

Global Automotive Smokeless Explosion-Proof Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Smokeless Explosion-Proof Valve market size is expected to reach \$ 182 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

Automotive Smokeless Explosion-Proof Valve is a critical safety component designed specifically for battery pack, engineered to rapidly release internal pressure under abnormal conditions such as thermal runaway or gas accumulation while preventing smoke emission and maintaining controlled airflow to ensure battery stability and vehicle system integrity. Made from high-strength, corrosion-resistant materials with precise activation thresholds, it provides reliable pressure relief without compromising environmental or vehicle safety. Key advantages include fast response, high reliability under extreme conditions, robust structural durability, smoke-free operation, and seamless integration with advanced vehicle 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 automotive 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.

This report studies the global Automotive Smokeless Explosion-Proof Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Smokeless Explosion-Proof 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 Automotive Smokeless Explosion-Proof Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Smokeless Explosion-Proof Valve total production and demand, 2021-2032, (K Units)

Global Automotive Smokeless Explosion-Proof Valve total production value, 2021-2032, (USD Million)

Global Automotive Smokeless Explosion-Proof Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Smokeless Explosion-Proof Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Smokeless Explosion-Proof Valve domestic production, consumption, key domestic manufacturers and share

Global Automotive Smokeless Explosion-Proof Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Smokeless Explosion-Proof Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Smokeless Explosion-Proof Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Smokeless Explosion-Proof 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Smokeless Explosion-Proof 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 Automotive Smokeless Explosion-Proof Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Smokeless Explosion-Proof Valve Market, Segmentation by Type:

Aluminium Valve

Plastic Valve

Others

Global Automotive Smokeless Explosion-Proof Valve Market, Segmentation by Pressure Relief:

Single-stage Vent Valve

Dual-stage Vent Valve

Others

Global Automotive Smokeless Explosion-Proof Valve Market, Segmentation by Grade:

Pack Level

Module Level

Global Automotive Smokeless Explosion-Proof Valve Market, Segmentation by Application:

Passenger Cars

Commercial Vehicle

Companies Profiled:

PUW

VOIR

Pan Asian Microvent Tech

GVS

Milvent Technology

JIN HAN

Guangdong Shangda Energy Technology

Freudenberg

Donaldson

Spider (Xiamen) Technology

GORE

Sinri

Key Questions Answered:

1. How big is the global Automotive Smokeless Explosion-Proof Valve market?
2. What is the demand of the global Automotive Smokeless Explosion-Proof Valve market?
3. What is the year over year growth of the global Automotive Smokeless Explosion-Proof Valve market?
4. What is the production and production value of the global Automotive Smokeless Explosion-Proof Valve market?
5. Who are the key producers in the global Automotive Smokeless Explosion-Proof Valve market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Automotive Smokeless Explosion-Proof Valve Introduction
- 1.2 World Automotive Smokeless Explosion-Proof Valve Supply & Forecast
 - 1.2.1 World Automotive Smokeless Explosion-Proof Valve Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
 - 1.2.3 World Automotive Smokeless Explosion-Proof Valve Pricing Trends (2021-2032)
- 1.3 World Automotive Smokeless Explosion-Proof Valve Production by Region (Based on Production Site)
 - 1.3.1 World Automotive Smokeless Explosion-Proof Valve Production Value by Region (2021-2032)
 - 1.3.2 World Automotive Smokeless Explosion-Proof Valve Production by Region (2021-2032)
 - 1.3.3 World Automotive Smokeless Explosion-Proof Valve Average Price by Region (2021-2032)
 - 1.3.4 North America Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
 - 1.3.5 Europe Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
 - 1.3.6 China Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
 - 1.3.7 Japan Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
 - 1.3.8 South Korea Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
 - 1.3.9 India Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
 - 1.3.10 Mexico Automotive Smokeless Explosion-Proof Valve Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Automotive Smokeless Explosion-Proof Valve Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Automotive Smokeless Explosion-Proof Valve Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Automotive Smokeless Explosion-Proof Valve Demand (2021-2032)
- 2.2 World Automotive Smokeless Explosion-Proof Valve Consumption by Region
 - 2.2.1 World Automotive Smokeless Explosion-Proof Valve Consumption by Region (2021-2026)
 - 2.2.2 World Automotive Smokeless Explosion-Proof Valve Consumption Forecast by

