

MVP DC 系列

隔膜泵作为 HiPace 涡轮分子泵的前级泵

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增值属性



易于系统集成，可实现完整的真空解决方案



干燥、无油的真空环境

干净、干燥的真空

隔膜泵完全无油运转，不产生任何颗粒物。因此，它非常适合需要干净和干燥真空的应用场合。隔膜泵的另一个主要优点是寿命长。在要求较高的地方，隔膜泵不仅可靠地执行工作，而且振动和噪音都是最小的。噪声级通常低于 50 dB(A)。

低压 24 V DC

由于 HiPace 涡轮分子泵上采用 24 V DC 电源，MVP DC 系列隔膜泵成为涡轮分子泵理想的前级泵。直流电机可以根据具体应用调节转速。使用增压模式时，泵以全速启动并在达到一定的真空度后降低转速，以确保高性能、长保养间隔以及低噪音和低振动。此泵的待机模式可以实现超高能效。



工艺耐久性和可靠性提高



购置成本低



由于采用 24 V DC，
更加安全可靠



体积小，重量轻，
方便移动



维护周期长，可靠性高

可靠性高

两级隔膜泵配有电磁气镇阀，可提高工艺可靠性和耐用性。工作温度范围为 5 至 40°C，应用范围广泛。这些泵维修方便，保养周期长约 2 年，实现低成本购置。

耐腐蚀性气体版本

MVP 030-3 C DC 特点是具有气镇阀以及对化学品和冷凝液的高适应性。特殊隔膜材料可确保在广泛应用中坚固可靠。

应用

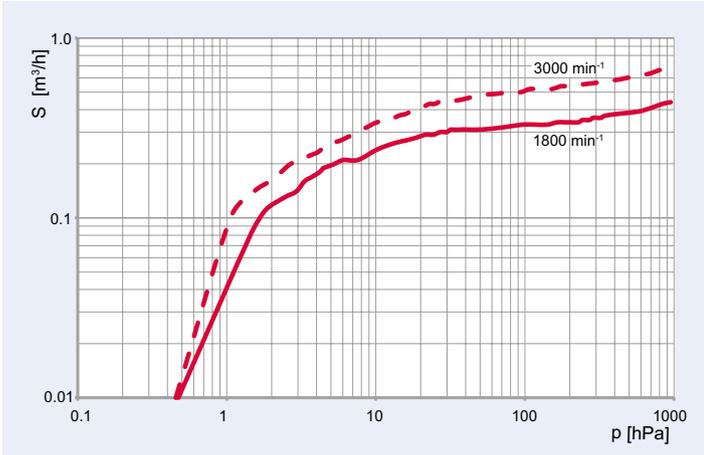
- 质谱仪器
- 电子显微镜
- 残余气体分析
- 表面分析
- 泄漏检测
- 泵组
- 科研
- X 射线衍射

