

Chemistry diaphragm pump MV 10C EX

[Link to the website](#)

Product description

ATEX chemistry diaphragm pumps offer all advantages of oil-free chemistry diaphragm pumps. Typical applications are rotary evaporators and drying ovens with potentially explosive atmospheres. The ATEX approval includes the interior of the pump (in contact with pumped gases) as well as the surrounding area of the pump. All wetted parts of the pumps have excellent chemical resistance and are mainly made of antistatic materials. Included in delivery is a separate gas ballast connection part for use of inert gas.

Performance features

- outstanding chemical resistance and superior vapor tolerance
- flame proof motor with integrated, self-locking overload and excess temperature protection for direct 230V / 50Hz single phase power supply. No need for any additional and specific overcurrent protection device
- overpressure safety relief valves internally and at outlet
- safety diaphragm technology with option for inert gas purge and detection of diaphragm breakage

Ordering data

Product name	Nominal mains voltage mains frequency	Plug type	Articleno.
MV 10C EX	230 V 50 Hz	Open wires	20696945

Items supplied

Pump completely, with manual, 10 m cable without plug at each of the two motors.

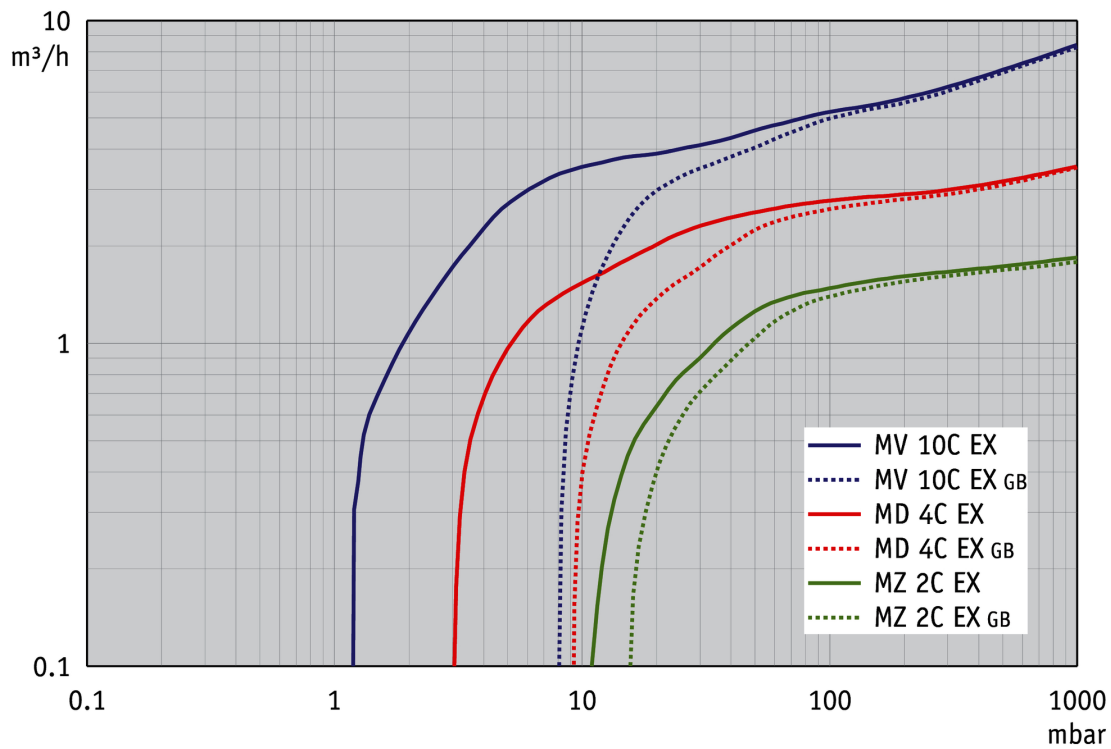
Accessories

- PTFE-tubing (antistatic) with small flanges KF DN 16 (20686031)
- PTFE-tubing (antistatic) with small flanges KF DN 25 (20686033)
- Set of diaphragms and valves MZ 2C EX, MD 4C EX (2x), MV 10C EX (4x) (20696837)

