

# Global Pilot-Operated Breather 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 Pilot-Operated Breather Valve market size was valued at US\$ 85.61 million in 2025 and is forecast to a readjusted size of US\$ 136 million by 2032 with a CAGR of 6.8% during review period.

In 2025, the global output of pilot-operated breather valve is estimated to be approximately 320,000 units, with an average selling price of about \$260 per unit, a gross profit margin of approximately 60%, and a single production line capacity of about 6,000 units per year. A pilot-operated breather valve is a type of breather valve that uses the internal pressure of the storage tank as a power source, precisely controlling the opening and closing of the main valve disc through a pilot mechanism. Unlike traditional breather valves that directly rely on the pressure of the medium acting on the valve disc, it employs an 'indirect,' amplified control method, thereby achieving ultra-low leakage, high-precision operation, and large flow capacity. The upstream supply chain for pilot-operated breather valves includes suppliers of special metal materials (such as stainless steel and aluminum alloys) and precision components (such as diaphragms and springs); the midstream consists of specialized manufacturers with core design and precision manufacturing processes, involving precision machining, clean assembly, and rigorous testing. Its downstream applications are mainly in large-scale projects with extremely stringent safety and environmental requirements, such as strategic petroleum reserves, large petrochemical bases, and volatile organic liquid storage tanks. The demand stems from increasingly stringent environmental regulations worldwide (especially the requirement for near-zero VOC emissions) and the extremely high safety standards for large storage tanks under extreme operating conditions. By using pilot control principles to achieve ultra-low leakage and precise pressure control, it has become a key technology and solution to meet these mandatory high-end requirements.

The key driving factors for the market of pilot-operated breather valve include: 1. The rising demand for safety and precise control of large storage tanks in the global petrochemical and storage industries, which has led to the adoption of valves with higher precision and larger flow regulation capabilities; 2. The increasingly strict VOCs emissions and environmental protection regulations require more precise pressure control and oil vapor recovery during the tank breathing process. The pilot design, due to its high sealing performance and controllability, has become the preferred option; 3. The need for enterprises to reduce costs and improve efficiency as well as for preventive maintenance has highlighted the value of this valve type in reducing product volatile loss and extending equipment lifespan.

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

Global Pilot-Operated Breather 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 Pilot-Operated Breather 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 Pilot-Operated Breather 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 Pilot-Operated Breather 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 Pilot-Operated Breather 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 ITT Engineered Valves, PROTEGO, Groth Corporation, Baker Hughes, Curtiss-Wright, Circor, Spirax Sarco, NTGD breather valve, Valvitalia Group, Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd, etc.

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

## **Market Segmentation**

Pilot-Operated Breather 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

Internal Pilot-operated Breather Valve

External Pilot-operated Breather Valve

### Market segment by Function

Balanced Pilot Breathing Valve

Fireproof Pilot Breathing Valve

## Dual Setpoint Pilot Breathing Valve

### Market segment by Leakproof Material

Soft Seated

Metal Seated

### Market segment by Application

Petrochemical Industry

Coatings Industry

Others

### Major players covered

ITT Engineered Valves

PROTEGO

Groth Corporation

Baker Hughes

Curtiss-Wright

Circor

Spirax Sarco

NTGD breather valve

Valvitalia Group

Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd

Jiangsu Bafang Safety Equipment Co., Ltd

Paske Valve Industry Shanghai Co., Ltd

Shanghai Qizhong Valve Manufacturing Co., Ltd

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Pilot-Operated Breather Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pilot-Operated Breather Valve, with price, sales quantity, revenue, and global market share of Pilot-Operated Breather Valve from 2021 to 2026.

Chapter 3, the Pilot-Operated Breather Valve competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Pilot-Operated Breather 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 Pilot-Operated Breather 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 Pilot-Operated Breather Valve.