Region (2027-2032)

2.3 United States Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032)

2.4 China Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032)

2.5 Europe Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032)

2.6 Japan Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032)

2.7 South Korea Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032)

2.8 ASEAN Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032)

2.9 India Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Automotive Smokeless Explosion-Proof Valve Production Value by Manufacturer (2021-2026)

3.2 World Automotive Smokeless Explosion-Proof Valve Production by Manufacturer (2021-2026)

3.3 World Automotive Smokeless Explosion-Proof Valve Average Price by Manufacturer (2021-2026)

3.4 Automotive Smokeless Explosion-Proof Valve Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Automotive Smokeless Explosion-Proof Valve Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Automotive Smokeless Explosion-Proof Valve in 2025

3.5.3 Global Concentration Ratios (CR8) for Automotive Smokeless Explosion-Proof Valve in 2025

3.6 Automotive Smokeless Explosion-Proof Valve Market: Overall Company Footprint Analysis

3.6.1 Automotive Smokeless Explosion-Proof Valve Market: Region Footprint

3.6.2 Automotive Smokeless Explosion-Proof Valve Market: Company Product Type Footprint

3.6.3 Automotive Smokeless Explosion-Proof Valve Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Automotive Smokeless Explosion-Proof Valve Production Value Comparison

4.1.1 United States VS China: Automotive Smokeless Explosion-Proof Valve Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Automotive Smokeless Explosion-Proof Valve Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Automotive Smokeless Explosion-Proof Valve Production Comparison

4.2.1 United States VS China: Automotive Smokeless Explosion-Proof Valve Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Automotive Smokeless Explosion-Proof Valve Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Automotive Smokeless Explosion-Proof Valve Consumption Comparison

4.3.1 United States VS China: Automotive Smokeless Explosion-Proof Valve Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Automotive Smokeless Explosion-Proof Valve Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Automotive Smokeless Explosion-Proof Valve Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Automotive Smokeless Explosion-Proof Valve Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production (2021-2026)

4.5 China Based Automotive Smokeless Explosion-Proof Valve Manufacturers and Market Share

4.5.1 China Based Automotive Smokeless Explosion-Proof Valve Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production (2021-2026)

4.6 Rest of World Based Automotive Smokeless Explosion-Proof Valve Manufacturers

and Market Share, 2021-2026

4.6.1 Rest of World Based Automotive Smokeless Explosion-Proof Valve

Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Automotive Smokeless Explosion-Proof Valve

Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive Smokeless Explosion-Proof Valve

Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive Smokeless Explosion-Proof Valve Market Size Overview by Type:
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Aluminium Valve

5.2.2 Plastic Valve

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Automotive Smokeless Explosion-Proof Valve Production by Type
(2021-2032)

5.3.2 World Automotive Smokeless Explosion-Proof Valve Production Value by Type
(2021-2032)

5.3.3 World Automotive Smokeless Explosion-Proof Valve Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY PRESSURE RELIEF

6.1 World Automotive Smokeless Explosion-Proof Valve Market Size Overview by
Pressure Relief: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Pressure Relief

6.2.1 Single-stage Vent Valve

6.2.2 Dual-stage Vent Valve

6.2.3 Others

6.3 Market Segment by Pressure Relief

6.3.1 World Automotive Smokeless Explosion-Proof Valve Production by Pressure
Relief (2021-2032)

6.3.2 World Automotive Smokeless Explosion-Proof Valve Production Value by
Pressure Relief (2021-2032)

6.3.3 World Automotive Smokeless Explosion-Proof Valve Average Price by Pressure
Relief (2021-2032)

7 MARKET ANALYSIS BY GRADE

7.1 World Automotive Smokeless Explosion-Proof Valve Market Size Overview by Grade: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Grade

