

Global Electronic Coolant Valve for New Energy Vehicle Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electronic Coolant Valve for New Energy Vehicle market size is expected to reach \$ 627 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

An electronic coolant valve is a device that utilizes electronic technology to control water flow. It converts digital temperature signals?acquired by an Electronic Control Unit (ECU)?into analog signals, which then drive a motor to rotate the valve core. By altering the relative position of the valve core with respect to the inlet and outlet pipes, the device achieves precise flow regulation of the coolant across various circulation loops. In new energy vehicles (NEVs), the electronic coolant valve plays a crucial role within the thermal management system by regulating the mixing ratio of hot and cold coolant flows, making it a vital component of these vehicles.

The upstream supply chain primarily comprises high-temperature-resistant engineering plastics?such as PPS, PA, and PPA?as well as components including sealing rings, valve cores, valve seats, springs, gears, bearings, permanent magnets, motors, position sensors, driver ICs, and connectors. These materials and components must be compatible with water-glycol coolants and meet stringent automotive-grade requirements regarding durability, operation across a wide temperature range, and minimal internal leakage. Upstream suppliers also provide services to electronic water valve manufacturers, encompassing flow channel design, valve body molding, actuator integration, control strategy matching, and reliability validation. The downstream market is primarily focused on new energy vehicles, where these valves are deployed in applications such as battery thermal management, cooling systems for electric drive and control units, and heat pump-based air conditioning systems.

By 2025, global sales volume for electronic coolant valves used in new energy vehicles is projected to reach approximately 40 million units. The average market price is estimated at around \$9 per unit, while the gross profit margins for major manufacturers within the industry are expected to range between 20% and 32%.

As the demands placed on battery thermal control, cabin heat pumps, fast-charging preheating, and electric drive cooling?driven by the rise of pure electric, plug-in hybrid, and range-extended electric vehicles?continue to escalate, the precise distribution and switching of coolant across various circuits have become critical. Consequently, electronic water valves have evolved from simple on/off components into key actuators within thermal management systems. Current mainstream products span configurations ranging from two-way to multi-way structures and can be integrated with motor-driven mechanisms and proportional control functions to enhance system response speed and control precision. Looking ahead, with the increasing adoption of heat pump systems and the growing demand for 800V fast charging and low-temperature battery preheating, the electronic water valve market retains significant room for growth. However, future value increments will be increasingly concentrated in products such as multi-way valves, proportional control valves, and integrated valve assemblies; suppliers possessing the capability to engage in collaborative development of thermal management systems will be best positioned to secure long-term market share.

This report studies the global Electronic Coolant Valve for New Energy Vehicle production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Electronic Coolant Valve for New Energy Vehicle total production and demand, 2021-2032, (K Units)

Global Electronic Coolant Valve for New Energy Vehicle total production value, 2021-2032, (USD Million)

Global Electronic Coolant Valve for New Energy Vehicle production by region & country,

production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Electronic Coolant Valve for New Energy Vehicle consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Electronic Coolant Valve for New Energy Vehicle domestic production, consumption, key domestic manufacturers and share

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

Global Electronic Coolant Valve for New Energy Vehicle production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Electronic Coolant Valve for New Energy Vehicle production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Electronic Coolant Valve for New Energy Vehicle 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 Bosch, Denso, Hanon Systems, Pierburg, Schaeffler, INZI Controls, MSG Automotive, Hilite, Eagle Industry, Sanhua Intelligent Controls, 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 Coolant Valve for New Energy Vehicle 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 Coolant Valve for New Energy Vehicle Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electronic Coolant Valve for New Energy Vehicle Market, Segmentation by Type:

Three-way Water Valve

Four-way Water Valve

Other

Global Electronic Coolant Valve for New Energy Vehicle Market, Segmentation by Control Function:

On/Off Type

Proportional Control Type

Other

Global Electronic Coolant Valve for New Energy Vehicle Market, Segmentation by Actuator:

