

# Global Battery Pack Cooling Valve Actuator System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Battery Pack Cooling Valve Actuator System market size is expected to reach \$ 738 million by 2032, rising at a market growth of 8.3% CAGR during the forecast period (2026-2032).

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.

This report studies the global Battery Pack Cooling Valve Actuator System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Pack Cooling Valve Actuator System 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 Battery Pack Cooling Valve Actuator System that contribute to its increasing demand across many markets.

### Highlights and key features of the study

Global Battery Pack Cooling Valve Actuator System total production and demand, 2021-2032, (K Units)

Global Battery Pack Cooling Valve Actuator System total production value, 2021-2032, (USD Million)

Global Battery Pack Cooling Valve Actuator System production by region & country,

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

Global Battery Pack Cooling Valve Actuator System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Pack Cooling Valve Actuator System domestic production, consumption, key domestic manufacturers and share

Global Battery Pack Cooling Valve Actuator System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Pack Cooling Valve Actuator System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Pack Cooling Valve Actuator System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery Pack Cooling Valve Actuator System 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Battery Pack Cooling Valve Actuator System 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 Battery Pack Cooling Valve Actuator System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Battery Pack Cooling Valve Actuator System Market, Segmentation by Type:

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

High Torque (> 1.2 N·m)

#### Global Battery Pack Cooling Valve Actuator System Market, 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)

#### Global Battery Pack Cooling Valve Actuator System Market, 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)

Global Battery Pack Cooling Valve Actuator System Market, Segmentation by Application:

OEM Line-Fit

Tier 1 Module Supply

Replacement Aftermarket

Companies Profiled:

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 Answered:

1. How big is the global Battery Pack Cooling Valve Actuator System market?
2. What is the demand of the global Battery Pack Cooling Valve Actuator System market?
3. What is the year over year growth of the global Battery Pack Cooling Valve Actuator System market?
4. What is the production and production value of the global Battery Pack Cooling Valve Actuator System market?
5. Who are the key producers in the global Battery Pack Cooling Valve Actuator System market?
6. What are the growth factors driving the market demand?

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