

SV Series Single-Stage Rotary Vane Vacuum Pump

SV系列单级旋片式真空泵



SV10B/16B/20B/25B



SV040

01 PRESENTATION

SV series is a type of typical oil-sealed rotary vane vacuum pump. The working principle is to utilize the oil sealing gap and lubricate the rotating blades to dissipate the heat generated during compression. The oil and the exhaled gas are separated by the exhaust filter. After pumping gases and vapors, it can evacuate the container or the vacuum system to a medium vacuum.

SV series single-stage rotary vane pump, with its high pumping speed, stable vacuum degree, low noise and high durability, has become the ideal choice for medium and low vacuum applications. It is widely used for extracting air and other dry, non-toxic, non-corrosive and non-explosive gases.

SV系列旋片泵是一种常见的油封式旋片真空泵。他的工作原理是利用油密封间隙、润滑旋片带走压缩热，通过排气过滤器将油和排出气体分离。该真空泵抽送气体和蒸汽后，可将容器或者真空系统抽空至中真空范围。（SV系列旋片泵凭借其高抽速、稳定真空度、低噪音、耐用性强等特点，成为中低真空应用的理想选择。广泛应用于抽除空气和其他干燥、无毒、无腐蚀性、非易爆气体。）

02 FEATURE

- Fluorine rubber seals, Improved the anti-corrosion performance and prevent oil leakage problems.
密封件氟橡胶，提高防腐性能，防止漏油问题
- Unique filter element design, reduces the emission of oil mist and extends the service life of the filter.
独特的滤芯设计，减少油雾外排，延长滤芯使用寿命
- Integrated pump and motor design, with simple and compact structure.
泵和电机一体设计，结构简单、紧凑
- High-precision machining center, ensuring reliability and high precision.
高精度加工中心，保证可靠性和高精度
- Innovative design with a small size and easy to carry.
创新的外观设计，体积小，容易便携
- Built-in anti-oil return device, no oil return when stopping the machine.
内置防返油装置，停机不返油

03 APPLICATION

- Food package, processing, canning, preservation 食品包装，加工，罐装，保鲜
- Vacuum transportation and handling 真空搬运、装卸
- Vacuum degassing and filling 真空脱泡、充填
- Molding of composite material 复合材料成型
- Molding of rubber forming 橡胶模具成型
- Bacterial filtration at the negative pressure station of the hospital 医院负压站细菌过滤

04 OPTIONAL ACCESSORIES

Additional charges apply



G1/2 Inlet Filter
G1/2接口过滤器



G3/4 Inlet Filter
G3/4接口过滤器



KF25 Inlet Filter
KF25接口过滤器

05 TECHNICAL SPECIFICATION

Model 型号	SV10B	SV16B	SV20B	SV25B	SV040	SV063	SV100	SV160	SV200	SV250	SV300
Pumping Speed (m³/h) 抽速	10	16	20	25	40	63	100	160	200	250	300
Ultimate total pressure (mbar) 极限全压力	1.5	1	1	1	0.1~0.5	0.1~0.5	0.1~0.5	0.1	0.1	0.1	0.1
Power supply (kw) 电机功率	0.75	0.9	0.9	0.9	1.5	2.2	3	4	4.5	5.5	7.5
Rated power(V) 电压	220	220	220	220	380	380	380	380	380	380	380
Rotary speed (rpm) 额定转速	2800	2800	2800	2800	1440	1440	1440	1440	1440	1440	1440
Inlet plate (inch) 进气口尺寸	G1/2(KF25)	G1/2(KF25)	G1/2(KF25)	G1/2(KF25)	G1/4	G1/4	G1/4	G2	G2	G2	G2
Vapour allowed pressure (mbar) 水蒸气允许压力	40	40	40	40	40	40	40	40	40	40	40
Vapour pumpingability (kg/h) 水蒸气抽除	0.3	0.3	0.3	0.3	0.6	1	1.6	2.5	4	4.5	5
Working temperature (°C) 工作温度	83	83	83	83	80	80	84	95	95	81	81
Oilcapacity (L) 油量	0.5	0.7	0.7	0.7	1	2	2	5	5	7	7
G.W (kg) 重量	18	20	20	20	45	55	70	150	195	211	211
Noise(dBA) 噪音	≤75	≤78	≤78	≤78	≤65	≤67	≤67	≤70	≤73	≤75	≤75
Dimensions (mm) 外形尺寸	328x228x212	335x232x243	341x232x243	341x232x243	650x280x265	650x420x295	720x430x295	800x505x440	1010x540x425	1000x560x440	1000x560x440

NOTE:

1.Per JB/T53014-1999 and related standards, value measured by capacitance diaphragm vacuum gauge; readings from Pirani gauge are 0.5-1 order of magnitude higher.

2.Motor acceleration may delay under undervoltage and minimum allowable ambient temperature; motor protection switch may trip.

3.Noise value test standard: Refer to GB/T21271-2026