

Global Battery Pack Cooling Valve Actuator System Market Growth 2026-2032

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Abstracts

The global Battery Pack Cooling Valve Actuator System market size is predicted to grow from US\$ 403 million in 2025 to US\$ 722 million in 2032; it is expected to grow at a CAGR of 8.8% from 2026 to 2032.

Battery pack cooling valve actuator systems are electromechanical components that control coolant flow within electric vehicle battery thermal management architectures. These systems regulate movement of coolant between battery packs, chillers, bypass routes, and cooling branches under varying vehicle operating conditions. Unlike passive thermal components, these actuator systems actively adjust valve positions based on real-time temperature data, enabling precise thermal regulation that directly impacts charging speed, battery lifespan, and pack safety. Key types include switching valves, proportional coolant valves, shut-off valves, and integrated valve assemblies. Actuation technologies include electric motor actuators, solenoid actuators, and stepper actuators. From a value chain perspective, upstream includes electric motor manufacturers, solenoid coil suppliers, position sensor producers, and controller/PCB fabricators; midstream involves actuator assembly, valve integration, software/calibration, and quality testing; downstream demand spans EV OEMs (battery electric passenger cars, plug-in hybrids, electric buses, electric trucks), Tier 1 thermal module suppliers, and replacement aftermarket. In 2025, the average selling price is approximately US\$40 per unit, global sales volume is about 10.3 million units, and gross margins generally range from 20% to 35%, driven by motor and solenoid costs, precision gearing requirements, and functional safety validation expenses.

The battery pack cooling valve actuator system market is experiencing rapid growth driven by the shift toward higher energy density batteries and ultra-fast charging capabilities. As EV battery packs carry higher thermal loads, the need for precise

coolant routing control has intensified. OEMs are moving beyond simple on-off valves toward proportional and multi-way valve actuators capable of fine-grained flow distribution across multiple cooling branches.

System Integration as a Key Industry Driver

Thermal management architectures are becoming increasingly integrated. Rather than sourcing individual valves and actuators separately, OEMs are adopting integrated thermal modules that consolidate multiple components—valves, actuators, pumps, and sensors—into single subassemblies. Integrated solutions simplify vehicle assembly, reduce weight and cost, and improve thermal system efficiency. Compact packaging requirements are driving demand for smaller, lighter actuators capable of fitting into tightly constrained engine compartments.

Diversity of Actuator Technologies

Electric motor actuators currently lead the market. Compared to solenoid and stepper actuator alternatives, electric motor actuators offer smoother actuation, better flow precision, and greater reliability over extended service life. However, specific applications drive demand for each technology—stepper actuators excel in applications requiring precise incremental positioning, while solenoid actuators offer cost advantages for simpler on-off functions.

LP Information, Inc. (LPI) ' newest research report, the "Battery Pack Cooling Valve Actuator System Industry Forecast" looks at past sales and reviews total world Battery Pack Cooling Valve Actuator System sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Pack Cooling Valve Actuator System sales for 2026 through 2032. With Battery Pack Cooling Valve Actuator System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Pack Cooling Valve Actuator System industry.

This Insight Report provides a comprehensive analysis of the global Battery Pack Cooling Valve Actuator System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Battery Pack Cooling Valve Actuator System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Battery Pack Cooling

Valve Actuator System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Pack Cooling Valve Actuator System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Pack Cooling Valve Actuator System.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Pack Cooling Valve Actuator System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Low Torque (
Medium Torque (0.5-1.2 N?m)

High Torque (> 1.2 N?m)

Segmentation by Operating Temperature Range:

Standard EV Range (-40?C to +85?C)

Extended High Temp (-40?C to +105?C)

Extreme Range (-40?C to +140?C)

Segmentation by Number of Ports:

2?Way / Shut?Off Valve

3?Way Valve

4?Way / 5?Way Valve

6?Way & Above (e.g. 7?way, 8?way, 9?way)

Segmentation by Application:

OEM Line-Fit

Tier 1 Module Supply

Replacement Aftermarket

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SANHUA Automotive

Denso Corporation

MAHLE GmbH

Hanon Systems

Rheinmetall Automotive (Pierburg)

BorgWarner Inc.

