

Global Electronic Expansion Valves for New Energy Automobile Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electronic Expansion Valves for New Energy Automobile 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 new energy vehicles reached 30.74 million units, with an average selling price of USD 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

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 Valves for New Energy Automobile production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electronic Expansion Valves for New Energy Automobile 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 Valves for New Energy Automobile that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electronic Expansion Valves for New Energy Automobile total production and demand, 2021-2032, (K Units)

Global Electronic Expansion Valves for New Energy Automobile total production value, 2021-2032, (USD Million)

Global Electronic Expansion Valves for New Energy Automobile production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electronic Expansion Valves for New Energy Automobile consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electronic Expansion Valves for New Energy Automobile domestic production, consumption, key domestic manufacturers and share

Global Electronic Expansion Valves for New Energy Automobile production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Electronic Expansion Valves for New Energy Automobile production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electronic Expansion Valves for New Energy Automobile production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electronic Expansion Valves for New Energy Automobile 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 Valves for New Energy Automobile 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 Valves for New Energy Automobile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electronic Expansion Valves for New Energy Automobile Market, Segmentation by Type:

Electronic Expansion Valves for Conditioner Thermal Management

Electronic Expansion Valves for Battery Thermal Management

Global Electronic Expansion Valves for New Energy Automobile Market, Segmentation by Driving Method:

Electromagnetic Type

Electro-electric Type

Global Electronic Expansion Valves for New Energy Automobile Market, Segmentation by Control Method:

LIN Control

PWM Control

Global Electronic Expansion Valves for New Energy Automobile Market, Segmentation by Application:

Electric Vehicle

Hybrid Electric Vehicle

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 Electronic Expansion Valves for New Energy Automobile market?
2. What is the demand of the global Electronic Expansion Valves for New Energy Automobile market?
3. What is the year over year growth of the global Electronic Expansion Valves for New Energy Automobile market?
4. What is the production and production value of the global Electronic Expansion

Valves for New Energy Automobile market?

5. Who are the key producers in the global Electronic Expansion Valves for New Energy Automobile market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Electronic Expansion Valves for New Energy Automobile Introduction
- 1.2 World Electronic Expansion Valves for New Energy Automobile Supply & Forecast
 - 1.2.1 World Electronic Expansion Valves for New Energy Automobile Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Electronic Expansion Valves for New Energy Automobile Production (2021-2032)
 - 1.2.3 World Electronic Expansion Valves for New Energy Automobile Pricing Trends (2021-2032)
- 1.3 World Electronic Expansion Valves for New Energy Automobile Production by Region (Based on Production Site)
 - 1.3.1 World Electronic Expansion Valves for New Energy Automobile Production Value by Region (2021-2032)
 - 1.3.2 World Electronic Expansion Valves for New Energy Automobile Production by Region (2021-2032)
 - 1.3.3 World Electronic Expansion Valves for New Energy Automobile Average Price by Region (2021-2032)
 - 1.3.4 North America Electronic Expansion Valves for New Energy Automobile Production (2021-2032)
 - 1.3.5 Japan Electronic Expansion Valves for New Energy Automobile Production (2021-2032)
 - 1.3.6 China Electronic Expansion Valves for New Energy Automobile Production (2021-2032)
 - 1.3.7 Europe Electronic Expansion Valves for New Energy Automobile Production (2021-2032)
 - 1.3.8 Korea Electronic Expansion Valves for New Energy Automobile Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Electronic Expansion Valves for New Energy Automobile Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Electronic Expansion Valves for New Energy Automobile Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Electronic Expansion Valves for New Energy Automobile Demand (2021-2032)

2.2 World Electronic Expansion Valves for New Energy Automobile Consumption by Region

2.2.1 World Electronic Expansion Valves for New Energy Automobile Consumption by Region (2021-2026)

2.2.2 World Electronic Expansion Valves for New Energy Automobile Consumption Forecast by Region (2027-2032)

2.3 United States Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032)

2.4 China Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032)

2.5 Europe Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032)

2.6 Japan Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032)

2.7 South Korea Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032)

2.8 ASEAN Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032)

2.9 India Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Electronic Expansion Valves for New Energy Automobile Production Value by Manufacturer (2021-2026)

