

Global Automotive 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 Automotive Explosion-proof Waterproof Breathable Valve market size was valued at US\$ 67.40 million in 2025 and is forecast to a readjusted size of US\$ 182 million by 2032 with a CAGR of 15.1% during review period.

Automotive Explosion-proof Waterproof Breathable Valve refers to a specialized safety component designed for electric vehicle systems that not only rapidly releases internal pressure under abnormal conditions such as thermal runaway or gas accumulation but also prevents water ingress while allowing controlled airflow to maintain battery balance and system integrity. It is engineered with precise activation thresholds, high-strength and corrosion-resistant materials to ensure reliable pressure relief, waterproofing, and breathability, playing a vital role in battery protection and vehicle safety management. Key advantages include fast response, high reliability under extreme conditions, robust structural durability, waterproof performance, 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. Its 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, waterproofing, and integration with vehicle 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 is a detailed and comprehensive analysis for global Automotive 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 Automotive 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 Automotive 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 Automotive 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 Automotive 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 Automotive 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 Automotive 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

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

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

Chapter 3, the Automotive 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 Automotive 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 Automotive 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 Automotive Explosion-proof Waterproof Breathable Valve.

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

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Aluminium Valve

1.3.3 Plastic Valve

1.3.4 Others

1.4 Market Analysis by Pressure Relief

1.4.1 Overview: Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Pressure Relief: 2021 Versus 2025 Versus 2032

1.4.2 Single-stage Vent Valve

1.4.3 Dual-stage Vent Valve

1.4.4 Others

1.5 Market Analysis by Grade

1.5.1 Overview: Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Grade: 2021 Versus 2025 Versus 2032

1.5.2 Pack Level

1.5.3 Module Level

1.6 Market Analysis by Application

1.6.1 Overview: Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Passenger Cars

1.6.3 Commercial Vehicle

1.7 Global Automotive Explosion-proof Waterproof Breathable Valve Market Size & Forecast

1.7.1 Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (2021-2032)

1.7.3 Global Automotive Explosion-proof Waterproof Breathable Valve Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 PUW

2.1.1 PUW Details

2.1.2 PUW Major Business

2.1.3 PUW Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.1.4 PUW Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 PUW Recent Developments/Updates

2.2 VOIR

2.2.1 VOIR Details

2.2.2 VOIR Major Business

2.2.3 VOIR Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.2.4 VOIR Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 VOIR Recent Developments/Updates

2.3 Pan Asian Microvent Tech

2.3.1 Pan Asian Microvent Tech Details

2.3.2 Pan Asian Microvent Tech Major Business

2.3.3 Pan Asian Microvent Tech Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.3.4 Pan Asian Microvent Tech Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Pan Asian Microvent Tech Recent Developments/Updates

2.4 GVS

2.4.1 GVS Details

2.4.2 GVS Major Business

2.4.3 GVS Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.4.4 GVS Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 GVS Recent Developments/Updates

2.5 Milvent Technology

2.5.1 Milvent Technology Details

2.5.2 Milvent Technology Major Business

2.5.3 Milvent Technology Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.5.4 Milvent Technology Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Milvent Technology Recent Developments/Updates

2.6 JIN HAN

2.6.1 JIN HAN Details

2.6.2 JIN HAN Major Business

2.6.3 JIN HAN Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.6.4 JIN HAN Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 JIN HAN Recent Developments/Updates

2.7 Guangdong Shangda Energy Technology

2.7.1 Guangdong Shangda Energy Technology Details

2.7.2 Guangdong Shangda Energy Technology Major Business

2.7.3 Guangdong Shangda Energy Technology Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.7.4 Guangdong Shangda Energy Technology Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Guangdong Shangda Energy Technology Recent Developments/Updates

2.8 Freudenberg

2.8.1 Freudenberg Details

2.8.2 Freudenberg Major Business

2.8.3 Freudenberg Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.8.4 Freudenberg Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Freudenberg Recent Developments/Updates

2.9 Donaldson

2.9.1 Donaldson Details

2.9.2 Donaldson Major Business

2.9.3 Donaldson Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.9.4 Donaldson Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Donaldson Recent Developments/Updates