Brushed DC Motor Type

Brushless DC Motor Type

Electromagnetic Drive Type

Global Electronic Coolant Valve for New Energy Vehicle Market, Segmentation by Application:

Passenger Car

Commercial Vehicle

Companies Profiled:

Bosch

Denso

Hanon Systems

Pierburg

Schaeffler

INZI Controls

MSG Automotive

Hilite

Eagle Industry

Sanhua Intelligent Controls

Feilong Auto Components

Jiangsu Chaoli Electric

Tuopu

TEMB Intelligent Technology (Shandong)

Key Questions Answered:

1. How big is the global Electronic Coolant Valve for New Energy Vehicle market?
2. What is the demand of the global Electronic Coolant Valve for New Energy Vehicle market?
3. What is the year over year growth of the global Electronic Coolant Valve for New Energy Vehicle market?
4. What is the production and production value of the global Electronic Coolant Valve for New Energy Vehicle market?
5. Who are the key producers in the global Electronic Coolant Valve for New Energy Vehicle market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Electronic Coolant Valve for New Energy Vehicle Demand (2021-2032)
- 2.2 World Electronic Coolant Valve for New Energy Vehicle Consumption by Region
 - 2.2.1 World Electronic Coolant Valve for New Energy Vehicle Consumption by Region (2021-2026)
 - 2.2.2 World Electronic Coolant Valve for New Energy Vehicle Consumption Forecast by Region (2027-2032)

2.3 United States Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032)

2.4 China Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032)

2.5 Europe Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032)

2.6 Japan Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032)

2.7 South Korea Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032)

2.8 ASEAN Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032)

2.9 India Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Electronic Coolant Valve for New Energy Vehicle Production Value by Manufacturer (2021-2026)

3.2 World Electronic Coolant Valve for New Energy Vehicle Production by Manufacturer (2021-2026)

3.3 World Electronic Coolant Valve for New Energy Vehicle Average Price by Manufacturer (2021-2026)

3.4 Electronic Coolant Valve for New Energy Vehicle Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Electronic Coolant Valve for New Energy Vehicle Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Electronic Coolant Valve for New Energy Vehicle in 2025

3.5.3 Global Concentration Ratios (CR8) for Electronic Coolant Valve for New Energy Vehicle in 2025

3.6 Electronic Coolant Valve for New Energy Vehicle Market: Overall Company Footprint Analysis

3.6.1 Electronic Coolant Valve for New Energy Vehicle Market: Region Footprint

3.6.2 Electronic Coolant Valve for New Energy Vehicle Market: Company Product Type Footprint

3.6.3 Electronic Coolant Valve for New Energy Vehicle 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 Coolant Valve for New Energy Vehicle Production Value Comparison

4.1.1 United States VS China: Electronic Coolant Valve for New Energy Vehicle Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Electronic Coolant Valve for New Energy Vehicle Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Electronic Coolant Valve for New Energy Vehicle Production Comparison

4.2.1 United States VS China: Electronic Coolant Valve for New Energy Vehicle Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Electronic Coolant Valve for New Energy Vehicle Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Electronic Coolant Valve for New Energy Vehicle Consumption Comparison

4.3.1 United States VS China: Electronic Coolant Valve for New Energy Vehicle Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Electronic Coolant Valve for New Energy Vehicle Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Electronic Coolant Valve for New Energy Vehicle Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Electronic Coolant Valve for New Energy Vehicle Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value (2021-2026)

4.4.3 United States Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production (2021-2026)

4.5 China Based Electronic Coolant Valve for New Energy Vehicle Manufacturers and Market Share

4.5.1 China Based Electronic Coolant Valve for New Energy Vehicle Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value (2021-2026)

4.5.3 China Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production (2021-2026)

4.6 Rest of World Based Electronic Coolant Valve for New Energy Vehicle Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Electronic Coolant Valve for New Energy Vehicle Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Electronic Coolant Valve for New Energy Vehicle Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Three-way Water Valve

