

Global Nuclear Grade Solenoid Valves 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 Grade Solenoid Valves market size was valued at US\$ 625 million in 2025 and is forecast to a readjusted size of US\$ 926 million by 2032 with a CAGR of 5.8% during review period.

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

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

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

Global Nuclear Grade Solenoid Valves market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Grade Solenoid Valves

- 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 Grade Solenoid Valves 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 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.

Market Segmentation

Nuclear Grade Solenoid Valves 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

- Shut-Off Solenoid Valves

- Directional Control Solenoid Valves

- Safety Interlock Solenoid Valves

Market segment 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)

Market segment by Application

- Commercial Nuclear Power Plants

- Small Modular Reactors

- Nuclear Research Facilities

- Others

Major players covered

- 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

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 Grade Solenoid Valves product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Nuclear Grade Solenoid Valves 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 Grade Solenoid Valves 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 Grade Solenoid Valves.

Chapter 14 and 15, to describe Nuclear Grade Solenoid Valves sales channel, distributors, customers, research findings and conclusion.

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