

Global High Vacuum Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Vacuum Valve market size is expected to reach \$ 1463 million by 2032, rising at a market growth of 4.9% CAGR during the forecast period (2026-2032).

The High Vacuum Valve is a fluid control device specifically engineered to maintain extremely low pressure environments, characterized by a sealing barrier capable of withstanding significant pressure differentials and eliminating any permeation. Through rigorous sealing structures and low outgassing materials, the valve ensures superior isolation performance in the molecular flow regime, effectively blocking airflow that would compromise the vacuum level. This design minimizes outgassing and leakage rates on internal surfaces, thereby guaranteeing the purity of the process environment and pressure stability. Its exceptional sealing integrity and conductance capabilities allow the system to rapidly attain and sustain the required negative pressure baseline, eliminating operational failure risks caused by pressure fluctuations. In 2025, global High Vacuum Valve production reached approximately 1.96 million units with an average global market price of around US\$520 per unit.

The future development of the High Vacuum Valve industry will deeply benefit from the domestic substitution process of high-end equipment manufacturing and the technological iteration of strategic emerging industries. The 'Implementation Opinions on Improving the Reliability of the Manufacturing Industry' issued by the Ministry of Industry and Information Technology and other departments explicitly proposes to improve the performance stability of basic industrial components. This urges High Vacuum Valve enterprises to breakthrough ultra-precision processing and extreme sealing technologies to solve 'bottleneck' problems in key fields, thereby obtaining higher technological premiums. From the perspective of corporate profitability logic, KYKY emphasized in official news that high-end valve products for semiconductors and

aerospace possess significant high-gross-margin characteristics and are the core drivers of corporate revenue growth, propelling the business structure to climb towards the high end of the value chain. Furthermore, national policies regarding expanding domestic demand and promoting the localization of scientific instruments provide broad market access opportunities for local High Vacuum Valve manufacturers. Leading enterprises have effectively reduced energy consumption and production costs by optimizing supply chain management and responding to the green manufacturing initiatives of the Ministry of Ecology and Environment, thereby further enhancing profit margins. Overall, enterprises possessing independent intellectual property rights for core technologies and capable of meeting stringent operating standards will establish sustained competitive advantages and profit growth points during the process of increasing industry concentration.

This report studies the global High Vacuum Valve production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Vacuum 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 High Vacuum Valve that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Vacuum Valve total production and demand, 2021-2032, (K Units)

Global High Vacuum Valve total production value, 2021-2032, (USD Million)

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

Global High Vacuum Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High Vacuum Valve domestic production, consumption, key domestic manufacturers and share

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

Global High Vacuum Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High Vacuum Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High Vacuum 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 VAT, Pfeiffer Vacuum, CKD, MKS, SMC Corporation, Presys, ANCORP, Kurt J. Lesker, Agilent Technologies, Inc, Key High Vacuum Products, Inc, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High Vacuum 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 High Vacuum Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Vacuum Valve Market, Segmentation by Type:

Manual

Pneumatic

Global High Vacuum Valve Market, Segmentation by Vacuum Level:

10⁻² to 10⁻³ Pa

10⁻³ to 10⁻⁴ Pa

10⁻⁴ to 10⁻⁵ Pa

10⁻⁵ to 10⁻⁶ Pa

Global High Vacuum Valve Market, Segmentation by Nominal Diameter:

DN10 to DN25

DN40 to DN80

DN100 to DN200

Global High Vacuum Valve Market, Segmentation by Application:

Metallurgy

Petrochemical

Others

Companies Profiled:

VAT

Pfeiffer Vacuum

CKD

MKS

SMC Corporation

Presys

ANCORP

Kurt J. Lesker

Agilent Technologies, Inc

Key High Vacuum Products, Inc

MDC Precision

HVA LLC

Thermionics Vacuum Products

Highlight Tech Corp (HTC)

Fortune Precision

Jiangsu Shentong

Kinglai Hygienic Materials

Key Questions Answered:

1. How big is the global High Vacuum Valve market?
2. What is the demand of the global High Vacuum Valve market?
3. What is the year over year growth of the global High Vacuum Valve market?
4. What is the production and production value of the global High Vacuum Valve

market?

