

Automotive Ac Valves Market By Type (Expansion Valves, Service Valves, Solenoid Valves, Others), By Vehicle Type (Passenger Vehicle, Commercial Vehicle), By Sales Channel (OEM, Aftermarket): Global Opportunity Analysis and Industry Forecast, 2025-2034

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Abstracts

The automotive AC valves market was valued at \$2,680.4 million in 2024 and is estimated to reach \$4,567.4 million by 2034, exhibiting a CAGR of 5.58% from 2025 to 2034.

Automotive AC valves are integral components in automotive and HVAC systems that regulate refrigerant flow without the need for manual adjustments. These valves optimize cooling efficiency, reduce energy consumption, and enhance system reliability by automatically responding to temperature and pressure variations. As demand for advanced climate control and fuel-efficient systems continues to rise, automotive AC valves have gained significant traction in both the automotive and industrial sectors. Surge in emphasis on passenger comfort, energy efficiency, and system automation propels the expansion of this market.

Increase in demand for energy-efficient HVAC and automotive air conditioning systems drives the growth of the market. These valves contribute to reducing operational costs and improving environmental performance by minimizing refrigerant wastage and enhancing cooling performance. In addition, surge in automotive production, particularly in Asia-Pacific, and rise in electric vehicle (EV) adoption are key factors driving demand for automotive AC valves in climate control systems. Rise in awareness about indoor air quality and need for precise thermal management in commercial & residential buildings

contribute to market growth. Moreover, stringent emission regulations and shift toward low-global-warming-potential (GWP) refrigerators are pushing manufacturers to adopt more efficient and automated valve systems.

However, high cost of automotive AC valves compared to traditional valves remains a significant barrier, especially in price-sensitive markets. Limited awareness among small and medium HVAC installers and manufacturers, particularly in developing economies, hampers adoption of automotive AC valves. In addition, the complexity involved in integrating automatic valves into legacy systems and the need for skilled technicians for maintenance & calibration restrict market expansion.

On the other hand, increase in integration of smart technologies such as IoT, AI, and predictive maintenance features in HVAC and automotive systems offers opportunities for market growth. These technologies enable real-time monitoring, fault detection, and performance optimization, making automatic valves more attractive. Furthermore, surge in number of green building initiatives, rise in demand for electric vehicles, and ongoing R&D into eco-friendly refrigerants are expected to create new avenues for industry growth. Strategic partnerships between valve manufacturers and OEMs, as well as expansion into emerging markets, are likely to accelerate market development in the coming years. For instance, in February 2025, DENSO Corporation added 32 new thermal management parts including expansion valves and cabin AC components, with applications for EV models such as VW ID.3/ID.4, Nissan Leaf, and Hyundai IONIQ EV.

Segment Review

The automotive AC valve is segmented into type, vehicle type, sales channel, and region. On the basis of type, the market is classified into expansion valve, service valve, solenoid valve, and others. By vehicle type, the market is segregated into passenger vehicle and commercial vehicle. On the basis of sales channel, the market is bifurcated into OEM and aftermarket. By region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of type, the expansion valve segment dominated the automotive AC valve market in 2024.

By vehicle type, the passenger vehicle segment dominated the automotive AC valve market in 2024.

By sales channel, the OEM segment was the dominant segment in the global automotive AC valve market.

Region wise, Asia-Pacific held the largest market share in 2024.

Competition Analysis

The key companies profiled in the automotive ac valves market report include DENSO Corporation, Valeo SA, Mahle GmbH, Hanon Systems, Delphi Technologies, Eberspacher Group, NRF B.V., Nissens Automotive A/S, Rheinmetall AG, and Raicam Industrie S.r.l.

Key Benefits For Stakeholders

This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the automotive ac valves market analysis from 2024 to 2034 to identify the prevailing automotive ac valves market opportunities.

The market research is offered along with information related to key drivers, restraints, and opportunities.

Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

In-depth analysis of the automotive ac valves market segmentation assists to determine the prevailing market opportunities.

Major countries in each region are mapped according to their revenue contribution to the global market.

Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

The report includes the analysis of the regional as well as global automotive ac valves market trends, key players, market segments, application areas, and market growth strategies.

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Upcoming/New Entrant by Regions

Regulatory Guidelines

SWOT Analysis

Key Market Segments By Type

Expansion Valves

Service Valves

Solenoid Valves

Others

By Vehicle Type

Passenger Vehicle

Commercial Vehicle

By Sales Channel

OEM

Aftermarket

By Region

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Raicam Industrie S.r.l

Rheinmetall AG

Hanon Systems

Delphi Technologies

Eberspacher Group

NRF B.V.

Nissens Automotive A/S

DENSO CORPORATION

VALEO SA

MAHLE GmbH

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