MVP DC 系列

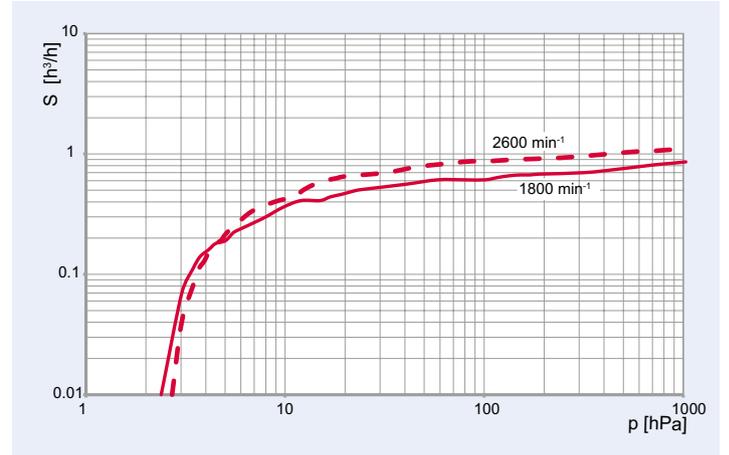
抽速曲线和规格尺寸

抽速曲线

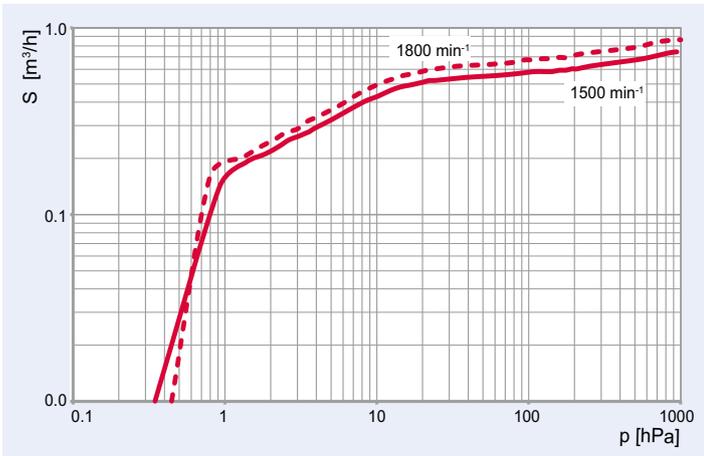
MVP 010-3 DC



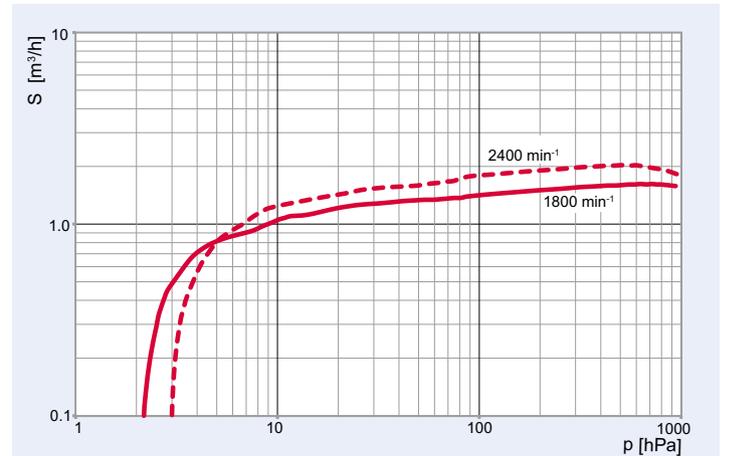
MVP 015-2 DC



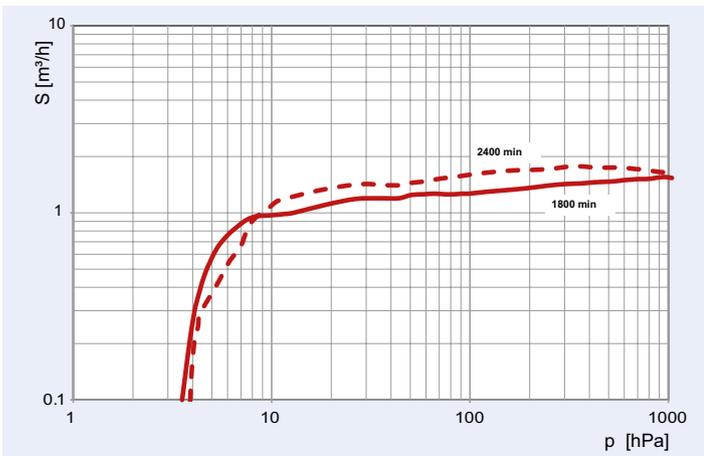
MVP 015-4 DC



MVP 030-3 DC



MVP 030-3 C DC

