

Global Automotive Battery Pack Pressure Relief Valve Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Battery Pack Pressure Relief Valve market size was valued at US\$ 160 million in 2025 and is forecast to a readjusted size of US\$ 261 million by 2032 with a CAGR of 6.8% during review period.

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 is a detailed and comprehensive analysis for global Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve

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 Automotive Battery Pack Pressure Relief Valve 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 Eaton, Donaldson, Nifco Inc., Ruino, 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.

Market Segmentation

Automotive Battery Pack Pressure Relief Valve 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

Spring-Loaded Pressure Relief Valve

Burst Disk Pressure Relief Valve

Combination Pressure Relief Valve

Market segment by Pressure Rating

Below 0.5 bar

0.5 bar to 2 bar

2 bar to 5 bar

Above 5 bar

Market segment by Mounting Location

Module-Level Pressure Relief Valve

Pack-Level Pressure Relief Valve

Integrated Battery System Pressure Relief Valve

Market segment by Application

Electric Vehicles (EVs)

Hybrid Electric Vehicles (HEVs)

Major players covered

Eaton

Donaldson

Nifco Inc.

Ruinuo

Dongguan Puwei

W. L. Gore & Associates

Parker Hannifin

Freudenberg Sealing Technologies

KACO GmbH

Hugo Benzing GmbH & Co. KG

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 Automotive Battery Pack Pressure Relief Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve 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 Automotive Battery Pack Pressure Relief Valve.

Chapter 14 and 15, to describe Automotive Battery Pack Pressure Relief Valve sales channel, distributors, customers, research findings and conclusion.

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