Chapter 14 and 15, to describe Pilot-Operated Breather 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 Pilot-Operated Breather Valve Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Internal Pilot-operated Breather Valve

1.3.3 External Pilot-operated Breather Valve

1.4 Market Analysis by Function

1.4.1 Overview: Global Pilot-Operated Breather Valve Consumption Value by Function: 2021 Versus 2025 Versus 2032

1.4.2 Balanced Pilot Breathing Valve

1.4.3 Fireproof Pilot Breathing Valve

1.4.4 Dual Setpoint Pilot Breathing Valve

1.5 Market Analysis by Leakproof Material

1.5.1 Overview: Global Pilot-Operated Breather Valve Consumption Value by Leakproof Material: 2021 Versus 2025 Versus 2032

1.5.2 Soft Seated

1.5.3 Metal Seated

1.6 Market Analysis by Application

1.6.1 Overview: Global Pilot-Operated Breather Valve Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Petrochemical Industry

1.6.3 Coatings Industry

1.6.4 Others

1.7 Global Pilot-Operated Breather Valve Market Size & Forecast

1.7.1 Global Pilot-Operated Breather Valve Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Pilot-Operated Breather Valve Sales Quantity (2021-2032)

1.7.3 Global Pilot-Operated Breather Valve Average Price (2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 ITT Engineered Valves

2.1.1 ITT Engineered Valves Details

2.1.2 ITT Engineered Valves Major Business

2.1.3 ITT Engineered Valves Pilot-Operated Breather Valve Product and Services

2.1.4 ITT Engineered Valves Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 ITT Engineered Valves Recent Developments/Updates

2.2 PROTEGO

2.2.1 PROTEGO Details

2.2.2 PROTEGO Major Business

2.2.3 PROTEGO Pilot-Operated Breather Valve Product and Services

2.2.4 PROTEGO Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 PROTEGO Recent Developments/Updates

2.3 Groth Corporation

2.3.1 Groth Corporation Details

2.3.2 Groth Corporation Major Business

2.3.3 Groth Corporation Pilot-Operated Breather Valve Product and Services

2.3.4 Groth Corporation Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Groth Corporation Recent Developments/Updates