2.10 Spider (Xiamen) Technology

2.10.1 Spider (Xiamen) Technology Details

2.10.2 Spider (Xiamen) Technology Major Business

2.10.3 Spider (Xiamen) Technology Automotive Explosion-proof Waterproof

Breathable Valve Product and Services

2.10.4 Spider (Xiamen) Technology Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Spider (Xiamen) Technology Recent Developments/Updates

2.11 GORE

2.11.1 GORE Details

2.11.2 GORE Major Business

2.11.3 GORE Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.11.4 GORE Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 GORE Recent Developments/Updates

2.12 Sinri

2.12.1 Sinri Details

2.12.2 Sinri Major Business

2.12.3 Sinri Automotive Explosion-proof Waterproof Breathable Valve Product and Services

2.12.4 Sinri Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Sinri Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE EXPLOSION-PROOF WATERPROOF BREATHABLE VALVE BY MANUFACTURER

3.1 Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Manufacturer (2021-2026)

3.2 Global Automotive Explosion-proof Waterproof Breathable Valve Revenue by Manufacturer (2021-2026)

3.3 Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Manufacturer (2021-2026)

3.4 Market Share Analysis (2025)

3.4.1 Producer Shipments of Automotive Explosion-proof Waterproof Breathable Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2025

3.4.2 Top 3 Automotive Explosion-proof Waterproof Breathable Valve Manufacturer Market Share in 2025

3.4.3 Top 6 Automotive Explosion-proof Waterproof Breathable Valve Manufacturer Market Share in 2025

3.5 Automotive Explosion-proof Waterproof Breathable Valve Market: Overall Company

Footprint Analysis

3.5.1 Automotive Explosion-proof Waterproof Breathable Valve Market: Region Footprint

3.5.2 Automotive Explosion-proof Waterproof Breathable Valve Market: Company Product Type Footprint

3.5.3 Automotive Explosion-proof Waterproof Breathable Valve Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Automotive Explosion-proof Waterproof Breathable Valve Market Size by Region

4.1.1 Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Region (2021-2032)

4.1.2 Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Region (2021-2032)

4.1.3 Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Region (2021-2032)

4.2 North America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032)

4.3 Europe Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032)

4.4 Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032)

4.5 South America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032)

4.6 Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2032)

5.2 Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Type (2021-2032)

5.3 Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2032)

6.2 Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Application (2021-2032)

6.3 Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2032)

7.2 North America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2032)

7.3 North America Automotive Explosion-proof Waterproof Breathable Valve Market Size by Country

7.3.1 North America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2021-2032)

7.3.2 North America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2032)

8.2 Europe Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2032)

8.3 Europe Automotive Explosion-proof Waterproof Breathable Valve Market Size by Country

8.3.1 Europe Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2021-2032)

8.3.2 Europe Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

- 8.3.4 France Market Size and Forecast (2021-2032)
- 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
- 8.3.6 Russia Market Size and Forecast (2021-2032)
- 8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Market Size by Region
 - 9.3.1 Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Region (2021-2032)
 - 9.3.2 Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Region (2021-2032)
 - 9.3.3 China Market Size and Forecast (2021-2032)
 - 9.3.4 Japan Market Size and Forecast (2021-2032)
 - 9.3.5 South Korea Market Size and Forecast (2021-2032)
 - 9.3.6 India Market Size and Forecast (2021-2032)
 - 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
 - 9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

- 10.1 South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2032)
- 10.2 South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2032)
- 10.3 South America Automotive Explosion-proof Waterproof Breathable Valve Market Size by Country
 - 10.3.1 South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2021-2032)
 - 10.3.2 South America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2021-2032)
 - 10.3.3 Brazil Market Size and Forecast (2021-2032)
 - 10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Market Size by Country

11.3.1 Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Automotive Explosion-proof Waterproof Breathable Valve Market Drivers

12.2 Automotive Explosion-proof Waterproof Breathable Valve Market Restraints

12.3 Automotive Explosion-proof Waterproof Breathable Valve Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Automotive Explosion-proof Waterproof Breathable Valve and Key Manufacturers

13.2 Manufacturing Costs Percentage of Automotive Explosion-proof Waterproof Breathable Valve

13.3 Automotive Explosion-proof Waterproof Breathable Valve Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Automotive Explosion-proof Waterproof Breathable Valve Typical Distributors

