

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

<https://marketpublishers.com/r/GA25C76CD64AEN.html>

Date: June 2026

Pages: 106

Price: US\$ 4,480.00 (Single User License)

ID: GA25C76CD64AEN

Abstracts

The global LIN-Controlled Electronic Expansion Valve for Electric Vehicles market size is expected to reach \$ 1388 million by 2032, rising at a market growth of 23.4% CAGR during the forecast period (2026-2032).

LIN-Controlled Electronic Expansion Valve for Electric Vehicles refers to an electronic expansion valve used in new energy vehicle thermal management systems that receives commands from the vehicle controller or thermal management controller through the LIN bus and precisely regulates refrigerant flow. The product typically consists of a valve body, valve needle or valve core, stepper motor or actuator, drive control circuit, LIN communication interface, and sealing structure. It is mainly used in battery thermal management, cabin air conditioning, heat pump systems, electric drive cooling, and power electronics cooling. Compared with PWM-controlled electronic expansion valves, LIN-controlled electronic expansion valves support digital communication, enabling valve opening feedback, fault diagnosis, status monitoring, and more refined system-level coordination, making them an important actuator as electric vehicle thermal management systems move toward higher integration, intelligence, and energy efficiency. In 2025, global production of LIN-Controlled Electronic Expansion Valves for Electric Vehicles reached 11,681 thousand units, with an average selling price of USD 23.75 per unit.

The LIN-Controlled Electronic Expansion Valve for Electric Vehicles industry is a key actuator segment within new energy vehicle thermal management systems. The product is mainly used for throttling, refrigerant flow regulation, operating-mode switching, and partial shut-off control in refrigerant circuits. As electric vehicles increasingly adopt heat-pump air conditioning, battery cooling, e-drive cooling, and power electronics thermal

management, the electronic expansion valve has evolved from a simple throttling component into an intelligent actuator within the vehicle-level thermal control strategy. Compared with PWM-controlled valves, LIN-controlled valves are better suited for status feedback, fault diagnosis, software calibration, and multi-valve coordination, supporting higher penetration in mid- to high-end EV platforms and heat-pump systems. Sanhua Automotive's electronic expansion valve supports LIN/PWM communication and highlights a LIN integrated control board with OBD function, while Chunhui's LIN-controlled product features LIN digital signal control, firmware update via LIN bus, and real-time stall detection.

In terms of product structure, the industry can be segmented by control method into LIN-controlled, PWM-controlled, and other control types. LIN-controlled products are mainly used in vehicle platforms requiring stronger communication diagnostics, precise valve-opening control, and system-level coordination. By system position, products can be divided into heat-pump circuit valves, battery cooling circuit valves, cabin evaporator circuit valves, and valves used in integrated thermal management modules. By refrigerant compatibility, mainstream products cover R134a, R1234yf, and CO₂/R744 platforms. EV thermal management systems typically include compressors, condenser/evaporator heat exchangers, chillers, heat-pump circuits, multiple expansion valves, and bypass valves. Expansion valves play a core role in refrigerant metering and pressure regulation across heat-pump, cooling, and battery temperature-control modes, directly affecting energy efficiency, response speed, and thermal stability.

From the application perspective, LIN-controlled electronic expansion valves for EVs are mainly used in passenger-car thermal management systems and are gradually expanding into electric commercial vehicles, electric buses, special-purpose vehicles, and high-end integrated thermal management modules. Passenger-car applications emphasize miniaturization, low noise, low leakage, fast response, and low power consumption, while commercial vehicle and bus applications place greater emphasis on heating/cooling capacity, durability, and adaptability to complex operating conditions. Regionally, China is one of the most important production and demand markets, supported by large EV output, increasing heat-pump adoption, and a well-developed local thermal management supply chain. Europe, North America, Japan, and South Korea are more focused on premium vehicle platforms, system integration, and global Tier 1 supply chains. Webasto's electric vehicle thermal management architecture integrates battery, powertrain, electronics, and cabin temperature control, which further increases the system value of intelligent valve components.

