

Introducing the Breakthrough

SMVP 0500

Electric Vacuum Pump



A Leading Vehicle Vacuum Pump Manufacturer Since 1987

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SungDo Tech

WHO WE ARE

We, SDTec has been growing as Brake Vacuum Pump Maker over 23 years since 1987.

We are the original South Korean Vacuum Pump Manufacturer for Vehicles.

Each month we manufacture Ten's of Thousands of Vacuum Pumps for Automobiles, Trucks, SUVs, Mini Buses and other vehicles for Kia and Hyundai including brands such as Trajet, Santa Fe, the 2.5 Ton Mighty Truck, and mini buses.

ACHIEVEMENTS

- 1987.09.10 Established Sungwoo Precision
- 1997.08.01 Converted to Sungdo Tech Co.,Ltd
- 1999.10.14 ISO-9002 Certificate
- 2000.06.23 The best prize in Daegu & Kyongbuk Small & Medium-Sized firms competition.
- 2000.07.21 QS-9000 Certificate
- 2000.12.19 Moved Address to Yeongcheon Industry Area
- 2002.03.26 VALEO-1000 Certification A-Grade Acquire
- 2002.07.03 Registered Venture Enterprise
- 2002.07.30 Appointed High Technology Enterprise (KIBO)
- 2003.09.04 INNO-BiZ Enterprise Certificate
- 2003.09.24 Awards from Prime Minister
- 2004.03.04 Registered R&D research (KOITA)
- 2004.12.02 ISO-TS16949 Certificate
- 2004.12.14 Excellent Prize in Kyongbuk S&M Sized Competition
- 2006.12.29 Appointed New Acknowledged Enterprise (S&M Sized)
- 2010.10.30 Developed EV Brake Vacuum Pump

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WHO WE WORK WITH

Since 1987, SDtec has been manufacturing & developing vacuum pumps for VALEO, which are used in Hyundai and KIA automobiles. Our advancements in technology, together with our decades of in-house know-how made us uniquely qualified to design an innovative noise free, lightweight, easy to install electric vacuum pump for 21st century requirements.



WORLD-CLASS EV VEHICLE MANUFACTURERS



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CERTIFICATIONS

Certificate	Approved Items	Approved No.	Institute	Date
ISO/TS 16949	Auto Parts	IATF0038803	Germany IATF	2004.12.02
ISO 9002	Auto Parts	KR-02520	KFQ	2000.12.06
QS 9000	Auto Parts	MC-02520	KFQ	2000.12.06



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Why SMVP 0500 Is the Preferred Choice

SMVP 0500

Electric Vacuum Pump

SMVP 0500 provides high vacuum degree for immediate braking while consuming less power and producing lower noise pollution than competition.

Unlike the engine model commonly used in the market, electric brake vacuum pump uses motor to drive pump. It is used for all the automobiles that use booster, that are: **EV, Hybrid, EV remodeled vehicle, Tuned vehicle, as well as to support gasoline car brake, and to save gas on diesel vehicle.**

As it is dry electric vacuum pump, there is **no need to oil it**, and there is **muffler attached** on it which allows this pump to **reduce noise**. Pump housing for this pump is made with SUS304 material for **rust prevention**. The pump has high degree of vacuum, and can set up the highest and the lowest degree vacuum point with an attached **vacuum switch**. The DC motor this pump uses has strong durability, which makes it semi-permanent. The vacuum pump is modularized in to a set with vacuum switch, and **does not require** controller. It can be attached to all kinds of vehicle as we successfully diversified bracket of this pump to meet specification of those vehicles.



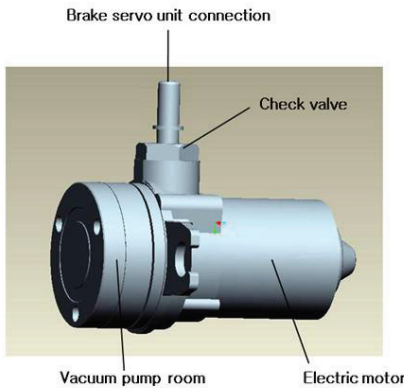
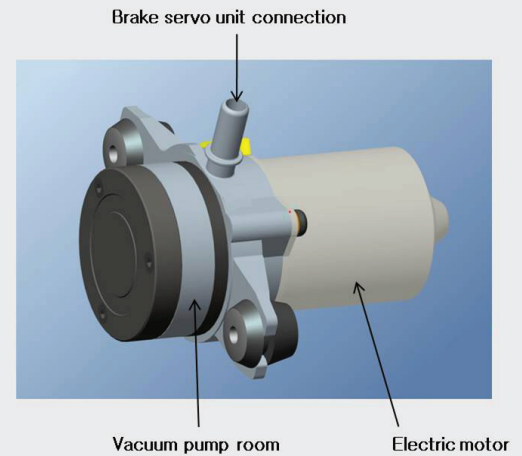
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SMVP 0500

Electric Vacuum Pump

- ◇ Energy Efficient
- ◇ Lightweight
- ◇ Durable
- ◇ Industry Leading Design
- ◇ Flexible



FEATURES

- Small size
- Low noise
- Check valve attached
- Vacuum switch attached
- Electrical connection
SWP MG640322 connector

