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Global Automotive Electric Cooling Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Electric Cooling Valve market size is expected to reach $ 3758 million by 2032, rising at a market growth of 10.0% CAGR during the forecast period (2026-2032).

Automotive electric cooling valve is an intelligent control component installed within a vehicle's cooling system, designed to regulate the flow rate and direction of coolant circulating through the engine, power battery, power electronics, and air conditioning systems. Its core function involves driving the valve spool—via electrical signals or pulses—to open and close, thereby enabling precise control over the cooling circuits. This process serves to optimize the operating temperatures of the engine or battery pack, enhance energy efficiency, extend component lifespan, and ensure compliance with environmental and emission standards. Electric cooling valves typically feature either single-path or multi-path (e.g., three-way or four-way) designs, allowing them to dynamically adjust coolant flow in response to varying load conditions or ambient environments, thereby ensuring the efficient operation of the thermal management system. In traditional internal combustion engine vehicles, these valves are primarily utilized for the distribution and temperature control of engine coolant; in new energy vehicles (HEVs/BEVs), they are widely deployed within the cooling circuits for power batteries, electric motors, and power electronics, working in conjunction with heat pumps or air conditioning systems to boost the vehicle's overall energy utilization efficiency. As a critical component of automotive thermal management systems, the electric cooling valve not only safeguards the vehicle's safe operation under extreme temperature conditions but also contributes to improved fuel economy, reduced emissions, and lower noise levels, thereby providing the technical foundation for intelligent temperature control in modern automobiles—particularly in electric vehicle models. The global average selling price for automotive electric cooling valves ranges

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from approximately $25; in 2025, global sales are projected to reach approximately 75 million units, with an average gross profit margin ranging from 12% to 18%.

Automotive electric cooling valves are critical components within modern vehicle thermal management systems; they serve to regulate the flow rate and direction of coolant within circuits dedicated to the engine, traction battery, electric motor, and power electronics, thereby optimizing temperature control and enhancing energy efficiency. Driven by the rapid penetration of new energy vehicles (BEVs/HEVs), demand for electric cooling valves continues to rise, with each electric vehicle typically equipped with at least one—and often multiple—electronically controlled valves to facilitate precise temperature management for the traction battery and heat pump systems. In terms of technological trends, products are evolving toward multi-way control, higher levels of integration, and greater intelligence—incorporating integrated sensors and control algorithms to boost both energy efficiency and reliability. Within the competitive landscape, Tier-1 suppliers such as Bosch, Valeo, Mahle, and Hanon hold dominant positions, while domestic enterprises—such as Sanhua Group and Chaoli Electronics—are also gradually gaining entry into the vehicle manufacturing supply chain. Overall, the market outlook for automotive electric cooling valves is promising; while technological advancements and the thermal management requirements of new energy vehicles will continue to drive market growth, manufacturers must simultaneously navigate challenges related to cost fluctuations and the optimization of system integration.

This report studies the global Automotive Electric Cooling Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Electric Cooling Valve and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Electric Cooling Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Automotive Electric Cooling Valve total production and demand, 2021-2032, (K Units)
Global Automotive Electric Cooling Valve total production value, 2021-2032, (USD Million)
Global Automotive Electric Cooling Valve production by region & country, production,

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value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Automotive Electric Cooling Valve consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Automotive Electric Cooling Valve domestic production, consumption, key domestic manufacturers and share
Global Automotive Electric Cooling Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Automotive Electric Cooling Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Automotive Electric Cooling Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Electric Cooling Valve market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Rheinmetall, Bosch, MS, Valeo, Mahle GmbH, Hanon Systems, Aisin Corporation, VOSS Fluid GmbH, Rotex Automation Ltd., Sanhua Automotive, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Electric Cooling Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Electric Cooling Valve Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Electric Cooling Valve Market, Segmentation by Type:

Single-way Valve

Multi-way Valve

Global Automotive Electric Cooling Valve Market, Segmentation by Execution Method:

Solenoid Valve

Stepper Motor Valve

Servo Motor Valve

Global Automotive Electric Cooling Valve Market, Segmentation by Control Method:

Switching Valve

Modulating Valve

Global Automotive Electric Cooling Valve Market, Segmentation by Application:

Passenger Vehicles

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Commercial Vehicles

Specialized Vehicles

Companies Profiled:

Rheinmetall

Bosch

MS

Valeo

Mahle GmbH

Hanon Systems

Aisin Corporation

VOSS Fluid GmbH

Rotex Automation Ltd.

Sanhua Automotive

Jiangsu Chaoli Electrical Appliance

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Key Questions Answered:
1. How big is the global Automotive Electric Cooling Valve market?
2. What is the demand of the global Automotive Electric Cooling Valve market?
3. What is the year over year growth of the global Automotive Electric Cooling Valve

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market?
4. What is the production and production value of the global Automotive Electric Cooling Valve market?
5. Who are the key producers in the global Automotive Electric Cooling Valve market?
6. What are the growth factors driving the market demand?

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