

Global Electric Vehicle Thermal Expansion Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Vehicle Thermal Expansion Valve market size is expected to reach \$ 1953 million by 2032, rising at a market growth of 14.2% CAGR during the forecast period (2026-2032).

An electric vehicle refrigerant expansion valve is a finished automotive component that meters and throttles refrigerant from a high-pressure region into a lower-pressure evaporating region in the HVAC, heat-pump, battery-chiller or integrated thermal-management refrigerant circuit of a road-going BEV, PHEV/EREV or FCEV. The product may regulate superheat mechanically as a thermostatic expansion valve or receive electrical commands as an electronic, electromagnetic, geared, stepper-motor, shape-memory or motorized-ball expansion valve; it may also provide inseparable shutoff, bidirectional full-open or multi-path functions. In 2025, the included market global ASP of US\$18.43 per unit, sales volume of 39.60 million units, and average manufacturer gross margin of 35.8%. Its upstream supply chain comprises aluminum, brass, stainless steel, engineering plastics, elastomers, valve needles/seats, diaphragms or power elements, permanent magnets, coils and motors, gears, position sensors, control ICs, connectors, precision machining, brazing/welding, cleaning, calibration and leak-testing equipment; midstream participants design, assemble, calibrate and automotive-qualify the valve; downstream customers are vehicle OEMs and thermal-management Tier 1/module integrators serving cabin HVAC, battery chillers, heat-pump branches and refrigerant manifolds, followed by authorized service and replacement channels.

EV thermal management creates more refrigerant control points than a basic cooling-only vehicle A/C loop. A heat-pump platform may need separate metering for the cabin evaporator, battery chiller, outside heat exchanger, vapor-injection branch or rear HVAC

zone. Fast charging and higher battery power density further increase the value of precise flow control because a single thermal loop must switch quickly among cabin comfort, battery protection and drivetrain efficiency priorities.

The mix is moving from mechanical TXV toward electronically actuated valves because EEVs provide a wider turndown ratio, faster response, tighter superheat control and software-coordinated operation across several refrigerant branches. Mechanical TXVs remain viable in cost-sensitive, single-evaporator and selected chiller circuits, especially where passive operation, low electronic complexity or a combined TXV-plus-shutoff package is preferred.

Report Scope

This report studies the global Electric Vehicle Thermal Expansion Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Electric Vehicle Thermal Expansion Valve total production and demand, 2021-2032, (K Units)

Global Electric Vehicle Thermal Expansion Valve total production value, 2021-2032, (USD Million)

Global Electric Vehicle Thermal Expansion Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electric Vehicle Thermal Expansion Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electric Vehicle Thermal Expansion Valve domestic production, consumption, key domestic manufacturers and share

Global Electric Vehicle Thermal Expansion Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Electric Vehicle Thermal Expansion Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electric Vehicle Thermal Expansion Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electric Vehicle Thermal Expansion 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 Zhejiang Sanhua Intelligent Controls Co., Ltd. / Sanhua Automotive, TKG Co., Ltd. (including TKG Europe S.r.l.), Zhejiang Dun'An Artificial Environment Co., Ltd., Hanon Systems, Zhejiang Xinjing Air Conditioning Equipment Co., Ltd., EGELHOF Group, Schrader Pacific Advanced Valves (Pacific Industrial Co., Ltd.), Fujikoki Corporation, Valeo SE, MOSA Industrial Corporation, 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 Electric Vehicle Thermal Expansion 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 Electric Vehicle Thermal Expansion Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Electric Vehicle Thermal Expansion Valve Market, Segmentation by Type:

<3 kW

>3–6 kW

>6–12 kW

>12 kW

Global Electric Vehicle Thermal Expansion Valve Market, Segmentation by Construction and Integration:

Block/flange valve

Inline/tube-connected valve

Cartridge expansion valve

Global Electric Vehicle Thermal Expansion Valve Market, Segmentation by Control Interface:

No electronic interface

Direct pulse/step command

PWM command

LIN or other digital bus

Global Electric Vehicle Thermal Expansion Valve Market, Segmentation by Application:

Internal Combustion Engine Vehicle

Hybrid or Plug-In Hybrid Vehicle

Battery Electric Vehicle

Others

Companies Profiled:

Zhejiang Sanhua Intelligent Controls Co., Ltd. / Sanhua Automotive

TGK Co., Ltd. (including TGK Europe S.r.l.)

Zhejiang Dun'An Artificial Environment Co., Ltd.

Hanon Systems

Zhejiang Xinjing Air Conditioning Equipment Co., Ltd.

EGELHOF Group

Schrader Pacific Advanced Valves (Pacific Industrial Co., Ltd.)

Fujikoki Corporation

Valeo SE

MOSA Industrial Corporation

Zhejiang Chunhui Intelligent Control Co., Ltd.

Anhui Anstoss Electric Co., Ltd.

DENSO Corporation

Key Questions Answered

1. How big is the global Electric Vehicle Thermal Expansion Valve market?
2. What is the demand of the global Electric Vehicle Thermal Expansion Valve market?
3. What is the year over year growth of the global Electric Vehicle Thermal Expansion Valve market?
4. What is the total value of the global Electric Vehicle Thermal Expansion Valve market?
5. Who are the Major Players in the global Electric Vehicle Thermal Expansion Valve market?
6. What are the growth factors driving the market demand?

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