5.2.2 Four-way Water Valve

5.2.3 Other

5.3 Market Segment by Type

5.3.1 World Electronic Coolant Valve for New Energy Vehicle Production by Type (2021-2032)

5.3.2 World Electronic Coolant Valve for New Energy Vehicle Production Value by Type (2021-2032)

5.3.3 World Electronic Coolant Valve for New Energy Vehicle Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY CONTROL FUNCTION

6.1 World Electronic Coolant Valve for New Energy Vehicle Market Size Overview by Control Function: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Control Function

6.2.1 On/Off Type

6.2.2 Proportional Control Type

6.2.3 Other

6.3 Market Segment by Control Function

6.3.1 World Electronic Coolant Valve for New Energy Vehicle Production by Control Function (2021-2032)

6.3.2 World Electronic Coolant Valve for New Energy Vehicle Production Value by Control Function (2021-2032)

6.3.3 World Electronic Coolant Valve for New Energy Vehicle Average Price by Control Function (2021-2032)

7 MARKET ANALYSIS BY ACTUATOR

7.1 World Electronic Coolant Valve for New Energy Vehicle Market Size Overview by Actuator: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Actuator

7.2.1 Brushed DC Motor Type

7.2.2 Brushless DC Motor Type

7.2.3 Electromagnetic Drive Type

7.3 Market Segment by Actuator

7.3.1 World Electronic Coolant Valve for New Energy Vehicle Production by Actuator (2021-2032)

7.3.2 World Electronic Coolant Valve for New Energy Vehicle Production Value by Actuator (2021-2032)

7.3.3 World Electronic Coolant Valve for New Energy Vehicle Average Price by Actuator (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Electronic Coolant Valve for New Energy Vehicle Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Car

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

8.3.1 World Electronic Coolant Valve for New Energy Vehicle Production by Application (2021-2032)

8.3.2 World Electronic Coolant Valve for New Energy Vehicle Production Value by Application (2021-2032)

8.3.3 World Electronic Coolant Valve for New Energy Vehicle Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Bosch

9.1.1 Bosch Details

9.1.2 Bosch Major Business

9.1.3 Bosch Electronic Coolant Valve for New Energy Vehicle Product and Services

9.1.4 Bosch Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 Bosch Recent Developments/Updates
- 9.1.6 Bosch Competitive Strengths & Weaknesses
- 9.2 Denso
 - 9.2.1 Denso Details
 - 9.2.2 Denso Major Business
 - 9.2.3 Denso Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.2.4 Denso Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Denso Recent Developments/Updates
 - 9.2.6 Denso Competitive Strengths & Weaknesses
- 9.3 Hanon Systems
 - 9.3.1 Hanon Systems Details
 - 9.3.2 Hanon Systems Major Business
 - 9.3.3 Hanon Systems Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.3.4 Hanon Systems Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Hanon Systems Recent Developments/Updates
 - 9.3.6 Hanon Systems Competitive Strengths & Weaknesses
- 9.4 Pierburg
 - 9.4.1 Pierburg Details
 - 9.4.2 Pierburg Major Business
 - 9.4.3 Pierburg Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.4.4 Pierburg Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Pierburg Recent Developments/Updates
 - 9.4.6 Pierburg Competitive Strengths & Weaknesses
- 9.5 Schaeffler
 - 9.5.1 Schaeffler Details
 - 9.5.2 Schaeffler Major Business
 - 9.5.3 Schaeffler Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.5.4 Schaeffler Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Schaeffler Recent Developments/Updates
 - 9.5.6 Schaeffler Competitive Strengths & Weaknesses
- 9.6 INZI Controls
 - 9.6.1 INZI Controls Details
 - 9.6.2 INZI Controls Major Business