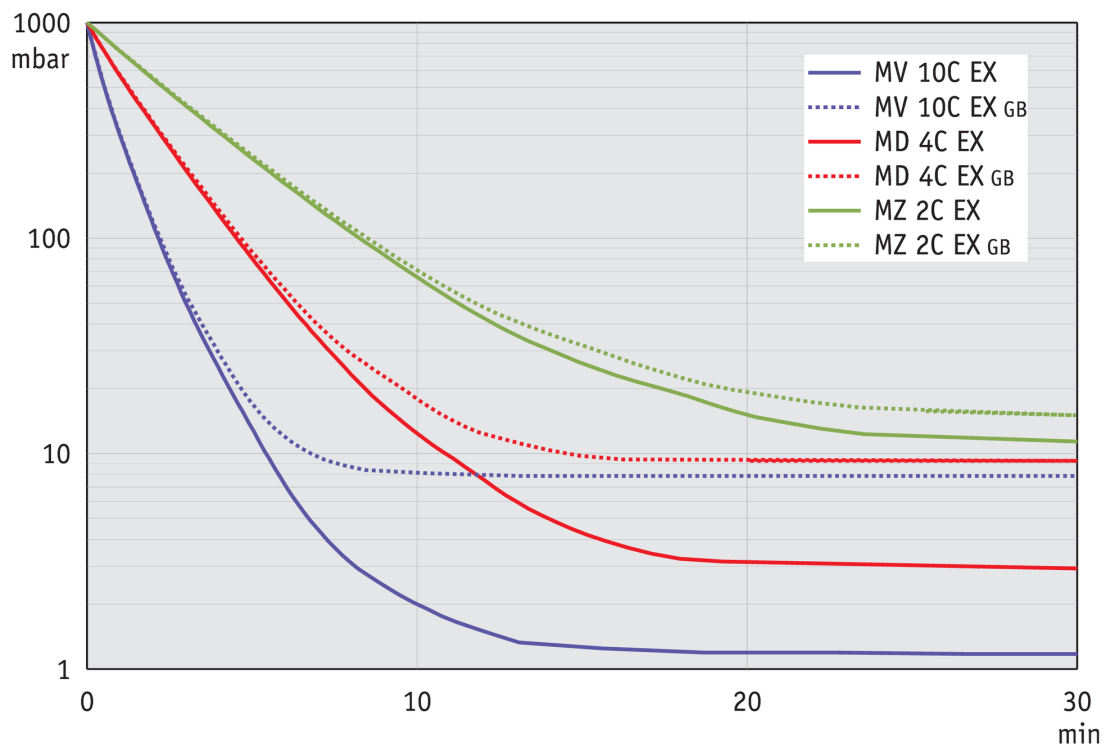
Technical data

Max. pumping speed 50 Hz (m³/h)	8.1 m³/h
Ultimate vacuum	2 mbar / 1.5 torr
Ultimate vacuum with gas ballast	10 mbar / 7.5 torr
Number of heads	8
Number of stages	4
Permissible ambient temperature range (operation)	10 - 40 °C
Permissible ambient temperature range (storage)	-10 - 60 °C
Max. outlet pressure (abs.)	1.1 bar
Inlet connection	small flange KF DN 25
Outlet connection	small flange KF DN 16
Rated motor power	0.5 kW
Rated speed 50/60 Hz	1500 min ⁻¹
Protection class IEC 60529	IP 54
Dimensions (L x W x H)	560 mm x 430 mm x 410 mm
Weight	63.2 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	52 dBA
ATEX conformity	Pumping chamber (pumped gases): II 2G Ex h IIC T3 Gb X Environment with inert purge gas: II 2G Ex h IIB T4 Gb X Environment without inert purge gas: II 3G Ex h IIB T4 Gc X Motor: II 2G Ex db IIB T4 Gb
NRTL certification	No

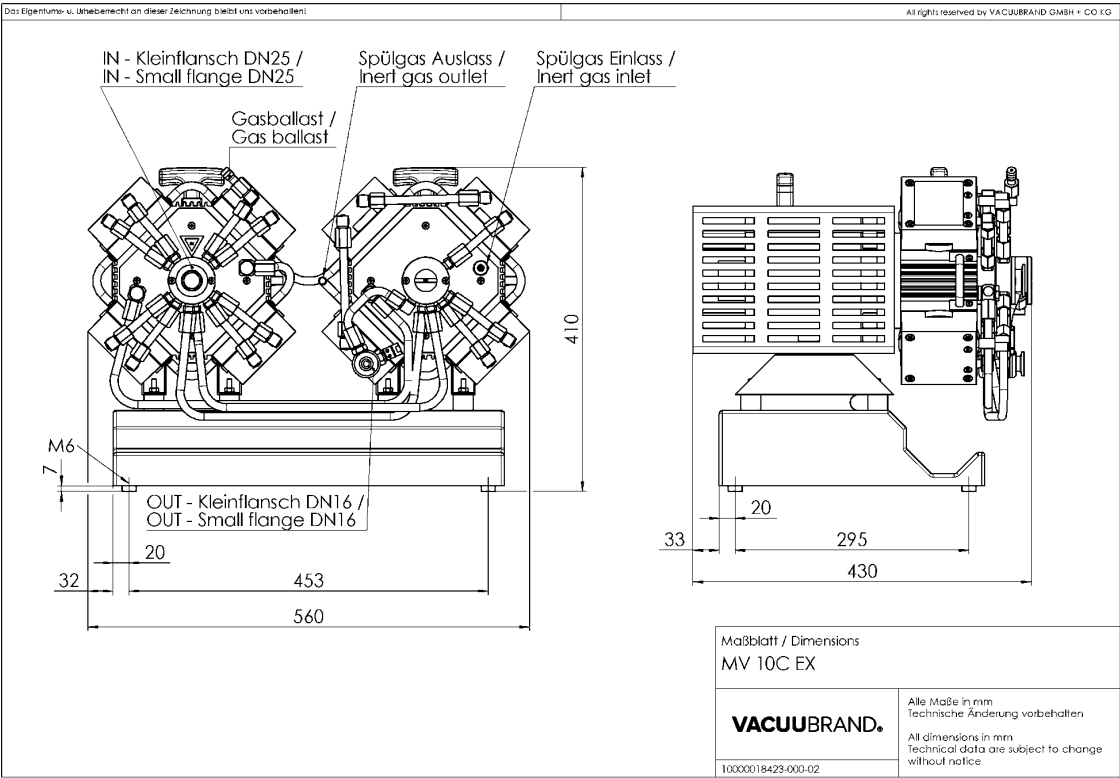
Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (100 l volume)



Dimension sheet



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