VOSS Automotive GmbH

HELLA GmbH & Co. KGaA (Forvia)

Burger Group

Johnson Electric Holdings Limited

Inzi Controls Co., Ltd.

Bosch

Valeo

Hitachi Astemo

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Pack Cooling Valve Actuator System market?

What factors are driving Battery Pack Cooling Valve Actuator System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Battery Pack Cooling Valve Actuator System market opportunities vary by end market size?

How does Battery Pack Cooling Valve Actuator System break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Battery Pack Cooling Valve Actuator System Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Battery Pack Cooling Valve Actuator System by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Battery Pack Cooling Valve Actuator System by Country/Region, 2021, 2025 & 2032

2.2 Battery Pack Cooling Valve Actuator System Segment by Type

- 2.2.1 Low Torque (2.2.2 Medium Torque (0.5-1.2 N?m)
- 2.2.3 High Torque (> 1.2 N?m)
- 2.2.4 Battery Pack Cooling Valve Actuator System Sales by Type
 - 2.2.4.1 Global Battery Pack Cooling Valve Actuator System Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Battery Pack Cooling Valve Actuator System Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Battery Pack Cooling Valve Actuator System Sale Price by Type (2021-2026)

2.3 Battery Pack Cooling Valve Actuator System Segment by Operating Temperature Range

- 2.3.1 Standard EV Range (-40°C to +85°C)
- 2.3.2 Extended High Temp (-40°C to +105°C)
- 2.3.3 Extreme Range (-40°C to +140°C)
- 2.3.4 Battery Pack Cooling Valve Actuator System Sales by Operating Temperature Range
 - 2.3.4.1 Global Battery Pack Cooling Valve Actuator System Sales Market Share by

Operating Temperature Range (2021-2026)

2.3.4.2 Global Battery Pack Cooling Valve Actuator System Revenue and Market Share by Operating Temperature Range (2021-2026)

2.3.4.3 Global Battery Pack Cooling Valve Actuator System Sale Price by Operating Temperature Range (2021-2026)

2.4 Battery Pack Cooling Valve Actuator System Segment by Number of Ports

2.4.1 2-Way / Shut-Off Valve

2.4.2 3-Way Valve

2.4.3 4-Way / 5-Way Valve

2.4.4 6-Way & Above (e.g. 7-way, 8-way, 9-way)

2.4.5 Battery Pack Cooling Valve Actuator System Sales by Number of Ports

2.4.5.1 Global Battery Pack Cooling Valve Actuator System Sales Market Share by Number of Ports (2021-2026)

2.4.5.2 Global Battery Pack Cooling Valve Actuator System Revenue and Market Share by Number of Ports (2021-2026)

2.4.5.3 Global Battery Pack Cooling Valve Actuator System Sale Price by Number of Ports (2021-2026)

2.5 Battery Pack Cooling Valve Actuator System Segment by Application

2.5.1 OEM Line-Fit

2.5.2 Tier 1 Module Supply

2.5.3 Replacement Aftermarket

2.5.4 Battery Pack Cooling Valve Actuator System Sales by Application

2.5.4.1 Global Battery Pack Cooling Valve Actuator System Sale Market Share by Application (2021-2026)

2.5.4.2 Global Battery Pack Cooling Valve Actuator System Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Battery Pack Cooling Valve Actuator System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Battery Pack Cooling Valve Actuator System Breakdown Data by Company

3.1.1 Global Battery Pack Cooling Valve Actuator System Annual Sales by Company (2021-2026)

3.1.2 Global Battery Pack Cooling Valve Actuator System Sales Market Share by Company (2021-2026)

3.2 Global Battery Pack Cooling Valve Actuator System Annual Revenue by Company (2021-2026)

3.2.1 Global Battery Pack Cooling Valve Actuator System Revenue by Company

(2021-2026)

3.2.2 Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Company (2021-2026)