9.6.3 INZI Controls Electronic Coolant Valve for New Energy Vehicle Product and Services

9.6.4 INZI Controls Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 INZI Controls Recent Developments/Updates

9.6.6 INZI Controls Competitive Strengths & Weaknesses

9.7 MSG Automotive

9.7.1 MSG Automotive Details

9.7.2 MSG Automotive Major Business

9.7.3 MSG Automotive Electronic Coolant Valve for New Energy Vehicle Product and Services

9.7.4 MSG Automotive Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 MSG Automotive Recent Developments/Updates

9.7.6 MSG Automotive Competitive Strengths & Weaknesses

9.8 Hilite

9.8.1 Hilite Details

9.8.2 Hilite Major Business

9.8.3 Hilite Electronic Coolant Valve for New Energy Vehicle Product and Services

9.8.4 Hilite Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Hilite Recent Developments/Updates

9.8.6 Hilite Competitive Strengths & Weaknesses

9.9 Eagle Industry

9.9.1 Eagle Industry Details

9.9.2 Eagle Industry Major Business

9.9.3 Eagle Industry Electronic Coolant Valve for New Energy Vehicle Product and Services

9.9.4 Eagle Industry Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Eagle Industry Recent Developments/Updates

9.9.6 Eagle Industry Competitive Strengths & Weaknesses

9.10 Sanhua Intelligent Controls

9.10.1 Sanhua Intelligent Controls Details

9.10.2 Sanhua Intelligent Controls Major Business

9.10.3 Sanhua Intelligent Controls Electronic Coolant Valve for New Energy Vehicle Product and Services

9.10.4 Sanhua Intelligent Controls Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 Sanhua Intelligent Controls Recent Developments/Updates
- 9.10.6 Sanhua Intelligent Controls Competitive Strengths & Weaknesses
- 9.11 Feilong Auto Components
 - 9.11.1 Feilong Auto Components Details
 - 9.11.2 Feilong Auto Components Major Business
 - 9.11.3 Feilong Auto Components Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.11.4 Feilong Auto Components Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Feilong Auto Components Recent Developments/Updates
 - 9.11.6 Feilong Auto Components Competitive Strengths & Weaknesses
- 9.12 Jiangsu Chaoli Electric
 - 9.12.1 Jiangsu Chaoli Electric Details
 - 9.12.2 Jiangsu Chaoli Electric Major Business
 - 9.12.3 Jiangsu Chaoli Electric Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.12.4 Jiangsu Chaoli Electric Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Jiangsu Chaoli Electric Recent Developments/Updates
 - 9.12.6 Jiangsu Chaoli Electric Competitive Strengths & Weaknesses
- 9.13 Tuopu
 - 9.13.1 Tuopu Details
 - 9.13.2 Tuopu Major Business
 - 9.13.3 Tuopu Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.13.4 Tuopu Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Tuopu Recent Developments/Updates
 - 9.13.6 Tuopu Competitive Strengths & Weaknesses
- 9.14 TEMB Intelligent Technology (Shandong)
 - 9.14.1 TEMB Intelligent Technology (Shandong) Details
 - 9.14.2 TEMB Intelligent Technology (Shandong) Major Business
 - 9.14.3 TEMB Intelligent Technology (Shandong) Electronic Coolant Valve for New Energy Vehicle Product and Services
 - 9.14.4 TEMB Intelligent Technology (Shandong) Electronic Coolant Valve for New Energy Vehicle Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 TEMB Intelligent Technology (Shandong) Recent Developments/Updates
 - 9.14.6 TEMB Intelligent Technology (Shandong) Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Electronic Coolant Valve for New Energy Vehicle Industry Chain
- 10.2 Electronic Coolant Valve for New Energy Vehicle Upstream Analysis
 - 10.2.1 Electronic Coolant Valve for New Energy Vehicle Core Raw Materials
 - 10.2.2 Main Manufacturers of Electronic Coolant Valve for New Energy Vehicle Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Electronic Coolant Valve for New Energy Vehicle Production Mode
- 10.6 Electronic Coolant Valve for New Energy Vehicle Procurement Model
- 10.7 Electronic Coolant Valve for New Energy Vehicle Industry Sales Model and Sales Channels
 - 10.7.1 Electronic Coolant Valve for New Energy Vehicle Sales Model
 - 10.7.2 Electronic Coolant Valve for New Energy Vehicle 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 Coolant Valve for New Energy Vehicle Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Electronic Coolant Valve for New Energy Vehicle Production Value by Region (2021-2026) & (USD Million)