2.4 Baker Hughes

2.4.1 Baker Hughes Details

2.4.2 Baker Hughes Major Business

2.4.3 Baker Hughes Pilot-Operated Breather Valve Product and Services

2.4.4 Baker Hughes Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Baker Hughes Recent Developments/Updates

2.5 Curtiss-Wright

2.5.1 Curtiss-Wright Details

2.5.2 Curtiss-Wright Major Business

2.5.3 Curtiss-Wright Pilot-Operated Breather Valve Product and Services

2.5.4 Curtiss-Wright Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Curtiss-Wright Recent Developments/Updates

2.6 Circor

2.6.1 Circor Details

2.6.2 Circor Major Business

2.6.3 Circor Pilot-Operated Breather Valve Product and Services

2.6.4 Circor Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 Circor Recent Developments/Updates

2.7 Spirax Sarco

- 2.7.1 Spirax Sarco Details
- 2.7.2 Spirax Sarco Major Business
- 2.7.3 Spirax Sarco Pilot-Operated Breather Valve Product and Services
- 2.7.4 Spirax Sarco Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.7.5 Spirax Sarco Recent Developments/Updates
- 2.8 NTGD breather valve
  - 2.8.1 NTGD breather valve Details
  - 2.8.2 NTGD breather valve Major Business
  - 2.8.3 NTGD breather valve Pilot-Operated Breather Valve Product and Services
  - 2.8.4 NTGD breather valve Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 NTGD breather valve Recent Developments/Updates
- 2.9 Valvitalia Group
  - 2.9.1 Valvitalia Group Details
  - 2.9.2 Valvitalia Group Major Business
  - 2.9.3 Valvitalia Group Pilot-Operated Breather Valve Product and Services
  - 2.9.4 Valvitalia Group Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 Valvitalia Group Recent Developments/Updates
- 2.10 Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd
  - 2.10.1 Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Details
  - 2.10.2 Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Major Business
  - 2.10.3 Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Pilot-Operated Breather Valve Product and Services
  - 2.10.4 Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.10.5 Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Recent Developments/Updates
- 2.11 Jiangsu Bafang Safety Equipment Co., Ltd
  - 2.11.1 Jiangsu Bafang Safety Equipment Co., Ltd Details
  - 2.11.2 Jiangsu Bafang Safety Equipment Co., Ltd Major Business
  - 2.11.3 Jiangsu Bafang Safety Equipment Co., Ltd Pilot-Operated Breather Valve Product and Services
  - 2.11.4 Jiangsu Bafang Safety Equipment Co., Ltd Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.11.5 Jiangsu Bafang Safety Equipment Co., Ltd Recent Developments/Updates
- 2.12 Paske Valve Industry Shanghai Co., Ltd

- 2.12.1 Paske Valve Industry Shanghai Co., Ltd Details
- 2.12.2 Paske Valve Industry Shanghai Co., Ltd Major Business
- 2.12.3 Paske Valve Industry Shanghai Co., Ltd Pilot-Operated Breather Valve Product and Services
- 2.12.4 Paske Valve Industry Shanghai Co., Ltd Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.12.5 Paske Valve Industry Shanghai Co., Ltd Recent Developments/Updates
- 2.13 Shanghai Qizhong Valve Manufacturing Co., Ltd
  - 2.13.1 Shanghai Qizhong Valve Manufacturing Co., Ltd Details
  - 2.13.2 Shanghai Qizhong Valve Manufacturing Co., Ltd Major Business
  - 2.13.3 Shanghai Qizhong Valve Manufacturing Co., Ltd Pilot-Operated Breather Valve Product and Services
  - 2.13.4 Shanghai Qizhong Valve Manufacturing Co., Ltd Pilot-Operated Breather Valve Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.13.5 Shanghai Qizhong Valve Manufacturing Co., Ltd Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: PILOT-OPERATED BREATHER VALVE BY MANUFACTURER**

- 3.1 Global Pilot-Operated Breather Valve Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Pilot-Operated Breather Valve Revenue by Manufacturer (2021-2026)
- 3.3 Global Pilot-Operated Breather Valve Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Pilot-Operated Breather Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Pilot-Operated Breather Valve Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Pilot-Operated Breather Valve Manufacturer Market Share in 2025
- 3.5 Pilot-Operated Breather Valve Market: Overall Company Footprint Analysis
  - 3.5.1 Pilot-Operated Breather Valve Market: Region Footprint
  - 3.5.2 Pilot-Operated Breather Valve Market: Company Product Type Footprint
  - 3.5.3 Pilot-Operated Breather 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 Pilot-Operated Breather Valve Market Size by Region
  - 4.1.1 Global Pilot-Operated Breather Valve Sales Quantity by Region (2021-2032)

4.1.2 Global Pilot-Operated Breather Valve Consumption Value by Region (2021-2032)

4.1.3 Global Pilot-Operated Breather Valve Average Price by Region (2021-2032)

4.2 North America Pilot-Operated Breather Valve Consumption Value (2021-2032)

4.3 Europe Pilot-Operated Breather Valve Consumption Value (2021-2032)

4.4 Asia-Pacific Pilot-Operated Breather Valve Consumption Value (2021-2032)

4.5 South America Pilot-Operated Breather Valve Consumption Value (2021-2032)

4.6 Middle East & Africa Pilot-Operated Breather Valve Consumption Value (2021-2032)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Pilot-Operated Breather Valve Sales Quantity by Type (2021-2032)

5.2 Global Pilot-Operated Breather Valve Consumption Value by Type (2021-2032)

5.3 Global Pilot-Operated Breather Valve Average Price by Type (2021-2032)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Pilot-Operated Breather Valve Sales Quantity by Application (2021-2032)