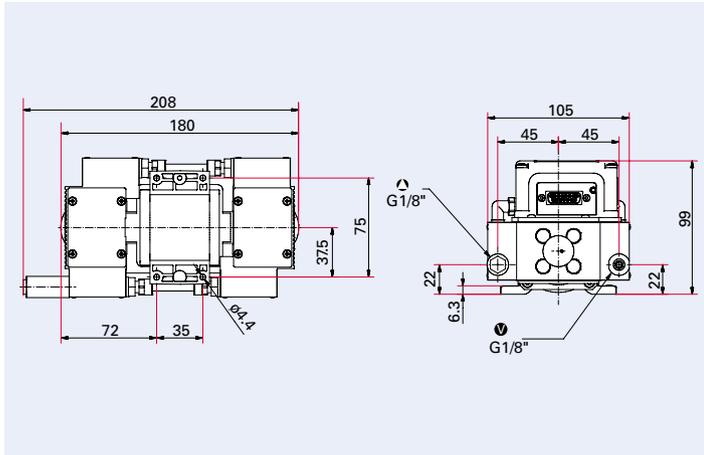


— 额定转速
- - 升压模式

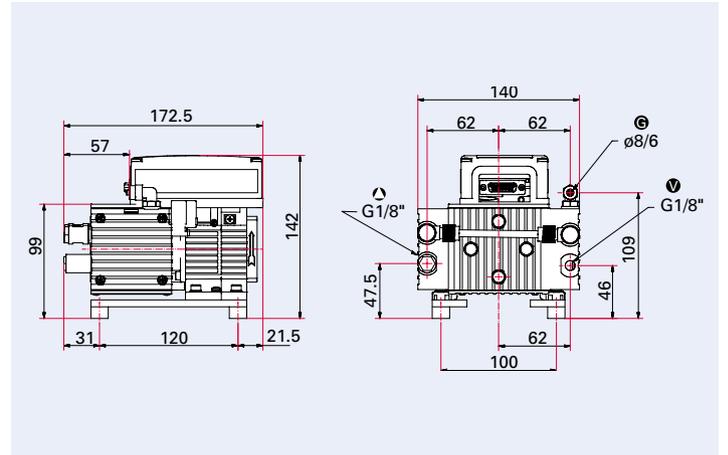
易于安装
由于采用了统一的15针 D-sub 通信端口，系统的设置非常简单，成本较低。只要把 MVP 和 HiPace 涡轮分子泵、DCU 控制器和 TPS 电源连接起来，您就拥有了一个立即运转的高真空系统。由于重量轻、体积小，MVP DC 系列隔膜泵非常适合集成在体积小的分析系统和涡轮分子泵泵站以及移动应用中。
(见第 7 页图)