Table 3. World Electronic Coolant Valve for New Energy Vehicle Production Value by Region (2027-2032) & (USD Million)

Table 4. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Region (2021-2026)

Table 5. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Region (2027-2032)

Table 6. World Electronic Coolant Valve for New Energy Vehicle Production by Region (2021-2026) & (K Units)

Table 7. World Electronic Coolant Valve for New Energy Vehicle Production by Region (2027-2032) & (K Units)

Table 8. World Electronic Coolant Valve for New Energy Vehicle Production Market Share by Region (2021-2026)

Table 9. World Electronic Coolant Valve for New Energy Vehicle Production Market Share by Region (2027-2032)

Table 10. World Electronic Coolant Valve for New Energy Vehicle Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Electronic Coolant Valve for New Energy Vehicle Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Electronic Coolant Valve for New Energy Vehicle Major Market Trends

Table 13. World Electronic Coolant Valve for New Energy Vehicle Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Electronic Coolant Valve for New Energy Vehicle Consumption by Region (2021-2026) & (K Units)

Table 15. World Electronic Coolant Valve for New Energy Vehicle Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Electronic Coolant Valve for New Energy Vehicle Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Electronic Coolant Valve for New Energy Vehicle Producers in 2025

Table 18. World Electronic Coolant Valve for New Energy Vehicle Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Electronic Coolant Valve for New Energy Vehicle Producers in 2025

Table 20. World Electronic Coolant Valve for New Energy Vehicle Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Electronic Coolant Valve for New Energy Vehicle Company Evaluation Quadrant

Table 22. World Electronic Coolant Valve for New Energy Vehicle Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Electronic Coolant Valve for New Energy Vehicle Production Site of Key Manufacturer

Table 24. Electronic Coolant Valve for New Energy Vehicle Market: Company Product Type Footprint

Table 25. Electronic Coolant Valve for New Energy Vehicle Market: Company Product Application Footprint

Table 26. Electronic Coolant Valve for New Energy Vehicle Competitive Factors

Table 27. Electronic Coolant Valve for New Energy Vehicle New Entrant and Capacity Expansion Plans

Table 28. Electronic Coolant Valve for New Energy Vehicle Mergers & Acquisitions Activity

Table 29. United States VS China Electronic Coolant Valve for New Energy Vehicle Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Electronic Coolant Valve for New Energy Vehicle Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Electronic Coolant Valve for New Energy Vehicle Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Electronic Coolant Valve for New Energy Vehicle Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Market Share (2021-2026)

Table 37. China Based Electronic Coolant Valve for New Energy Vehicle Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Market Share (2021-2026)

Table 42. Rest of World Based Electronic Coolant Valve for New Energy Vehicle Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Market Share (2021-2026)

Table 47. World Electronic Coolant Valve for New Energy Vehicle Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Electronic Coolant Valve for New Energy Vehicle Production by Type (2021-2026) & (K Units)

Table 49. World Electronic Coolant Valve for New Energy Vehicle Production by Type (2027-2032) & (K Units)

Table 50. World Electronic Coolant Valve for New Energy Vehicle Production Value by Type (2021-2026) & (USD Million)

Table 51. World Electronic Coolant Valve for New Energy Vehicle Production Value by Type (2027-2032) & (USD Million)