14.3 Automotive Explosion-proof Waterproof Breathable Valve Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Pressure Relief, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Grade, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. PUW Basic Information, Manufacturing Base and Competitors
- Table 6. PUW Major Business
- Table 7. PUW Automotive Explosion-proof Waterproof Breathable Valve Product and Services
- Table 8. PUW Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. PUW Recent Developments/Updates
- Table 10. VOIR Basic Information, Manufacturing Base and Competitors
- Table 11. VOIR Major Business
- Table 12. VOIR Automotive Explosion-proof Waterproof Breathable Valve Product and Services
- Table 13. VOIR Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. VOIR Recent Developments/Updates
- Table 15. Pan Asian Microvent Tech Basic Information, Manufacturing Base and Competitors
- Table 16. Pan Asian Microvent Tech Major Business
- Table 17. Pan Asian Microvent Tech Automotive Explosion-proof Waterproof Breathable Valve Product and Services
- Table 18. Pan Asian Microvent Tech Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Pan Asian Microvent Tech Recent Developments/Updates
- Table 20. GVS Basic Information, Manufacturing Base and Competitors
- Table 21. GVS Major Business

Table 22. GVS Automotive Explosion-proof Waterproof Breathable Valve Product and Services

Table 23. GVS Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. GVS Recent Developments/Updates

Table 25. Milvent Technology Basic Information, Manufacturing Base and Competitors

Table 26. Milvent Technology Major Business

Table 27. Milvent Technology Automotive Explosion-proof Waterproof Breathable Valve Product and Services

Table 28. Milvent Technology Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Milvent Technology Recent Developments/Updates

Table 30. JIN HAN Basic Information, Manufacturing Base and Competitors

Table 31. JIN HAN Major Business

Table 32. JIN HAN Automotive Explosion-proof Waterproof Breathable Valve Product and Services

Table 33. JIN HAN Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. JIN HAN Recent Developments/Updates

Table 35. Guangdong Shangda Energy Technology Basic Information, Manufacturing Base and Competitors

Table 36. Guangdong Shangda Energy Technology Major Business

Table 37. Guangdong Shangda Energy Technology Automotive Explosion-proof Waterproof Breathable Valve Product and Services

Table 38. Guangdong Shangda Energy Technology Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Guangdong Shangda Energy Technology Recent Developments/Updates

Table 40. Freudenberg Basic Information, Manufacturing Base and Competitors

Table 41. Freudenberg Major Business

Table 42. Freudenberg Automotive Explosion-proof Waterproof Breathable Valve Product and Services

Table 43. Freudenberg Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Freudenberg Recent Developments/Updates

Table 45. Donaldson Basic Information, Manufacturing Base and Competitors
Table 46. Donaldson Major Business
Table 47. Donaldson Automotive Explosion-proof Waterproof Breathable Valve Product and Services
Table 48. Donaldson Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 49. Donaldson Recent Developments/Updates
Table 50. Spider (Xiamen) Technology Basic Information, Manufacturing Base and Competitors
Table 51. Spider (Xiamen) Technology Major Business
Table 52. Spider (Xiamen) Technology Automotive Explosion-proof Waterproof Breathable Valve Product and Services
Table 53. Spider (Xiamen) Technology Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 54. Spider (Xiamen) Technology Recent Developments/Updates
Table 55. GORE Basic Information, Manufacturing Base and Competitors
Table 56. GORE Major Business
Table 57. GORE Automotive Explosion-proof Waterproof Breathable Valve Product and Services
Table 58. GORE Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 59. GORE Recent Developments/Updates
Table 60. Sinri Basic Information, Manufacturing Base and Competitors
Table 61. Sinri Major Business
Table 62. Sinri Automotive Explosion-proof Waterproof Breathable Valve Product and Services
Table 63. Sinri Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 64. Sinri Recent Developments/Updates
Table 65. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Manufacturer (2021-2026) & (K Units)
Table 66. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue by Manufacturer (2021-2026) & (USD Million)
Table 67. Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 68. Market Position of Manufacturers in Automotive Explosion-proof Waterproof Breathable Valve, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 69. Head Office and Automotive Explosion-proof Waterproof Breathable Valve Production Site of Key Manufacturer

Table 70. Automotive Explosion-proof Waterproof Breathable Valve Market: Company Product Type Footprint

Table 71. Automotive Explosion-proof Waterproof Breathable Valve Market: Company Product Application Footprint

Table 72. Automotive Explosion-proof Waterproof Breathable Valve New Market Entrants and Barriers to Market Entry

