

Global Battery Cell Vent 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 Battery Cell Vent Valve market size was valued at US\$ 890 million in 2025 and is forecast to a readjusted size of US\$ 1852 million by 2032 with a CAGR of 11.3% during review period.

In 2025, global Battery Cell Vent Valve production reached approximately 4.81 billion units, with an average global market price of around USD 0.18 per unit.

The gross profit margin of major companies in the industry is between 22.00%-33.00%.

In 2025, the global production capacity of Battery Cell Vent Valve was approximately 6.33 billion units.

Battery Cell Vent Valve is a critical battery safety component integrated into cylindrical, prismatic, or pouch lithium-ion cells. It is designed to release excessive internal gas pressure in a controlled manner when abnormal conditions such as overheating, overcharging, internal short circuits, or thermal runaway occur. By preventing uncontrolled cell rupture or explosion, the vent valve significantly improves battery safety and reliability. The product scope includes metallic or composite pressure-relief vent structures supplied as standalone battery cell components, excluding battery packs, battery management systems, and external safety protection devices.

The industry chain begins with upstream suppliers of stainless steel, aluminum alloys, nickel materials, precision stamping materials, sealing materials, and surface treatment chemicals. Midstream manufacturing includes precision stamping, laser welding, microstructure forming, sealing, pressure calibration, quality inspection, and automated

assembly. Downstream demand mainly comes from lithium-ion battery manufacturers serving electric vehicles, energy storage systems, consumer electronics, power tools, electric two-wheelers, aerospace, and industrial battery applications, where battery safety regulations and higher energy density continue to drive demand for advanced vent valve technologies.

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

Global Battery Cell Vent 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 Battery Cell Vent 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 Battery Cell Vent 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 Battery Cell Vent 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 Battery Cell Vent 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 DaikyoNishikawa Corporation, Nippon Closures Co., Ltd., ElringKlinger AG, Freudenberg Sealing Technologies, W. L. Gore & Associates, Inc., Donaldson Company, Inc., Asahi Kasei Corporation, Sinfonia Technology Co., Ltd., Toyo Seikan Group Holdings, Ltd., Mitsui High-tec, Inc., etc.

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

Market Segmentation

Battery Cell Vent 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

Rupture Disc Type

Scored Metal Type

Laser-Weakened Type

Market segment by Cell Form Factor

Cylindrical Cell Vent Valve

Prismatic Cell Vent Valve

Pouch Cell Vent Valve

Market segment by Vent Opening Pressure

Low Pressure (≤1.0 MPa)

Medium Pressure (1.0–2.0 MPa)

High Pressure (>2.0 MPa)

Market segment by Application

Power Batteries

Energy Storage Batteries

Specialty Batteries

Other

Major players covered

DaikyoNishikawa Corporation

Nippon Closures Co., Ltd.

ElringKlinger AG

Freudenberg Sealing Technologies

W. L. Gore & Associates, Inc.

Donaldson Company, Inc.

Asahi Kasei Corporation

Sinfonia Technology Co., Ltd.

Toyo Seikan Group Holdings, Ltd.

Mitsui High-tec, Inc.

Shenzhen Kedali Industry Co., Ltd.

Ningbo Zhenyu Technology Co., Ltd.

Suzhou Ruide Electronic Technology Co., Ltd.

Zhejiang SLB Battery Co., Ltd.

Jiangsu HSC New Energy Materials Co., Ltd.

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 Battery Cell Vent Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Battery Cell Vent 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 Battery Cell Vent 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 Battery Cell Vent Valve.

Chapter 14 and 15, to describe Battery Cell Vent Valve sales channel, distributors, customers, research findings and conclusion.

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