3.3 Global Battery Pack Cooling Valve Actuator System Sale Price by Company

3.4 Key Manufacturers Battery Pack Cooling Valve Actuator System Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Battery Pack Cooling Valve Actuator System Product Location Distribution

3.4.2 Players Battery Pack Cooling Valve Actuator System Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BATTERY PACK COOLING VALVE ACTUATOR SYSTEM BY GEOGRAPHIC REGION

4.1 World Historic Battery Pack Cooling Valve Actuator System Market Size by Geographic Region (2021-2026)

4.1.1 Global Battery Pack Cooling Valve Actuator System Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Battery Pack Cooling Valve Actuator System Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Battery Pack Cooling Valve Actuator System Market Size by Country/Region (2021-2026)

4.2.1 Global Battery Pack Cooling Valve Actuator System Annual Sales by Country/Region (2021-2026)

4.2.2 Global Battery Pack Cooling Valve Actuator System Annual Revenue by Country/Region (2021-2026)

4.3 Americas Battery Pack Cooling Valve Actuator System Sales Growth

4.4 APAC Battery Pack Cooling Valve Actuator System Sales Growth

4.5 Europe Battery Pack Cooling Valve Actuator System Sales Growth

4.6 Middle East & Africa Battery Pack Cooling Valve Actuator System Sales Growth

5 AMERICAS

5.1 Americas Battery Pack Cooling Valve Actuator System Sales by Country

5.1.1 Americas Battery Pack Cooling Valve Actuator System Sales by Country

(2021-2026)

5.1.2 Americas Battery Pack Cooling Valve Actuator System Revenue by Country

(2021-2026)

5.2 Americas Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026)

5.3 Americas Battery Pack Cooling Valve Actuator System Sales by Application

(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Battery Pack Cooling Valve Actuator System Sales by Region

6.1.1 APAC Battery Pack Cooling Valve Actuator System Sales by Region

(2021-2026)

6.1.2 APAC Battery Pack Cooling Valve Actuator System Revenue by Region

(2021-2026)

6.2 APAC Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026)

6.3 APAC Battery Pack Cooling Valve Actuator System Sales by Application

(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Battery Pack Cooling Valve Actuator System by Country

7.1.1 Europe Battery Pack Cooling Valve Actuator System Sales by Country

(2021-2026)

7.1.2 Europe Battery Pack Cooling Valve Actuator System Revenue by Country

(2021-2026)

7.2 Europe Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026)

7.3 Europe Battery Pack Cooling Valve Actuator System Sales by Application

(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Battery Pack Cooling Valve Actuator System by Country

8.1.1 Middle East & Africa Battery Pack Cooling Valve Actuator System Sales by Country (2021-2026)

8.1.2 Middle East & Africa Battery Pack Cooling Valve Actuator System Revenue by Country (2021-2026)

8.2 Middle East & Africa Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026)

8.3 Middle East & Africa Battery Pack Cooling Valve Actuator System Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Battery Pack Cooling Valve Actuator System

10.3 Manufacturing Process Analysis of Battery Pack Cooling Valve Actuator System

10.4 Industry Chain Structure of Battery Pack Cooling Valve Actuator System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Battery Pack Cooling Valve Actuator System Distributors

11.3 Battery Pack Cooling Valve Actuator System Customer

12 WORLD FORECAST REVIEW FOR BATTERY PACK COOLING VALVE ACTUATOR SYSTEM BY GEOGRAPHIC REGION

12.1 Global Battery Pack Cooling Valve Actuator System Market Size Forecast by Region

12.1.1 Global Battery Pack Cooling Valve Actuator System Forecast by Region (2027-2032)

12.1.2 Global Battery Pack Cooling Valve Actuator System Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Battery Pack Cooling Valve Actuator System Forecast by Type (2027-2032)

12.7 Global Battery Pack Cooling Valve Actuator System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SANHUA Automotive

13.1.1 SANHUA Automotive Company Information

13.1.2 SANHUA Automotive Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.1.3 SANHUA Automotive Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 SANHUA Automotive Main Business Overview