7.2.1 Pack Level

7.2.2 Module Level

7.3 Market Segment by Grade

7.3.1 World Automotive Smokeless Explosion-Proof Valve Production by Grade (2021-2032)

7.3.2 World Automotive Smokeless Explosion-Proof Valve Production Value by Grade (2021-2032)

7.3.3 World Automotive Smokeless Explosion-Proof Valve Average Price by Grade (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automotive Smokeless Explosion-Proof Valve Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Cars

8.2.2 Commercial Vehicle

8.3 Market Segment by Application

8.3.1 World Automotive Smokeless Explosion-Proof Valve Production by Application (2021-2032)

8.3.2 World Automotive Smokeless Explosion-Proof Valve Production Value by Application (2021-2032)

8.3.3 World Automotive Smokeless Explosion-Proof Valve Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 PUW

9.1.1 PUW Details

9.1.2 PUW Major Business

9.1.3 PUW Automotive Smokeless Explosion-Proof Valve Product and Services

9.1.4 PUW Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.1.5 PUW Recent Developments/Updates
- 9.1.6 PUW Competitive Strengths & Weaknesses
- 9.2 VOIR
 - 9.2.1 VOIR Details
 - 9.2.2 VOIR Major Business
 - 9.2.3 VOIR Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.2.4 VOIR Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 VOIR Recent Developments/Updates
 - 9.2.6 VOIR Competitive Strengths & Weaknesses
- 9.3 Pan Asian Microvent Tech
 - 9.3.1 Pan Asian Microvent Tech Details
 - 9.3.2 Pan Asian Microvent Tech Major Business
 - 9.3.3 Pan Asian Microvent Tech Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.3.4 Pan Asian Microvent Tech Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Pan Asian Microvent Tech Recent Developments/Updates
 - 9.3.6 Pan Asian Microvent Tech Competitive Strengths & Weaknesses
- 9.4 GVS
 - 9.4.1 GVS Details
 - 9.4.2 GVS Major Business
 - 9.4.3 GVS Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.4.4 GVS Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 GVS Recent Developments/Updates
 - 9.4.6 GVS Competitive Strengths & Weaknesses
- 9.5 Milvent Technology
 - 9.5.1 Milvent Technology Details
 - 9.5.2 Milvent Technology Major Business
 - 9.5.3 Milvent Technology Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.5.4 Milvent Technology Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Milvent Technology Recent Developments/Updates
 - 9.5.6 Milvent Technology Competitive Strengths & Weaknesses
- 9.6 JIN HAN
 - 9.6.1 JIN HAN Details
 - 9.6.2 JIN HAN Major Business

- 9.6.3 JIN HAN Automotive Smokeless Explosion-Proof Valve Product and Services
- 9.6.4 JIN HAN Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 JIN HAN Recent Developments/Updates
- 9.6.6 JIN HAN Competitive Strengths & Weaknesses
- 9.7 Guangdong Shangda Energy Technology
 - 9.7.1 Guangdong Shangda Energy Technology Details
 - 9.7.2 Guangdong Shangda Energy Technology Major Business
 - 9.7.3 Guangdong Shangda Energy Technology Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.7.4 Guangdong Shangda Energy Technology Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Guangdong Shangda Energy Technology Recent Developments/Updates
 - 9.7.6 Guangdong Shangda Energy Technology Competitive Strengths & Weaknesses
- 9.8 Freudenberg
 - 9.8.1 Freudenberg Details
 - 9.8.2 Freudenberg Major Business
 - 9.8.3 Freudenberg Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.8.4 Freudenberg Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Freudenberg Recent Developments/Updates
 - 9.8.6 Freudenberg Competitive Strengths & Weaknesses
- 9.9 Donaldson
 - 9.9.1 Donaldson Details
 - 9.9.2 Donaldson Major Business
 - 9.9.3 Donaldson Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.9.4 Donaldson Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Donaldson Recent Developments/Updates
 - 9.9.6 Donaldson Competitive Strengths & Weaknesses
- 9.10 Spider (Xiamen) Technology
 - 9.10.1 Spider (Xiamen) Technology Details
 - 9.10.2 Spider (Xiamen) Technology Major Business
 - 9.10.3 Spider (Xiamen) Technology Automotive Smokeless Explosion-Proof Valve Product and Services
 - 9.10.4 Spider (Xiamen) Technology Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Spider (Xiamen) Technology Recent Developments/Updates
 - 9.10.6 Spider (Xiamen) Technology Competitive Strengths & Weaknesses

