

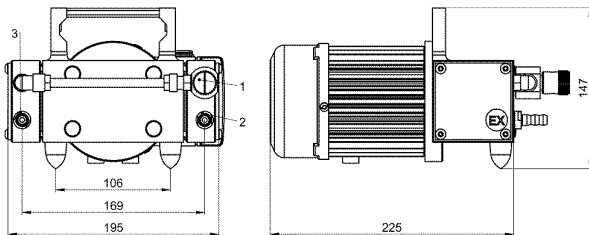
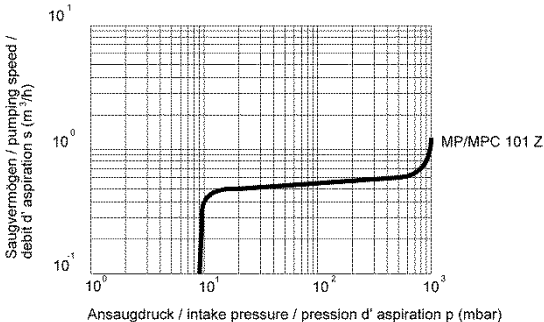
Data Sheet (EN)

Translation of the german original

Designation, Model:	Order number:
Diaphragm pump chemical resistant, MPC 101 Z	412522

Figure:	Description:
	The two-stage diaphragm pump with gas ballast valve consists of a pump body and a drive motor. The pump casing contains the drive unit and two pump heads. Each pump head contains a diaphragm and the work valves. Both pump heads are arranged opposite each other. The pump heads are driven via an eccentric shaft with a connecting rod. Opening the gas ballast valve in the suction line allows air to flow into the pump chamber. This prevents condensation and flushes the pump clear. Operation leads to increasing the ultimate pressure and the operating temperature.

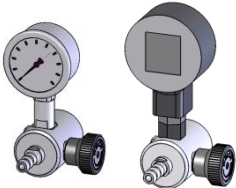
Application:	Materials of the medium-affecting parts:	
The Diaphragm pump MPC 101 Z is intended to: - Pumping and compressing neutral and aggressive gases and vapours according to the resistance of the indicated materials - Generating a vacuum down to an ultimate pressure < 8 mbar - Use in physical and chemical laboratories in trade and industry - Use for vacuum filtration, vacuum distillation and vacuum drying, and other vacuum technology applications	Seals	EPDM
	Screw fittings / Connection elements	PVDF, PP
	Valves	PEEK
	Diaphragms	Elastomer with PTFE layer
	Vacuum hoses	PTFE
	Connection heads / Pump heads	PTFE with carbon-fibre reinforcing

Dimensional drawing:	Intake pressure-/Pumping speed - Diagram:
 (1) Gas ballast valve (2) Intake port (3) Exhaust port	

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Technical data:		
Parameter	Data	Unit
Pumping speed DIN 28432	1.0 / 1.1	m³/h
	16.7 / 20	l / min
Ultimate pressure	< 8	mbar
Ultimate pressure with gas ballast	18	
Max. Inlet-/Outlet pressure	1	bar
Intake port / Exhaust port	Hose nozzle DN 8 for hose inside diameter 8 mm	-
Ambient temperature	+ 10 to + 40	°C
Max. Operating gas temperature	+ 40	
Bearing	maintenance-free	-
Noise level DIN EN ISO 2151	< 44	dB (A)
Voltage	230	V
Frequency	50/60	Hz
Rotation speed	1500	min⁻¹
Motor power	60	W
Operating mode	S 1	-
Type of protection DIN EN 60529	IP 54	
Class of insulation DIN EN 60034-1	F (160°C)	
Type Examination Certificate no.	WELCH_ATEX_03-01	-
Designation EX	 II3G IIC T3 X (internal Atm. only)	
Weight	6.5	kg
Dimensions W/D/H	195 / 225 / 147	mm

Accessories:			
	Vacuum Control Box Model: VCpro 601 for measuring and regulation of vacuum Order no. 600100		Vacuum Regulator with dial gauge, analog / digital Model: DBR-B with hose nozzle DN8 to pressure adjustment - suction side Order no. 700458-10 (analog) Order no. 700458-11 (digital)
	Vacuum hose, Rubber 18 / 8 x 5 mm Order no. 828310-4		

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