5. Who are the key producers in the global High Vacuum Valve market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World High Vacuum Valve Demand (2021-2032)
- 2.2 World High Vacuum Valve Consumption by Region
 - 2.2.1 World High Vacuum Valve Consumption by Region (2021-2026)
 - 2.2.2 World High Vacuum Valve Consumption Forecast by Region (2027-2032)
- 2.3 United States High Vacuum Valve Consumption (2021-2032)
- 2.4 China High Vacuum Valve Consumption (2021-2032)
- 2.5 Europe High Vacuum Valve Consumption (2021-2032)
- 2.6 Japan High Vacuum Valve Consumption (2021-2032)
- 2.7 South Korea High Vacuum Valve Consumption (2021-2032)
- 2.8 ASEAN High Vacuum Valve Consumption (2021-2032)
- 2.9 India High Vacuum Valve Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World High Vacuum Valve Production Value by Manufacturer (2021-2026)

- 3.2 World High Vacuum Valve Production by Manufacturer (2021-2026)
- 3.3 World High Vacuum Valve Average Price by Manufacturer (2021-2026)
- 3.4 High Vacuum Valve Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global High Vacuum Valve Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for High Vacuum Valve in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for High Vacuum Valve in 2025
- 3.6 High Vacuum Valve Market: Overall Company Footprint Analysis
 - 3.6.1 High Vacuum Valve Market: Region Footprint
 - 3.6.2 High Vacuum Valve Market: Company Product Type Footprint
 - 3.6.3 High Vacuum 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: High Vacuum Valve Production Value Comparison
 - 4.1.1 United States VS China: High Vacuum Valve Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: High Vacuum Valve Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: High Vacuum Valve Production Comparison
 - 4.2.1 United States VS China: High Vacuum Valve Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: High Vacuum Valve Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: High Vacuum Valve Consumption Comparison
 - 4.3.1 United States VS China: High Vacuum Valve Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: High Vacuum Valve Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based High Vacuum Valve Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based High Vacuum Valve Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Vacuum Valve Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Vacuum Valve Production (2021-2026)

4.5 China Based High Vacuum Valve Manufacturers and Market Share

4.5.1 China Based High Vacuum Valve Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Vacuum Valve Production Value (2021-2026)

4.5.3 China Based Manufacturers High Vacuum Valve Production (2021-2026)

4.6 Rest of World Based High Vacuum Valve Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Vacuum Valve Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Vacuum Valve Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Vacuum Valve Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High Vacuum Valve Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Manual

5.2.2 Pneumatic

5.3 Market Segment by Type

5.3.1 World High Vacuum Valve Production by Type (2021-2032)

5.3.2 World High Vacuum Valve Production Value by Type (2021-2032)

5.3.3 World High Vacuum Valve Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VACUUM LEVEL

6.1 World High Vacuum Valve Market Size Overview by Vacuum Level: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Vacuum Level

6.2.1 10⁻¹ Pa

6.2.2 10⁻² Pa

6.2.3 10⁻³ Pa

6.2.4 10⁻⁴ Pa

6.3 Market Segment by Vacuum Level

6.3.1 World High Vacuum Valve Production by Vacuum Level (2021-2032)

6.3.2 World High Vacuum Valve Production Value by Vacuum Level (2021-2032)

6.3.3 World High Vacuum Valve Average Price by Vacuum Level (2021-2032)

7 MARKET ANALYSIS BY NOMINAL DIAMETER

7.1 World High Vacuum Valve Market Size Overview by Nominal Diameter: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Nominal Diameter

7.2.1 DN10?DN25

7.2.2 DN40?DN80

7.2.3 DN100?DN200

7.3 Market Segment by Nominal Diameter

7.3.1 World High Vacuum Valve Production by Nominal Diameter (2021-2032)

7.3.2 World High Vacuum Valve Production Value by Nominal Diameter (2021-2032)

7.3.3 World High Vacuum Valve Average Price by Nominal Diameter (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High Vacuum Valve Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Metallurgy

8.2.2 Petrochemical

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World High Vacuum Valve Production by Application (2021-2032)

