

Global Electric Vehicle Thermal Expansion Valve Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electric Vehicle Thermal Expansion Valve market size was valued at US\$ 751 million in 2025 and is forecast to a readjusted size of US\$ 1953 million by 2032 with a CAGR of 14.2% during review period.

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 is a detailed and comprehensive analysis for global Electric Vehicle Thermal Expansion Valve market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Electric Vehicle Thermal Expansion Valve market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electric Vehicle Thermal Expansion Valve market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electric Vehicle Thermal Expansion Valve market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Electric Vehicle Thermal Expansion Valve market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Electric Vehicle Thermal Expansion Valve

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Electric Vehicle Thermal Expansion Valve market based on the following parameters - company overview, sales quantity, revenue, 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.

Electric Vehicle Thermal Expansion Valve market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market Segmentation

Market segment by Type

≤3 kW

>3–6 kW

>6–12 kW

>12 kW

Market segment by Construction and Integration

Block/flange valve

Inline/tube-connected valve

Cartridge expansion valve

Market segment by Control Interface

No electronic interface

Direct pulse/step command

PWM command

LIN or other digital bus

Market segment by Application

Internal Combustion Engine Vehicle

Hybrid or Plug-In Hybrid Vehicle

Battery Electric Vehicle

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

Chapter Outline

Chapter 1, to describe Electric Vehicle Thermal Expansion Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electric Vehicle Thermal Expansion Valve, with price, sales quantity, revenue, and global market share of Electric Vehicle Thermal Expansion Valve from 2021 to 2026.

Chapter 3, the Electric Vehicle Thermal Expansion Valve competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electric Vehicle Thermal Expansion Valve breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Electric Vehicle Thermal Expansion Valve market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Electric Vehicle Thermal Expansion Valve.

Chapter 14 and 15, to describe Electric Vehicle Thermal Expansion Valve sales channel, distributors, customers, research findings and conclusion.

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