Table 73. Automotive Explosion-proof Waterproof Breathable Valve Mergers, Acquisition, Agreements, and Collaborations

Table 74. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 75. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Region (2021-2026) & (K Units)

Table 76. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Region (2027-2032) & (K Units)

Table 77. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Region (2021-2026) & (USD Million)

Table 78. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Region (2027-2032) & (USD Million)

Table 79. Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Region (2021-2026) & (US\$/Unit)

Table 80. Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Region (2027-2032) & (US\$/Unit)

Table 81. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 82. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 83. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Type (2021-2026) & (USD Million)

Table 84. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Type (2027-2032) & (USD Million)

Table 85. Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Type (2021-2026) & (US\$/Unit)

Table 86. Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Type (2027-2032) & (US\$/Unit)

Table 87. Global Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Application (2021-2026) & (K Units)

Table 88. Global Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Application (2027-2032) & (K Units)

Table 89. Global Automotive Explosion-proof Waterproof Breathable Valve

Consumption Value by Application (2021-2026) & (USD Million)

Table 90. Global Automotive Explosion-proof Waterproof Breathable Valve

Consumption Value by Application (2027-2032) & (USD Million)

Table 91. Global Automotive Explosion-proof Waterproof Breathable Valve Average

Price by Application (2021-2026) & (US\$/Unit)

Table 92. Global Automotive Explosion-proof Waterproof Breathable Valve Average

Price by Application (2027-2032) & (US\$/Unit)

Table 93. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity by Type (2021-2026) & (K Units)

Table 94. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity by Type (2027-2032) & (K Units)

Table 95. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity by Application (2021-2026) & (K Units)

Table 96. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity by Application (2027-2032) & (K Units)

Table 97. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity by Country (2021-2026) & (K Units)

Table 98. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity by Country (2027-2032) & (K Units)

Table 99. North America Automotive Explosion-proof Waterproof Breathable Valve

Consumption Value by Country (2021-2026) & (USD Million)

Table 100. North America Automotive Explosion-proof Waterproof Breathable Valve

Consumption Value by Country (2027-2032) & (USD Million)

Table 101. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Type (2021-2026) & (K Units)

Table 102. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Type (2027-2032) & (K Units)

Table 103. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Application (2021-2026) & (K Units)

Table 104. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Application (2027-2032) & (K Units)

Table 105. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Country (2021-2026) & (K Units)

Table 106. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales

Quantity by Country (2027-2032) & (K Units)

Table 107. Europe Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 108. Europe Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 109. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 110. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 111. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2026) & (K Units)

Table 112. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2027-2032) & (K Units)

Table 113. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Region (2021-2026) & (K Units)

Table 114. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Region (2027-2032) & (K Units)

Table 115. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Region (2021-2026) & (USD Million)

Table 116. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Region (2027-2032) & (USD Million)

Table 117. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 118. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 119. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2026) & (K Units)

Table 120. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2027-2032) & (K Units)

Table 121. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2021-2026) & (K Units)

Table 122. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2027-2032) & (K Units)

Table 123. South America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 124. South America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 125. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 126. Middle East & Africa Automotive Explosion-proof Waterproof Breathable

Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 127. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2021-2026) & (K Units)

Table 128. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Application (2027-2032) & (K Units)

Table 129. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2021-2026) & (K Units)

Table 130. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity by Country (2027-2032) & (K Units)

Table 131. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 132. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 133. Automotive Explosion-proof Waterproof Breathable Valve Raw Material

Table 134. Key Manufacturers of Automotive Explosion-proof Waterproof Breathable Valve Raw Materials

Table 135. Automotive Explosion-proof Waterproof Breathable Valve Typical Distributors