Table 52. World Electronic Coolant Valve for New Energy Vehicle Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Electronic Coolant Valve for New Energy Vehicle Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Electronic Coolant Valve for New Energy Vehicle Production Value by Control Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Electronic Coolant Valve for New Energy Vehicle Production by Control Function (2021-2026) & (K Units)

Table 56. World Electronic Coolant Valve for New Energy Vehicle Production by Control Function (2027-2032) & (K Units)

Table 57. World Electronic Coolant Valve for New Energy Vehicle Production Value by Control Function (2021-2026) & (USD Million)

Table 58. World Electronic Coolant Valve for New Energy Vehicle Production Value by

Control Function (2027-2032) & (USD Million)

Table 59. World Electronic Coolant Valve for New Energy Vehicle Average Price by Control Function (2021-2026) & (US\$/Unit)

Table 60. World Electronic Coolant Valve for New Energy Vehicle Average Price by Control Function (2027-2032) & (US\$/Unit)

Table 61. World Electronic Coolant Valve for New Energy Vehicle Production Value by Actuator, (USD Million), 2021 & 2025 & 2032

Table 62. World Electronic Coolant Valve for New Energy Vehicle Production by Actuator (2021-2026) & (K Units)

Table 63. World Electronic Coolant Valve for New Energy Vehicle Production by Actuator (2027-2032) & (K Units)

Table 64. World Electronic Coolant Valve for New Energy Vehicle Production Value by Actuator (2021-2026) & (USD Million)

Table 65. World Electronic Coolant Valve for New Energy Vehicle Production Value by Actuator (2027-2032) & (USD Million)

Table 66. World Electronic Coolant Valve for New Energy Vehicle Average Price by Actuator (2021-2026) & (US\$/Unit)

Table 67. World Electronic Coolant Valve for New Energy Vehicle Average Price by Actuator (2027-2032) & (US\$/Unit)

Table 68. World Electronic Coolant Valve for New Energy Vehicle Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Electronic Coolant Valve for New Energy Vehicle Production by Application (2021-2026) & (K Units)

Table 70. World Electronic Coolant Valve for New Energy Vehicle Production by Application (2027-2032) & (K Units)

Table 71. World Electronic Coolant Valve for New Energy Vehicle Production Value by Application (2021-2026) & (USD Million)

Table 72. World Electronic Coolant Valve for New Energy Vehicle Production Value by Application (2027-2032) & (USD Million)

Table 73. World Electronic Coolant Valve for New Energy Vehicle Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Electronic Coolant Valve for New Energy Vehicle Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Bosch Basic Information, Manufacturing Base and Competitors

Table 76. Bosch Major Business

Table 77. Bosch Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 78. Bosch Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bosch Recent Developments/Updates

Table 80. Bosch Competitive Strengths & Weaknesses

Table 81. Denso Basic Information, Manufacturing Base and Competitors

Table 82. Denso Major Business

Table 83. Denso Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 84. Denso Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Denso Recent Developments/Updates

Table 86. Denso Competitive Strengths & Weaknesses

Table 87. Hanon Systems Basic Information, Manufacturing Base and Competitors

Table 88. Hanon Systems Major Business

Table 89. Hanon Systems Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 90. Hanon Systems Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Hanon Systems Recent Developments/Updates

Table 92. Hanon Systems Competitive Strengths & Weaknesses

Table 93. Pierburg Basic Information, Manufacturing Base and Competitors

Table 94. Pierburg Major Business

Table 95. Pierburg Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 96. Pierburg Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Pierburg Recent Developments/Updates

Table 98. Pierburg Competitive Strengths & Weaknesses

Table 99. Schaeffler Basic Information, Manufacturing Base and Competitors

Table 100. Schaeffler Major Business

Table 101. Schaeffler Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 102. Schaeffler Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Schaeffler Recent Developments/Updates

