

Global Smokeless Explosion-Proof Valve for Power Battery Market Growth 2026-2032

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Abstracts

The global Smokeless Explosion-Proof Valve for Power Battery market size is predicted to grow from US\$ 64.08 million in 2025 to US\$ 182 million in 2032; it is expected to grow at a CAGR of 16.1% from 2026 to 2032.

Smokeless Explosion-Proof Valve for Power Battery is a specialized safety component designed for electric vehicle and energy storage systems, engineered to rapidly release internal pressure under abnormal conditions such as thermal runaway or gas accumulation while preventing smoke emission and ensuring controlled airflow to maintain battery stability and system integrity. Constructed with high-strength, corrosion-resistant materials and precise activation thresholds, it delivers reliable pressure relief without compromising environmental safety. Its key advantages include fast response, high reliability under extreme conditions, robust structural durability, smoke-free operation, and compatibility with advanced battery safety systems. In 2025, the capacity utilization rate was approximately 70%, and the industry's average gross margin was around 35%. Production in 2025 totaled 11.91 million units, with an average price of 5.5 USD/unit. The upstream primarily consists of PTFE and aluminum alloys, with representative suppliers including Chemours, 3M, Chalco, and China Molybdenum, providing essential materials that determine chemical resistance, mechanical strength, and durability. The midstream focuses on precision valve engineering, structural design, sealing technology, smoke-free operation, and integration with battery and safety systems to ensure accurate and reliable pressure relief. The downstream is mainly driven by electric vehicle applications, with key customers including Tesla, BYD, NIO, and Volkswagen.

United States market for Smokeless Explosion-Proof Valve for Power Battery is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of %

from 2026 through 2032.

China market for Smokeless Explosion-Proof Valve for Power Battery is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Smokeless Explosion-Proof Valve for Power Battery is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Smokeless Explosion-Proof Valve for Power Battery players cover PUW, VOIR, Pan Asian Microvent Tech, GVS, Milvent Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Smokeless Explosion-Proof Valve for Power Battery Industry Forecast" looks at past sales and reviews total world Smokeless Explosion-Proof Valve for Power Battery sales in 2025, providing a comprehensive analysis by region and market sector of projected Smokeless Explosion-Proof Valve for Power Battery sales for 2026 through 2032. With Smokeless Explosion-Proof Valve for Power Battery sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Smokeless Explosion-Proof Valve for Power Battery industry.

This Insight Report provides a comprehensive analysis of the global Smokeless Explosion-Proof Valve for Power Battery landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Smokeless Explosion-Proof Valve for Power Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Smokeless Explosion-Proof Valve for Power Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Smokeless Explosion-Proof Valve for Power Battery and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Smokeless Explosion-Proof Valve for Power Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Smokeless Explosion-Proof Valve for Power Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Aluminium Valve

Plastic Valve

Others

Segmentation by Pressure Relief:

Single-stage Vent Valve

Dual-stage Vent Valve

Others

Segmentation by Grade:

Pack Level

Module Level

Segmentation by Application:

Passenger Cars

Commercial Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

PUW

VOIR

Pan Asian Microvent Tech

GVS

Milvent Technology

JIN HAN

Guangdong Shangda Energy Technology

Freudenberg

Donaldson

Spider (Xiamen) Technology

GORE

Sinri

Key Questions Addressed in this Report

What is the 10-year outlook for the global Smokeless Explosion-Proof Valve for Power Battery market?

What factors are driving Smokeless Explosion-Proof Valve for Power Battery market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Smokeless Explosion-Proof Valve for Power Battery market opportunities vary by end market size?

How does Smokeless Explosion-Proof Valve for Power Battery break out by Type, by Application?

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