

Global Automotive Battery Pack Pressure Relief Valve Market Growth 2026-2032

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Abstracts

The global Automotive Battery Pack Pressure Relief Valve market size is predicted to grow from US\$ 152 million in 2025 to US\$ 254 million in 2032; it is expected to grow at a CAGR of 7.3% from 2026 to 2032.

Automotive Battery Pack Pressure Relief Valves are safety devices integrated into electric vehicle battery packs to relieve excessive internal pressure and prevent thermal runaway or mechanical damage. These valves automatically release gas generated during battery operation under fault, overheating, or overcharging conditions to maintain structural integrity and safe operation. They are widely used in lithium-ion battery packs for passenger electric vehicles, commercial EVs, and hybrid vehicles. The industrial chain of Automotive Battery Pack Pressure Relief Valves includes upstream components such as metal shells, spring mechanisms, sealing materials, precision machining parts, and pressure calibration systems. The midstream consists of valve manufacturers that design, assemble, and integrate pressure relief devices into battery modules or packs. Downstream applications include battery pack suppliers, EV manufacturers, hybrid vehicle OEMs, and commercial electric vehicle producers. Supporting services include functional testing, reliability validation, certification, and integration support for battery module assembly lines. In 2025, global Automotive Battery Pack Pressure Relief Valve production reached approximately 44.3 million units, with an average global market price of around US\$3.5 per unit. The gross profit margin of major companies in the industry is between 18%-35%. In 2025, the global production capacity of Automotive Battery Pack Pressure Relief Valves was approximately 59.1 million units.

The automotive battery pack pressure relief valve (PRV) market is a critical segment within the electric vehicle (EV) safety component industry, driven by the continuous

growth of global EV adoption, increasing battery energy density, and stricter safety regulations. PRVs are typically installed as a standard safety feature in every battery pack, providing a controlled pathway for gas release in cases of overpressure, overheating, or fault conditions to prevent thermal runaway and structural damage. Market growth is directly correlated with EV production volumes, including battery electric vehicles (BEVs), plug-in hybrid electric vehicles (PHEVs), and commercial electric vehicles. Technological trends in the market focus on high-pressure tolerance, rapid response, high-temperature resistant materials, and lightweight designs to accommodate various battery chemistries and high-power applications. The market is moderately concentrated, with leading suppliers required to meet stringent automotive certification standards and long-term reliability testing. Additionally, as battery packs become increasingly modular and integrated, PRVs are evolving toward standardized, modular, and system-compatible designs. Overall, the PRV market is characterized by strong demand elasticity, high technical barriers, and growth that scales proportionally with EV battery pack installations.

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

This Insight Report provides a comprehensive analysis of the global Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Battery Pack Pressure Relief Valve market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve.

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

Segmentation by Type:

Spring-Loaded Pressure Relief Valve

Burst Disk Pressure Relief Valve

Combination Pressure Relief Valve

Segmentation by Pressure Rating:

Below 0.5 bar

0.5 bar to 2 bar

2 bar to 5 bar

Above 5 bar

Segmentation by Mounting Location:

Module-Level Pressure Relief Valve

Pack-Level Pressure Relief Valve

Integrated Battery System Pressure Relief Valve

Segmentation by Application:

Electric Vehicles (EVs)

Hybrid Electric Vehicles (HEVs)

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.

Eaton

Donaldson

Nifco Inc.

Ruinuo

Dongguan Puwei

W. L. Gore & Associates

Parker Hannifin

Freudenberg Sealing Technologies

KACO GmbH

Hugo Benzing GmbH & Co. KG

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Battery Pack Pressure Relief Valve market?

What factors are driving Automotive Battery Pack Pressure Relief Valve market growth, globally and by region?

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

How do Automotive Battery Pack Pressure Relief Valve market opportunities vary by end market size?

How does Automotive Battery Pack Pressure Relief Valve break out by Type, by Application?

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