

BARTELS

The Bartels Pump

The Bartels Pump | BP7 - Tubing

DESCRIPTION

The Bartels Pump BP7 is a cutting-edge piezoelectric diaphragm pump designed for microfluidic applications. Engineered for efficiency and versatility, this pump handles both liquids and gases, making it an essential tool across multiple industries.

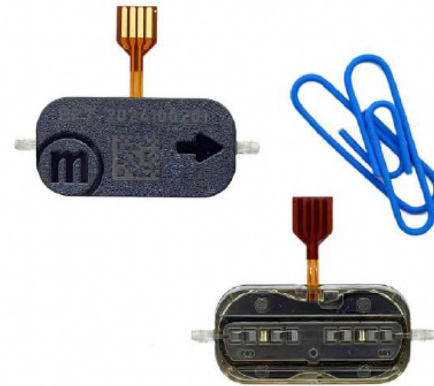
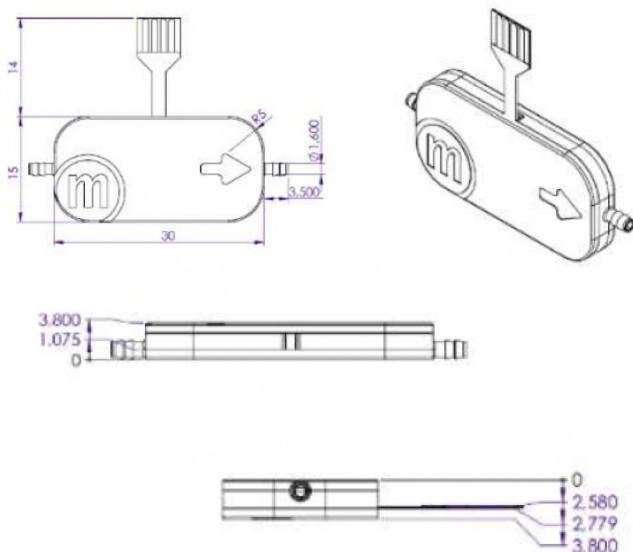
FEATURES

- Low maintenance
- Long life time
- Media separated (Liquids & Gases)
- Small & compact package size
- Low noise level
- Low power consumption
- Small internal volumes
- High Batch Production

APPLICATIONS

- Point-of-care testing (POCT)
- Air quality monitoring
- Liquid handling
- Pressure-driven Flow
- Gas & liquid analytics
- Liquid Dosing

DIMENSIONS



SPECIFICATIONS

Pump type	piezoelectric diaphragm pump
Dimensions without connectors	30 x 15 x 3,8 mm 1.1811 x 0.5906 x 0.1498 in.
Typ. Dynamic Range Flow Rate (Water)	0 - 14000 µl/min ¹
Typ. Dynamic Range Pressure (Water)	0 - 500 mbar ¹
Typ. Dynamic Range Flow Rate (Air)	0 - 35000 µl/min ¹
Typ. Dynamic Range Pressure (Air)	0 - 140 mbar ^{1,8}
Operating temperature	0 - 70°C
Internal Volume	~ 30 µl
Weight	2 g
Burst pressure	1.5 bar
Life time	5000 h ²
Power consumption	~ 50 mW ²
IP code	IP33 ⁴
Material in contact with media	Polyphenylsulfone (PPSU) ^{5,6}

- 1 Typical values can vary under application conditions. Content is subject to changes without notice.
- 2 Conditions: settings mp-labtronix: 100 Hz, 250 V, SRS
- 3 Conditions: air, room temperature 23°C, settings mp-labtronix: 300 Hz, 250 V, SRS, the max. volume flow will be reached after a few minutes of operation time.
- 4 Can be changed to IP44.
- 5 For media compatibility details please see section 3.9 in this document.
- 6 Other materials available on request
- 7 Recommended tubing: Tygon tubing 1.3 mm inner diameter.
- 8 0-150 mbar refers to mp6-gas+, mp6-liq meets at least 0-80 mbar, mp6-gas meets at least 0-100 mbar