Table 104. Schaeffler Competitive Strengths & Weaknesses

Table 105. INZI Controls Basic Information, Manufacturing Base and Competitors

Table 106. INZI Controls Major Business

Table 107. INZI Controls Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 108. INZI Controls Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. INZI Controls Recent Developments/Updates

Table 110. INZI Controls Competitive Strengths & Weaknesses

Table 111. MSG Automotive Basic Information, Manufacturing Base and Competitors

Table 112. MSG Automotive Major Business

Table 113. MSG Automotive Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 114. MSG Automotive Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. MSG Automotive Recent Developments/Updates

Table 116. MSG Automotive Competitive Strengths & Weaknesses

Table 117. Hilite Basic Information, Manufacturing Base and Competitors

Table 118. Hilite Major Business

Table 119. Hilite Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 120. Hilite Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hilite Recent Developments/Updates

Table 122. Hilite Competitive Strengths & Weaknesses

Table 123. Eagle Industry Basic Information, Manufacturing Base and Competitors

Table 124. Eagle Industry Major Business

Table 125. Eagle Industry Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 126. Eagle Industry Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Eagle Industry Recent Developments/Updates

Table 128. Eagle Industry Competitive Strengths & Weaknesses

Table 129. Sanhua Intelligent Controls Basic Information, Manufacturing Base and Competitors

Table 130. Sanhua Intelligent Controls Major Business

Table 131. Sanhua Intelligent Controls Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 132. Sanhua Intelligent Controls Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Sanhua Intelligent Controls Recent Developments/Updates

Table 134. Sanhua Intelligent Controls Competitive Strengths & Weaknesses

Table 135. Feilong Auto Components Basic Information, Manufacturing Base and Competitors

Table 136. Feilong Auto Components Major Business

Table 137. Feilong Auto Components Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 138. Feilong Auto Components Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Feilong Auto Components Recent Developments/Updates

Table 140. Feilong Auto Components Competitive Strengths & Weaknesses

Table 141. Jiangsu Chaoli Electric Basic Information, Manufacturing Base and Competitors

Table 142. Jiangsu Chaoli Electric Major Business

Table 143. Jiangsu Chaoli Electric Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 144. Jiangsu Chaoli Electric Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Jiangsu Chaoli Electric Recent Developments/Updates

Table 146. Jiangsu Chaoli Electric Competitive Strengths & Weaknesses

Table 147. Tuopu Basic Information, Manufacturing Base and Competitors

Table 148. Tuopu Major Business

Table 149. Tuopu Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 150. Tuopu Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Tuopu Recent Developments/Updates

Table 152. Tuopu Competitive Strengths & Weaknesses

Table 153. TEMB Intelligent Technology (Shandong) Basic Information, Manufacturing Base and Competitors

Table 154. TEMB Intelligent Technology (Shandong) Major Business

Table 155. TEMB Intelligent Technology (Shandong) Electronic Coolant Valve for New Energy Vehicle Product and Services

Table 156. TEMB Intelligent Technology (Shandong) Electronic Coolant Valve for New Energy Vehicle Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. TEMB Intelligent Technology (Shandong) Recent Developments/Updates

Table 158. TEMB Intelligent Technology (Shandong) Competitive Strengths & Weaknesses

Table 159. Global Key Players of Electronic Coolant Valve for New Energy Vehicle Upstream (Raw Materials)

Table 160. Global Electronic Coolant Valve for New Energy Vehicle Typical Customers

Table 161. Electronic Coolant Valve for New Energy Vehicle Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Electronic Coolant Valve for New Energy Vehicle Picture

Figure 2. World Electronic Coolant Valve for New Energy Vehicle Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Electronic Coolant Valve for New Energy Vehicle Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Electronic Coolant Valve for New Energy Vehicle Production (2021-2032) & (K Units)

Figure 5. World Electronic Coolant Valve for New Energy Vehicle Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Region (2021-2032)

Figure 7. World Electronic Coolant Valve for New Energy Vehicle Production Market Share by Region (2021-2032)