9.11 GORE

9.11.1 GORE Details

9.11.2 GORE Major Business

9.11.3 GORE Automotive Smokeless Explosion-Proof Valve Product and Services

9.11.4 GORE Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 GORE Recent Developments/Updates

9.11.6 GORE Competitive Strengths & Weaknesses

9.12 Sinri

9.12.1 Sinri Details

9.12.2 Sinri Major Business

9.12.3 Sinri Automotive Smokeless Explosion-Proof Valve Product and Services

9.12.4 Sinri Automotive Smokeless Explosion-Proof Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Sinri Recent Developments/Updates

9.12.6 Sinri Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Automotive Smokeless Explosion-Proof Valve Industry Chain

10.2 Automotive Smokeless Explosion-Proof Valve Upstream Analysis

10.2.1 Automotive Smokeless Explosion-Proof Valve Core Raw Materials

10.2.2 Main Manufacturers of Automotive Smokeless Explosion-Proof Valve Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Automotive Smokeless Explosion-Proof Valve Production Mode

10.6 Automotive Smokeless Explosion-Proof Valve Procurement Model

10.7 Automotive Smokeless Explosion-Proof Valve Industry Sales Model and Sales Channels

10.7.1 Automotive Smokeless Explosion-Proof Valve Sales Model

10.7.2 Automotive Smokeless Explosion-Proof Valve Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Automotive Smokeless Explosion-Proof Valve Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive Smokeless Explosion-Proof Valve Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive Smokeless Explosion-Proof Valve Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Region (2021-2026)

Table 5. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Region (2027-2032)

Table 6. World Automotive Smokeless Explosion-Proof Valve Production by Region (2021-2026) & (K Units)

Table 7. World Automotive Smokeless Explosion-Proof Valve Production by Region (2027-2032) & (K Units)

Table 8. World Automotive Smokeless Explosion-Proof Valve Production Market Share by Region (2021-2026)

Table 9. World Automotive Smokeless Explosion-Proof Valve Production Market Share by Region (2027-2032)

Table 10. World Automotive Smokeless Explosion-Proof Valve Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Automotive Smokeless Explosion-Proof Valve Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Automotive Smokeless Explosion-Proof Valve Major Market Trends

Table 13. World Automotive Smokeless Explosion-Proof Valve Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automotive Smokeless Explosion-Proof Valve Consumption by Region (2021-2026) & (K Units)

Table 15. World Automotive Smokeless Explosion-Proof Valve Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automotive Smokeless Explosion-Proof Valve Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive Smokeless Explosion-Proof Valve Producers in 2025

Table 18. World Automotive Smokeless Explosion-Proof Valve Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive Smokeless Explosion-Proof Valve Producers in 2025

Table 20. World Automotive Smokeless Explosion-Proof Valve Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Automotive Smokeless Explosion-Proof Valve Company Evaluation Quadrant

Table 22. World Automotive Smokeless Explosion-Proof Valve Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Automotive Smokeless Explosion-Proof Valve Production Site of Key Manufacturer

Table 24. Automotive Smokeless Explosion-Proof Valve Market: Company Product Type Footprint

Table 25. Automotive Smokeless Explosion-Proof Valve Market: Company Product Application Footprint

Table 26. Automotive Smokeless Explosion-Proof Valve Competitive Factors

Table 27. Automotive Smokeless Explosion-Proof Valve New Entrant and Capacity Expansion Plans

Table 28. Automotive Smokeless Explosion-Proof Valve Mergers & Acquisitions Activity

