

Global Nuclear Grade Solenoid Valves Market Growth 2026-2032

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Abstracts

The global Nuclear Grade Solenoid Valves market size is predicted to grow from US\$ 594 million in 2025 to US\$ 898 million in 2032; it is expected to grow at a CAGR of 6.1% from 2026 to 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.

LP Information, Inc. (LPI) ' newest research report, the "Nuclear Grade Solenoid Valves Industry Forecast" looks at past sales and reviews total world Nuclear Grade Solenoid Valves sales in 2025, providing a comprehensive analysis by region and market sector of projected Nuclear Grade Solenoid Valves sales for 2026 through 2032. With Nuclear Grade Solenoid Valves sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nuclear Grade Solenoid Valves industry.

This Insight Report provides a comprehensive analysis of the global Nuclear Grade

Solenoid Valves landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear Grade Solenoid Valves portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Grade Solenoid Valves market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Grade Solenoid Valves and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nuclear Grade Solenoid Valves.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Grade Solenoid Valves market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

- Shut-Off Solenoid Valves

- Directional Control Solenoid Valves

- Safety Interlock Solenoid Valves

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)

Segmentation by Application:

Commercial Nuclear Power Plants

Small Modular Reactors

Nuclear Research Facilities

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Nuclear Grade Solenoid Valves market?

What factors are driving Nuclear Grade Solenoid Valves market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear Grade Solenoid Valves market opportunities vary by end market size?

How does Nuclear Grade Solenoid Valves break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Nuclear Grade Solenoid Valves Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Nuclear Grade Solenoid Valves by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Nuclear Grade Solenoid Valves by Country/Region, 2021, 2025 & 2032
- 2.2 Nuclear Grade Solenoid Valves Segment by Type
 - 2.2.1 Shut-Off Solenoid Valves
 - 2.2.2 Directional Control Solenoid Valves
 - 2.2.3 Safety Interlock Solenoid Valves
 - 2.2.4 Nuclear Grade Solenoid Valves Sales by Type
 - 2.2.4.1 Global Nuclear Grade Solenoid Valves Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Nuclear Grade Solenoid Valves Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Nuclear Grade Solenoid Valves Sale Price by Type (2021-2026)
- 2.3 Nuclear Grade Solenoid Valves Segment by Rated Pressure
 - 2.3.1 Low-Pressure Nuclear Grade Solenoid Valves (?5 MPa)
 - 2.3.2 Medium-Pressure Nuclear Grade Solenoid Valves (5?15 MPa)
 - 2.3.3 High-Pressure Nuclear Grade Solenoid Valves (?15 MPa)
 - 2.3.4 Nuclear Grade Solenoid Valves Sales by Rated Pressure
 - 2.3.4.1 Global Nuclear Grade Solenoid Valves Sales Market Share by Rated Pressure (2021-2026)
 - 2.3.4.2 Global Nuclear Grade Solenoid Valves Revenue and Market Share by Rated

Pressure (2021-2026)

2.3.4.3 Global Nuclear Grade Solenoid Valves Sale Price by Rated Pressure (2021-2026)

2.4 Nuclear Grade Solenoid Valves Segment by Application

2.4.1 Commercial Nuclear Power Plants

2.4.2 Small Modular Reactors

2.4.3 Nuclear Research Facilities

2.4.4 Others

2.4.5 Nuclear Grade Solenoid Valves Sales by Application

2.4.5.1 Global Nuclear Grade Solenoid Valves Sale Market Share by Application (2021-2026)

2.4.5.2 Global Nuclear Grade Solenoid Valves Revenue and Market Share by Application (2021-2026)

2.4.5.3 Global Nuclear Grade Solenoid Valves Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Nuclear Grade Solenoid Valves Breakdown Data by Company

3.1.1 Global Nuclear Grade Solenoid Valves Annual Sales by Company (2021-2026)

3.1.2 Global Nuclear Grade Solenoid Valves Sales Market Share by Company (2021-2026)

3.2 Global Nuclear Grade Solenoid Valves Annual Revenue by Company (2021-2026)

3.2.1 Global Nuclear Grade Solenoid Valves Revenue by Company (2021-2026)

3.2.2 Global Nuclear Grade Solenoid Valves Revenue Market Share by Company (2021-2026)

3.3 Global Nuclear Grade Solenoid Valves Sale Price by Company

3.4 Key Manufacturers Nuclear Grade Solenoid Valves Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Nuclear Grade Solenoid Valves Product Location Distribution