13.1.5 SANHUA Automotive Latest Developments

13.2 Denso Corporation

13.2.1 Denso Corporation Company Information

13.2.2 Denso Corporation Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.2.3 Denso Corporation Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.2.4 Denso Corporation Main Business Overview
- 13.2.5 Denso Corporation Latest Developments
- 13.3 MAHLE GmbH
 - 13.3.1 MAHLE GmbH Company Information
 - 13.3.2 MAHLE GmbH Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications
 - 13.3.3 MAHLE GmbH Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 MAHLE GmbH Main Business Overview
 - 13.3.5 MAHLE GmbH Latest Developments
- 13.4 Hanon Systems
 - 13.4.1 Hanon Systems Company Information
 - 13.4.2 Hanon Systems Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications
 - 13.4.3 Hanon Systems Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Hanon Systems Main Business Overview
 - 13.4.5 Hanon Systems Latest Developments
- 13.5 Rheinmetall Automotive (Pierburg)
 - 13.5.1 Rheinmetall Automotive (Pierburg) Company Information
 - 13.5.2 Rheinmetall Automotive (Pierburg) Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications
 - 13.5.3 Rheinmetall Automotive (Pierburg) Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Rheinmetall Automotive (Pierburg) Main Business Overview
 - 13.5.5 Rheinmetall Automotive (Pierburg) Latest Developments
- 13.6 BorgWarner Inc.
 - 13.6.1 BorgWarner Inc. Company Information
 - 13.6.2 BorgWarner Inc. Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications
 - 13.6.3 BorgWarner Inc. Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 BorgWarner Inc. Main Business Overview
 - 13.6.5 BorgWarner Inc. Latest Developments
- 13.7 VOSS Automotive GmbH
 - 13.7.1 VOSS Automotive GmbH Company Information
 - 13.7.2 VOSS Automotive GmbH Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications
 - 13.7.3 VOSS Automotive GmbH Battery Pack Cooling Valve Actuator System Sales,

Revenue, Price and Gross Margin (2021-2026)

13.7.4 VOSS Automotive GmbH Main Business Overview

13.7.5 VOSS Automotive GmbH Latest Developments

13.8 HELLA GmbH & Co. KGaA (Forvia)

13.8.1 HELLA GmbH & Co. KGaA (Forvia) Company Information

13.8.2 HELLA GmbH & Co. KGaA (Forvia) Battery Pack Cooling Valve Actuator

System Product Portfolios and Specifications

13.8.3 HELLA GmbH & Co. KGaA (Forvia) Battery Pack Cooling Valve Actuator

System Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 HELLA GmbH & Co. KGaA (Forvia) Main Business Overview

13.8.5 HELLA GmbH & Co. KGaA (Forvia) Latest Developments

13.9 Burger Group

13.9.1 Burger Group Company Information

13.9.2 Burger Group Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.9.3 Burger Group Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Burger Group Main Business Overview

13.9.5 Burger Group Latest Developments

13.10 Johnson Electric Holdings Limited

13.10.1 Johnson Electric Holdings Limited Company Information

13.10.2 Johnson Electric Holdings Limited Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.10.3 Johnson Electric Holdings Limited Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Johnson Electric Holdings Limited Main Business Overview

13.10.5 Johnson Electric Holdings Limited Latest Developments

13.11 Inzi Controls Co., Ltd.

13.11.1 Inzi Controls Co., Ltd. Company Information

13.11.2 Inzi Controls Co., Ltd. Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.11.3 Inzi Controls Co., Ltd. Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Inzi Controls Co., Ltd. Main Business Overview

13.11.5 Inzi Controls Co., Ltd. Latest Developments

13.12 Bosch

13.12.1 Bosch Company Information

13.12.2 Bosch Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.12.3 Bosch Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Bosch Main Business Overview

13.12.5 Bosch Latest Developments

13.13 Valeo

13.13.1 Valeo Company Information

13.13.2 Valeo Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.13.3 Valeo Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Valeo Main Business Overview

13.13.5 Valeo Latest Developments

13.14 Hitachi Astemo

13.14.1 Hitachi Astemo Company Information

13.14.2 Hitachi Astemo Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

13.14.3 Hitachi Astemo Battery Pack Cooling Valve Actuator System Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Hitachi Astemo Main Business Overview