6.2 Global Pilot-Operated Breather Valve Consumption Value by Application (2021-2032)

6.3 Global Pilot-Operated Breather Valve Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

7.1 North America Pilot-Operated Breather Valve Sales Quantity by Type (2021-2032)

7.2 North America Pilot-Operated Breather Valve Sales Quantity by Application (2021-2032)

7.3 North America Pilot-Operated Breather Valve Market Size by Country

7.3.1 North America Pilot-Operated Breather Valve Sales Quantity by Country (2021-2032)

7.3.2 North America Pilot-Operated Breather 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 Pilot-Operated Breather Valve Sales Quantity by Type (2021-2032)
- 8.2 Europe Pilot-Operated Breather Valve Sales Quantity by Application (2021-2032)
- 8.3 Europe Pilot-Operated Breather Valve Market Size by Country
  - 8.3.1 Europe Pilot-Operated Breather Valve Sales Quantity by Country (2021-2032)
  - 8.3.2 Europe Pilot-Operated Breather 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 Pilot-Operated Breather Valve Sales Quantity by Type (2021-2032)
- 9.2 Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Pilot-Operated Breather Valve Market Size by Region
  - 9.3.1 Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Region (2021-2032)
  - 9.3.2 Asia-Pacific Pilot-Operated Breather 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 Pilot-Operated Breather Valve Sales Quantity by Type (2021-2032)
- 10.2 South America Pilot-Operated Breather Valve Sales Quantity by Application (2021-2032)
- 10.3 South America Pilot-Operated Breather Valve Market Size by Country
  - 10.3.1 South America Pilot-Operated Breather Valve Sales Quantity by Country (2021-2032)
  - 10.3.2 South America Pilot-Operated Breather 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 Pilot-Operated Breather Valve Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Pilot-Operated Breather Valve Market Size by Country
  - 11.3.1 Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa Pilot-Operated Breather 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 Pilot-Operated Breather Valve Market Drivers
- 12.2 Pilot-Operated Breather Valve Market Restraints
- 12.3 Pilot-Operated Breather 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 Pilot-Operated Breather Valve and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Pilot-Operated Breather Valve
- 13.3 Pilot-Operated Breather 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 Pilot-Operated Breather Valve Typical Distributors

## 14.3 Pilot-Operated Breather 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 Pilot-Operated Breather Valve Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Pilot-Operated Breather Valve Consumption Value by Function, (USD Million), 2021 & 2025 & 2032

Table 3. Global Pilot-Operated Breather Valve Consumption Value by Leakproof Material, (USD Million), 2021 & 2025 & 2032

Table 4. Global Pilot-Operated Breather Valve Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. ITT Engineered Valves Basic Information, Manufacturing Base and Competitors

Table 6. ITT Engineered Valves Major Business

Table 7. ITT Engineered Valves Pilot-Operated Breather Valve Product and Services

Table 8. ITT Engineered Valves Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. ITT Engineered Valves Recent Developments/Updates

Table 10. PROTEGO Basic Information, Manufacturing Base and Competitors

Table 11. PROTEGO Major Business

Table 12. PROTEGO Pilot-Operated Breather Valve Product and Services

Table 13. PROTEGO Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. PROTEGO Recent Developments/Updates

Table 15. Groth Corporation Basic Information, Manufacturing Base and Competitors

Table 16. Groth Corporation Major Business

Table 17. Groth Corporation Pilot-Operated Breather Valve Product and Services

Table 18. Groth Corporation Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Groth Corporation Recent Developments/Updates