规格尺寸

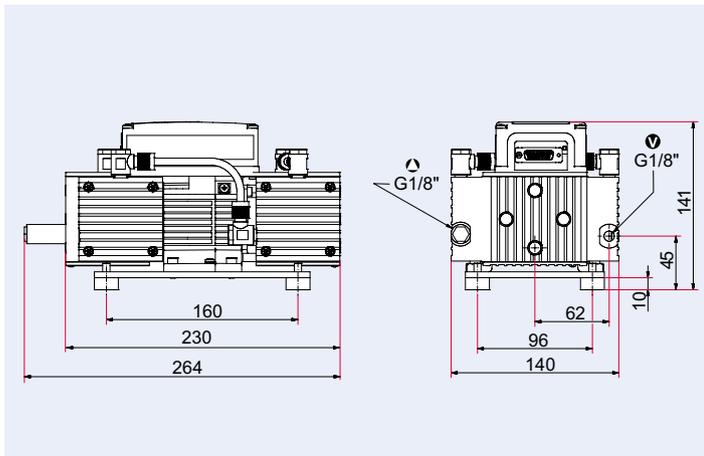
MVP 010-3 DC



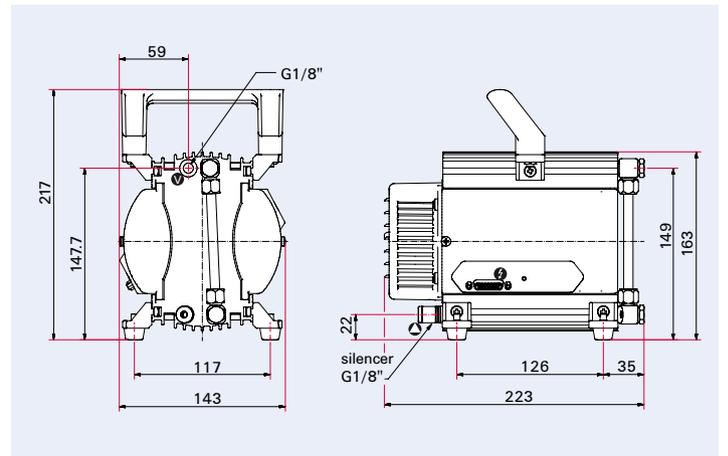
MVP 015-2 DC



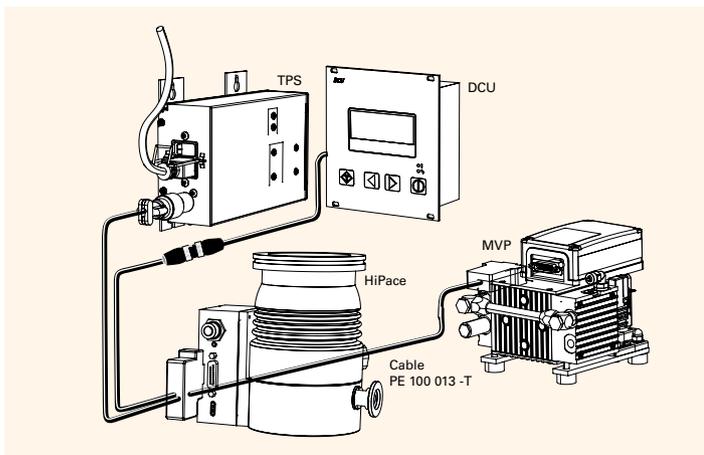
MVP 015-4 DC



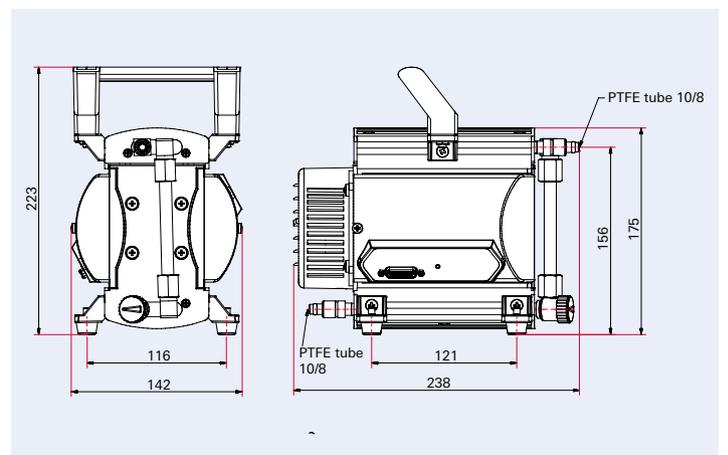
MVP 030-3 DC



易于安装



MVP 030-3 C DC



尺寸 [mm]

MVP DC Series

技术参数，订购号，配件，备件

Technical data

	MVP 010-3 DC	MVP 015-2 DC	MVP 015-4 DC
Flange (out)	G 1/8" with silencer	G 1/8" with silencer	G 1/8" with silencer
Flange (in)	G 1/8"	G 1/8"	G 1/8"
Exhaust pressure, max	1,100 hPa	1,100 hPa	1,100 hPa
Rotation speed	1,800 1/min	1,800 1/min	1,500 1/min
Rotation speed max.	3,000 1/min	2,600 1/min	1,800 1/min
Ultimate pressure with gas ballast	–	4 hPa	–
Ultimate pressure without gas ballast	1.0 hPa	3.5 hPa	0.5 hPa
Weight with motor	2.0 kg	2.7 kg	4.4 kg
Cooling method, standard	Air	Air	Air
Pumping speed, max.	0.6 m ³ /h	1.0 m ³ /h	0.75 m ³ /h
Protection category	IP 20	IP 20	IP 20
Current consumption, max	2.5 A	4.6 A	6.8 A
Ambient temperature	5–40 °C	5–40 °C	5–40 °C
Supply: Voltage	24 (± 10%) V DC	24 (± 10%) V DC	24 (± 10%) V DC
Emission sound pressure level without gas ballast	50 dB (A)	50 dB (A)	45 dB (A)
Certification	cTUVus certified according to UL / CSA 61010-1	cTUVus certified according to UL / CSA 61010-1	cTUVus certified according to UL / CSA 61010-1

