

Global Nuclear Isolation 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 Isolation Valve market size was valued at US\$ 813 million in 2025 and is forecast to a readjusted size of US\$ 1238 million by 2032 with a CAGR of 6.2% during review period.

Nuclear isolation valves are critical nuclear-grade safety devices used in nuclear power plants and other nuclear facilities. They are primarily used to rapidly cut off, isolate, or control the flow of fluid media during normal operation or accident conditions, preventing the leakage and spread of radioactive materials and ensuring the safe operation of the reactor and related systems. These valves are typically installed in critical locations such as containment penetration areas, main coolant systems, emergency core cooling systems, safety injection systems, steam systems, and nuclear auxiliary systems. They can be configured as gate valves, globe valves, butterfly valves, ball valves, or check valves, depending on control requirements, and are equipped with electric, pneumatic, hydraulic, or spring-return actuators for rapid automatic closure and remote control. Nuclear isolation valves must meet stringent nuclear safety regulations and quality standards, possessing high temperature resistance, high pressure resistance, corrosion resistance, radiation resistance, earthquake resistance, and high sealing performance to ensure reliable operation even under extreme conditions. With the development of smart nuclear power and advanced reactor technologies, nuclear isolation valves are continuously being upgraded towards intelligent monitoring, online diagnostics, predictive maintenance, and full life-cycle reliability management, making them an important component of the nuclear power plant's defense-in-depth system and containment isolation system.

In 2025, global Nuclear Isolation Valve production reached approximately 18.6 k units,

and the average price was US\$ 42.5 k/unit. The global nuclear isolation valve market has maintained stable growth due to the increase in nuclear power capacity, safety upgrades of existing units, life extension retrofits of nuclear power plants, and the advancement of small modular reactors (SMRs) and advanced reactors. Demand primarily comes from new nuclear power projects, upgrades of critical nuclear island systems, nuclear fuel cycle facilities, and nuclear decommissioning projects. Regionally, North America and Europe, with their mature nuclear industry systems and stringent nuclear safety regulatory standards, maintain a leading position in the design, manufacturing, and intelligent control technologies of high-end nuclear-grade valves. The Asia-Pacific region, driven by accelerated nuclear power construction, the localization of nuclear industry, and the development of advanced nuclear energy projects, has become the fastest-growing market. The Middle East and other emerging nuclear energy countries are also gradually generating new equipment demand as nuclear power projects are underway. Currently, the industry is moving towards high reliability, intelligent operation, and digital maintenance. The continuous application of corrosion-resistant alloy materials, high-performance sealing technologies, intelligent actuators, online condition monitoring, digital twins, and predictive maintenance technologies is improving equipment safety and operational reliability. Meanwhile, the industry still faces challenges such as long nuclear safety certification cycles, high product technology thresholds, stringent requirements for key materials and precision manufacturing processes, long project delivery cycles, and high supply chain stability requirements. Long-term maintenance and quality traceability management also increase the industry's complexity. Looking ahead, with the continued advancement of nuclear power plant life extension, small modular reactors (SMRs), fourth-generation nuclear reactors, and smart nuclear power construction, the nuclear isolation valve market is expected to maintain stable growth. The industry's average gross profit margin typically remains between 25% and 40%, with high-end nuclear-grade valves, intelligent actuators, and full lifecycle operation and maintenance services possessing high added value and profitability.

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

Global Nuclear Isolation Valve market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Nuclear Isolation Valve market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Nuclear Isolation Valve market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Isolation 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 Isolation 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 Flowserve, IMI Thompson Valves, Emerson, Trillium Flow Technologies, Valcor Nuclear, AC Valve Alliance, SUFA Technology Industry, Velan, VACGEN, Mankenberg, etc.

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

Market Segmentation

Nuclear Isolation 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

Nuclear Gate Valve

Nuclear Globe Valve

Nuclear Butterfly Valve

Nuclear Ball Valve

Nuclear Check Valve

Market segment by Nominal Diameter

DN ≤ 200 mm

DN 200-600 mm

DN ≥ 600 mm

Market segment by Application

Containment Isolation System

Main Coolant System

Safety Injection System

Emergency Core Cooling System

Others

Major players covered

Flowserve

IMI Thompson Valves

Emerson

Trillium Flow Technologies

Valcor Nuclear

AC Valve Alliance

SUFA Technology Industry

Velan

VACGEN

Mankenberg

AS-Schneider

KITZ Corporation

Neway Valve

Samshin Valve

Shanghai Electric Valve Co., Ltd.

OKANO Valve Mfg

TVE 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 Isolation Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Nuclear Isolation 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 Isolation 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 Isolation Valve.

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

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