On the manufacturing side, the core production processes include precision machining

of valve bodies, valve needle/core forming, stepper motor or actuator assembly, control board soldering and potting, sealing component assembly, leak testing, flow calibration, LIN communication testing, pressure testing, and durability validation. The cost structure is mainly composed of valve bodies and precision mechanical parts, actuating motors, control PCBs and chips, connectors and harnesses, sealing materials, automated assembly, and testing costs. A mature automated production line typically has a single-line annual capacity of 0.8–2.0 million units, depending on cycle time, testing duration, product platform consistency, and automation level. Where multi-station flow calibration, leak testing, and LIN communication testing are required, the testing section often becomes the capacity bottleneck. The industry gross margin is generally 25%–35%; suppliers with high-integration LIN-controlled products, large platform-based orders, and in-house control board or algorithm capabilities usually achieve higher margins, while simple contract manufacturing or low-end PWM products tend to have lower margins.

From the value chain and competitive landscape perspective, the upstream segment includes aluminum alloy and stainless-steel valve materials, precision machined parts, stepper motors, magnetic materials, MCUs and driver ICs, PCBs, connectors, sealing components, and refrigerant-compatible materials. The midstream segment consists of electronic expansion valve and thermal management valve manufacturers, while downstream customers include automakers, thermal management system integrators, air-conditioning system suppliers, and battery thermal management module manufacturers. The competitive landscape is characterized by the coexistence of global automotive thermal management Tier 1 suppliers, Chinese specialist valve manufacturers, and regional automotive component companies. Barriers to entry are concentrated in functional safety, durability validation, leakage control, refrigerant compatibility, software communication protocols, and mass-production consistency. Looking ahead, the industry will continue to upgrade from LIN control toward stronger diagnostics and software-defined control, while becoming more closely integrated with thermal management modules, CO₂ heat-pump systems, low-GWP refrigerant platforms, and multi-valve coordinated control. Product value is expected to shift from stand-alone valve hardware toward integrated capabilities covering valve body, actuator, control board, software calibration, and system validation.

This report studies the global LIN-Controlled 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 LIN-Controlled 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 LIN-Controlled Electronic Expansion Valve for Electric Vehicles that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global LIN-Controlled Electronic Expansion Valve for Electric Vehicles total production and demand, 2021-2032, (K Units)

Global LIN-Controlled Electronic Expansion Valve for Electric Vehicles total production value, 2021-2032, (USD Million)

Global LIN-Controlled Electronic Expansion Valve for Electric Vehicles production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global LIN-Controlled Electronic Expansion Valve for Electric Vehicles consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: LIN-Controlled Electronic Expansion Valve for Electric Vehicles domestic production, consumption, key domestic manufacturers and share

Global LIN-Controlled Electronic Expansion Valve for Electric Vehicles production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global LIN-Controlled Electronic Expansion Valve for Electric Vehicles production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global LIN-Controlled 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 LIN-Controlled 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 LIN-Controlled 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 LIN-Controlled Electronic Expansion Valve for Electric Vehicles Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

EXV for Air Conditioning Thermal Management

EXV for Battery Thermal Management

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

Electromagnetic Type

Electro-electric Type

Global LIN-Controlled Electronic Expansion Valve for Electric Vehicles Market,
Segmentation by Sales Channel:

Direct Sales

Distribution

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

BEV

PHEV

Companies Profiled:

Zhejiang Sanhua Automotive Components

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 LIN-Controlled Electronic Expansion Valve for Electric Vehicles market?
2. What is the demand of the global LIN-Controlled Electronic Expansion Valve for Electric Vehicles market?
3. What is the year over year growth of the global LIN-Controlled Electronic Expansion Valve for Electric Vehicles market?
4. What is the production and production value of the global LIN-Controlled Electronic Expansion Valve for Electric Vehicles market?
5. Who are the key producers in the global LIN-Controlled Electronic Expansion Valve for Electric Vehicles market?
6. What are the growth factors driving the market demand?

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