8.3.2 World High Vacuum Valve Production Value by Application (2021-2032)

8.3.3 World High Vacuum Valve Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 VAT

9.1.1 VAT Details

9.1.2 VAT Major Business

9.1.3 VAT High Vacuum Valve Product and Services

9.1.4 VAT High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 VAT Recent Developments/Updates

9.1.6 VAT Competitive Strengths & Weaknesses

9.2 Pfeiffer Vacuum

- 9.2.1 Pfeiffer Vacuum Details
- 9.2.2 Pfeiffer Vacuum Major Business
- 9.2.3 Pfeiffer Vacuum High Vacuum Valve Product and Services
- 9.2.4 Pfeiffer Vacuum High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Pfeiffer Vacuum Recent Developments/Updates
- 9.2.6 Pfeiffer Vacuum Competitive Strengths & Weaknesses
- 9.3 CKD
 - 9.3.1 CKD Details
 - 9.3.2 CKD Major Business
 - 9.3.3 CKD High Vacuum Valve Product and Services
 - 9.3.4 CKD High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 CKD Recent Developments/Updates
 - 9.3.6 CKD Competitive Strengths & Weaknesses
- 9.4 MKS
 - 9.4.1 MKS Details
 - 9.4.2 MKS Major Business
 - 9.4.3 MKS High Vacuum Valve Product and Services
 - 9.4.4 MKS High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 MKS Recent Developments/Updates
 - 9.4.6 MKS Competitive Strengths & Weaknesses
- 9.5 SMC Corporation
 - 9.5.1 SMC Corporation Details
 - 9.5.2 SMC Corporation Major Business
 - 9.5.3 SMC Corporation High Vacuum Valve Product and Services
 - 9.5.4 SMC Corporation High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 SMC Corporation Recent Developments/Updates
 - 9.5.6 SMC Corporation Competitive Strengths & Weaknesses
- 9.6 Presys
 - 9.6.1 Presys Details
 - 9.6.2 Presys Major Business
 - 9.6.3 Presys High Vacuum Valve Product and Services
 - 9.6.4 Presys High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Presys Recent Developments/Updates
 - 9.6.6 Presys Competitive Strengths & Weaknesses

9.7 ANCORP

9.7.1 ANCORP Details

9.7.2 ANCORP Major Business

9.7.3 ANCORP High Vacuum Valve Product and Services

9.7.4 ANCORP High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 ANCORP Recent Developments/Updates

9.7.6 ANCORP Competitive Strengths & Weaknesses

9.8 Kurt J. Lesker

9.8.1 Kurt J. Lesker Details

9.8.2 Kurt J. Lesker Major Business

9.8.3 Kurt J. Lesker High Vacuum Valve Product and Services

9.8.4 Kurt J. Lesker High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Kurt J. Lesker Recent Developments/Updates

9.8.6 Kurt J. Lesker Competitive Strengths & Weaknesses

9.9 Agilent Technologies, Inc

9.9.1 Agilent Technologies, Inc Details

9.9.2 Agilent Technologies, Inc Major Business

9.9.3 Agilent Technologies, Inc High Vacuum Valve Product and Services

9.9.4 Agilent Technologies, Inc High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Agilent Technologies, Inc Recent Developments/Updates

9.9.6 Agilent Technologies, Inc Competitive Strengths & Weaknesses

9.10 Key High Vacuum Products, Inc

9.10.1 Key High Vacuum Products, Inc Details

9.10.2 Key High Vacuum Products, Inc Major Business

9.10.3 Key High Vacuum Products, Inc High Vacuum Valve Product and Services

9.10.4 Key High Vacuum Products, Inc High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Key High Vacuum Products, Inc Recent Developments/Updates