3.4.2 Players Nuclear Grade Solenoid Valves Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NUCLEAR GRADE SOLENOID VALVES BY GEOGRAPHIC REGION

4.1 World Historic Nuclear Grade Solenoid Valves Market Size by Geographic Region (2021-2026)

4.1.1 Global Nuclear Grade Solenoid Valves Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Nuclear Grade Solenoid Valves Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Nuclear Grade Solenoid Valves Market Size by Country/Region (2021-2026)

4.2.1 Global Nuclear Grade Solenoid Valves Annual Sales by Country/Region (2021-2026)

4.2.2 Global Nuclear Grade Solenoid Valves Annual Revenue by Country/Region (2021-2026)

4.3 Americas Nuclear Grade Solenoid Valves Sales Growth

4.4 APAC Nuclear Grade Solenoid Valves Sales Growth

4.5 Europe Nuclear Grade Solenoid Valves Sales Growth

4.6 Middle East & Africa Nuclear Grade Solenoid Valves Sales Growth

5 AMERICAS

5.1 Americas Nuclear Grade Solenoid Valves Sales by Country

5.1.1 Americas Nuclear Grade Solenoid Valves Sales by Country (2021-2026)

5.1.2 Americas Nuclear Grade Solenoid Valves Revenue by Country (2021-2026)

5.2 Americas Nuclear Grade Solenoid Valves Sales by Type (2021-2026)

5.3 Americas Nuclear Grade Solenoid Valves Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Nuclear Grade Solenoid Valves Sales by Region

6.1.1 APAC Nuclear Grade Solenoid Valves Sales by Region (2021-2026)

6.1.2 APAC Nuclear Grade Solenoid Valves Revenue by Region (2021-2026)

6.2 APAC Nuclear Grade Solenoid Valves Sales by Type (2021-2026)

6.3 APAC Nuclear Grade Solenoid Valves Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Nuclear Grade Solenoid Valves by Country

7.1.1 Europe Nuclear Grade Solenoid Valves Sales by Country (2021-2026)

7.1.2 Europe Nuclear Grade Solenoid Valves Revenue by Country (2021-2026)

7.2 Europe Nuclear Grade Solenoid Valves Sales by Type (2021-2026)

7.3 Europe Nuclear Grade Solenoid Valves Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Nuclear Grade Solenoid Valves by Country

8.1.1 Middle East & Africa Nuclear Grade Solenoid Valves Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Nuclear Grade Solenoid Valves Revenue by Country
(2021-2026)

8.2 Middle East & Africa Nuclear Grade Solenoid Valves Sales by Type (2021-2026)

8.3 Middle East & Africa Nuclear Grade Solenoid Valves Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Nuclear Grade Solenoid Valves
- 10.3 Manufacturing Process Analysis of Nuclear Grade Solenoid Valves
- 10.4 Industry Chain Structure of Nuclear Grade Solenoid Valves

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Nuclear Grade Solenoid Valves Distributors
- 11.3 Nuclear Grade Solenoid Valves Customer

12 WORLD FORECAST REVIEW FOR NUCLEAR GRADE SOLENOID VALVES BY GEOGRAPHIC REGION

- 12.1 Global Nuclear Grade Solenoid Valves Market Size Forecast by Region
 - 12.1.1 Global Nuclear Grade Solenoid Valves Forecast by Region (2027-2032)
 - 12.1.2 Global Nuclear Grade Solenoid Valves Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Nuclear Grade Solenoid Valves Forecast by Type (2027-2032)
- 12.7 Global Nuclear Grade Solenoid Valves Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Valcor Engineering
 - 13.1.1 Valcor Engineering Company Information
 - 13.1.2 Valcor Engineering Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.1.3 Valcor Engineering Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Valcor Engineering Main Business Overview