13.14.5 Hitachi Astemo Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Battery Pack Cooling Valve Actuator System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Battery Pack Cooling Valve Actuator System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Low Torque (Table 4. Major Players of Medium Torque (0.5-1.2 N?m)
- Table 5. Major Players of High Torque (> 1.2 N?m)
- Table 6. Global Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026) & (K Units)
- Table 7. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Type (2021-2026)
- Table 8. Global Battery Pack Cooling Valve Actuator System Revenue by Type (2021-2026) & (\$ million)
- Table 9. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Type (2021-2026)
- Table 10. Global Battery Pack Cooling Valve Actuator System Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 11. Major Players of Standard EV Range (-40?C to +85?C)
- Table 12. Major Players of Extended High Temp (-40?C to +105?C)
- Table 13. Major Players of Extreme Range (-40?C to +140?C)
- Table 14. Global Battery Pack Cooling Valve Actuator System Sales by Operating Temperature Range (2021-2026) & (K Units)
- Table 15. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Operating Temperature Range (2021-2026)
- Table 16. Global Battery Pack Cooling Valve Actuator System Revenue by Operating Temperature Range (2021-2026) & (\$ million)
- Table 17. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Operating Temperature Range (2021-2026)
- Table 18. Global Battery Pack Cooling Valve Actuator System Sale Price by Operating Temperature Range (2021-2026) & (US\$/Unit)
- Table 19. Major Players of 2?Way / Shut?Off Valve
- Table 20. Major Players of 3?Way Valve
- Table 21. Major Players of 4?Way / 5?Way Valve
- Table 22. Major Players of 6?Way & Above (e.g. 7?way, 8?way, 9?way)
- Table 23. Global Battery Pack Cooling Valve Actuator System Sales by Number of

Ports (2021-2026) & (K Units)

Table 24. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Number of Ports (2021-2026)

Table 25. Global Battery Pack Cooling Valve Actuator System Revenue by Number of Ports (2021-2026) & (\$ million)

Table 26. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Number of Ports (2021-2026)

Table 27. Global Battery Pack Cooling Valve Actuator System Sale Price by Number of Ports (2021-2026) & (US\$/Unit)

Table 28. Global Battery Pack Cooling Valve Actuator System Sale by Application (2021-2026) & (K Units)

Table 29. Global Battery Pack Cooling Valve Actuator System Sale Market Share by Application (2021-2026)

Table 30. Global Battery Pack Cooling Valve Actuator System Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Application (2021-2026)

Table 32. Global Battery Pack Cooling Valve Actuator System Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Battery Pack Cooling Valve Actuator System Sales by Company (2021-2026) & (K Units)

Table 34. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Company (2021-2026)

Table 35. Global Battery Pack Cooling Valve Actuator System Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Company (2021-2026)

Table 37. Global Battery Pack Cooling Valve Actuator System Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Battery Pack Cooling Valve Actuator System Producing Area Distribution and Sales Area

Table 39. Players Battery Pack Cooling Valve Actuator System Products Offered

Table 40. Battery Pack Cooling Valve Actuator System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Battery Pack Cooling Valve Actuator System Sales by Geographic Region (2021-2026) & (K Units)

Table 44. Global Battery Pack Cooling Valve Actuator System Sales Market Share

Geographic Region (2021-2026)

Table 45. Global Battery Pack Cooling Valve Actuator System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Battery Pack Cooling Valve Actuator System Sales by Country/Region (2021-2026) & (K Units)

Table 48. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Country/Region (2021-2026)

Table 49. Global Battery Pack Cooling Valve Actuator System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Battery Pack Cooling Valve Actuator System Sales by Country (2021-2026) & (K Units)

Table 52. Americas Battery Pack Cooling Valve Actuator System Sales Market Share by Country (2021-2026)

Table 53. Americas Battery Pack Cooling Valve Actuator System Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026) & (K Units)

Table 55. Americas Battery Pack Cooling Valve Actuator System Sales by Application (2021-2026) & (K Units)

Table 56. APAC Battery Pack Cooling Valve Actuator System Sales by Region (2021-2026) & (K Units)