APPLICATIONS

- EV-Brake System
- Two-seater car
- Vacuum Conveyors
- Other Vacuum Systems

Rated Current(At13~13.5V)	6~10A	Max. Vacuum	(1atm)> 86% Negative pressure	
Product life Cycle Operations	Switch On/Off: >600,000 ~ 1,000,000	Relay Vibration Resistance	10-55Hz, 1.5mm	
Product life Cycle Time	>1,000 Hr	Max Relay Switching frequency	Mechanical	18,000 operations per hour
Noise dB(A)	>60 dB(A)		Electrical	1,800 operations per hour
Damper Size(Mount Size)	101 mm	Switching Point	600 mmHg±10mmHg ~ 400mmHg±30mmHg	
Temperature Range	-40°C to +120°C	Capacity(LPM)	30 L/Min	
SIZE(LxWxH)	124 mm x 88 mm x 121 mm	Weight	1 Kg	
Application Area	Car Body, Chassis			



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SMVP 0500

Electric Vacuum Pump KIT



Components included - SD Tech Vacuum Pump 0500 Kit




Vacuum Pump Assembly	Vacuum Switch Assembly	Check Valve Assembly
Connector	Vacuum Switch	Silicon cap
Motor	Connector	Universal joint
Vacuum Pump	Silicon cap	Washer
Mounting Rubber	O-ring (Silicon)	Rubber Ring
2 Bushing	T-nipple (Silicon)	Rubber Cap



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Parts included - SD Tech Vacuum Pump 0500 Kit

		
<p>Vacuum Tank (Optional)</p>	<p>Air Hose (Optional)</p> <ul style="list-style-type: none"> • Air Hose (For Check Valve) • Air Hose • Clip 	<p>Harness Assembly (Optional)</p> <ul style="list-style-type: none"> • Connector • Motor Connector • Vacuum Switch Connector • 12 V / 24 V Relay • Relay Plug

Specifications - Vacuum Pump Motor

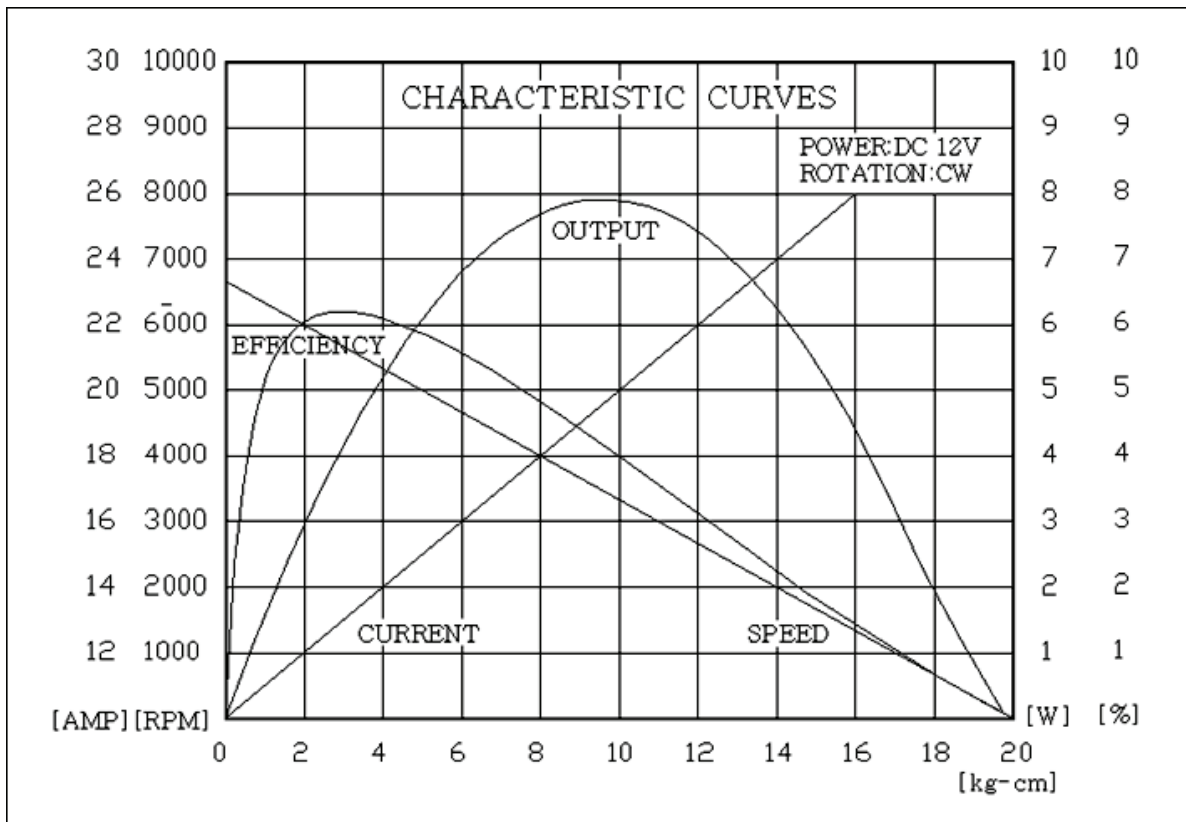
Nominal Voltage (VDC)	No Rated current (A)	Rated Motor Speed (RPM)	Vacuum Rated Current (A)	Stall Torque (g - Cm)	Power Consumption (W)
12V	1.00	6,750	6.0 - 8.0	5,800	100
24V	0.65	6,750	3.0 - 4.0	6,500	100
72V	0.16	6,750	1.0 - 1.5	7,200	100



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Vacuum Pump Motor Characteristics Curve



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