Table 29. United States VS China Automotive Smokeless Explosion-Proof Valve Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Automotive Smokeless Explosion-Proof Valve Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive Smokeless Explosion-Proof Valve Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Automotive Smokeless Explosion-Proof Valve Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Market Share (2021-2026)

Table 37. China Based Automotive Smokeless Explosion-Proof Valve Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Automotive Smokeless Explosion-Proof Valve

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Market Share (2021-2026)

Table 42. Rest of World Based Automotive Smokeless Explosion-Proof Valve Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Market Share (2021-2026)

Table 47. World Automotive Smokeless Explosion-Proof Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Automotive Smokeless Explosion-Proof Valve Production by Type (2021-2026) & (K Units)

Table 49. World Automotive Smokeless Explosion-Proof Valve Production by Type (2027-2032) & (K Units)

Table 50. World Automotive Smokeless Explosion-Proof Valve Production Value by Type (2021-2026) & (USD Million)

Table 51. World Automotive Smokeless Explosion-Proof Valve Production Value by Type (2027-2032) & (USD Million)

Table 52. World Automotive Smokeless Explosion-Proof Valve Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Automotive Smokeless Explosion-Proof Valve Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Automotive Smokeless Explosion-Proof Valve Production Value by Pressure Relief, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive Smokeless Explosion-Proof Valve Production by Pressure Relief (2021-2026) & (K Units)

Table 56. World Automotive Smokeless Explosion-Proof Valve Production by Pressure Relief (2027-2032) & (K Units)

Table 57. World Automotive Smokeless Explosion-Proof Valve Production Value by Pressure Relief (2021-2026) & (USD Million)

Table 58. World Automotive Smokeless Explosion-Proof Valve Production Value by Pressure Relief (2027-2032) & (USD Million)

Table 59. World Automotive Smokeless Explosion-Proof Valve Average Price by Pressure Relief (2021-2026) & (US\$/Unit)

Table 60. World Automotive Smokeless Explosion-Proof Valve Average Price by Pressure Relief (2027-2032) & (US\$/Unit)

Table 61. World Automotive Smokeless Explosion-Proof Valve Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive Smokeless Explosion-Proof Valve Production by Grade (2021-2026) & (K Units)

Table 63. World Automotive Smokeless Explosion-Proof Valve Production by Grade (2027-2032) & (K Units)

Table 64. World Automotive Smokeless Explosion-Proof Valve Production Value by Grade (2021-2026) & (USD Million)

Table 65. World Automotive Smokeless Explosion-Proof Valve Production Value by Grade (2027-2032) & (USD Million)

Table 66. World Automotive Smokeless Explosion-Proof Valve Average Price by Grade (2021-2026) & (US\$/Unit)

Table 67. World Automotive Smokeless Explosion-Proof Valve Average Price by Grade (2027-2032) & (US\$/Unit)

Table 68. World Automotive Smokeless Explosion-Proof Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Automotive Smokeless Explosion-Proof Valve Production by Application (2021-2026) & (K Units)

Table 70. World Automotive Smokeless Explosion-Proof Valve Production by Application (2027-2032) & (K Units)

Table 71. World Automotive Smokeless Explosion-Proof Valve Production Value by Application (2021-2026) & (USD Million)

Table 72. World Automotive Smokeless Explosion-Proof Valve Production Value by Application (2027-2032) & (USD Million)

Table 73. World Automotive Smokeless Explosion-Proof Valve Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Automotive Smokeless Explosion-Proof Valve Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. PUW Basic Information, Manufacturing Base and Competitors

Table 76. PUW Major Business

Table 77. PUW Automotive Smokeless Explosion-Proof Valve Product and Services

Table 78. PUW Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. PUW Recent Developments/Updates

