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Global Electronic Expansion Valve for Electric Vehicles Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electronic Expansion Valve for Electric Vehicles market size is expected to reach $ 2206 million by 2032, rising at a market growth of 17.4% CAGR during the forecast period (2026-2032).

The electronic expansion valve is composed of a controller, an actuator and a sensor. Since the temperature sensing part of the electronic expansion valve is a thermocouple or thermal resistance, it can accurately reflect the change of superheat at low temperature and provide more accurate flow adjustment. At the same time, the electronic expansion valve has a large flow control range, sensitive response, and rapid action. The fine adjustment makes up for the shortcomings that the capillary tube and the thermal expansion valve cannot be adjusted, and is more suitable for the electronic and thermal management control of electric vehicles. In 2025, global production of electronic expansion valves for electric vehicles reached 30.74 million units, with an average selling price of US$20.5 per unit.
Global key players of Electronic Expansion Valve for Electric Vehicles include Zhejiang Sanhua Automotive Components, TGK and Zhejiang Dun'an Artificial Environment, etc. The top three players hold a share over 88%.

In terms of product type, EXV for Air Conditioning Thermal Management is the largest segment, occupied for a share of about 69%, and in terms of application, BEV has a share about 73 percent.

The main factors driving the widespread adoption of electronic expansion valves in new energy vehicles include the following points. Firstly, policy support is a key driver. Governments around the world are implementing policies to promote the development

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of new energy vehicles, providing a broad market space for EXVs. Secondly, consumer acceptance of new energy vehicles is growing, and their demands for vehicle performance and comfort are also increasing. EXVs can meet these requirements effectively. Thirdly, technological advancements are the primary force behind the development of EXVs. Improvements in sensor technology, control algorithms, and material science have significantly enhanced the performance of EXVs. Lastly, market competition is driving manufacturers to continuously improve and optimize EXVs to enhance product competitiveness and market share.

With the rapid development of the new energy vehicle market, the application of electronic expansion valves (EXVs) in electric vehicles (EVs) is becoming increasingly widespread. Firstly, the level of intelligence and integration of EXVs is continuously improving, allowing them to better adapt to complex and variable operating conditions. Secondly, EXVs have a broader flow control range and faster response times, enabling more precise refrigerant flow regulation, which enhances the overall efficiency and comfort of the vehicle. Additionally, the design of EXVs is becoming more compact and lighter, contributing to reducing the overall weight of the vehicle and increasing its range. Finally, with the application of new materials and advanced manufacturing processes, the reliability and durability of EXVs are significantly improved, reducing maintenance costs and failure rates.

This report studies the global Electronic Expansion Valve for Electric Vehicles production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electronic Expansion Valve for Electric Vehicles 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 Electronic Expansion Valve for Electric Vehicles that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Electronic Expansion Valve for Electric Vehicles total production and demand, 2021-2032, (K Units)
Global Electronic Expansion Valve for Electric Vehicles total production value, 2021-2032, (USD Million)
Global Electronic Expansion Valve for Electric Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

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

This report profiles key players in the global Electronic Expansion Valve for Electric Vehicles 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 Zhejiang Sanhua Automotive Components, TGK, Zhejiang Dun'an Artificial Environment, HANON, Egelhof, Fujikoki, Schrader Pacific Advanced Valves (Pacific Industrial), XINJING, Hilite International, Ningbo Tuopu, 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 Electronic Expansion Valve for Electric Vehicles 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 Electronic Expansion Valve for Electric Vehicles Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electronic Expansion Valve for Electric Vehicles Market, Segmentation by Type:

EXV for Air Conditioning Thermal Management

EXV for Battery Thermal Management

Global Electronic Expansion Valve for Electric Vehicles Market, Segmentation by Driving Method:

Electromagnetic Type

Electro-electric Type

Global Electronic Expansion Valve for Electric Vehicles Market, Segmentation by Application:

BEV

PHEV

Companies Profiled:

Zhejiang Sanhua Automotive Components

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TGK

Zhejiang Dun'an Artificial Environment

HANON

Egelhof

Fujikoki

Schrader Pacific Advanced Valves (Pacific Industrial)

XINJING

Hilite International

Ningbo Tuopu

Key Questions Answered:
1. How big is the global Electronic Expansion Valve for Electric Vehicles market?
2. What is the demand of the global Electronic Expansion Valve for Electric Vehicles market?
3. What is the year over year growth of the global Electronic Expansion Valve for Electric Vehicles market?
4. What is the production and production value of the global Electronic Expansion Valve for Electric Vehicles market?
5. Who are the key producers in the global Electronic Expansion Valve for Electric Vehicles market?
6. What are the growth factors driving the market demand?

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