Table 20. Baker Hughes Basic Information, Manufacturing Base and Competitors

Table 21. Baker Hughes Major Business

Table 22. Baker Hughes Pilot-Operated Breather Valve Product and Services

Table 23. Baker Hughes Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 24. Baker Hughes Recent Developments/Updates
- Table 25. Curtiss-Wright Basic Information, Manufacturing Base and Competitors
- Table 26. Curtiss-Wright Major Business
- Table 27. Curtiss-Wright Pilot-Operated Breather Valve Product and Services
- Table 28. Curtiss-Wright Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 29. Curtiss-Wright Recent Developments/Updates
- Table 30. Circor Basic Information, Manufacturing Base and Competitors
- Table 31. Circor Major Business
- Table 32. Circor Pilot-Operated Breather Valve Product and Services
- Table 33. Circor Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 34. Circor Recent Developments/Updates
- Table 35. Spirax Sarco Basic Information, Manufacturing Base and Competitors
- Table 36. Spirax Sarco Major Business
- Table 37. Spirax Sarco Pilot-Operated Breather Valve Product and Services
- Table 38. Spirax Sarco Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 39. Spirax Sarco Recent Developments/Updates
- Table 40. NTGD breather valve Basic Information, Manufacturing Base and Competitors
- Table 41. NTGD breather valve Major Business
- Table 42. NTGD breather valve Pilot-Operated Breather Valve Product and Services
- Table 43. NTGD breather valve Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 44. NTGD breather valve Recent Developments/Updates
- Table 45. Valvitalia Group Basic Information, Manufacturing Base and Competitors
- Table 46. Valvitalia Group Major Business
- Table 47. Valvitalia Group Pilot-Operated Breather Valve Product and Services
- Table 48. Valvitalia Group Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 49. Valvitalia Group Recent Developments/Updates
- Table 50. Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Basic Information, Manufacturing Base and Competitors
- Table 51. Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Major Business
- Table 52. Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Pilot-Operated

## Breather Valve Product and Services

Table 53. Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Jiangsu Zhuoze Environmental Protection Equipment Co., Ltd Recent Developments/Updates

Table 55. Jiangsu Bafang Safety Equipment Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 56. Jiangsu Bafang Safety Equipment Co., Ltd Major Business

Table 57. Jiangsu Bafang Safety Equipment Co., Ltd Pilot-Operated Breather Valve Product and Services

Table 58. Jiangsu Bafang Safety Equipment Co., Ltd Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Jiangsu Bafang Safety Equipment Co., Ltd Recent Developments/Updates

Table 60. Paske Valve Industry Shanghai Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 61. Paske Valve Industry Shanghai Co., Ltd Major Business

Table 62. Paske Valve Industry Shanghai Co., Ltd Pilot-Operated Breather Valve Product and Services

Table 63. Paske Valve Industry Shanghai Co., Ltd Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Paske Valve Industry Shanghai Co., Ltd Recent Developments/Updates

Table 65. Shanghai Qizhong Valve Manufacturing Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 66. Shanghai Qizhong Valve Manufacturing Co., Ltd Major Business

Table 67. Shanghai Qizhong Valve Manufacturing Co., Ltd Pilot-Operated Breather Valve Product and Services

Table 68. Shanghai Qizhong Valve Manufacturing Co., Ltd Pilot-Operated Breather Valve Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Shanghai Qizhong Valve Manufacturing Co., Ltd Recent Developments/Updates

Table 70. Global Pilot-Operated Breather Valve Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 71. Global Pilot-Operated Breather Valve Revenue by Manufacturer (2021-2026) & (USD Million)

Table 72. Global Pilot-Operated Breather Valve Average Price by Manufacturer

(2021-2026) & (US\$/Unit)

Table 73. Market Position of Manufacturers in Pilot-Operated Breather Valve, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 74. Head Office and Pilot-Operated Breather Valve Production Site of Key Manufacturer

Table 75. Pilot-Operated Breather Valve Market: Company Product Type Footprint

Table 76. Pilot-Operated Breather Valve Market: Company Product Application Footprint

Table 77. Pilot-Operated Breather Valve New Market Entrants and Barriers to Market Entry