9.10.6 Key High Vacuum Products, Inc Competitive Strengths & Weaknesses

9.11 MDC Precision

9.11.1 MDC Precision Details

9.11.2 MDC Precision Major Business

9.11.3 MDC Precision High Vacuum Valve Product and Services

9.11.4 MDC Precision High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 MDC Precision Recent Developments/Updates

- 9.11.6 MDC Precision Competitive Strengths & Weaknesses
- 9.12 HVA LLC
 - 9.12.1 HVA LLC Details
 - 9.12.2 HVA LLC Major Business
 - 9.12.3 HVA LLC High Vacuum Valve Product and Services
 - 9.12.4 HVA LLC High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 HVA LLC Recent Developments/Updates
 - 9.12.6 HVA LLC Competitive Strengths & Weaknesses
- 9.13 Thermionics Vacuum Products
 - 9.13.1 Thermionics Vacuum Products Details
 - 9.13.2 Thermionics Vacuum Products Major Business
 - 9.13.3 Thermionics Vacuum Products High Vacuum Valve Product and Services
 - 9.13.4 Thermionics Vacuum Products High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Thermionics Vacuum Products Recent Developments/Updates
 - 9.13.6 Thermionics Vacuum Products Competitive Strengths & Weaknesses
- 9.14 Highlight Tech Corp (HTC)
 - 9.14.1 Highlight Tech Corp (HTC) Details
 - 9.14.2 Highlight Tech Corp (HTC) Major Business
 - 9.14.3 Highlight Tech Corp (HTC) High Vacuum Valve Product and Services
 - 9.14.4 Highlight Tech Corp (HTC) High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Highlight Tech Corp (HTC) Recent Developments/Updates
 - 9.14.6 Highlight Tech Corp (HTC) Competitive Strengths & Weaknesses
- 9.15 Fortune Precision
 - 9.15.1 Fortune Precision Details
 - 9.15.2 Fortune Precision Major Business
 - 9.15.3 Fortune Precision High Vacuum Valve Product and Services
 - 9.15.4 Fortune Precision High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Fortune Precision Recent Developments/Updates
 - 9.15.6 Fortune Precision Competitive Strengths & Weaknesses
- 9.16 Jiangsu Shentong
 - 9.16.1 Jiangsu Shentong Details
 - 9.16.2 Jiangsu Shentong Major Business
 - 9.16.3 Jiangsu Shentong High Vacuum Valve Product and Services
 - 9.16.4 Jiangsu Shentong High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.16.5 Jiangsu Shentong Recent Developments/Updates
- 9.16.6 Jiangsu Shentong Competitive Strengths & Weaknesses
- 9.17 Kinglai Hygienic Materials
 - 9.17.1 Kinglai Hygienic Materials Details
 - 9.17.2 Kinglai Hygienic Materials Major Business
 - 9.17.3 Kinglai Hygienic Materials High Vacuum Valve Product and Services
 - 9.17.4 Kinglai Hygienic Materials High Vacuum Valve Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Kinglai Hygienic Materials Recent Developments/Updates
 - 9.17.6 Kinglai Hygienic Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 High Vacuum Valve Industry Chain
- 10.2 High Vacuum Valve Upstream Analysis
 - 10.2.1 High Vacuum Valve Core Raw Materials
 - 10.2.2 Main Manufacturers of High Vacuum Valve Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 High Vacuum Valve Production Mode
- 10.6 High Vacuum Valve Procurement Model
- 10.7 High Vacuum Valve Industry Sales Model and Sales Channels
 - 10.7.1 High Vacuum Valve Sales Model
 - 10.7.2 High Vacuum 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 High Vacuum Valve Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World High Vacuum Valve Production Value by Region (2021-2026) & (USD Million)
- Table 3. World High Vacuum Valve Production Value by Region (2027-2032) & (USD Million)
- Table 4. World High Vacuum Valve Production Value Market Share by Region (2021-2026)
- Table 5. World High Vacuum Valve Production Value Market Share by Region (2027-2032)
- Table 6. World High Vacuum Valve Production by Region (2021-2026) & (K Units)
- Table 7. World High Vacuum Valve Production by Region (2027-2032) & (K Units)
- Table 8. World High Vacuum Valve Production Market Share by Region (2021-2026)
- Table 9. World High Vacuum Valve Production Market Share by Region (2027-2032)
- Table 10. World High Vacuum Valve Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World High Vacuum Valve Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. High Vacuum Valve Major Market Trends
- Table 13. World High Vacuum Valve Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World High Vacuum Valve Consumption by Region (2021-2026) & (K Units)
- Table 15. World High Vacuum Valve Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World High Vacuum Valve Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key High Vacuum Valve Producers in 2025
- Table 18. World High Vacuum Valve Production by Manufacturer (2021-2026) & (K Units)
- Table 19. Production Market Share of Key High Vacuum Valve Producers in 2025
- Table 20. World High Vacuum Valve Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 21. Global High Vacuum Valve Company Evaluation Quadrant
- Table 22. World High Vacuum Valve Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Vacuum Valve Production Site of Key Manufacturer

Table 24. High Vacuum Valve Market: Company Product Type Footprint

Table 25. High Vacuum Valve Market: Company Product Application Footprint

Table 26. High Vacuum Valve Competitive Factors

Table 27. High Vacuum Valve New Entrant and Capacity Expansion Plans

Table 28. High Vacuum Valve Mergers & Acquisitions Activity

Table 29. United States VS China High Vacuum Valve Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Vacuum Valve Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China High Vacuum Valve Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based High Vacuum Valve Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Vacuum Valve Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Vacuum Valve Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Vacuum Valve Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers High Vacuum Valve Production Market Share (2021-2026)