Table 57. APAC Battery Pack Cooling Valve Actuator System Sales Market Share by Region (2021-2026)

Table 58. APAC Battery Pack Cooling Valve Actuator System Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026) & (K Units)

Table 60. APAC Battery Pack Cooling Valve Actuator System Sales by Application (2021-2026) & (K Units)

Table 61. Europe Battery Pack Cooling Valve Actuator System Sales by Country (2021-2026) & (K Units)

Table 62. Europe Battery Pack Cooling Valve Actuator System Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026) & (K Units)

Table 64. Europe Battery Pack Cooling Valve Actuator System Sales by Application (2021-2026) & (K Units)

Table 65. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales by Country (2021-2026) & (K Units)

Table 66. Middle East & Africa Battery Pack Cooling Valve Actuator System Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales by Type (2021-2026) & (K Units)

Table 68. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales by Application (2021-2026) & (K Units)

Table 69. Key Market Drivers & Growth Opportunities of Battery Pack Cooling Valve Actuator System

Table 70. Key Market Challenges & Risks of Battery Pack Cooling Valve Actuator System

Table 71. Key Industry Trends of Battery Pack Cooling Valve Actuator System

Table 72. Battery Pack Cooling Valve Actuator System Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. Battery Pack Cooling Valve Actuator System Distributors List

Table 75. Battery Pack Cooling Valve Actuator System Customer List

Table 76. Global Battery Pack Cooling Valve Actuator System Sales Forecast by Region (2027-2032) & (K Units)

Table 77. Global Battery Pack Cooling Valve Actuator System Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas Battery Pack Cooling Valve Actuator System Sales Forecast by Country (2027-2032) & (K Units)

Table 79. Americas Battery Pack Cooling Valve Actuator System Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC Battery Pack Cooling Valve Actuator System Sales Forecast by Region (2027-2032) & (K Units)

Table 81. APAC Battery Pack Cooling Valve Actuator System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe Battery Pack Cooling Valve Actuator System Sales Forecast by Country (2027-2032) & (K Units)

Table 83. Europe Battery Pack Cooling Valve Actuator System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales Forecast by Country (2027-2032) & (K Units)

Table 85. Middle East & Africa Battery Pack Cooling Valve Actuator System Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global Battery Pack Cooling Valve Actuator System Sales Forecast by Type (2027-2032) & (K Units)

Table 87. Global Battery Pack Cooling Valve Actuator System Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global Battery Pack Cooling Valve Actuator System Sales Forecast by Application (2027-2032) & (K Units)

Table 89. Global Battery Pack Cooling Valve Actuator System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. SANHUA Automotive Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 91. SANHUA Automotive Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 92. SANHUA Automotive Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. SANHUA Automotive Main Business

Table 94. SANHUA Automotive Latest Developments

Table 95. Denso Corporation Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 96. Denso Corporation Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 97. Denso Corporation Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. Denso Corporation Main Business

Table 99. Denso Corporation Latest Developments

Table 100. MAHLE GmbH Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 101. MAHLE GmbH Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 102. MAHLE GmbH Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. MAHLE GmbH Main Business

Table 104. MAHLE GmbH Latest Developments

Table 105. Hanon Systems Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 106. Hanon Systems Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 107. Hanon Systems Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Hanon Systems Main Business

Table 109. Hanon Systems Latest Developments

Table 110. Rheinmetall Automotive (Pierburg) Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 111. Rheinmetall Automotive (Pierburg) Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 112. Rheinmetall Automotive (Pierburg) Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Rheinmetall Automotive (Pierburg) Main Business

Table 114. Rheinmetall Automotive (Pierburg) Latest Developments

Table 115. BorgWarner Inc. Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 116. BorgWarner Inc. Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 117. BorgWarner Inc. Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. BorgWarner Inc. Main Business

Table 119. BorgWarner Inc. Latest Developments

Table 120. VOSS Automotive GmbH Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 121. VOSS Automotive GmbH Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 122. VOSS Automotive GmbH Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. VOSS Automotive GmbH Main Business