Table 78. Pilot-Operated Breather Valve Mergers, Acquisition, Agreements, and Collaborations

Table 79. Global Pilot-Operated Breather Valve Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 80. Global Pilot-Operated Breather Valve Sales Quantity by Region (2021-2026) & (K Units)

Table 81. Global Pilot-Operated Breather Valve Sales Quantity by Region (2027-2032) & (K Units)

Table 82. Global Pilot-Operated Breather Valve Consumption Value by Region (2021-2026) & (USD Million)

Table 83. Global Pilot-Operated Breather Valve Consumption Value by Region (2027-2032) & (USD Million)

Table 84. Global Pilot-Operated Breather Valve Average Price by Region (2021-2026) & (US\$/Unit)

Table 85. Global Pilot-Operated Breather Valve Average Price by Region (2027-2032) & (US\$/Unit)

Table 86. Global Pilot-Operated Breather Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 87. Global Pilot-Operated Breather Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 88. Global Pilot-Operated Breather Valve Consumption Value by Type (2021-2026) & (USD Million)

Table 89. Global Pilot-Operated Breather Valve Consumption Value by Type (2027-2032) & (USD Million)

Table 90. Global Pilot-Operated Breather Valve Average Price by Type (2021-2026) & (US\$/Unit)

Table 91. Global Pilot-Operated Breather Valve Average Price by Type (2027-2032) & (US\$/Unit)

Table 92. Global Pilot-Operated Breather Valve Sales Quantity by Application

(2021-2026) & (K Units)

Table 93. Global Pilot-Operated Breather Valve Sales Quantity by Application

(2027-2032) & (K Units)

Table 94. Global Pilot-Operated Breather Valve Consumption Value by Application

(2021-2026) & (USD Million)

Table 95. Global Pilot-Operated Breather Valve Consumption Value by Application

(2027-2032) & (USD Million)

Table 96. Global Pilot-Operated Breather Valve Average Price by Application

(2021-2026) & (US\$/Unit)

Table 97. Global Pilot-Operated Breather Valve Average Price by Application

(2027-2032) & (US\$/Unit)

Table 98. North America Pilot-Operated Breather Valve Sales Quantity by Type

(2021-2026) & (K Units)

Table 99. North America Pilot-Operated Breather Valve Sales Quantity by Type

(2027-2032) & (K Units)

Table 100. North America Pilot-Operated Breather Valve Sales Quantity by Application

(2021-2026) & (K Units)

Table 101. North America Pilot-Operated Breather Valve Sales Quantity by Application

(2027-2032) & (K Units)

Table 102. North America Pilot-Operated Breather Valve Sales Quantity by Country

(2021-2026) & (K Units)

Table 103. North America Pilot-Operated Breather Valve Sales Quantity by Country

(2027-2032) & (K Units)

Table 104. North America Pilot-Operated Breather Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 105. North America Pilot-Operated Breather Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 106. Europe Pilot-Operated Breather Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 107. Europe Pilot-Operated Breather Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 108. Europe Pilot-Operated Breather Valve Sales Quantity by Application (2021-2026) & (K Units)

Table 109. Europe Pilot-Operated Breather Valve Sales Quantity by Application (2027-2032) & (K Units)

Table 110. Europe Pilot-Operated Breather Valve Sales Quantity by Country (2021-2026) & (K Units)

Table 111. Europe Pilot-Operated Breather Valve Sales Quantity by Country (2027-2032) & (K Units)

Table 112. Europe Pilot-Operated Breather Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 113. Europe Pilot-Operated Breather Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 114. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 115. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 116. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Application (2021-2026) & (K Units)

Table 117. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Application (2027-2032) & (K Units)

Table 118. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Region (2021-2026) & (K Units)

Table 119. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity by Region (2027-2032) & (K Units)

Table 120. Asia-Pacific Pilot-Operated Breather Valve Consumption Value by Region (2021-2026) & (USD Million)

