

Global Nuclear Vacuum 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 Nuclear Vacuum Valve market size was valued at US\$ 280 million in 2025 and is forecast to a readjusted size of US\$ 415 million by 2032 with a CAGR of 5.7% during review period.

Nuclear vacuum valves are specialized valves designed for use in nuclear power plants, nuclear fuel cycle facilities, nuclear research installations, particle accelerators, hot cells, radioactive waste treatment systems, and nuclear-grade vacuum process environments. They primarily serve to control gas isolation, evacuation, regulation, venting, and safety shut-off within vacuum pipelines. These valves typically require high gas tightness, low leakage rates, and resistance to radiation, corrosion, and high temperatures, as well as seismic resilience, long service life, and remote operation capabilities. Certain products must also comply with standards for nuclear-grade quality assurance, cleanliness, material traceability, and safety-related equipment. Their core function is to maintain a stable vacuum environment in nuclear-related systems, prevent the leakage of radioactive gases or contaminants, and ensure operational safety, process stability, and the safety of personnel and the environment.

In 2025, global Nuclear Vacuum Valve production reached approximately 32.0 k units, and the average price was US\$ 8,500 per unit. The global market for nuclear vacuum valves is characterized by concurrent development across North America, Europe, and the Asia-Pacific region. North America demonstrates steady demand for high-reliability, low-leakage, and remotely maintainable vacuum valves, driven by nuclear power plant operations and maintenance, nuclear research facilities, defense-related nuclear installations, and high-energy physics experimental platforms. Europe places a strong emphasis on nuclear safety standards, material certification, adaptability to radioactive

environments, and the provision of equipment for decommissioning facilities. The Asia-Pacific region shows significant growth potential, fueled by investments in nuclear power construction, nuclear fuel cycles, and research facilities in countries such as China, India, South Korea, and Japan. While the overall market size is currently modest, the technical barriers to entry are high; demand stems primarily from maintenance and replacement in nuclear power plants, auxiliary systems for nuclear islands, nuclear-grade experimental devices, radioactive waste gas treatment, and vacuum sealing systems. Future trends include compatibility with high/ultra-high vacuum environments, the adoption of metal sealing structures, remote automated control, the use of radiation-resistant materials, digital condition monitoring, and domestic substitution. Key challenges include lengthy nuclear-grade certification cycles, high customer entry barriers, long project delivery times, limited batch sizes, and rigorous reliability requirements for materials and seals. The industry's average gross profit margin typically ranges from 30% to 55%; margins are higher for custom nuclear-grade valves, ultra-high vacuum valves, and remote-controlled valves, whereas valves for conventional auxiliary systems and standardized products yield relatively lower margins.

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

Global Nuclear Vacuum 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 Nuclear Vacuum 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 Nuclear Vacuum 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 Nuclear Vacuum 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 Nuclear Vacuum 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 VAT Group AG, MKS Instruments, Inc., Fujikin Incorporated, KITZ Corporation, Velan Inc, IMI plc, KSB SE & Co. KGaA, Framatome SAS, Mitsubishi Heavy Industries, ULVAC, Inc., etc.

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

Market Segmentation

Nuclear Vacuum 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

Pneumatic Nuclear Vacuum Valve

Electric Nuclear Vacuum Valve

Hydraulic Nuclear Vacuum Valve

Market segment by Nominal Diameter

DN ≤ 100 mm

DN 101-500 mm

DN ≥ 500 mm

Market segment by Application

Nuclear Power Plant

Nuclear Fuel Cycle Facility

Nuclear Research Facilities

Others

Major players covered

VAT Group AG

MKS Instruments, Inc.

Fujikin Incorporated

KITZ Corporation

Velan Inc

IMI plc

KSB SE & Co. KGaA

Framatome SAS

Mitsubishi Heavy Industries

ULVAC, Inc.

Jiangsu Shentong Valve Co., Ltd.

SUFA Technology Industry Co., Ltd., CNNC

Neway Valve (Suzhou) 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 Nuclear Vacuum Valve product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Nuclear Vacuum Valve, with price, sales quantity, revenue, and global market share of Nuclear Vacuum Valve from 2021 to 2026.

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

Chapter 4, the Nuclear Vacuum 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 Nuclear Vacuum 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 Nuclear Vacuum Valve.

Chapter 14 and 15, to describe Nuclear Vacuum Valve sales channel, distributors, customers, research findings and conclusion.

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