Figure 8. North America Electronic Coolant Valve for New Energy Vehicle Production (2021-2032) & (K Units)

Figure 9. Europe Electronic Coolant Valve for New Energy Vehicle Production (2021-2032) & (K Units)

Figure 10. China Electronic Coolant Valve for New Energy Vehicle Production (2021-2032) & (K Units)

Figure 11. Japan Electronic Coolant Valve for New Energy Vehicle Production (2021-2032) & (K Units)

Figure 12. South Korea Electronic Coolant Valve for New Energy Vehicle Production (2021-2032) & (K Units)

Figure 13. Electronic Coolant Valve for New Energy Vehicle Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 16. World Electronic Coolant Valve for New Energy Vehicle Consumption Market Share by Region (2021-2032)

Figure 17. United States Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 18. China Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 19. Europe Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 20. Japan Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 21. South Korea Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 23. India Electronic Coolant Valve for New Energy Vehicle Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Electronic Coolant Valve for New Energy Vehicle by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Electronic Coolant Valve for New Energy Vehicle Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Electronic Coolant Valve for New Energy Vehicle Markets in 2025

Figure 27. United States VS China: Electronic Coolant Valve for New Energy Vehicle Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Electronic Coolant Valve for New Energy Vehicle Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Electronic Coolant Valve for New Energy Vehicle Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Market Share 2025

Figure 31. China Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Electronic Coolant Valve for New Energy Vehicle Production Market Share 2025

Figure 33. World Electronic Coolant Valve for New Energy Vehicle Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Type in 2025

Figure 35. Three-way Water Valve

Figure 36. Four-way Water Valve

Figure 37. Other

Figure 38. World Electronic Coolant Valve for New Energy Vehicle Production Market Share by Type (2021-2032)

Figure 39. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Type (2021-2032)

Figure 40. World Electronic Coolant Valve for New Energy Vehicle Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Electronic Coolant Valve for New Energy Vehicle Production Value by Control Function, (USD Million), 2021 & 2025 & 2032

Figure 42. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Control Function in 2025

Figure 43. On/Off Type

Figure 44. Proportional Control Type

Figure 45. Other

Figure 46. World Electronic Coolant Valve for New Energy Vehicle Production Market Share by Control Function (2021-2032)

Figure 47. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Control Function (2021-2032)

Figure 48. World Electronic Coolant Valve for New Energy Vehicle Average Price by Control Function (2021-2032) & (US\$/Unit)

Figure 49. World Electronic Coolant Valve for New Energy Vehicle Production Value by Actuator, (USD Million), 2021 & 2025 & 2032

Figure 50. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Actuator in 2025

Figure 51. Brushed DC Motor Type

Figure 52. Brushless DC Motor Type

Figure 53. Electromagnetic Drive Type

Figure 54. World Electronic Coolant Valve for New Energy Vehicle Production Market Share by Actuator (2021-2032)

Figure 55. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Actuator (2021-2032)

Figure 56. World Electronic Coolant Valve for New Energy Vehicle Average Price by Actuator (2021-2032) & (US\$/Unit)

Figure 57. World Electronic Coolant Valve for New Energy Vehicle Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Application in 2025

Figure 59. Passenger Car

Figure 60. Commercial Vehicle

Figure 61. World Electronic Coolant Valve for New Energy Vehicle Production Market Share by Application (2021-2032)

Figure 62. World Electronic Coolant Valve for New Energy Vehicle Production Value Market Share by Application (2021-2032)

Figure 63. World Electronic Coolant Valve for New Energy Vehicle Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Electronic Coolant Valve for New Energy Vehicle Industry Chain

Figure 65. Electronic Coolant Valve for New Energy Vehicle Procurement Model

Figure 66. Electronic Coolant Valve for New Energy Vehicle Sales Model

Figure 67. Electronic Coolant Valve for New Energy Vehicle Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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