

ELECTRICAL COOLANT PUMPS MEP FAMILY



MEP FAMILY

Coolant pumps are key components of modern thermal management systems and ensure reliable temperature control in a wide variety of automotive and industrial applications. They ensure efficient heat dissipation, protect critical components, and enable energy-optimized operation of internal combustion, hybrid, and electric platforms.

The MEP series targets the mid-range segment of thermal management and is designed for electrified powertrains. It supports cooling of high-voltage batteries, electric motors, inverters, DC/DC converters, water-cooled charge air coolers, onboard chargers and combined low-/high-temperature circuits. Highly efficient BLDC motors ensure very low NVH emissions and precise speed control via integrated PWM/LIN electronics. An integrated cooling concept enables application-specific configurations aligned with thermal load and cost targets. The modular, scalable design supports customer-specific variants and seamless integration into passenger car and commercial vehicle platforms. As the most powerful plastic-housed pump in our portfolio, the MEP combines lightweight construction, robust materials, comprehensive diagnostics and high hydraulic performance into a reliable solution optimized for low-to-medium temperature ranges.

BENEFITS

- Thermal optimization – engineered for efficient operation in low-to-medium as well as high temperature ranges
- Interchangeable modular components – flexible component configurations for precise thermal control across varying load conditions
- Reduced part count – new fastening concept minimizes components and simplifies assembly
- Thermal-module ready – fully integratable into thermal modules for space-efficient system design
- HRE-free magnets

TECHNICAL DATA

	MEP small		MEP medium*
Operating voltage [V]	12.0		12.0
Flow rate [m³/h]	1.6	1.0	2.7
Pressure [bar]	0.85	1.8	2.0
Coolant temperature [°C]	110	90	90
Current consumption [A]	< 9.0	< 16.0	< 22.0
Communication	LIN 2.x or PWM		

* Higher temperatures available on request

PIERBURG

Pierburg, as a heritage brand, is a system provider for high-quality and innovative solutions and control technologies for the automotive and energy industries, among others.

With its Business Sections, Pierburg stands for outstanding expertise in the following areas: air management, thermal management, e-mobility and hydrogen technology.

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