3.2 World Electronic Expansion Valves for New Energy Automobile Production by Manufacturer (2021-2026)

3.3 World Electronic Expansion Valves for New Energy Automobile Average Price by Manufacturer (2021-2026)

3.4 Electronic Expansion Valves for New Energy Automobile Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Electronic Expansion Valves for New Energy Automobile Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Electronic Expansion Valves for New Energy Automobile in 2025

3.5.3 Global Concentration Ratios (CR8) for Electronic Expansion Valves for New Energy Automobile in 2025

3.6 Electronic Expansion Valves for New Energy Automobile Market: Overall Company

Footprint Analysis

3.6.1 Electronic Expansion Valves for New Energy Automobile Market: Region Footprint

3.6.2 Electronic Expansion Valves for New Energy Automobile Market: Company Product Type Footprint

3.6.3 Electronic Expansion Valves for New Energy Automobile Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Electronic Expansion Valves for New Energy Automobile Production Value Comparison

4.1.1 United States VS China: Electronic Expansion Valves for New Energy Automobile Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Electronic Expansion Valves for New Energy Automobile Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Electronic Expansion Valves for New Energy Automobile Production Comparison

4.2.1 United States VS China: Electronic Expansion Valves for New Energy Automobile Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Electronic Expansion Valves for New Energy Automobile Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Electronic Expansion Valves for New Energy Automobile Consumption Comparison

4.3.1 United States VS China: Electronic Expansion Valves for New Energy Automobile Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Electronic Expansion Valves for New Energy Automobile Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Electronic Expansion Valves for New Energy Automobile Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Electronic Expansion Valves for New Energy Automobile Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Electronic Expansion Valves for New Energy

Automobile Production Value (2021-2026)

4.4.3 United States Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production (2021-2026)

4.5 China Based Electronic Expansion Valves for New Energy Automobile Manufacturers and Market Share

4.5.1 China Based Electronic Expansion Valves for New Energy Automobile Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Value (2021-2026)

4.5.3 China Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production (2021-2026)

4.6 Rest of World Based Electronic Expansion Valves for New Energy Automobile Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Electronic Expansion Valves for New Energy Automobile Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Electronic Expansion Valves for New Energy Automobile Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Electronic Expansion Valves for Conditioner Thermal Management

5.2.2 Electronic Expansion Valves for Battery Thermal Management

5.3 Market Segment by Type

5.3.1 World Electronic Expansion Valves for New Energy Automobile Production by Type (2021-2032)

5.3.2 World Electronic Expansion Valves for New Energy Automobile Production Value by Type (2021-2032)

5.3.3 World Electronic Expansion Valves for New Energy Automobile Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DRIVING METHOD

6.1 World Electronic Expansion Valves for New Energy Automobile Market Size Overview by Driving Method: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Driving Method

6.2.1 Electromagnetic Type

6.2.2 Electro-electric Type

6.3 Market Segment by Driving Method

6.3.1 World Electronic Expansion Valves for New Energy Automobile Production by Driving Method (2021-2032)

6.3.2 World Electronic Expansion Valves for New Energy Automobile Production Value by Driving Method (2021-2032)

6.3.3 World Electronic Expansion Valves for New Energy Automobile Average Price by Driving Method (2021-2032)

7 MARKET ANALYSIS BY CONTROL METHOD

7.1 World Electronic Expansion Valves for New Energy Automobile Market Size Overview by Control Method: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Control Method

7.2.1 LIN Control

7.2.2 PWM Control

7.3 Market Segment by Control Method

7.3.1 World Electronic Expansion Valves for New Energy Automobile Production by Control Method (2021-2032)

7.3.2 World Electronic Expansion Valves for New Energy Automobile Production Value by Control Method (2021-2032)

7.3.3 World Electronic Expansion Valves for New Energy Automobile Average Price by Control Method (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Electronic Expansion Valves for New Energy Automobile Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electric Vehicle

