+357 96 030922
info@marketpublishers.com

Global Anti-explosion Valve for Battery Pack Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G56860EE2204EN.html
Date: May 2026
Pages: 119
Price: US$ 3,480.00 (Single User License)
ID: G56860EE2204EN

Abstracts

According to our (Global Info Research) latest study, the global Anti-explosion Valve for Battery Pack market size was valued at US$ 84.28 million in 2025 and is forecast to a readjusted size of US$ 237 million by 2032 with a CAGR of 15.6% during review period.

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

+357 96 030922
info@marketpublishers.com

batteries is constantly improving, and the risk of thermal runaway is rising accordingly, 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 is a detailed and comprehensive analysis for global Anti-explosion Valve for Battery Pack market. Both quantitative and qualitative analyses are presented by

+357 96 030922
info@marketpublishers.com

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 Anti-explosion Valve for Battery Pack market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Anti-explosion Valve for 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 Anti-explosion Valve for 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 Anti-explosion Valve for 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 Anti-explosion Valve for Battery Pack

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 Anti-explosion Valve for 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,

+357 96 030922
info@marketpublishers.com

tmax, GVS, etc.

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

Market Segmentation

Anti-explosion Valve for 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 Type

Lithium Batteries

Lead-Acid Batteries

Market segment by Voltage

12V

24V

48V

Others

+357 96 030922
info@marketpublishers.com

Market segment by Application

- Power Battery
- Energy Storage Battery
- Others

Major players covered

- DONGGUAN PUW MATERIAL
- Mann & Hummel
- VOIR
- Milvent Technology
- Eaton
- Donaldson
- Raval
- Freudenberg
- tmax
- GVS
- HEILNGJIANG JINHAN TECHNOLOGY
- Sinyu Technology
- Guangdong Shangda Energy Technology
- REUTTER

+357 96 030922
info@marketpublishers.com

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 Anti-explosion Valve for Battery Pack product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Anti-explosion Valve for Battery Pack 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

+357 96 030922
info@marketpublishers.com

to 2026.and Anti-explosion Valve for 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 Anti-explosion Valve for Battery Pack.

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

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: ANTI-EXPLOSION VALVE FOR BATTERY PACK BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

7 NORTH AMERICA

8 EUROPE

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Anti-explosion Valve for Battery Pack Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G56860EE2204EN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G56860EE2204EN.html