

CHEMISTRY DIAPHRAGM PUMP

MZ 1C



- Chemistry-design diaphragm pumps are an excellent solution for continuous, oil-free pumping of corrosive gases and vapors. The two-stage construction provides the advantageous combination of high pumping speed and low ultimate vacuum. All major parts in contact with pumped media are made of chemically resistant fluoroplastics. Well-proven PTFE-sandwich diaphragms increase reliability and extend operating life. The MZ 1C pump is equipped with a gas ballast valve for continuous condensate purge increasing the pumping capability of condensable vapors. It features slim design for space-saving installation and good vacuum performance. A manual vacuum regulator valve with dial gauge for adjustment of pumping speed and ultimate vacuum is available as accessory.

PERFORMANCE FEATURES

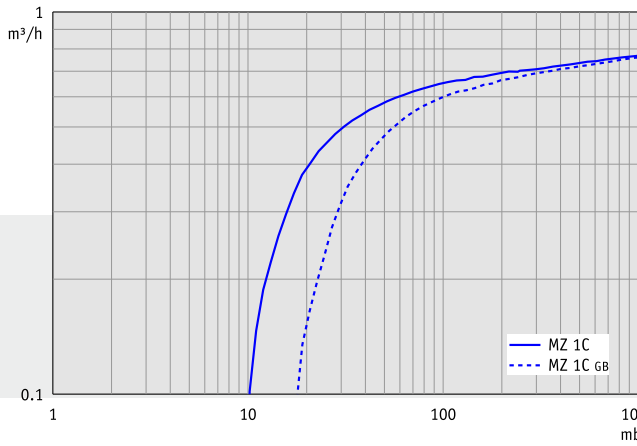
- outstanding chemical resistance and superior vapor tolerance
- convenient, quick and simple to use due to the new top mounted power switch
- optimized vacuum even with gas ballast for continuous purge
- whisper quiet and very low vibration
- maintenance-free drive system and proven long diaphragm life



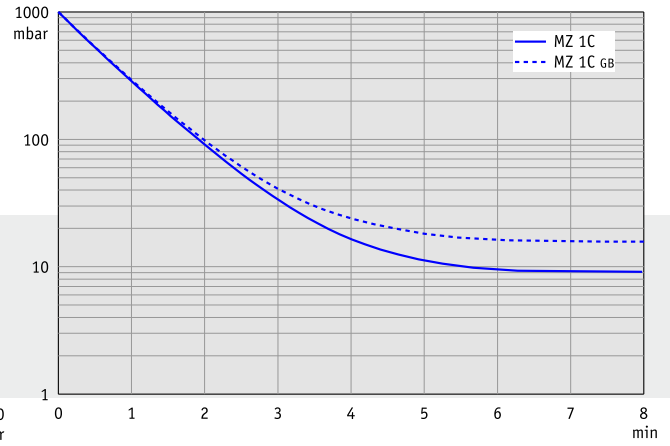
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0.75 m³/h
12 mbar

APPLICATIONS

Two-stage chemistry-design diaphragm pumps are an excellent choice for continuous, oil-free pumping of gases at medium vacuum requirements. In contrast to water jet pumps, they do not consume water and therefore do not produce any contaminated waste water. Typical applications are rotary evaporators, gel dryers, filtrations and many other lab applications. The MZ 1C is a powerful pump for smaller vacuum apparatus enabling continuous pumping of solvent vapors. It's a compact, stand alone pump with low ultimate vacuum. If the process requires atmospheric condensation of pumped vapors or electronic vacuum control, we recommend the pump families based on the MZ 2C NT or MD 1C.



Pumping speed graph at 50 Hz with/without gas ballast



Pump down graph at 50 Hz with/without gas ballast (10 l volume)

Pumping speeds and pump down times are only for information. Ultimate vacuum specification: See "Technical Data"

TECHNICAL DATA

		MZ 1C
Number of heads / stages		2 / 2
Max. pumping speed 50/60 Hz	m ³ /h	0.75 / 0.9
Ultimate vacuum (abs.)	mbar	12
Ultim. vac. (abs.) with gas ballast	mbar	20
Max. back pressure (abs.)	bar	1.1
Inlet connection		Hose nozzle DN 10 mm
Outlet connection		Hose nozzle DN 10 mm
Rated motor power	kW	0.06
Degree of protection		IP 40
Dimensions (L x W x H), approx.	mm	312 x 121 x 170
Weight, approx.	kg	6.7

ORDERING INFORMATION

230 V ~ 50-60 Hz	CEE	Ex*	724100
230 V ~ 50-60 Hz	UK	Ex*	724102
230 V ~ 50-60 Hz	CN	Ex*	724106
100-120 V ~ 50-60 Hz	US		724103
100-120 V ~ 50-60 Hz			
200-230 V ~ 50-60 Hz	IEC plug EN 60320	Ex*	724105**

Ex*: ATEX: II 3G IIC T3 X, Internal Atm. only

**Please order power cable separately ▶ pg. 179

ACCESSORIES

Rubber vacuum tubing DN 10 mm (686002)

Chemistry vacuum regulator valve unit for ME/MZ 1C (696843)

ITEMS SUPPLIED

Pump completely mounted, ready for use, with manual.

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