8.2.2 Hybrid Electric Vehicle

8.3 Market Segment by Application

8.3.1 World Electronic Expansion Valves for New Energy Automobile Production by Application (2021-2032)

8.3.2 World Electronic Expansion Valves for New Energy Automobile Production Value by Application (2021-2032)

8.3.3 World Electronic Expansion Valves for New Energy Automobile Average Price by

Application (2021-2032)

9 COMPANY PROFILES

9.1 Zhejiang Sanhua Automotive Components

9.1.1 Zhejiang Sanhua Automotive Components Details

9.1.2 Zhejiang Sanhua Automotive Components Major Business

9.1.3 Zhejiang Sanhua Automotive Components Electronic Expansion Valves for New Energy Automobile Product and Services

9.1.4 Zhejiang Sanhua Automotive Components Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Zhejiang Sanhua Automotive Components Recent Developments/Updates

9.1.6 Zhejiang Sanhua Automotive Components Competitive Strengths & Weaknesses

9.2 TGK

9.2.1 TGK Details

9.2.2 TGK Major Business

9.2.3 TGK Electronic Expansion Valves for New Energy Automobile Product and Services

9.2.4 TGK Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 TGK Recent Developments/Updates

9.2.6 TGK Competitive Strengths & Weaknesses

9.3 Zhejiang Dun'an Artificial Environment

9.3.1 Zhejiang Dun'an Artificial Environment Details

9.3.2 Zhejiang Dun'an Artificial Environment Major Business

9.3.3 Zhejiang Dun'an Artificial Environment Electronic Expansion Valves for New Energy Automobile Product and Services

9.3.4 Zhejiang Dun'an Artificial Environment Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Zhejiang Dun'an Artificial Environment Recent Developments/Updates

9.3.6 Zhejiang Dun'an Artificial Environment Competitive Strengths & Weaknesses

9.4 HANON

9.4.1 HANON Details

9.4.2 HANON Major Business

9.4.3 HANON Electronic Expansion Valves for New Energy Automobile Product and Services

9.4.4 HANON Electronic Expansion Valves for New Energy Automobile Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 HANON Recent Developments/Updates

9.4.6 HANON Competitive Strengths & Weaknesses

9.5 Egelhof

9.5.1 Egelhof Details

9.5.2 Egelhof Major Business

9.5.3 Egelhof Electronic Expansion Valves for New Energy Automobile Product and Services

9.5.4 Egelhof Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Egelhof Recent Developments/Updates

9.5.6 Egelhof Competitive Strengths & Weaknesses

9.6 Fujikoki

9.6.1 Fujikoki Details

9.6.2 Fujikoki Major Business

9.6.3 Fujikoki Electronic Expansion Valves for New Energy Automobile Product and Services

9.6.4 Fujikoki Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Fujikoki Recent Developments/Updates

9.6.6 Fujikoki Competitive Strengths & Weaknesses

9.7 Schrader Pacific Advanced Valves (Pacific Industrial)

9.7.1 Schrader Pacific Advanced Valves (Pacific Industrial) Details

9.7.2 Schrader Pacific Advanced Valves (Pacific Industrial) Major Business

9.7.3 Schrader Pacific Advanced Valves (Pacific Industrial) Electronic Expansion Valves for New Energy Automobile Product and Services

9.7.4 Schrader Pacific Advanced Valves (Pacific Industrial) Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Schrader Pacific Advanced Valves (Pacific Industrial) Recent Developments/Updates

9.7.6 Schrader Pacific Advanced Valves (Pacific Industrial) Competitive Strengths & Weaknesses

9.8 XINJING

9.8.1 XINJING Details

9.8.2 XINJING Major Business

9.8.3 XINJING Electronic Expansion Valves for New Energy Automobile Product and Services

9.8.4 XINJING Electronic Expansion Valves for New Energy Automobile Production,

Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 XINJING Recent Developments/Updates

9.8.6 XINJING Competitive Strengths & Weaknesses

9.9 Hilite International

9.9.1 Hilite International Details

9.9.2 Hilite International Major Business

9.9.3 Hilite International Electronic Expansion Valves for New Energy Automobile Product and Services

9.9.4 Hilite International Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Hilite International Recent Developments/Updates

