas+ works at **up to 150 mbar!**

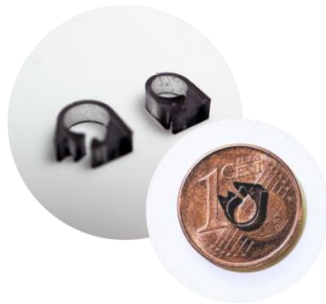
Fresh colors!



You want to see **what is going on inside your pumping system**? Soon all our pumps will feature new coloring. The **bottoms** are now **transparent**, so you can spot any lint or other particles blocking your system as soon as possible. Plus: the joy of watching everything seamlessly work together work is unbeatable.



mp-hc



New in!

The **smallest hose clamp on the market!** It prevents leakage if the pumps are used in high pressure applications. Even though its dimensions are tiny, it is easy to open and close

Need any more information? Contact us!

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Tutorials and helpful answers to frequently asked questions can be found in our FAQ

<http://blog.bartels-mikrotechnik.de>

or on our YouTube channel

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