MP48S/R

Analytical Diaphragm Pump Series MP®

Versions MP48S/R

Special Features

- **Corrosion-resistant**
- **100 % lubricant-free**
- **High level of gas tightness**
- **Maintenance-free**
- **Long service life**
- **Energie efficiency level IE2**

Application

The new MP48S/R diaphragm pump will replace the MP47/X in the future. The MP48S/R complies with energy efficiency level IE2 in accordance with Directive (EU) 2019/1781.

The diaphragm pump is suitable for conveying corrosive gases.

The pump's performance and design are specially geared to the requirements of analysis techniques.

Description

All parts of the diaphragm pump MP48 in contact with the medium are made of PTFE or FFPM. The conveyed gas remains analytically pure due to the completely lubricant-free pump. A special diaphragm and valve system ensures practically maintenance-free operation and a long service life.

The pump is available for 230 V or 115 V power supply.

With a flow rate of 16 Nl/min the MP48 is optimally designed for applications with higher power requirements.

The MP48S/R is supplied as standard with an integrated needle valve in the pump head for flow adjustment.

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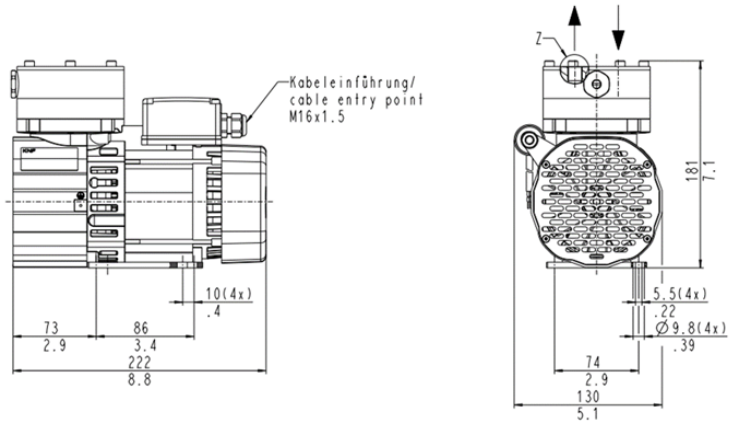
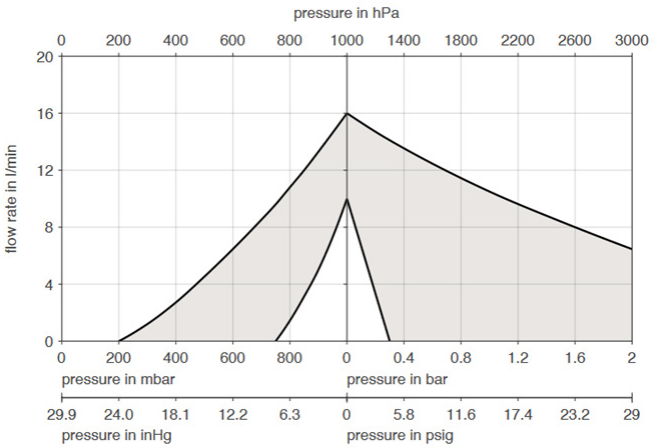
Dimensions

Pump MP48S/R



Dimensions in mm/Inches

Performance characteristics MP48S/R



Flow rate determined at 20 °C, 1013 mbar abs. (pressure range 0 to 1013 mbar abs. according to ISO 21360-1/2)

Technical Data

Diaphragm pump	MP48S/R for 230 V	MP48S/R for 115 V
Part No.	02P4810	02P4810A
Voltage	230 V	115 V
Frequency	50 Hz	60 Hz
Degree of protection: motor	IP20 EN 60529	
Capacity	Max. 10 to 16 Nl/min ±10 % at atmospheric pressure	
Operating pressure max.	3 bar abs.	
Ambient temperature	+5 to 60 °C [41 to 140 °F]	
Relative humidity max.	80 % at temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C	
Sample temperature	+5 to +60 °C [41 to 140 °F]	
Storage temperature	+5 to 40 °C [41 to 104 °F]	
Transport temperature	-10 to +60 °C [14 to 140 °F]	
Current consumption	0.7 A	1.4 A
Power rating	100 W	
Gas connections	G 1/4" female, DIN ISO 228/1	
Material of sample-contacting parts	PTFE modified, PTFE, FFPM	
Operation mode	100 % continuous duty, start of the pump only without pressure	
Weight	5.8 kg [≈ 12.8 lbs]	

Special voltages/frequencies on request
Please note: Nl/h and Nl/min refer to the German standard DIN 1343 and are based on these standard conditions: 0 °C [32 °F], 1013 mbar.

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