Table 80. PUW Competitive Strengths & Weaknesses
Table 81. VOIR Basic Information, Manufacturing Base and Competitors
Table 82. VOIR Major Business
Table 83. VOIR Automotive Smokeless Explosion-Proof Valve Product and Services
Table 84. VOIR Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. VOIR Recent Developments/Updates
Table 86. VOIR Competitive Strengths & Weaknesses
Table 87. Pan Asian Microvent Tech Basic Information, Manufacturing Base and Competitors
Table 88. Pan Asian Microvent Tech Major Business
Table 89. Pan Asian Microvent Tech Automotive Smokeless Explosion-Proof Valve Product and Services
Table 90. Pan Asian Microvent Tech Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Pan Asian Microvent Tech Recent Developments/Updates
Table 92. Pan Asian Microvent Tech Competitive Strengths & Weaknesses
Table 93. GVS Basic Information, Manufacturing Base and Competitors
Table 94. GVS Major Business
Table 95. GVS Automotive Smokeless Explosion-Proof Valve Product and Services
Table 96. GVS Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. GVS Recent Developments/Updates
Table 98. GVS Competitive Strengths & Weaknesses
Table 99. Milvent Technology Basic Information, Manufacturing Base and Competitors
Table 100. Milvent Technology Major Business
Table 101. Milvent Technology Automotive Smokeless Explosion-Proof Valve Product and Services
Table 102. Milvent Technology Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Milvent Technology Recent Developments/Updates
Table 104. Milvent Technology Competitive Strengths & Weaknesses
Table 105. JIN HAN Basic Information, Manufacturing Base and Competitors
Table 106. JIN HAN Major Business
Table 107. JIN HAN Automotive Smokeless Explosion-Proof Valve Product and

Services

Table 108. JIN HAN Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. JIN HAN Recent Developments/Updates

Table 110. JIN HAN Competitive Strengths & Weaknesses

Table 111. Guangdong Shangda Energy Technology Basic Information, Manufacturing Base and Competitors

Table 112. Guangdong Shangda Energy Technology Major Business

Table 113. Guangdong Shangda Energy Technology Automotive Smokeless Explosion-Proof Valve Product and Services

Table 114. Guangdong Shangda Energy Technology Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Guangdong Shangda Energy Technology Recent Developments/Updates

Table 116. Guangdong Shangda Energy Technology Competitive Strengths & Weaknesses

Table 117. Freudenberg Basic Information, Manufacturing Base and Competitors

Table 118. Freudenberg Major Business

Table 119. Freudenberg Automotive Smokeless Explosion-Proof Valve Product and Services

Table 120. Freudenberg Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Freudenberg Recent Developments/Updates

Table 122. Freudenberg Competitive Strengths & Weaknesses

Table 123. Donaldson Basic Information, Manufacturing Base and Competitors

Table 124. Donaldson Major Business

Table 125. Donaldson Automotive Smokeless Explosion-Proof Valve Product and Services

Table 126. Donaldson Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Donaldson Recent Developments/Updates

Table 128. Donaldson Competitive Strengths & Weaknesses

Table 129. Spider (Xiamen) Technology Basic Information, Manufacturing Base and Competitors

Table 130. Spider (Xiamen) Technology Major Business

Table 131. Spider (Xiamen) Technology Automotive Smokeless Explosion-Proof Valve

Product and Services

Table 132. Spider (Xiamen) Technology Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Spider (Xiamen) Technology Recent Developments/Updates

Table 134. Spider (Xiamen) Technology Competitive Strengths & Weaknesses

Table 135. GORE Basic Information, Manufacturing Base and Competitors

Table 136. GORE Major Business

Table 137. GORE Automotive Smokeless Explosion-Proof Valve Product and Services

Table 138. GORE Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. GORE Recent Developments/Updates

Table 140. GORE Competitive Strengths & Weaknesses

Table 141. Sinri Basic Information, Manufacturing Base and Competitors

Table 142. Sinri Major Business

Table 143. Sinri Automotive Smokeless Explosion-Proof Valve Product and Services

Table 144. Sinri Automotive Smokeless Explosion-Proof Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Sinri Recent Developments/Updates

Table 146. Sinri Competitive Strengths & Weaknesses

Table 147. Global Key Players of Automotive Smokeless Explosion-Proof Valve Upstream (Raw Materials)

