

Global Nuclear Grade Solenoid Valves Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Grade Solenoid Valves market size is expected to reach \$ 926 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

In 2025, global Nuclear Grade Solenoid Valve production reached approximately 36.8 k units, and the average price was US\$ 16.5 k/unit. Nuclear grade solenoid valves are crucial nuclear-grade control components used in nuclear power plants and other nuclear facilities. They primarily utilize electromagnetic actuation to rapidly open, close, or switch fluid media, ensuring the stable operation of nuclear safety and process systems. These products typically consist of a valve body, solenoid coil, valve core, sealing components, spring mechanism, and control interface. They are widely used in critical areas such as safety injection systems, emergency core cooling systems (ECCS), main coolant auxiliary systems, steam systems, gas control systems, and nuclear auxiliary equipment. Nuclear-grade solenoid valves must meet stringent nuclear safety regulations and quality standards, possessing high temperature resistance, high pressure resistance, corrosion resistance, radiation resistance, earthquake resistance, and highly reliable sealing performance. They must also be able to achieve rapid response and long-term stable operation under accident conditions. Depending on application requirements, normally open, normally closed, or bistable structures can be adopted, and intelligent control and status monitoring functions can be equipped to achieve remote automated management. With the development of smart nuclear power, small modular reactors (SMRs), and advanced reactor technologies, nuclear-grade solenoid valves are continuously upgrading towards intelligence, digitalization, online diagnostics, and full life-cycle reliability management, becoming an important component of nuclear power plant automatic control and defense-in-depth systems.

The global market for nuclear grade solenoid valves has maintained steady growth due to the increase in installed 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 key areas such as safety injection systems, emergency core cooling systems, main coolant auxiliary systems, instrumentation and control systems, and nuclear auxiliary equipment. Regionally, North America and Europe, with their mature nuclear industry systems and stringent nuclear safety standards, maintain a leading position in high-reliability nuclear-grade control valves and intelligent actuator technologies. 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 materials, high-performance sealing technologies, intelligent drive control, online condition monitoring, digital twins, and predictive maintenance technologies is improving equipment response speed and operational safety. 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-grade solenoid 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 control valves, intelligent drive systems, and full lifecycle operation and maintenance services possessing high added value and profitability.

This report studies the global Nuclear Grade Solenoid Valves production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Nuclear Grade Solenoid Valves total production and demand, 2021-2032, (K Units)

Global Nuclear Grade Solenoid Valves total production value, 2021-2032, (USD Million)

Global Nuclear Grade Solenoid Valves production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Nuclear Grade Solenoid Valves consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Nuclear Grade Solenoid Valves domestic production, consumption, key domestic manufacturers and share

Global Nuclear Grade Solenoid Valves production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Nuclear Grade Solenoid Valves production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Nuclear Grade Solenoid Valves production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Nuclear Grade Solenoid Valves 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 Valcor Engineering, Emerson (ASCO), Curtiss-Wright Nuclear, Konan Electric, Xorella-Frank AG, Robert Bosch GmbH, Shanghai Valve, GE Vernova, CGN, Target Rock, 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 Grade Solenoid Valves market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Grade Solenoid Valves Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Grade Solenoid Valves Market, Segmentation by Type:

Shut-Off Solenoid Valves

Directional Control Solenoid Valves

Safety Interlock Solenoid Valves

Global Nuclear Grade Solenoid Valves Market, Segmentation by Rated Pressure:

Low-Pressure Nuclear Grade Solenoid Valves (<5 MPa)

Medium-Pressure Nuclear Grade Solenoid Valves (5-15 MPa)

High-Pressure Nuclear Grade Solenoid Valves (>15 MPa)

Global Nuclear Grade Solenoid Valves Market, Segmentation by Application:

Commercial Nuclear Power Plants

Small Modular Reactors

Nuclear Research Facilities

Others

Companies Profiled:

Valcor Engineering

Emerson (ASCO)

Curtiss-Wright Nuclear

Konan Electric

Xorella-Frank AG

Robert Bosch GmbH

Shanghai Valve

GE Vernova

CGN

Target Rock

OKANO VALVE MFG

Parker Hannifin

Key Questions Answered:

1. How big is the global Nuclear Grade Solenoid Valves market?
2. What is the demand of the global Nuclear Grade Solenoid Valves market?
3. What is the year over year growth of the global Nuclear Grade Solenoid Valves market?

4. What is the production and production value of the global Nuclear Grade Solenoid Valves market?
5. Who are the key producers in the global Nuclear Grade Solenoid Valves market?
6. What are the growth factors driving the market demand?

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