

Global EV Explosion-proof Waterproof Breathable 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 EV Explosion-proof Waterproof Breathable Valve market size was valued at US\$ 57.59 million in 2025 and is forecast to a readjusted size of US\$ 156 million by 2032 with a CAGR of 15.2% during review period.

EV Explosion-proof Waterproof Breathable Valve refers to a core protective component specially designed for the battery systems of electric vehicles. It maintains constant air pressure balance and waterproof & dustproof sealing under normal operating conditions, and releases internal pressure in a controlled manner when gas accumulation or thermal runaway abnormalities occur inside the battery pack to avoid structural damage and safety hazards of the battery. It adopts accurate pressure opening thresholds and high-strength durable materials, which can ensure stable waterproof breathable performance in daily use while achieving safe pressure relief in extreme conditions, and is an essential safety accessory for electric vehicle battery sealing protection and overall safety management. Its key advantages include excellent waterproof and dustproof capability, stable breathable pressure balance, high reliability in complex environments and good compatibility with mainstream battery structures. In 2025, the capacity utilization rate was approximately 70%, and the industry's average gross margin was around 35%. Production in 2025 totaled 9.82 million units, with an average price of 5.7 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 electric vehicle battery and safety systems to ensure reliable waterproof breathable function and

accurate pressure relief performance. The downstream is mainly driven by electric vehicle applications, with key customers including Tesla, BYD, NIO, and Volkswagen.

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

Global EV Explosion-proof Waterproof Breathable 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 EV Explosion-proof Waterproof Breathable 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 EV Explosion-proof Waterproof Breathable 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 EV Explosion-proof Waterproof Breathable 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 EV Explosion-proof Waterproof Breathable 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

EV Explosion-proof Waterproof Breathable 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

Passenger Cars

Commercial Vehicle

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 EV Explosion-proof Waterproof Breathable Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of EV Explosion-proof Waterproof Breathable Valve, with price, sales quantity, revenue, and global market share of EV Explosion-proof Waterproof Breathable Valve from 2021 to 2026.

Chapter 3, the EV Explosion-proof Waterproof Breathable Valve competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the EV Explosion-proof Waterproof Breathable 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 EV Explosion-proof Waterproof Breathable 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 EV Explosion-proof Waterproof Breathable Valve.

Chapter 14 and 15, to describe EV Explosion-proof Waterproof Breathable Valve sales channel, distributors, customers, research findings and conclusion.

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