Table 121. Asia-Pacific Pilot-Operated Breather Valve Consumption Value by Region (2027-2032) & (USD Million)

Table 122. South America Pilot-Operated Breather Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 123. South America Pilot-Operated Breather Valve Sales Quantity by Type (2027-2032) & (K Units)

Table 124. South America Pilot-Operated Breather Valve Sales Quantity by Application (2021-2026) & (K Units)

Table 125. South America Pilot-Operated Breather Valve Sales Quantity by Application (2027-2032) & (K Units)

Table 126. South America Pilot-Operated Breather Valve Sales Quantity by Country (2021-2026) & (K Units)

Table 127. South America Pilot-Operated Breather Valve Sales Quantity by Country (2027-2032) & (K Units)

Table 128. South America Pilot-Operated Breather Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 129. South America Pilot-Operated Breather Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 130. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Type (2021-2026) & (K Units)

Table 131. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Type

(2027-2032) & (K Units)

Table 132. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Application (2021-2026) & (K Units)

Table 133. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Application (2027-2032) & (K Units)

Table 134. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Country (2021-2026) & (K Units)

Table 135. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity by Country (2027-2032) & (K Units)

Table 136. Middle East & Africa Pilot-Operated Breather Valve Consumption Value by Country (2021-2026) & (USD Million)

Table 137. Middle East & Africa Pilot-Operated Breather Valve Consumption Value by Country (2027-2032) & (USD Million)

Table 138. Pilot-Operated Breather Valve Raw Material

Table 139. Key Manufacturers of Pilot-Operated Breather Valve Raw Materials

Table 140. Pilot-Operated Breather Valve Typical Distributors

Table 141. Pilot-Operated Breather Valve Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Pilot-Operated Breather Valve Picture

Figure 2. Global Pilot-Operated Breather Valve Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Pilot-Operated Breather Valve Revenue Market Share by Type in 2025

Figure 4. Internal Pilot-operated Breather Valve Examples

Figure 5. External Pilot-operated Breather Valve Examples

Figure 6. Global Pilot-Operated Breather Valve Revenue by Function, (USD Million), 2021 & 2025 & 2032

Figure 7. Global Pilot-Operated Breather Valve Revenue Market Share by Function in 2025

Figure 8. Balanced Pilot Breathing Valve Examples

Figure 9. Fireproof Pilot Breathing Valve Examples

Figure 10. Dual Setpoint Pilot Breathing Valve Examples

Figure 11. Global Pilot-Operated Breather Valve Revenue by Leakproof Material, (USD Million), 2021 & 2025 & 2032

Figure 12. Global Pilot-Operated Breather Valve Revenue Market Share by Leakproof Material in 2025

Figure 13. Soft Seated Examples

Figure 14. Metal Seated Examples

Figure 15. Global Pilot-Operated Breather Valve Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 16. Global Pilot-Operated Breather Valve Revenue Market Share by Application in 2025

Figure 17. Petrochemical Industry Examples

Figure 18. Coatings Industry Examples

Figure 19. Others Examples

Figure 20. Global Pilot-Operated Breather Valve Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 21. Global Pilot-Operated Breather Valve Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 22. Global Pilot-Operated Breather Valve Sales Quantity (2021-2032) & (K Units)

Figure 23. Global Pilot-Operated Breather Valve Price (2021-2032) & (US\$/Unit)

Figure 24. Global Pilot-Operated Breather Valve Sales Quantity Market Share by Manufacturer in 2025

Figure 25. Global Pilot-Operated Breather Valve Revenue Market Share by

Manufacturer in 2025

Figure 26. Producer Shipments of Pilot-Operated Breather Valve by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 27. Top 3 Pilot-Operated Breather Valve Manufacturer (Revenue) Market Share in 2025

Figure 28. Top 6 Pilot-Operated Breather Valve Manufacturer (Revenue) Market Share in 2025

