

Automotive Electric Coolant Valve Market to Grow \$10 Billion by 2032, Driven by Smart Cooling Technologies

WILMINGTON, NEW CASTLE, DE, UNITED STATES, June 24, 2025 /EINPresswire.com/ -- Rise in emission norms and fuel efficiency standards, growth in demand for hybrid and electric vehicles, and an increase in demand for hybrid and electric vehicles drive the growth of the global automotive electric coolant valve market.



Allied Market Research recently published a report titled, "Automotive Electric Coolant Valve Market by Type, Modulation Type, Communication Protocol, Vehicle Type, and Voltage: Global Opportunity Analysis and Industry Forecast, 2023–2032." According to the report, the global [automotive electric coolant valve market size](#) generated 1,000,000 units in 2023 and is projected to reach 1,500,000 units by 2032, growing at a CAGR of 8.5% during the forecast period.

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Government mandates for CO₂ emissions reductions are pushing automakers toward smarter, more efficient thermal management solutions.

For example, the implementation of Euro 6d emissions standards and the push for electric vehicles has prompted increased adoption of electric coolant valves. These valves reduce parasitic engine losses and eliminate the need for belt-driven systems, helping OEMs meet tightening emission targets.

According to the EU, passenger cars emit 120 g CO₂/km and 100 g CO₂/km, respectively, to total CO₂ emissions. Stricter performance standards introduced in 2020 led to a 10% reduction in CO₂ emissions that year and 15.0% by 2023, reinforcing the impact of such technologies.

Automotive coolant valves are critical components for maintaining optimal engine temperature and preventing overheating.

These valves regulate the flow of coolant between the engine and the radiator, ensuring efficient heat dissipation. They are designed to withstand high temperatures and pressures, making them essential for the reliable operation of internal combustion engines.

In Q3 2023, Hanon Systems invested USD \$129 million to enhance facilities in Hungary, focusing on EV thermo parts manufacturing and digital integration in Székesfehérvár, Pécs, and Rétság.

In Q2 2023, Modine Manufacturing Company expanded the production of EVantage thermal management systems in Pontevico, Italy, catering to heavy-duty, commercial, and specialty vehicles in Europe.

In Q1 2023, Hanon Systems inaugurated a dedicated eco-friendly vehicle components plant in Gyeongju-si, Korea, producing solutions for electric vehicles, including heat pump systems and coolant valve assemblies.

Voss Fluid GmbH's strategic acquisition of HENZEL Automotive GmbH in Germany strengthens Voss Group's automotive unit, fostering growth in thermal management with an enriched product portfolio encompassing thermostats, integrated sensors, and advanced function modules.

The global shift toward electric vehicles (EVs) is creating unprecedented opportunities for electric coolant valve manufacturers.

The global shift toward electric vehicles (EVs) is creating unprecedented [opportunities for electric coolant valve manufacturers](#). These valves play a critical role in EV thermal management systems, regulating the flow of coolant between the battery pack and the power electronics. As per the International Energy Agency (IEA), global EV stock reached 10 million units in 2022, a 100% increase from the previous year.

In addition, the rising penetration of high-voltage EVs—expected to reach 30% by 2030—is driving demand for valves compatible with higher voltage operations. Automakers like Tesla, Ford, and GM are already integrating such systems to improve fuel economy and reduce emissions.

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Leading automotive suppliers are developing smart valves integrated with Brushless DC motors and intelligent control units.

These enable variable speed operations, real-time coolant flow adjustment, and fault detection. Unlike traditional valves, smart valves consume less power and enhance vehicle safety through precision cooling.

Even hybrid vehicles (PHEV) are transitioning toward electric valves to eliminate accessory belts and pulleys, thereby improving fuel efficiency and supporting engine

downsizing initiatives.

▢ **Automotive Aftermarket & Retrofitting Solutions:** ▢ **Automotive Aftermarket & Retrofitting Solutions**

The market is also witnessing growth in **automotive retrofitting solutions**, where traditional mechanical valves are being replaced with electric variants. Retrofitting enhances vehicle fuel efficiency and thermal system performance, especially in commercial fleets and passenger vehicles. Custom plug-and-play solutions are opening new revenue streams for suppliers.

▢ **Emerging Economies & Market Expansion:** ▢ **Emerging Economies & Market Expansion**

Emerging economies like **India, Brazil, and Mexico** present vast market potential [owing to increasing vehicle production and tightening emission norms](#). Establishing manufacturing hubs in these regions offers OEMs the dual advantage of serving both primary and aftermarket segments efficiently. In Asia-Pacific, the accelerated EV shift will further stimulate demand for advanced thermal solutions, particularly electric coolant valves.

▢ **Key Market Segments:** ▢ **Key Market Segments**

▢ **Vehicle Type:** ▢ **Vehicle Type**

▢ **Configuration:** Two-way, Three-way, Four-way, Five-way, and Others

▢ **Configuration:** Pre-configured & Field-configurable

▢ **Control Options:** Direct Analog, Analog w/ Voltage Feedback, CAN, LIN, and Others

▢ **Vehicle Type:** Passenger Vehicles, Light-Duty Vehicles, Medium & Heavy Trucks, Buses & Coaches, Off-highway Vehicles (construction, agriculture, industrial)

▢ **Voltage:** 12V and 24V

▢ **Source:** ▢ **Source:**

<https://www.alliedmarketresearch.com/automotive-electric-coolant-valve-market/purchase-options>

▢ **Key Companies:** ▢ **Key Companies**

Key companies profiled in the report include:

▢ **Key Companies:** ▢ **Key Companies**
The report profiles leading manufacturers such as **Denso, Bosch, Valeo, and Continental**, along with regional players like **Delphi, Magneti Marelli, and Lear**. It also covers emerging companies focused on electric and smart valve technologies. The analysis includes their product portfolios, market share, and strategic initiatives.

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