

Global Millisecond Battery Explosion-Proof 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 Millisecond Battery Explosion-Proof Valve market size was valued at US\$ 84.19 million in 2025 and is forecast to a readjusted size of US\$ 225 million by 2032 with a CAGR of 15.0% during review period.

Millisecond Battery Explosion-Proof Valve is a high-speed safety component specifically engineered for battery pack systems in electric vehicles and energy storage, designed to release internal pressure within milliseconds during abnormal conditions such as thermal runaway or gas accumulation. It is constructed with precise activation thresholds and high-strength PTFE and aluminum alloy materials to ensure controlled pressure relief while maintaining structural integrity and system sealing. Key advantages include ultra-fast response, high reliability under extreme conditions, smoke-free operation, robust structural durability, and compatibility with advanced battery safety architectures. In 2025, the capacity utilization rate was approximately 70%, and the industry's average gross margin was around 35%. Production in 2025 totaled 14.61 million units, with an average price of 5.6 USD/unit. Its upstream primarily consists of PTFE and aluminum alloys, with representative suppliers including Chemours, 3M, Chalco, and China Molybdenum, providing critical materials that determine chemical resistance, mechanical strength, and durability. The midstream focuses on precision valve engineering, structural design, sealing technology, and integration with battery pack safety systems to ensure accurate and reliable pressure relief. The downstream is mainly driven by automotive and energy storage battery applications, with key customers including Tesla, BYD, and CATL.

This report is a detailed and comprehensive analysis for global Millisecond Battery

Explosion-Proof 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 Millisecond Battery Explosion-Proof Valve market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Millisecond Battery Explosion-Proof 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 Millisecond Battery Explosion-Proof 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 Millisecond Battery Explosion-Proof 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 Millisecond Battery Explosion-Proof 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 Millisecond Battery Explosion-Proof 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 PUW, VOIR, Pan Asian Microvent Tech, GVS, Milvent Technology, JIN HAN, Guangdong Shangda Energy Technology, Freudenberg, Donaldson, Spider (Xiamen) Technology, etc.

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

Market Segmentation

Millisecond Battery Explosion-Proof 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

Aluminium Valve

Plastic Valve

Others

Market segment by Pressure Relief

Single-stage Vent Valve

Dual-stage Vent Valve

Others

Market segment by Grade

Pack Level

Module Level

Market segment by Application

Power Battery

Energy Storage Battery

Others

Major players covered

PUW

VOIR

Pan Asian Microvent Tech

GVS

Milvent Technology

JIN HAN

Guangdong Shangda Energy Technology

Freudenberg

Donaldson

Spider (Xiamen) Technology

GORE

Sinri

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 Millisecond Battery Explosion-Proof Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Millisecond Battery Explosion-Proof 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 Millisecond Battery Explosion-Proof 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 Millisecond Battery Explosion-Proof Valve.

Chapter 14 and 15, to describe Millisecond Battery Explosion-Proof Valve sales channel, distributors, customers, research findings and conclusion.

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