Table 37. China Based High Vacuum Valve Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Vacuum Valve Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Vacuum Valve Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Vacuum Valve Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers High Vacuum Valve Production Market Share (2021-2026)

Table 42. Rest of World Based High Vacuum Valve Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Vacuum Valve Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Vacuum Valve Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Vacuum Valve Production,

(2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers High Vacuum Valve Production Market Share (2021-2026)

Table 47. World High Vacuum Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Vacuum Valve Production by Type (2021-2026) & (K Units)

Table 49. World High Vacuum Valve Production by Type (2027-2032) & (K Units)

Table 50. World High Vacuum Valve Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Vacuum Valve Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Vacuum Valve Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High Vacuum Valve Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High Vacuum Valve Production Value by Vacuum Level, (USD Million), 2021 & 2025 & 2032

Table 55. World High Vacuum Valve Production by Vacuum Level (2021-2026) & (K Units)

Table 56. World High Vacuum Valve Production by Vacuum Level (2027-2032) & (K Units)

Table 57. World High Vacuum Valve Production Value by Vacuum Level (2021-2026) & (USD Million)

Table 58. World High Vacuum Valve Production Value by Vacuum Level (2027-2032) & (USD Million)

Table 59. World High Vacuum Valve Average Price by Vacuum Level (2021-2026) & (US\$/Unit)

Table 60. World High Vacuum Valve Average Price by Vacuum Level (2027-2032) & (US\$/Unit)

Table 61. World High Vacuum Valve Production Value by Nominal Diameter, (USD Million), 2021 & 2025 & 2032

Table 62. World High Vacuum Valve Production by Nominal Diameter (2021-2026) & (K Units)

Table 63. World High Vacuum Valve Production by Nominal Diameter (2027-2032) & (K Units)

Table 64. World High Vacuum Valve Production Value by Nominal Diameter (2021-2026) & (USD Million)

Table 65. World High Vacuum Valve Production Value by Nominal Diameter (2027-2032) & (USD Million)

Table 66. World High Vacuum Valve Average Price by Nominal Diameter (2021-2026) & (US\$/Unit)

Table 67. World High Vacuum Valve Average Price by Nominal Diameter (2027-2032) & (US\$/Unit)

Table 68. World High Vacuum Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High Vacuum Valve Production by Application (2021-2026) & (K Units)

Table 70. World High Vacuum Valve Production by Application (2027-2032) & (K Units)

Table 71. World High Vacuum Valve Production Value by Application (2021-2026) & (USD Million)

Table 72. World High Vacuum Valve Production Value by Application (2027-2032) & (USD Million)

Table 73. World High Vacuum Valve Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World High Vacuum Valve Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. VAT Basic Information, Manufacturing Base and Competitors

Table 76. VAT Major Business

Table 77. VAT High Vacuum Valve Product and Services

Table 78. VAT High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. VAT Recent Developments/Updates

Table 80. VAT Competitive Strengths & Weaknesses

Table 81. Pfeiffer Vacuum Basic Information, Manufacturing Base and Competitors

Table 82. Pfeiffer Vacuum Major Business

Table 83. Pfeiffer Vacuum High Vacuum Valve Product and Services

Table 84. Pfeiffer Vacuum High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Pfeiffer Vacuum Recent Developments/Updates

Table 86. Pfeiffer Vacuum Competitive Strengths & Weaknesses

Table 87. CKD Basic Information, Manufacturing Base and Competitors

Table 88. CKD Major Business

Table 89. CKD High Vacuum Valve Product and Services

Table 90. CKD High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. CKD Recent Developments/Updates

Table 92. CKD Competitive Strengths & Weaknesses

Table 93. MKS Basic Information, Manufacturing Base and Competitors

Table 94. MKS Major Business

Table 95. MKS High Vacuum Valve Product and Services

Table 96. MKS High Vacuum Valve Production (K Units), Price (US\$/Unit), Production

Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. MKS Recent Developments/Updates

Table 98. MKS Competitive Strengths & Weaknesses

Table 99. SMC Corporation Basic Information, Manufacturing Base and Competitors

Table 100. SMC Corporation Major Business

Table 101. SMC Corporation High Vacuum Valve Product and Services

Table 102. SMC Corporation High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. SMC Corporation Recent Developments/Updates