9.9.6 Hilite International Competitive Strengths & Weaknesses

9.10 Ningbo Tuopu

9.10.1 Ningbo Tuopu Details

9.10.2 Ningbo Tuopu Major Business

9.10.3 Ningbo Tuopu Electronic Expansion Valves for New Energy Automobile Product and Services

9.10.4 Ningbo Tuopu Electronic Expansion Valves for New Energy Automobile Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Ningbo Tuopu Recent Developments/Updates

9.10.6 Ningbo Tuopu Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Electronic Expansion Valves for New Energy Automobile Industry Chain

10.2 Electronic Expansion Valves for New Energy Automobile Upstream Analysis

10.2.1 Electronic Expansion Valves for New Energy Automobile Core Raw Materials

10.2.2 Main Manufacturers of Electronic Expansion Valves for New Energy Automobile Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Electronic Expansion Valves for New Energy Automobile Production Mode

10.6 Electronic Expansion Valves for New Energy Automobile Procurement Model

10.7 Electronic Expansion Valves for New Energy Automobile Industry Sales Model and Sales Channels

10.7.1 Electronic Expansion Valves for New Energy Automobile Sales Model

10.7.2 Electronic Expansion Valves for New Energy Automobile Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Electronic Expansion Valves for New Energy Automobile Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Electronic Expansion Valves for New Energy Automobile Production Value by Region (2021-2026) & (USD Million)

Table 3. World Electronic Expansion Valves for New Energy Automobile Production Value by Region (2027-2032) & (USD Million)

Table 4. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Region (2021-2026)

Table 5. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Region (2027-2032)

Table 6. World Electronic Expansion Valves for New Energy Automobile Production by Region (2021-2026) & (K Units)

Table 7. World Electronic Expansion Valves for New Energy Automobile Production by Region (2027-2032) & (K Units)

Table 8. World Electronic Expansion Valves for New Energy Automobile Production Market Share by Region (2021-2026)

Table 9. World Electronic Expansion Valves for New Energy Automobile Production Market Share by Region (2027-2032)

Table 10. World Electronic Expansion Valves for New Energy Automobile Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Electronic Expansion Valves for New Energy Automobile Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Electronic Expansion Valves for New Energy Automobile Major Market Trends

Table 13. World Electronic Expansion Valves for New Energy Automobile Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Electronic Expansion Valves for New Energy Automobile Consumption by Region (2021-2026) & (K Units)

Table 15. World Electronic Expansion Valves for New Energy Automobile Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Electronic Expansion Valves for New Energy Automobile Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Electronic Expansion Valves for New Energy Automobile Producers in 2025

Table 18. World Electronic Expansion Valves for New Energy Automobile Production by

Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Electronic Expansion Valves for New Energy Automobile Producers in 2025

Table 20. World Electronic Expansion Valves for New Energy Automobile Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Electronic Expansion Valves for New Energy Automobile Company Evaluation Quadrant

Table 22. World Electronic Expansion Valves for New Energy Automobile Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Electronic Expansion Valves for New Energy Automobile Production Site of Key Manufacturer

Table 24. Electronic Expansion Valves for New Energy Automobile Market: Company Product Type Footprint

Table 25. Electronic Expansion Valves for New Energy Automobile Market: Company Product Application Footprint

Table 26. Electronic Expansion Valves for New Energy Automobile Competitive Factors

Table 27. Electronic Expansion Valves for New Energy Automobile New Entrant and Capacity Expansion Plans

Table 28. Electronic Expansion Valves for New Energy Automobile Mergers & Acquisitions Activity

Table 29. United States VS China Electronic Expansion Valves for New Energy Automobile Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Electronic Expansion Valves for New Energy Automobile Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Electronic Expansion Valves for New Energy Automobile Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Electronic Expansion Valves for New Energy Automobile Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Market Share (2021-2026)

Table 37. China Based Electronic Expansion Valves for New Energy Automobile Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Electronic Expansion Valves for New Energy

Automobile Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Market Share (2021-2026)

Table 42. Rest of World Based Electronic Expansion Valves for New Energy Automobile Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Market Share (2021-2026)

