

Global Automotive Battery Pack Pressure Relief Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Battery Pack Pressure Relief Valve market size is expected to reach \$ 261 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global Automotive Battery Pack Pressure Relief Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Automotive Battery Pack Pressure Relief Valve total production and demand, 2021-2032, (K Units)

Global Automotive Battery Pack Pressure Relief Valve total production value, 2021-2032, (USD Million)

Global Automotive Battery Pack Pressure Relief Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Battery Pack Pressure Relief Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Battery Pack Pressure Relief Valve domestic production, consumption, key domestic manufacturers and share

Global Automotive Battery Pack Pressure Relief Valve production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Automotive Battery Pack Pressure Relief Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Automotive Battery Pack Pressure Relief Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Battery Pack Pressure Relief Valve 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 Eaton, Donaldson, Nifco Inc., Ruinuo, Dongguan Puwei, W. L. Gore & Associates, Parker Hannifin, Freudenberg Sealing Technologies, KACO GmbH, Hugo Benzing GmbH & Co. KG, 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 Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Battery Pack Pressure Relief Valve Market, Segmentation by Type:

Spring-Loaded Pressure Relief Valve

Burst Disk Pressure Relief Valve

Combination Pressure Relief Valve

Global Automotive Battery Pack Pressure Relief Valve Market, Segmentation by Pressure Rating:

Below 0.5 bar

0.5 bar to 2 bar

2 bar to 5 bar

Above 5 bar

Global Automotive Battery Pack Pressure Relief Valve Market, Segmentation by Mounting Location:

Module-Level Pressure Relief Valve

Pack-Level Pressure Relief Valve

Integrated Battery System Pressure Relief Valve

Global Automotive Battery Pack Pressure Relief Valve Market, Segmentation by Application:

Electric Vehicles (EVs)

Hybrid Electric Vehicles (HEVs)

Companies Profiled:

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 Answered:

1. How big is the global Automotive Battery Pack Pressure Relief Valve market?
2. What is the demand of the global Automotive Battery Pack Pressure Relief Valve market?
3. What is the year over year growth of the global Automotive Battery Pack Pressure Relief Valve market?
4. What is the production and production value of the global Automotive Battery Pack Pressure Relief Valve market?

5. Who are the key producers in the global Automotive Battery Pack Pressure Relief Valve market?
6. What are the growth factors driving the market demand?

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