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Global Explosion-proof Valve for Automotive Battery Pack 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 Explosion-proof Valve for Automotive Battery Pack market size was valued at US$ 70.56 million in 2025 and is forecast to a readjusted size of US$ 193 million by 2032 with a CAGR of 15.1% during review period.

The explosion-proof valve for automotive battery packs is a crucial safety component designed to rapidly release gas when internal battery pressure rises abnormally, preventing explosions and thermal runaway to ensure the safety and stability of electric vehicle power systems. As the electric vehicle market grows rapidly, battery energy density increases, and safety regulations become more stringent, battery thermal management and safety protection have become key industry concerns. Made from high-strength, high-temperature-resistant, and corrosion-resistant materials, explosion-proof valves feature precise pressure relief and sealed protection, enhancing the reliability and lifespan of battery packs.

As a core safety protection component of the power battery system of new energy vehicles, the explosion-proof valve for automotive battery packs is mainly used to cope with extreme working conditions such as sudden internal pressure increase and high-temperature flue gas release caused by thermal runaway of battery cells. It prevents the battery pack shell from exploding by quickly relieving pressure, and at the same time blocks external water and dust from entering the internal circuit, which is a key link to ensure the driving safety of new energy vehicles and the reliability of the battery system. Its global development is deeply linked to multiple trends including the expansion of the global new energy vehicle industry, the upgrading of battery safety standards, the iteration of technological innovation, and the promotion of green travel policies. The

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continuous improvement of the global penetration rate of new energy vehicles is the core driving force. Countries are accelerating the promotion of new energy vehicles, the energy density of power batteries is constantly increasing, and the risk of thermal runaway is increasing accordingly, forcing explosion-proof valves to upgrade towards high precision, fast response and multi-function, and become a standard component of battery packs. Global automotive safety regulations and battery safety standards are becoming increasingly stringent, putting higher requirements on the pressure relief accuracy, protection level and weather resistance of explosion-proof valves, promoting the iteration and upgrading of traditional explosion-proof valves to adapt to the thermal runaway gas production characteristics of different battery systems. Technological innovation continues to empower product optimization. The application of precision manufacturing processes, new corrosion-resistant materials and intelligent sensing technologies enables explosion-proof valves to achieve multiple functions of pressure balance, explosion-proof pressure relief, water and dust prevention. At the same time, the global capacity layout and supply chain optimization of leading enterprises promote the popularization and application of products in the global market, and the rise of the new energy vehicle industry in emerging markets further releases market demand.

Despite the continuous strong demand in the global market for explosion-proof valves for automotive battery packs and the steady expansion of the industry scale, high-quality development still faces many challenges. High-end technology and core resource barriers are strict. The precision pressure relief structure, high-temperature and corrosion-resistant material formulas and intelligent monitoring functions of high-end explosion-proof valves are monopolized by a few international leading enterprises. Emerging manufacturers have insufficient R&D investment and are difficult to break through technical bottlenecks, and core raw materials and precision components rely on a few suppliers, further raising the access threshold. The degree of product customization is high. Different automakers and different battery systems have great differences in requirements for the opening pressure, size specifications and protection level of explosion-proof valves, making it difficult to achieve large-scale mass production, resulting in high production costs. There are regional differences in global industry standards and certification systems. Different countries have different requirements for the test standards and safety specifications of explosion-proof valves, increasing the compliance costs and cycles for enterprises' cross-border promotion. Supply chain fluctuations and raw material price fluctuations bring cost control pressure. The fluctuation of core material prices directly squeezes corporate profit margins, and small and medium-sized manufacturers have weak risk resistance. In addition, the mid-to-low-end market has serious homogeneous competition, and low-price competition chaos compresses the industry profit and R&D space. At the same time, the iteration of

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new battery technologies such as solid-state batteries puts forward new requirements for the adaptability of explosion-proof valves, further restricting the high-quality and balanced development of the industry.

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

Global Explosion-proof Valve for Automotive Battery Pack 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 Explosion-proof Valve for Automotive Battery Pack 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 Explosion-proof Valve for Automotive Battery Pack 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 Explosion-proof Valve for Automotive Battery Pack

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

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To assess competitive factors affecting the marketplace

This report profiles key players in the global Explosion-proof Valve for Automotive Battery Pack 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 DONGGUAN PUW MATERIAL, Mann & Hummel, VOIR, Milvent Technology, Eaton, Donaldson, Raval, Freudenberg, tmax, GVS, etc.

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

Market Segmentation

Explosion-proof Valve for Automotive Battery Pack 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

Stainless Steel Valve

Plastic Valve

Others

Market segment by Battery Scenarios

BEV

PHEV

Market segment by Voltage

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12V

24V

48V

Others

Market segment by Application

Passenger Cars

Commercial Cars

Major players covered

DONGGUAN PUW MATERIAL

Mann & Hummel

VOIR

Milvent Technology

Eaton

Donaldson

Raval

Freudenberg

tmax

GVS

HEILNGJIANG JINHAN TECHNOLOGY

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Sinyu Technology

Guangdong Shangda Energy Technology

REUTTER

Spider (Xiamen) Technology

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 Explosion-proof Valve for Automotive Battery Pack product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Explosion-proof Valve for Automotive Battery Pack breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth

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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 Explosion-proof Valve for Automotive Battery Pack 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 Explosion-proof Valve for Automotive Battery Pack.

Chapter 14 and 15, to describe Explosion-proof Valve for Automotive Battery Pack sales channel, distributors, customers, research findings and conclusion.

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