

# Global Battery Pack Cooling Valve Actuator System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G2CD2DBF531CEN.html>

Date: June 2026

Pages: 113

Price: US\$ 3,480.00 (Single User License)

ID: G2CD2DBF531CEN

## Abstracts

According to our (Global Info Research) latest study, the global Battery Pack Cooling Valve Actuator System market size was valued at US\$ 424 million in 2025 and is forecast to a readjusted size of US\$ 738 million by 2032 with a CAGR of 8.3% during review period.

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.

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

### Key Features:

Global Battery Pack Cooling Valve Actuator System market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Cooling Valve Actuator System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Cooling Valve Actuator System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Pack Cooling Valve Actuator System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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

To assess the growth potential for Battery Pack Cooling Valve Actuator System

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Battery Pack Cooling Valve Actuator System market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Battery Pack Cooling Valve Actuator System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume

and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

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

High Torque (> 1.2 N·m)

#### Market segment 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)

#### Market segment 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)

#### Market segment by Application

OEM Line-Fit

Tier 1 Module Supply

Replacement Aftermarket

## Major players covered

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

## Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Battery Pack Cooling Valve Actuator System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Pack Cooling Valve Actuator System, with price, sales quantity, revenue, and global market share of Battery Pack Cooling Valve Actuator System from 2021 to 2026.

Chapter 3, the Battery Pack Cooling Valve Actuator System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Pack Cooling Valve Actuator System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

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

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Battery Pack Cooling Valve Actuator System.

Chapter 14 and 15, to describe Battery Pack Cooling Valve Actuator System sales channel, distributors, customers, research findings and conclusion.

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