Table 104. SMC Corporation Competitive Strengths & Weaknesses

Table 105. Presys Basic Information, Manufacturing Base and Competitors

Table 106. Presys Major Business

Table 107. Presys High Vacuum Valve Product and Services

Table 108. Presys High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Presys Recent Developments/Updates

Table 110. Presys Competitive Strengths & Weaknesses

Table 111. ANCORP Basic Information, Manufacturing Base and Competitors

Table 112. ANCORP Major Business

Table 113. ANCORP High Vacuum Valve Product and Services

Table 114. ANCORP High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. ANCORP Recent Developments/Updates

Table 116. ANCORP Competitive Strengths & Weaknesses

Table 117. Kurt J. Lesker Basic Information, Manufacturing Base and Competitors

Table 118. Kurt J. Lesker Major Business

Table 119. Kurt J. Lesker High Vacuum Valve Product and Services

Table 120. Kurt J. Lesker High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Kurt J. Lesker Recent Developments/Updates

Table 122. Kurt J. Lesker Competitive Strengths & Weaknesses

Table 123. Agilent Technologies, Inc Basic Information, Manufacturing Base and Competitors

Table 124. Agilent Technologies, Inc Major Business

Table 125. Agilent Technologies, Inc High Vacuum Valve Product and Services

Table 126. Agilent Technologies, Inc High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Agilent Technologies, Inc Recent Developments/Updates

Table 128. Agilent Technologies, Inc Competitive Strengths & Weaknesses

Table 129. Key High Vacuum Products, Inc Basic Information, Manufacturing Base and Competitors

Table 130. Key High Vacuum Products, Inc Major Business

Table 131. Key High Vacuum Products, Inc High Vacuum Valve Product and Services

Table 132. Key High Vacuum Products, Inc High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Key High Vacuum Products, Inc Recent Developments/Updates

Table 134. Key High Vacuum Products, Inc Competitive Strengths & Weaknesses

Table 135. MDC Precision Basic Information, Manufacturing Base and Competitors

Table 136. MDC Precision Major Business

Table 137. MDC Precision High Vacuum Valve Product and Services

Table 138. MDC Precision High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. MDC Precision Recent Developments/Updates

Table 140. MDC Precision Competitive Strengths & Weaknesses

Table 141. HVA LLC Basic Information, Manufacturing Base and Competitors

Table 142. HVA LLC Major Business

Table 143. HVA LLC High Vacuum Valve Product and Services

Table 144. HVA LLC High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. HVA LLC Recent Developments/Updates

Table 146. HVA LLC Competitive Strengths & Weaknesses

Table 147. Thermionics Vacuum Products Basic Information, Manufacturing Base and Competitors

Table 148. Thermionics Vacuum Products Major Business

Table 149. Thermionics Vacuum Products High Vacuum Valve Product and Services

Table 150. Thermionics Vacuum Products High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Thermionics Vacuum Products Recent Developments/Updates

Table 152. Thermionics Vacuum Products Competitive Strengths & Weaknesses

Table 153. Highlight Tech Corp (HTC) Basic Information, Manufacturing Base and Competitors

Table 154. Highlight Tech Corp (HTC) Major Business

Table 155. Highlight Tech Corp (HTC) High Vacuum Valve Product and Services

Table 156. Highlight Tech Corp (HTC) High Vacuum Valve Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Highlight Tech Corp (HTC) Recent Developments/Updates

Table 158. Highlight Tech Corp (HTC) Competitive Strengths & Weaknesses

Table 159. Fortune Precision Basic Information, Manufacturing Base and Competitors

Table 160. Fortune Precision Major Business

Table 161. Fortune Precision High Vacuum Valve Product and Services

Table 162. Fortune Precision High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Fortune Precision Recent Developments/Updates

Table 164. Fortune Precision Competitive Strengths & Weaknesses

Table 165. Jiangsu Shentong Basic Information, Manufacturing Base and Competitors

Table 166. Jiangsu Shentong Major Business

Table 167. Jiangsu Shentong High Vacuum Valve Product and Services

Table 168. Jiangsu Shentong High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Jiangsu Shentong Recent Developments/Updates

Table 170. Jiangsu Shentong Competitive Strengths & Weaknesses

Table 171. Kinglai Hygienic Materials Basic Information, Manufacturing Base and Competitors