Table 47. World Electronic Expansion Valves for New Energy Automobile Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Electronic Expansion Valves for New Energy Automobile Production by Type (2021-2026) & (K Units)

Table 49. World Electronic Expansion Valves for New Energy Automobile Production by Type (2027-2032) & (K Units)

Table 50. World Electronic Expansion Valves for New Energy Automobile Production Value by Type (2021-2026) & (USD Million)

Table 51. World Electronic Expansion Valves for New Energy Automobile Production Value by Type (2027-2032) & (USD Million)

Table 52. World Electronic Expansion Valves for New Energy Automobile Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Electronic Expansion Valves for New Energy Automobile Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Electronic Expansion Valves for New Energy Automobile Production Value by Driving Method, (USD Million), 2021 & 2025 & 2032

Table 55. World Electronic Expansion Valves for New Energy Automobile Production by Driving Method (2021-2026) & (K Units)

Table 56. World Electronic Expansion Valves for New Energy Automobile Production by Driving Method (2027-2032) & (K Units)

Table 57. World Electronic Expansion Valves for New Energy Automobile Production Value by Driving Method (2021-2026) & (USD Million)

Table 58. World Electronic Expansion Valves for New Energy Automobile Production Value by Driving Method (2027-2032) & (USD Million)

Table 59. World Electronic Expansion Valves for New Energy Automobile Average Price by Driving Method (2021-2026) & (US\$/Unit)

Table 60. World Electronic Expansion Valves for New Energy Automobile Average Price by Driving Method (2027-2032) & (US\$/Unit)

Table 61. World Electronic Expansion Valves for New Energy Automobile Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Table 62. World Electronic Expansion Valves for New Energy Automobile Production by Control Method (2021-2026) & (K Units)

Table 63. World Electronic Expansion Valves for New Energy Automobile Production by Control Method (2027-2032) & (K Units)

Table 64. World Electronic Expansion Valves for New Energy Automobile Production Value by Control Method (2021-2026) & (USD Million)

Table 65. World Electronic Expansion Valves for New Energy Automobile Production Value by Control Method (2027-2032) & (USD Million)

Table 66. World Electronic Expansion Valves for New Energy Automobile Average Price by Control Method (2021-2026) & (US\$/Unit)

Table 67. World Electronic Expansion Valves for New Energy Automobile Average Price by Control Method (2027-2032) & (US\$/Unit)

Table 68. World Electronic Expansion Valves for New Energy Automobile Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Electronic Expansion Valves for New Energy Automobile Production by Application (2021-2026) & (K Units)

Table 70. World Electronic Expansion Valves for New Energy Automobile Production by Application (2027-2032) & (K Units)

Table 71. World Electronic Expansion Valves for New Energy Automobile Production Value by Application (2021-2026) & (USD Million)

Table 72. World Electronic Expansion Valves for New Energy Automobile Production Value by Application (2027-2032) & (USD Million)

Table 73. World Electronic Expansion Valves for New Energy Automobile Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Electronic Expansion Valves for New Energy Automobile Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Zhejiang Sanhua Automotive Components Basic Information, Manufacturing Base and Competitors

Table 76. Zhejiang Sanhua Automotive Components Major Business

Table 77. Zhejiang Sanhua Automotive Components Electronic Expansion Valves for New Energy Automobile Product and Services

Table 78. Zhejiang Sanhua Automotive Components Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Zhejiang Sanhua Automotive Components Recent Developments/Updates

Table 80. Zhejiang Sanhua Automotive Components Competitive Strengths & Weaknesses

Table 81. TGK Basic Information, Manufacturing Base and Competitors

Table 82. TGK Major Business

Table 83. TGK Electronic Expansion Valves for New Energy Automobile Product and Services

Table 84. TGK Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. TGK Recent Developments/Updates

Table 86. TGK Competitive Strengths & Weaknesses

Table 87. Zhejiang Dun'an Artificial Environment Basic Information, Manufacturing Base and Competitors

