

Global Nuclear Isolation Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Isolation Valve market size is expected to reach \$ 1238 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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 studies the global Nuclear Isolation Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Nuclear Isolation Valve total production and demand, 2021-2032, (Units)

Global Nuclear Isolation Valve total production value, 2021-2032, (USD Million)
Global Nuclear Isolation Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Nuclear Isolation Valve consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Nuclear Isolation Valve domestic production, consumption, key domestic manufacturers and share
Global Nuclear Isolation Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Nuclear Isolation Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Nuclear Isolation Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Nuclear Isolation 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Nuclear Isolation Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Nuclear Isolation Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Isolation Valve Market, Segmentation by Type:

Nuclear Gate Valve

Nuclear Globe Valve

Nuclear Butterfly Valve

Nuclear Ball Valve

Nuclear Check Valve

Global Nuclear Isolation Valve Market, Segmentation by Nominal Diameter:

DN ≤ 200 mm

DN 200-600 mm

DN ≥ 600 mm

Global Nuclear Isolation Valve Market, Segmentation by Application:

Containment Isolation System

Main Coolant System

Safety Injection System

Emergency Core Cooling System

Others

Companies Profiled:

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

Key Questions Answered:

1. How big is the global Nuclear Isolation Valve market?
2. What is the demand of the global Nuclear Isolation Valve market?
3. What is the year over year growth of the global Nuclear Isolation Valve market?
4. What is the production and production value of the global Nuclear Isolation Valve market?
5. Who are the key producers in the global Nuclear Isolation Valve market?
6. What are the growth factors driving the market demand?

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