Table 172. Kinglai Hygienic Materials Major Business

Table 173. Kinglai Hygienic Materials High Vacuum Valve Product and Services

Table 174. Kinglai Hygienic Materials High Vacuum Valve Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Kinglai Hygienic Materials Recent Developments/Updates

Table 176. Kinglai Hygienic Materials Competitive Strengths & Weaknesses

Table 177. Global Key Players of High Vacuum Valve Upstream (Raw Materials)

Table 178. Global High Vacuum Valve Typical Customers

Table 179. High Vacuum Valve Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High Vacuum Valve Picture

Figure 2. World High Vacuum Valve Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High Vacuum Valve Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High Vacuum Valve Production (2021-2032) & (K Units)

Figure 5. World High Vacuum Valve Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High Vacuum Valve Production Value Market Share by Region (2021-2032)

Figure 7. World High Vacuum Valve Production Market Share by Region (2021-2032)

Figure 8. North America High Vacuum Valve Production (2021-2032) & (K Units)

Figure 9. Europe High Vacuum Valve Production (2021-2032) & (K Units)

Figure 10. China High Vacuum Valve Production (2021-2032) & (K Units)

Figure 11. Japan High Vacuum Valve Production (2021-2032) & (K Units)

Figure 12. High Vacuum Valve Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 15. World High Vacuum Valve Consumption Market Share by Region (2021-2032)

Figure 16. United States High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 17. China High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 18. Europe High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 19. Japan High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 20. South Korea High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 21. ASEAN High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 22. India High Vacuum Valve Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of High Vacuum Valve by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for High Vacuum Valve Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for High Vacuum Valve Markets in 2025

Figure 26. United States VS China: High Vacuum Valve Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: High Vacuum Valve Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High Vacuum Valve Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers High Vacuum Valve Production Market Share 2025

Figure 30. China Based Manufacturers High Vacuum Valve Production Market Share 2025

Figure 31. Rest of World Based Manufacturers High Vacuum Valve Production Market Share 2025

Figure 32. World High Vacuum Valve Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World High Vacuum Valve Production Value Market Share by Type in 2025

Figure 34. Manual

Figure 35. Pneumatic

Figure 36. World High Vacuum Valve Production Market Share by Type (2021-2032)

Figure 37. World High Vacuum Valve Production Value Market Share by Type (2021-2032)

Figure 38. World High Vacuum Valve Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World High Vacuum Valve Production Value by Vacuum Level, (USD Million), 2021 & 2025 & 2032

Figure 40. World High Vacuum Valve Production Value Market Share by Vacuum Level in 2025

Figure 41. 10⁻¹⁰ Pa

Figure 42. 10⁻⁹ Pa

Figure 43. 10⁻⁸ Pa

Figure 44. 10⁻⁷ Pa

Figure 45. World High Vacuum Valve Production Market Share by Vacuum Level (2021-2032)

Figure 46. World High Vacuum Valve Production Value Market Share by Vacuum Level (2021-2032)

Figure 47. World High Vacuum Valve Average Price by Vacuum Level (2021-2032) & (US\$/Unit)

Figure 48. World High Vacuum Valve Production Value by Nominal Diameter, (USD Million), 2021 & 2025 & 2032

Figure 49. World High Vacuum Valve Production Value Market Share by Nominal Diameter in 2025

Figure 50. DN10-DN25

Figure 51. DN40-DN80

Figure 52. DN100-DN200

Figure 53. World High Vacuum Valve Production Market Share by Nominal Diameter (2021-2032)

Figure 54. World High Vacuum Valve Production Value Market Share by Nominal Diameter (2021-2032)

Figure 55. World High Vacuum Valve Average Price by Nominal Diameter (2021-2032) & (US\$/Unit)

Figure 56. World High Vacuum Valve Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World High Vacuum Valve Production Value Market Share by Application in 2025

Figure 58. Metallurgy

Figure 59. Petrochemical

Figure 60. Others

Figure 61. World High Vacuum Valve Production Market Share by Application (2021-2032)

Figure 62. World High Vacuum Valve Production Value Market Share by Application (2021-2032)

Figure 63. World High Vacuum Valve Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. High Vacuum Valve Industry Chain

Figure 65. High Vacuum Valve Procurement Model

Figure 66. High Vacuum Valve Sales Model

Figure 67. High Vacuum Valve Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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