Table 88. Zhejiang Dun'an Artificial Environment Major Business

Table 89. Zhejiang Dun'an Artificial Environment Electronic Expansion Valves for New Energy Automobile Product and Services

Table 90. Zhejiang Dun'an Artificial Environment Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Zhejiang Dun'an Artificial Environment Recent Developments/Updates

Table 92. Zhejiang Dun'an Artificial Environment Competitive Strengths & Weaknesses

Table 93. HANON Basic Information, Manufacturing Base and Competitors

Table 94. HANON Major Business

Table 95. HANON Electronic Expansion Valves for New Energy Automobile Product and Services

Table 96. HANON Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. HANON Recent Developments/Updates

Table 98. HANON Competitive Strengths & Weaknesses

Table 99. Egelhof Basic Information, Manufacturing Base and Competitors

Table 100. Egelhof Major Business

Table 101. Egelhof Electronic Expansion Valves for New Energy Automobile Product and Services

Table 102. Egelhof Electronic Expansion Valves for New Energy Automobile Production

(K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Egelhof Recent Developments/Updates

Table 104. Egelhof Competitive Strengths & Weaknesses

Table 105. Fujikoki Basic Information, Manufacturing Base and Competitors

Table 106. Fujikoki Major Business

Table 107. Fujikoki Electronic Expansion Valves for New Energy Automobile Product and Services

Table 108. Fujikoki Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Fujikoki Recent Developments/Updates

Table 110. Fujikoki Competitive Strengths & Weaknesses

Table 111. Schrader Pacific Advanced Valves (Pacific Industrial) Basic Information, Manufacturing Base and Competitors

Table 112. Schrader Pacific Advanced Valves (Pacific Industrial) Major Business

Table 113. Schrader Pacific Advanced Valves (Pacific Industrial) Electronic Expansion Valves for New Energy Automobile Product and Services

Table 114. Schrader Pacific Advanced Valves (Pacific Industrial) Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Schrader Pacific Advanced Valves (Pacific Industrial) Recent Developments/Updates

Table 116. Schrader Pacific Advanced Valves (Pacific Industrial) Competitive Strengths & Weaknesses

Table 117. XINJING Basic Information, Manufacturing Base and Competitors

Table 118. XINJING Major Business

Table 119. XINJING Electronic Expansion Valves for New Energy Automobile Product and Services

Table 120. XINJING Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. XINJING Recent Developments/Updates

Table 122. XINJING Competitive Strengths & Weaknesses

Table 123. Hilite International Basic Information, Manufacturing Base and Competitors

Table 124. Hilite International Major Business

Table 125. Hilite International Electronic Expansion Valves for New Energy Automobile Product and Services

Table 126. Hilite International Electronic Expansion Valves for New Energy Automobile

Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Hilite International Recent Developments/Updates

Table 128. Hilite International Competitive Strengths & Weaknesses

Table 129. Ningbo Tuopu Basic Information, Manufacturing Base and Competitors

Table 130. Ningbo Tuopu Major Business

Table 131. Ningbo Tuopu Electronic Expansion Valves for New Energy Automobile Product and Services

Table 132. Ningbo Tuopu Electronic Expansion Valves for New Energy Automobile Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Ningbo Tuopu Recent Developments/Updates

Table 134. Ningbo Tuopu Competitive Strengths & Weaknesses

Table 135. Global Key Players of Electronic Expansion Valves for New Energy Automobile Upstream (Raw Materials)

Table 136. Global Electronic Expansion Valves for New Energy Automobile Typical Customers

