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Global Explosion-proof Valve for Automotive Battery Pack Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Explosion-proof Valve for Automotive Battery Pack market size is expected to reach $ 193 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

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 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

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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 new battery technologies such as solid-state batteries puts forward new requirements

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for the adaptability of explosion-proof valves, further restricting the high-quality and balanced development of the industry.

This report studies the global Explosion-proof Valve for Automotive Battery Pack production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global Explosion-proof Valve for Automotive Battery Pack total production and demand, 2021-2032, (K Units)
Global Explosion-proof Valve for Automotive Battery Pack total production value, 2021-2032, (USD Million)
Global Explosion-proof Valve for Automotive Battery Pack production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Explosion-proof Valve for Automotive Battery Pack consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Explosion-proof Valve for Automotive Battery Pack domestic production, consumption, key domestic manufacturers and share
Global Explosion-proof Valve for Automotive Battery Pack production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Explosion-proof Valve for Automotive Battery Pack production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Explosion-proof Valve for Automotive Battery Pack production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

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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 Explosion-proof Valve for Automotive Battery Pack 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 Explosion-proof Valve for Automotive Battery Pack Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Explosion-proof Valve for Automotive Battery Pack Market, Segmentation by Type:

Stainless Steel Valve

Plastic Valve

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Others

Global Explosion-proof Valve for Automotive Battery Pack Market, Segmentation by Battery Scenarios:

BEV

PHEV

Global Explosion-proof Valve for Automotive Battery Pack Market, Segmentation by Voltage:

12V

24V

48V

Others

Global Explosion-proof Valve for Automotive Battery Pack Market, Segmentation by Application:

Passenger Cars

Commercial Cars

Companies Profiled:

DONGGUAN PUW MATERIAL

Mann & Hummel

VOIR

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Milvent Technology

Eaton

Donaldson

Raval

Freudenberg

tmax

GVS

HEILNGJIANG JINHAN TECHNOLOGY

Sinyu Technology

Guangdong Shangda Energy Technology

REUTTER

Spider (Xiamen) Technology

Key Questions Answered:

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

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