

Global Battery Cell Vent Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Cell Vent Valve market size is expected to reach \$ 1852 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

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 studies the global Battery Cell Vent Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Cell Vent Valve and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Battery Cell Vent Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Cell Vent Valve total production and demand, 2021-2032, (K Units)

Global Battery Cell Vent Valve total production value, 2021-2032, (USD Million)

Global Battery Cell Vent Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery Cell Vent Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Cell Vent Valve domestic production, consumption, key domestic manufacturers and share

Global Battery Cell Vent Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Cell Vent Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Cell Vent Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery Cell Vent Valve market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Battery Cell Vent Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Battery Cell Vent Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Cell Vent Valve Market, Segmentation by Type:

Rupture Disc Type

Scored Metal Type

Laser-Weakened Type

Global Battery Cell Vent Valve Market, Segmentation by Cell Form Factor:

Cylindrical Cell Vent Valve

Prismatic Cell Vent Valve

Pouch Cell Vent Valve

Global Battery Cell Vent Valve Market, Segmentation by Vent Opening Pressure:

Low Pressure (2.0 MPa)

Global Battery Cell Vent Valve Market, Segmentation by Application:

Power Batteries

Energy Storage Batteries

Specialty Batteries

Other

Companies Profiled:

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.

Key Questions Answered:

1. How big is the global Battery Cell Vent Valve market?
2. What is the demand of the global Battery Cell Vent Valve market?
3. What is the year over year growth of the global Battery Cell Vent Valve market?
4. What is the production and production value of the global Battery Cell Vent Valve market?
5. Who are the key producers in the global Battery Cell Vent Valve market?
6. What are the growth factors driving the market demand?

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