Table 124. VOSS Automotive GmbH Latest Developments

Table 125. HELLA GmbH & Co. KGaA (Forvia) Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 126. HELLA GmbH & Co. KGaA (Forvia) Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 127. HELLA GmbH & Co. KGaA (Forvia) Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 128. HELLA GmbH & Co. KGaA (Forvia) Main Business

Table 129. HELLA GmbH & Co. KGaA (Forvia) Latest Developments

Table 130. Burger Group Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 131. Burger Group Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 132. Burger Group Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 133. Burger Group Main Business

Table 134. Burger Group Latest Developments

Table 135. Johnson Electric Holdings Limited Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 136. Johnson Electric Holdings Limited Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 137. Johnson Electric Holdings Limited Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 138. Johnson Electric Holdings Limited Main Business

Table 139. Johnson Electric Holdings Limited Latest Developments

Table 140. Inzi Controls Co., Ltd. Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 141. Inzi Controls Co., Ltd. Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 142. Inzi Controls Co., Ltd. Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 143. Inzi Controls Co., Ltd. Main Business

Table 144. Inzi Controls Co., Ltd. Latest Developments

Table 145. Bosch Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 146. Bosch Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 147. Bosch Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 148. Bosch Main Business

Table 149. Bosch Latest Developments

Table 150. Valeo Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 151. Valeo Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 152. Valeo Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 153. Valeo Main Business

Table 154. Valeo Latest Developments

Table 155. Hitachi Astemo Basic Information, Battery Pack Cooling Valve Actuator System Manufacturing Base, Sales Area and Its Competitors

Table 156. Hitachi Astemo Battery Pack Cooling Valve Actuator System Product Portfolios and Specifications

Table 157. Hitachi Astemo Battery Pack Cooling Valve Actuator System Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 158. Hitachi Astemo Main Business

Table 159. Hitachi Astemo Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Battery Pack Cooling Valve Actuator System
- Figure 2. Battery Pack Cooling Valve Actuator System Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Battery Pack Cooling Valve Actuator System Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Battery Pack Cooling Valve Actuator System Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Battery Pack Cooling Valve Actuator System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Battery Pack Cooling Valve Actuator System Sales Market Share by Country/Region (2025)
- Figure 10. Battery Pack Cooling Valve Actuator System Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Low Torque (Figure 12. Product Picture of Medium Torque (0.5-1.2 N?m)
- Figure 13. Product Picture of High Torque (> 1.2 N?m)
- Figure 14. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Type in 2026
- Figure 15. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Standard EV Range (-40?C to +85?C)
- Figure 17. Product Picture of Extended High Temp (-40?C to +105?C)
- Figure 18. Product Picture of Extreme Range (-40?C to +140?C)
- Figure 19. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Operating Temperature Range in 2026
- Figure 20. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Operating Temperature Range (2021-2026)
- Figure 21. Product Picture of 2?Way / Shut?Off Valve
- Figure 22. Product Picture of 3?Way Valve
- Figure 23. Product Picture of 4?Way / 5?Way Valve
- Figure 24. Product Picture of 6?Way & Above (e.g. 7?way, 8?way, 9?way)
- Figure 25. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Number of Ports in 2026

Figure 26. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Number of Ports (2021-2026)

Figure 27. Battery Pack Cooling Valve Actuator System Consumed in OEM Line-Fit

Figure 28. Global Battery Pack Cooling Valve Actuator System Market: OEM Line-Fit (2021-2026) & (K Units)

Figure 29. Battery Pack Cooling Valve Actuator System Consumed in Tier 1 Module Supply

Figure 30. Global Battery Pack Cooling Valve Actuator System Market: Tier 1 Module Supply (2021-2026) & (K Units)

Figure 31. Battery Pack Cooling Valve Actuator System Consumed in Replacement Aftermarket

Figure 32. Global Battery Pack Cooling Valve Actuator System Market: Replacement Aftermarket (2021-2026) & (K Units)

Figure 33. Global Battery Pack Cooling Valve Actuator System Sale Market Share by Application (2025)

Figure 34. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Application in 2025

Figure 35. Battery Pack Cooling Valve Actuator System Sales by Company in 2025 (K Units)

