

VARIO®-SP diaphragm pump MD 1 VARIO-SP



Link to the website

Product description

The three-stage MD 1 VARIO-SP diaphragm pump, with its variable speed drive system, attains significantly higher pumping speed and a better ultimate vacuum than the corresponding fixed speed pump. The brushless 24V DC motor (maintenance-free) enables easy integration of the pump into other equipment, and operation independent of line voltage. The pump is extraordinarily silent and vibration-free, with an extended lifetime for its diaphragms.

Performance features

- contamination-free pumping and evacuation
- high flow rate even near ultimate vacuum
- variable speed: Fast pump down at high motor speed, with reduced speeds to maintain vacuum
- very powerful and extremely compact; whisper quiet and ultra-low vibration, especially at low speed
- customized versions available



Ordering data

Product name	Nominal mains voltage mains frequency	Plug type	Articleno.
MD 1 VARIO-SP	24 V DC	Open wires	20696101

Items supplied

Pump completely mounted, ready for use, with 2 m cable without plug and with manual

Accessories

- Rubber vacuum tubing DN 6 mm (20686000)
- Screw-in flange, stainless steel KF DN 16 / G1/8" (20637425)
- Set of diaphragms and valves MD 1, MV 0.5 (20696824)

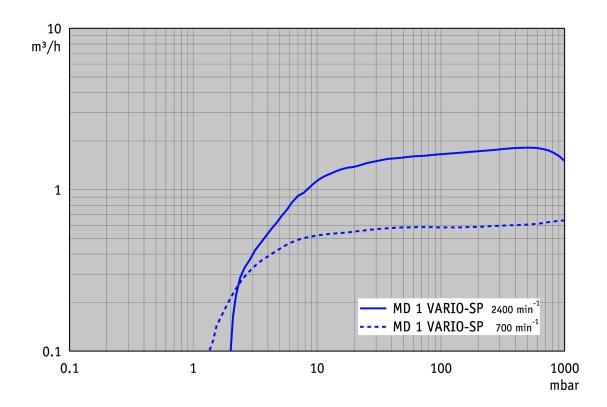


Technical data

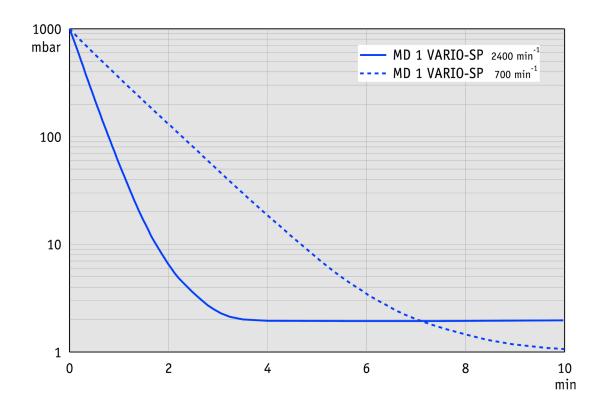
Max. pumping speed 50 Hz (mbar)	1.8 m ³ /h	
Max. pumping speed 60 Hz (cfm)	1.06 cfm	
Ultimate vacuum	1 mbar / 0.75 torr	
Number of heads	4	
Number of stages	3	
Permissible ambient temperature range (operation)	10 - 40 °C	
Permissible ambient temperature range (storage)	-10 - 60 °C	
Max. outlet pressure (abs.)	1.1 bar	
Inlet connection	Hose nozzle DN 6 mm	
Outlet connection	Silencer / G1/8"	
Rated motor power	0.064 kW	
Motor speed range	200 - 2400 min ⁻¹	
Protection class IEC 60529	IP 20	
Dimensions (L x W x H)	223 mm x 143 mm x 163 mm	
Weight	4.1 kg	
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU-PURE®)	37 dBA	
ATEX conformity	II 3/- G Ex h IIC T3 Gc X Internal Atm. only	
NRTL certification	Yes	

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Pumping speed graph at 50 Hz



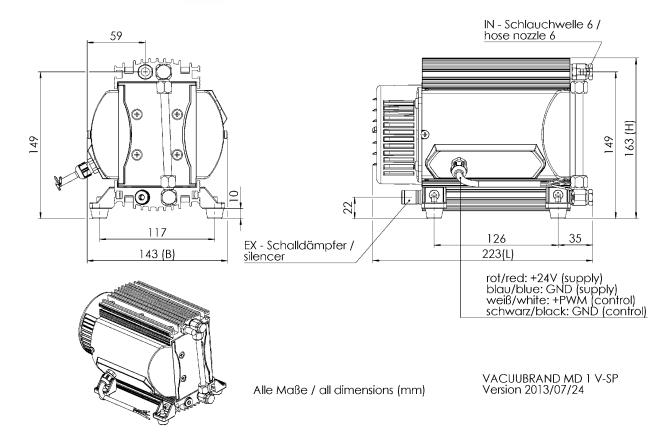
Pump down graph at 50 Hz (10 l volume)



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Dimension sheet





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