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Global Anti-explosion Valve for Battery Pack Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Anti-explosion Valve for Battery Pack market size is expected to reach $ 237 million by 2032, rising at a market growth of 15.6% CAGR during the forecast period (2026-2032).

The Anti-explosion valve for battery packs is a critical safety component designed to rapidly release excess gas when internal battery pressure rises abnormally, preventing explosions and thermal runaway to ensure the safety and stability of battery systems. With the rapid development of industries such as electric vehicles, energy storage systems, and consumer electronics, increasing battery energy density has made safety a top priority. Made from high-strength, corrosion-resistant materials, explosion-proof valves feature precise pressure relief and sealed protection, significantly enhancing battery system reliability.

As a core safety protection component of the power battery system of new energy vehicles, the anti-explosion valve for 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 avoids the explosion of the battery pack shell by quickly relieving pressure, and at the same time blocks external water and dust from entering the internal circuit, which is crucial to ensuring the driving safety of new energy vehicles and the reliability of the battery system. Its global development is closely linked to multiple trends, including the expansion of the global new energy vehicle industry, the upgrading of battery safety standards, 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 energy density of power batteries is constantly improving, and the risk of thermal runaway is rising accordingly,

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forcing anti-explosion valves to upgrade towards high precision, fast response and multi-function, and become a standard configuration 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 anti-explosion valves, promoting the iteration of traditional products to adapt to the thermal runaway gas production characteristics of different battery systems. Technological innovation continues to empower optimization. The application of precision manufacturing, new corrosion-resistant materials and intelligent sensing technologies enables anti-explosion valves to achieve multiple functions of pressure balance, anti-explosion pressure relief, water and dust prevention. The global layout of leading enterprises improves the supply chain, promotes product popularization, and the rise of the new energy vehicle industry in emerging markets further releases demand.

Despite the strong global demand and steady expansion of the anti-explosion valve market for battery packs, 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 products 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, raising the access threshold. The degree of product customization is high. Different automakers and battery systems have great differences in requirements for the opening pressure, size and protection level of anti-explosion valves, making large-scale mass production difficult and leading to high production costs. There are regional differences in global industry standards and certification systems. Different countries have different test standards and safety specifications, increasing the compliance costs and cycles for enterprises' cross-border promotion. Supply chain fluctuations and raw material price changes bring cost pressure. Fluctuations in core material prices squeeze corporate profits, and small and medium-sized manufacturers have weak risk resistance. In addition, the mid-to-low-end market has serious homogeneous competition, low-price chaos compresses profit and R&D space, and the iteration of new technologies such as solid-state batteries also puts forward new requirements for the adaptability of anti-explosion valves, restricting the high-quality and balanced development of the industry.

This report studies the global Anti-explosion Valve for Battery Pack production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

This report profiles key players in the global Anti-explosion Valve for 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.

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 Anti-explosion Valve for Battery Pack market

Detailed Segmentation:

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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 Anti-explosion Valve for Battery Pack Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Anti-explosion Valve for Battery Pack Market, Segmentation by Type:

- Stainless Steel Valve
- Plastic Valve
- Others

Global Anti-explosion Valve for Battery Pack Market, Segmentation by Battery Type:

- Lithium Batteries
- Lead-Acid Batteries

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Global Anti-explosion Valve for Battery Pack Market, Segmentation by Voltage:

12V

24V

48V

Others

Global Anti-explosion Valve for Battery Pack Market, Segmentation by Application:

Power Battery

Energy Storage Battery

Others

Companies Profiled:

DONGGUAN PUW MATERIAL

Mann & Hummel

VOIR

Milvent Technology

Eaton

Donaldson

Raval

Freudenberg

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tmax

GVS

HEILNGJIANG JINHAN TECHNOLOGY

Sinyu Technology

Guangdong Shangda Energy Technology

REUTTER

Spider (Xiamen) Technology

Key Questions Answered:

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

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