Figure 36. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Company in 2025

Figure 37. Battery Pack Cooling Valve Actuator System Revenue by Company in 2025 (\$ millions)

Figure 38. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Company in 2025

Figure 39. Global Battery Pack Cooling Valve Actuator System Sales Market Share by Geographic Region (2021-2026)

Figure 40. Global Battery Pack Cooling Valve Actuator System Revenue Market Share by Geographic Region in 2025

Figure 41. Americas Battery Pack Cooling Valve Actuator System Sales 2021-2026 (K Units)

Figure 42. Americas Battery Pack Cooling Valve Actuator System Revenue 2021-2026 (\$ millions)

Figure 43. APAC Battery Pack Cooling Valve Actuator System Sales 2021-2026 (K Units)

Figure 44. APAC Battery Pack Cooling Valve Actuator System Revenue 2021-2026 (\$ millions)

Figure 45. Europe Battery Pack Cooling Valve Actuator System Sales 2021-2026 (K Units)

Figure 46. Europe Battery Pack Cooling Valve Actuator System Revenue 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales 2021-2026 (K Units)

Figure 48. Middle East & Africa Battery Pack Cooling Valve Actuator System Revenue 2021-2026 (\$ millions)

Figure 49. Americas Battery Pack Cooling Valve Actuator System Sales Market Share by Country in 2025

Figure 50. Americas Battery Pack Cooling Valve Actuator System Revenue Market Share by Country (2021-2026)

Figure 51. Americas Battery Pack Cooling Valve Actuator System Sales Market Share by Type (2021-2026)

Figure 52. Americas Battery Pack Cooling Valve Actuator System Sales Market Share by Application (2021-2026)

Figure 53. United States Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 54. Canada Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 55. Mexico Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 56. Brazil Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 57. APAC Battery Pack Cooling Valve Actuator System Sales Market Share by Region in 2025

Figure 58. APAC Battery Pack Cooling Valve Actuator System Revenue Market Share by Region (2021-2026)

Figure 59. APAC Battery Pack Cooling Valve Actuator System Sales Market Share by Type (2021-2026)

Figure 60. APAC Battery Pack Cooling Valve Actuator System Sales Market Share by Application (2021-2026)

Figure 61. China Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 62. Japan Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 65. India Battery Pack Cooling Valve Actuator System Revenue Growth

2021-2026 (\$ millions)

Figure 66. Australia Battery Pack Cooling Valve Actuator System Revenue Growth

2021-2026 (\$ millions)

Figure 67. China Taiwan Battery Pack Cooling Valve Actuator System Revenue Growth

2021-2026 (\$ millions)

Figure 68. Europe Battery Pack Cooling Valve Actuator System Sales Market Share by Country in 2025

Figure 69. Europe Battery Pack Cooling Valve Actuator System Revenue Market Share by Country (2021-2026)

Figure 70. Europe Battery Pack Cooling Valve Actuator System Sales Market Share by Type (2021-2026)

Figure 71. Europe Battery Pack Cooling Valve Actuator System Sales Market Share by Application (2021-2026)

Figure 72. Germany Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 73. France Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa Battery Pack Cooling Valve Actuator System Sales Market Share by Application (2021-2026)

Figure 80. Egypt Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries Battery Pack Cooling Valve Actuator System Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of Battery Pack Cooling Valve Actuator System in 2026

Figure 86. Manufacturing Process Analysis of Battery Pack Cooling Valve Actuator System

Figure 87. Industry Chain Structure of Battery Pack Cooling Valve Actuator System

Figure 88. Channels of Distribution

Figure 89. Global Battery Pack Cooling Valve Actuator System Sales Market Forecast by Region (2027-2032)

Figure 90. Global Battery Pack Cooling Valve Actuator System Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global Battery Pack Cooling Valve Actuator System Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global Battery Pack Cooling Valve Actuator System Revenue Market Share Forecast by Type (2027-2032)

Figure 93. Global Battery Pack Cooling Valve Actuator System Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global Battery Pack Cooling Valve Actuator System Revenue Market Share Forecast by Application (2027-2032)

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