Table 136. Automotive Explosion-proof Waterproof Breathable Valve Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Automotive Explosion-proof Waterproof Breathable Valve Picture
- Figure 2. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue Market Share by Type in 2025
- Figure 4. Aluminium Valve Examples
- Figure 5. Plastic Valve Examples
- Figure 6. Others Examples
- Figure 7. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue by Pressure Relief, (USD Million), 2021 & 2025 & 2032
- Figure 8. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue Market Share by Pressure Relief in 2025
- Figure 9. Single-stage Vent Valve Examples
- Figure 10. Dual-stage Vent Valve Examples
- Figure 11. Others Examples
- Figure 12. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue by Grade, (USD Million), 2021 & 2025 & 2032
- Figure 13. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue Market Share by Grade in 2025
- Figure 14. Pack Level Examples
- Figure 15. Module Level Examples
- Figure 16. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue Market Share by Application in 2025
- Figure 18. Passenger Cars Examples
- Figure 19. Commercial Vehicle Examples
- Figure 20. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 21. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 22. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity (2021-2032) & (K Units)
- Figure 23. Global Automotive Explosion-proof Waterproof Breathable Valve Price (2021-2032) & (US\$/Unit)

Figure 24. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue Market Share by Manufacturer in 2025

Figure 26. Producer Shipments of Automotive Explosion-proof Waterproof Breathable Valve by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 Automotive Explosion-proof Waterproof Breathable Valve Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 Automotive Explosion-proof Waterproof Breathable Valve Manufacturer (Revenue) Market Share in 2025

Figure 29. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value Market Share by Region (2021-2032)

Figure 31. North America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)

Figure 34. South America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)

Figure 36. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global Automotive Explosion-proof Waterproof Breathable Valve Consumption Value Market Share by Type (2021-2032)

Figure 38. Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. Global Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global Automotive Explosion-proof Waterproof Breathable Valve Revenue Market Share by Application (2021-2032)

Figure 41. Global Automotive Explosion-proof Waterproof Breathable Valve Average Price by Application (2021-2032) & (US\$/Unit)

Figure 42. North America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity Market Share by Application (2021-2032)

Figure 44. North America Automotive Explosion-proof Waterproof Breathable Valve

Sales Quantity Market Share by Country (2021-2032)

Figure 45. North America Automotive Explosion-proof Waterproof Breathable Valve

Consumption Value Market Share by Country (2021-2032)

Figure 46. United States Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales
Quantity Market Share by Type (2021-2032)

Figure 50. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales
Quantity Market Share by Application (2021-2032)

Figure 51. Europe Automotive Explosion-proof Waterproof Breathable Valve Sales
Quantity Market Share by Country (2021-2032)

Figure 52. Europe Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

Figure 54. France Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Automotive Explosion-proof Waterproof Breathable Valve Consumption
Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales
Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales
Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve Sales
Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value Market Share by Region (2021-2032)

Figure 62. China Automotive Explosion-proof Waterproof Breathable Valve
Consumption Value (2021-2032) & (USD Million)

- Figure 63. Japan Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 64. South Korea Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 65. India Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 66. Southeast Asia Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 67. Australia Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 68. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Type (2021-2032)
- Figure 69. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Application (2021-2032)
- Figure 70. South America Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Country (2021-2032)
- Figure 71. South America Automotive Explosion-proof Waterproof Breathable Valve Consumption Value Market Share by Country (2021-2032)
- Figure 72. Brazil Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 73. Argentina Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 74. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Type (2021-2032)
- Figure 75. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Application (2021-2032)
- Figure 76. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Sales Quantity Market Share by Country (2021-2032)
- Figure 77. Middle East & Africa Automotive Explosion-proof Waterproof Breathable Valve Consumption Value Market Share by Country (2021-2032)
- Figure 78. Turkey Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 79. Egypt Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 80. Saudi Arabia Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 81. South Africa Automotive Explosion-proof Waterproof Breathable Valve Consumption Value (2021-2032) & (USD Million)
- Figure 82. Automotive Explosion-proof Waterproof Breathable Valve Market Drivers

Figure 83. Automotive Explosion-proof Waterproof Breathable Valve Market Restraints

Figure 84. Automotive Explosion-proof Waterproof Breathable Valve Market Trends

Figure 85. Porters Five Forces Analysis

Figure 86. Manufacturing Cost Structure Analysis of Automotive Explosion-proof Waterproof Breathable Valve in 2025

Figure 87. Manufacturing Process Analysis of Automotive Explosion-proof Waterproof Breathable Valve

Figure 88. Automotive Explosion-proof Waterproof Breathable Valve Industrial Chain

Figure 89. Sales Channel: Direct to End-User vs Distributors

Figure 90. Direct Channel Pros & Cons

Figure 91. Indirect Channel Pros & Cons

Figure 92. Methodology

Figure 93. Research Process and Data Source

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