



MP-FM

# Full PTFE Bellows Pump

## Series MP®

Version MP-FM

### Special Features

- **Compact design**
- **Identical spare parts with MP-F pump**
- **Pump head parts made of PFA**
- **Corrosion-resistant**
- **100 % lubricant-free**
- **Gas-tight**
- **Maintenance-free**
- **Long service life**
- **A wide variety of connections available**

### Application

The compact bellows pump MP-FM is suitable for pumping corrosive gases. In its performance and design, it is specially designed for requirements in the analysis technique.

### Description

The small MP-FM series has all the advantages of the large MP-F version.

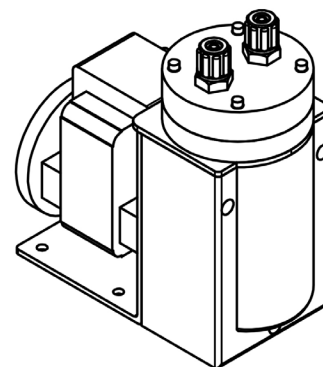
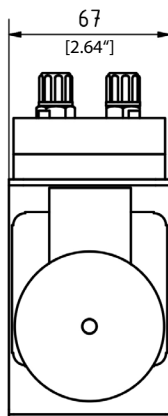
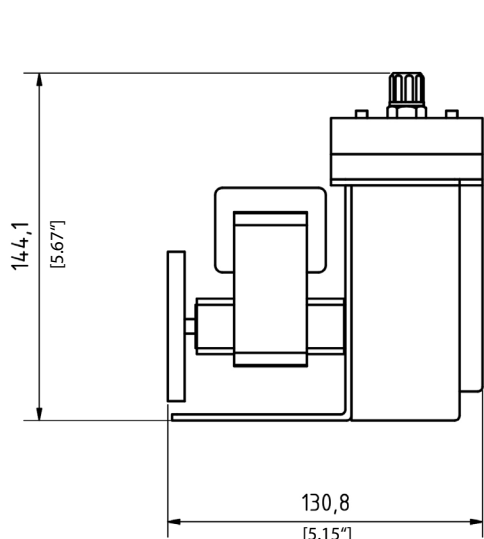
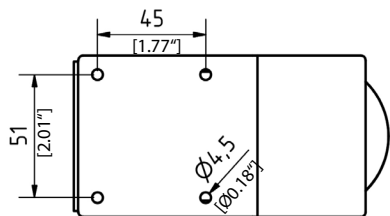
All parts of the bellows pump MP-FM which get in contact with the gas sample are corrosion-resistant. As an option for connecting the pump, the upper pump head is also available in stainless steel.

The pump works absolutely lubricant-free, so gases remain analytically unchanged. Due to a special bellows and valve system, the pump operates maintenance-free with a long service life. The simple valve design ensures low maintenance costs.

Two elbow fittings can be used for the sample gas connection on the pump head

The pump is available for 230 V or 115 V mains supply. Special voltages are also possible. If you have any questions about special voltages, please do not hesitate to contact us.

## Dimensions



Drawing shows pump without optional motor housing

Dimensions in mm [inches]

## Technical Data

Bellows pump	MP-FM
Part No. 230 V 50 Hz	05 P 0500
Part No. 115 V 60 Hz	05 P 0500a
Voltage tolerance	In accordance with IEC 60034-1 Voltage $\pm 5\%$ Frequency $\pm 2\%$
Degree of protection	IP 20
Capacity max.	400 NI/h (approx. 5 l/min) with a counter-pressure of $\pm 50$ mbar on the vacuum and pressure side
Operating pressure	max. 0.4 to 2.5 bar abs.
Gas sample temperature	-30 to +140 °C [-22 to +284 °F]
Ambient temperature	+10 to +50 °C [50 to 122 °F] / 0 to +50 °C [32 to 122 °F] for dry sample gas
Storage temperature	-20 to +60 °C [-4 to +140 °F]
Current consumption	230 V : 0.35 A / 115 V : 0.63 A
Power consumption	65 W
Gas connections	G 1/8" i DIN ISO 228/1
Material of sample contacting parts	PTFE, PFA, FEP
Operating mode	100 % continuous duty, pump start-up only in pressure-free condition
Electrical equipment standard	EN 60204-1
Dimensions (W x H x D)	67 x 144.1 x 130.8 mm [2.64" x 5.67" x 5.15"] without optional motor housing
Weight	1450 g [3.2 lbs.]