订货号

	MVP 010-3 DC	MVP 015-2 DC	MVP 015-4 DC
隔膜泵	PK T05 072	PK T05 150	PK T05 160

技术参数

	MVP 030-3 DC	MVP 030-3 C DC
Flange (out)	G 1/8" with silencer	G 1/8" with silencer
Flange (in)	G 1/8"	G 1/8"
Exhaust pressure, max	1,100 hPa	1,100 hPa
Rotation speed	1,800 1/min	1,800 1/min
Rotation speed max.	2,400 1/min	2,400 1/min
Ultimate pressure with gas ballast	3.0 hPa	4.5 hPa
Ultimate pressure without gas ballast	2.0 hPa	2.5 hPa
Weight with motor	4.3 kg	4.3 kg
Cooling method, standard	Air	Air
Pumping speed, max.	1.8 m ³ /h	1.8 m ³ /h
Protection category	IP 20	IP 20
Current consumption, max	7 A	7 A
Ambient temperature	10–40 °C	10–40 °C
Supply: Voltage	24 (± 10%) V DC	24 (± 10%) V DC
Emission sound pressure level without gas ballast	45 dB (A)	45 dB (A)
Certification	cTUVus certified according to UL / CSA 61010-1	cTUVus certified according to UL / CSA 61010-1

MVP 030-3 C DC

1.8 m³/h

Pumping speed

45 dB (A)

Emission sound pressure level without gas ballast



订货号

	MVP 030-3 DC	MVP 030-3 C DC
隔膜泵	PK T01 500	PK T01 600

配件

	MVP 010-3 DC MVP 015-2 DC	MVP 030-3 DC MVP 030-3 C DC MVP 015-4 DC
Power supply		
TPS 110, mains pack for wall/standard rail fitting	PM 061 340 -T	
TPS 180, mains pack for wall/standard rail fitting		PM 061 341 -T
TPS 111, mains pack 19" rack module 3HU	PM 061 344 -T	
TPS 181, mains pack 19" rack module 3HU		PM 061 345 -T
Power supplies and control displays		
DCU 110, Display Control Unit incl. power supply	PM C01 820	
DCU 180, Display Control Unit incl. power supply		PM C01 821
DCU 002, Display Control Unit	PM 061 348 -T	
HPU 001, Handheld Programming Unit	PM 051 510 -T	
Cables		
Connecting cable MVP-TC-TPS (size 3 m)	PE 100 013 -T	
Connecting cable supply 24V/48V to drive electronics with RS-485 interface	PM 061 350 -T	
USB converter to RS-485 interface	PM 061 207 -T	
Y-Connector M12 to RS-485	P 4723 010	
Interface cable, M12 m straight/M12 m straight, 3 m	PM 061 283 -T	
Flange and hose connection		
Screw-in flange DN 16 ISO-KF / G 1/8" incl. seal	PK 050 108 -T	
Push-in fitting G 1/8 – 8/6	P 4131 029 G	
Hose DN 6; (ø 8/6) Polyurethane	P 0991 939	
Hose connection DN 6 x 400 mm for MVP and HiPace turbopumps	P 0920 739 E	
Hose connection DN 6 x 1000 mm for MVP and HiPace turbopumps	P 0920 817 E	
Protection		
Purge gas nozzle with filter for MVP 030-3 DC		PK 050 304 -U

备件

	订货号
Set of spare parts MVP 010-3 DC	PU E22 011 -T
Set of spare parts MVP 015-2 DC	PU E22 001 -T
Set of spare parts MVP 015-4 DC	PU E22 031 -T
Set of spare parts MVP 030-3 DC	PU E22 003 -T
Set of spare parts MVP 030-3 C DC	PU E22 032 -T
Silencer G 1/8"	P 0920 567 E



您是否正在寻找
完美的真空解决方案？
请联系我们：

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