Figure 29. Global Pilot-Operated Breather Valve Sales Quantity Market Share by Region (2021-2032)

Figure 30. Global Pilot-Operated Breather Valve Consumption Value Market Share by Region (2021-2032)

Figure 31. North America Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 32. Europe Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 33. Asia-Pacific Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 34. South America Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 35. Middle East & Africa Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 36. Global Pilot-Operated Breather Valve Sales Quantity Market Share by Type (2021-2032)

Figure 37. Global Pilot-Operated Breather Valve Consumption Value Market Share by Type (2021-2032)

Figure 38. Global Pilot-Operated Breather Valve Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. Global Pilot-Operated Breather Valve Sales Quantity Market Share by Application (2021-2032)

Figure 40. Global Pilot-Operated Breather Valve Revenue Market Share by Application (2021-2032)

Figure 41. Global Pilot-Operated Breather Valve Average Price by Application (2021-2032) & (US\$/Unit)

Figure 42. North America Pilot-Operated Breather Valve Sales Quantity Market Share by Type (2021-2032)

Figure 43. North America Pilot-Operated Breather Valve Sales Quantity Market Share by Application (2021-2032)

Figure 44. North America Pilot-Operated Breather Valve Sales Quantity Market Share by Country (2021-2032)

Figure 45. North America Pilot-Operated Breather Valve Consumption Value Market Share by Country (2021-2032)

Figure 46. United States Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 47. Canada Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 48. Mexico Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 49. Europe Pilot-Operated Breather Valve Sales Quantity Market Share by Type (2021-2032)

Figure 50. Europe Pilot-Operated Breather Valve Sales Quantity Market Share by Application (2021-2032)

Figure 51. Europe Pilot-Operated Breather Valve Sales Quantity Market Share by Country (2021-2032)

Figure 52. Europe Pilot-Operated Breather Valve Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 54. France Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity Market Share by Type (2021-2032)

Figure 59. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Pilot-Operated Breather Valve Sales Quantity Market Share by Region (2021-2032)

Figure 61. Asia-Pacific Pilot-Operated Breather Valve Consumption Value Market Share by Region (2021-2032)

Figure 62. China Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 63. Japan Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 64. South Korea Pilot-Operated Breather Valve Consumption Value (2021-2032)

& (USD Million)

Figure 65. India Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 66. Southeast Asia Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 67. Australia Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 68. South America Pilot-Operated Breather Valve Sales Quantity Market Share by Type (2021-2032)

Figure 69. South America Pilot-Operated Breather Valve Sales Quantity Market Share by Application (2021-2032)

Figure 70. South America Pilot-Operated Breather Valve Sales Quantity Market Share by Country (2021-2032)

Figure 71. South America Pilot-Operated Breather Valve Consumption Value Market Share by Country (2021-2032)

Figure 72. Brazil Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 73. Argentina Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 74. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity Market Share by Type (2021-2032)

Figure 75. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity Market Share by Application (2021-2032)

Figure 76. Middle East & Africa Pilot-Operated Breather Valve Sales Quantity Market Share by Country (2021-2032)

Figure 77. Middle East & Africa Pilot-Operated Breather Valve Consumption Value Market Share by Country (2021-2032)

Figure 78. Turkey Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 79. Egypt Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 80. Saudi Arabia Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 81. South Africa Pilot-Operated Breather Valve Consumption Value (2021-2032) & (USD Million)

Figure 82. Pilot-Operated Breather Valve Market Drivers

Figure 83. Pilot-Operated Breather Valve Market Restraints

Figure 84. Pilot-Operated Breather Valve Market Trends

Figure 85. Porters Five Forces Analysis

Figure 86. Manufacturing Cost Structure Analysis of Pilot-Operated Breather Valve in 2025

Figure 87. Manufacturing Process Analysis of Pilot-Operated Breather Valve

Figure 88. Pilot-Operated Breather 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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