Table 148. Global Automotive Smokeless Explosion-Proof Valve Typical Customers

Table 149. Automotive Smokeless Explosion-Proof Valve Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Smokeless Explosion-Proof Valve Picture

Figure 2. World Automotive Smokeless Explosion-Proof Valve Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Automotive Smokeless Explosion-Proof Valve Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 5. World Automotive Smokeless Explosion-Proof Valve Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Region (2021-2032)

Figure 7. World Automotive Smokeless Explosion-Proof Valve Production Market Share by Region (2021-2032)

Figure 8. North America Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 9. Europe Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 10. China Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 11. Japan Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 12. South Korea Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 13. India Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 14. Mexico Automotive Smokeless Explosion-Proof Valve Production (2021-2032) & (K Units)

Figure 15. Automotive Smokeless Explosion-Proof Valve Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 18. World Automotive Smokeless Explosion-Proof Valve Consumption Market Share by Region (2021-2032)

Figure 19. United States Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 20. China Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 21. Europe Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 22. Japan Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 23. South Korea Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 25. India Automotive Smokeless Explosion-Proof Valve Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Automotive Smokeless Explosion-Proof Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Automotive Smokeless Explosion-Proof Valve Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Automotive Smokeless Explosion-Proof Valve Markets in 2025

Figure 29. United States VS China: Automotive Smokeless Explosion-Proof Valve Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Automotive Smokeless Explosion-Proof Valve Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Automotive Smokeless Explosion-Proof Valve Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Market Share 2025

Figure 33. China Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Automotive Smokeless Explosion-Proof Valve Production Market Share 2025

Figure 35. World Automotive Smokeless Explosion-Proof Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Type in 2025

Figure 37. Aluminium Valve

Figure 38. Plastic Valve

Figure 39. Others

Figure 40. World Automotive Smokeless Explosion-Proof Valve Production Market Share by Type (2021-2032)

Figure 41. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Type (2021-2032)

Figure 42. World Automotive Smokeless Explosion-Proof Valve Average Price by Type (2021-2032) & (US\$/Unit)

Figure 43. World Automotive Smokeless Explosion-Proof Valve Production Value by Pressure Relief, (USD Million), 2021 & 2025 & 2032

Figure 44. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Pressure Relief in 2025

Figure 45. Single-stage Vent Valve

Figure 46. Dual-stage Vent Valve

Figure 47. Others

Figure 48. World Automotive Smokeless Explosion-Proof Valve Production Market Share by Pressure Relief (2021-2032)

Figure 49. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Pressure Relief (2021-2032)

Figure 50. World Automotive Smokeless Explosion-Proof Valve Average Price by Pressure Relief (2021-2032) & (US\$/Unit)

Figure 51. World Automotive Smokeless Explosion-Proof Valve Production Value by Grade, (USD Million), 2021 & 2025 & 2032

Figure 52. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Grade in 2025

Figure 53. Pack Level

Figure 54. Module Level

Figure 55. World Automotive Smokeless Explosion-Proof Valve Production Market Share by Grade (2021-2032)

Figure 56. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Grade (2021-2032)

Figure 57. World Automotive Smokeless Explosion-Proof Valve Average Price by Grade (2021-2032) & (US\$/Unit)

Figure 58. World Automotive Smokeless Explosion-Proof Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Application in 2025

Figure 60. Passenger Cars

Figure 61. Commercial Vehicle

Figure 62. World Automotive Smokeless Explosion-Proof Valve Production Market Share by Application (2021-2032)

Figure 63. World Automotive Smokeless Explosion-Proof Valve Production Value Market Share by Application (2021-2032)

Figure 64. World Automotive Smokeless Explosion-Proof Valve Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. Automotive Smokeless Explosion-Proof Valve Industry Chain

Figure 66. Automotive Smokeless Explosion-Proof Valve Procurement Model

Figure 67. Automotive Smokeless Explosion-Proof Valve Sales Model

Figure 68. Automotive Smokeless Explosion-Proof Valve Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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