PRODUCT RANGE

The Motorservice Group is the sales organisation for the global aftermarket activities of Rheinmetall Automotive. It is a leading supplier of engine components for the independent aftermarket. Special Original Equipment (SOE) is a specific business segment, with selected Kolbenschmidt and Pierburg components for a varied range of applications.

SUITABLE FOR 12-VOLT APPLICATIONS

SPECIAL ORIGINAL EQUIPMENT

ELECTRIC VACUUM PUMPS FOR UNIVERSAL APPLICATIONS

THE NEW ELECTRIC VACUUM PUMP BY PIERBURG

The new electric vacuum pump (EVP) by Pierburg is used in a variety of vacuum applications. Electric and hybrid vehicles, as well as vehicles with traditional combustion engines, all require a vacuum for a number of their units. The progressive trend towards downsizing, however, comes with challenges – the available level of vacuum is reduced. Operating functions such as start-stop or coasting switch off engines either entirely or in part. Through this development, a self-sufficient vacuum supply for safety systems or comfort functions has become indispensable.

VACUUM SOURCE

This is why the electric vacuum pump with item number 7.08838.00.0 is used as an independent vacuum source. Developed and tested as series applications, it impresses with a robust yet light and compact construction method, as well as high performance. All components are optimised in terms of durability and temperature resistance. An integrated non-return valve ensures short evacuation times during regulated operation. The electric vacuum pump even delivers in terms of comfort – thanks to multi-stage sound damping measures and vibration-insulated suspension, noticeable noise emissions are reduced to a minimum.

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AREAS OF APPLICATION

- Comfort functions
- Fuel savings
- Reduction of exhaust emissions
- Downsizing

CHARACTERISTICS

- dry-running vane pump
- compact design
- powerful, reliable, durable
- proven in large-scale production
- low noise generation through structure-borne and airborne sound damping
- integrated non-return valve
- low current consumption
- high temperature resistance

APPLICATION PARAMETERS

Despite a robust construction method, cooling phases must be adhered to during operation. In a normal atmosphere *) the on/off ratio should be $T_{on}/T_{off} = 1$.

NOTE

The electric vacuum pump is not designed for continuous operation. In a normal atmosphere *) the ON time of 45 seconds should not be exceeded. Despite a robust construction method, cooling phases must be adhered to during operation. To that effect, the on/off ratio should be $T_{on}/T_{off} = 1$.

Technical data:	
Nominal voltage	13.5 V
Operating voltage range	9–16 V
Current consumption	7–11.5 A
Delivery rate	approx. 45 standard l/min
End vacuum, rel. at normal atmosphere (p = 1013 mbar, T = 20°C)	min. –850 mbar
Durability	› 1200 h
Weight	approx. 1350 g
Protection type	IP 54
Electrical connection	Yazaki 7283-5596-10

EVACUATION CURVE

Ambient pressure: 1013 mbar
Vacuum reservoir: 4 l

Performances at 13 V
Evacuation time: –500 mbar in 5 s
–700 mbar in 10 s
Max. vacuum: –850 mbar