Table 137. Electronic Expansion Valves for New Energy Automobile Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Electronic Expansion Valves for New Energy Automobile Picture
- Figure 2. World Electronic Expansion Valves for New Energy Automobile Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Electronic Expansion Valves for New Energy Automobile Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Electronic Expansion Valves for New Energy Automobile Production (2021-2032) & (K Units)
- Figure 5. World Electronic Expansion Valves for New Energy Automobile Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Region (2021-2032)
- Figure 7. World Electronic Expansion Valves for New Energy Automobile Production Market Share by Region (2021-2032)
- Figure 8. North America Electronic Expansion Valves for New Energy Automobile Production (2021-2032) & (K Units)
- Figure 9. Japan Electronic Expansion Valves for New Energy Automobile Production (2021-2032) & (K Units)
- Figure 10. China Electronic Expansion Valves for New Energy Automobile Production (2021-2032) & (K Units)
- Figure 11. Europe Electronic Expansion Valves for New Energy Automobile Production (2021-2032) & (K Units)
- Figure 12. Korea Electronic Expansion Valves for New Energy Automobile Production (2021-2032) & (K Units)
- Figure 13. Electronic Expansion Valves for New Energy Automobile Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)
- Figure 16. World Electronic Expansion Valves for New Energy Automobile Consumption Market Share by Region (2021-2032)
- Figure 17. United States Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)
- Figure 18. China Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)
- Figure 19. Europe Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)

- Figure 20. Japan Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)
- Figure 21. South Korea Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)
- Figure 22. ASEAN Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)
- Figure 23. India Electronic Expansion Valves for New Energy Automobile Consumption (2021-2032) & (K Units)
- Figure 24. Producer Shipments of Electronic Expansion Valves for New Energy Automobile by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Electronic Expansion Valves for New Energy Automobile Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Electronic Expansion Valves for New Energy Automobile Markets in 2025
- Figure 27. United States VS China: Electronic Expansion Valves for New Energy Automobile Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Electronic Expansion Valves for New Energy Automobile Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States VS China: Electronic Expansion Valves for New Energy Automobile Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Market Share 2025
- Figure 31. China Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Market Share 2025
- Figure 32. Rest of World Based Manufacturers Electronic Expansion Valves for New Energy Automobile Production Market Share 2025
- Figure 33. World Electronic Expansion Valves for New Energy Automobile Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 34. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Type in 2025
- Figure 35. Electronic Expansion Valves for Conditioner Thermal Management
- Figure 36. Electronic Expansion Valves for Battery Thermal Management
- Figure 37. World Electronic Expansion Valves for New Energy Automobile Production Market Share by Type (2021-2032)
- Figure 38. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Type (2021-2032)
- Figure 39. World Electronic Expansion Valves for New Energy Automobile Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 40. World Electronic Expansion Valves for New Energy Automobile Production

Value by Driving Method, (USD Million), 2021 & 2025 & 2032

Figure 41. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Driving Method in 2025

Figure 42. Electromagnetic Type

Figure 43. Electro-electric Type

Figure 44. World Electronic Expansion Valves for New Energy Automobile Production Market Share by Driving Method (2021-2032)

Figure 45. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Driving Method (2021-2032)

Figure 46. World Electronic Expansion Valves for New Energy Automobile Average Price by Driving Method (2021-2032) & (US\$/Unit)

Figure 47. World Electronic Expansion Valves for New Energy Automobile Production Value by Control Method, (USD Million), 2021 & 2025 & 2032

Figure 48. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Control Method in 2025

Figure 49. LIN Control

Figure 50. PWM Control

Figure 51. World Electronic Expansion Valves for New Energy Automobile Production Market Share by Control Method (2021-2032)

Figure 52. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Control Method (2021-2032)

Figure 53. World Electronic Expansion Valves for New Energy Automobile Average Price by Control Method (2021-2032) & (US\$/Unit)

Figure 54. World Electronic Expansion Valves for New Energy Automobile Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Application in 2025

Figure 56. Electric Vehicle

Figure 57. Hybrid Electric Vehicle

Figure 58. World Electronic Expansion Valves for New Energy Automobile Production Market Share by Application (2021-2032)

Figure 59. World Electronic Expansion Valves for New Energy Automobile Production Value Market Share by Application (2021-2032)

Figure 60. World Electronic Expansion Valves for New Energy Automobile Average Price by Application (2021-2032) & (US\$/Unit)

Figure 61. Electronic Expansion Valves for New Energy Automobile Industry Chain

Figure 62. Electronic Expansion Valves for New Energy Automobile Procurement Model

Figure 63. Electronic Expansion Valves for New Energy Automobile Sales Model

Figure 64. Electronic Expansion Valves for New Energy Automobile Sales Channels,

Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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