



MP47.

Analytical Diaphragm Pump Series MP®

Version MP47.../D
with a double diaphragm safety system/
diaphragm break monitoring system

Special Features

- Corrosion-resistant
- 100 % lubricant-free
- Gas-tight
- Maintenance-free
- Long service life
- Diaphragm break monitoring possible

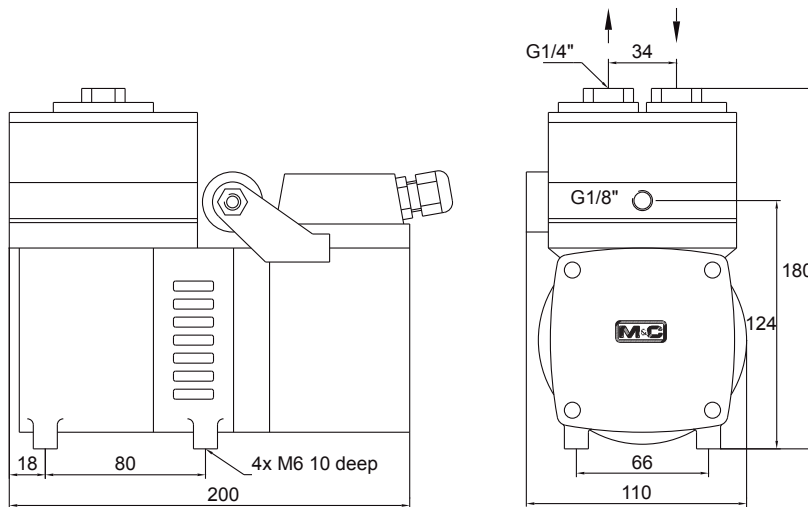
Application

When conveying aggressive, toxic or hydrocarbon-containing gases, it is often necessary to continuously monitor the tightness of the pump diaphragm for safety-related reasons.

Description

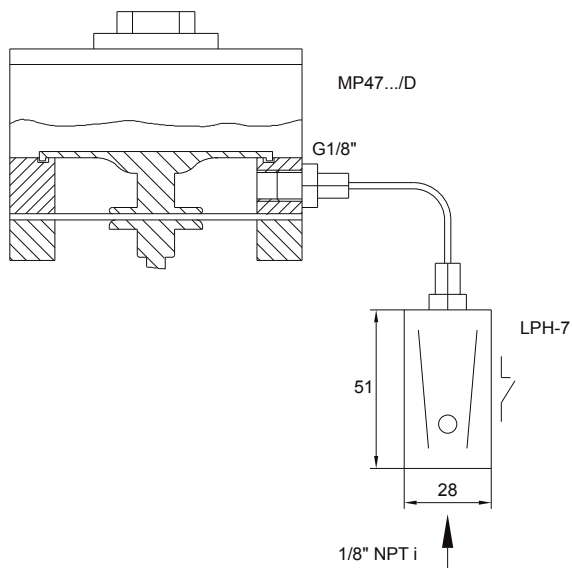
For the pumps of the MP47 series, M&C offers an optional diaphragm break monitoring system. Below the pump diaphragm, a monitorable pressure chamber is integrated which is shut off from the outside by a further diaphragm. Working and safety diaphragms form a pressure-tight safety chamber. With a flow sensor and an external pressure medium, this safety chamber is monitored with regard to tightness. There is no consumption of monitoring gas with a functional pump.

Dimensions of analytical diaphragm pump with a double diaphragm safety system type MP47.../D



Dimensions in mm

Flow sensor LPH-7 incl. connection set MP47.../D mounted on pump MP47.../D



The optional available flow sensor LPH-7 is provided with a connection set consisting of a mounting clip, 2 x male connectors 1/8"- 2 mm and 0.5 m PTFE tube 1 x 2 mm.

Mounting position:	Vertical
Alarm level:	7 NI/h
Switching function:	NC or NO depending on mounting position NC = connection wires pointing upwards
Contact rating:	DC max. 200 V, 50 W, 1 A; AC max. 150 V, 70 VA, 0.7 A
Material:	Acrylic, PTFE, nickel-plated brass

Depending on the application, use N2 or compressed air as monitoring gas with max. 1.7 bar pressure 1/8" NPT i (but at least sample gas pressure plus 0.2 bar).

– For further details see the data sheet for the standard pump: "Analytical Diaphragm Pump Series MP® Versions MP47, MP47-Z, MP47.../EX". – Please note: NI/h and NI/min refer to the German standard DIN 1343 and are based on these standard conditions: 0 °C [32 °F], 1013 mbar.

Part No. 02P9035 02P9037	Extra charge for analytical diaphragm pump with a double diaphragm safety system MP47.../D Extra charge for flow sensor LPH-7 NI/h incl. connection set MP47.../D
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