- 13.1.5 Valcor Engineering Latest Developments
- 13.2 Emerson (ASCO)
 - 13.2.1 Emerson (ASCO) Company Information
 - 13.2.2 Emerson (ASCO) Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.2.3 Emerson (ASCO) Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Emerson (ASCO) Main Business Overview
 - 13.2.5 Emerson (ASCO) Latest Developments
- 13.3 Curtiss-Wright Nuclear
 - 13.3.1 Curtiss-Wright Nuclear Company Information
 - 13.3.2 Curtiss-Wright Nuclear Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.3.3 Curtiss-Wright Nuclear Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.3.4 Curtiss-Wright Nuclear Main Business Overview
 - 13.3.5 Curtiss-Wright Nuclear Latest Developments
- 13.4 Konan Electric
 - 13.4.1 Konan Electric Company Information
 - 13.4.2 Konan Electric Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.4.3 Konan Electric Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Konan Electric Main Business Overview
 - 13.4.5 Konan Electric Latest Developments
- 13.5 Xorella-Frank AG
 - 13.5.1 Xorella-Frank AG Company Information
 - 13.5.2 Xorella-Frank AG Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.5.3 Xorella-Frank AG Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Xorella-Frank AG Main Business Overview
 - 13.5.5 Xorella-Frank AG Latest Developments
- 13.6 Robert Bosch GmbH
 - 13.6.1 Robert Bosch GmbH Company Information
 - 13.6.2 Robert Bosch GmbH Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.6.3 Robert Bosch GmbH Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.6.4 Robert Bosch GmbH Main Business Overview
- 13.6.5 Robert Bosch GmbH Latest Developments
- 13.7 Shanghai Valve
 - 13.7.1 Shanghai Valve Company Information
 - 13.7.2 Shanghai Valve Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.7.3 Shanghai Valve Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Shanghai Valve Main Business Overview
 - 13.7.5 Shanghai Valve Latest Developments
- 13.8 GE Vernova
 - 13.8.1 GE Vernova Company Information
 - 13.8.2 GE Vernova Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.8.3 GE Vernova Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 GE Vernova Main Business Overview
 - 13.8.5 GE Vernova Latest Developments
- 13.9 CGN
 - 13.9.1 CGN Company Information
 - 13.9.2 CGN Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.9.3 CGN Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 CGN Main Business Overview
 - 13.9.5 CGN Latest Developments
- 13.10 Target Rock
 - 13.10.1 Target Rock Company Information
 - 13.10.2 Target Rock Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.10.3 Target Rock Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Target Rock Main Business Overview
 - 13.10.5 Target Rock Latest Developments
- 13.11 OKANO VALVE MFG
 - 13.11.1 OKANO VALVE MFG Company Information
 - 13.11.2 OKANO VALVE MFG Nuclear Grade Solenoid Valves Product Portfolios and Specifications
 - 13.11.3 OKANO VALVE MFG Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 OKANO VALVE MFG Main Business Overview

13.11.5 OKANO VALVE MFG Latest Developments

13.12 Parker Hannifin

13.12.1 Parker Hannifin Company Information

13.12.2 Parker Hannifin Nuclear Grade Solenoid Valves Product Portfolios and Specifications

13.12.3 Parker Hannifin Nuclear Grade Solenoid Valves Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Parker Hannifin Main Business Overview

13.12.5 Parker Hannifin Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Nuclear Grade Solenoid Valves Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Nuclear Grade Solenoid Valves Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Shut-Off Solenoid Valves

Table 4. Major Players of Directional Control Solenoid Valves

Table 5. Major Players of Safety Interlock Solenoid Valves

Table 6. Global Nuclear Grade Solenoid Valves Sales by Type (2021-2026) & (K Units)

Table 7. Global Nuclear Grade Solenoid Valves Sales Market Share by Type (2021-2026)

Table 8. Global Nuclear Grade Solenoid Valves Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Nuclear Grade Solenoid Valves Revenue Market Share by Type (2021-2026)

Table 10. Global Nuclear Grade Solenoid Valves Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 11. Major Players of Low-Pressure Nuclear Grade Solenoid Valves (?5 MPa)

Table 12. Major Players of Medium-Pressure Nuclear Grade Solenoid Valves (5?15 MPa)

Table 13. Major Players of High-Pressure Nuclear Grade Solenoid Valves (?15 MPa)

Table 14. Global Nuclear Grade Solenoid Valves Sales by Rated Pressure (2021-2026) & (K Units)

Table 15. Global Nuclear Grade Solenoid Valves Sales Market Share by Rated Pressure (2021-2026)

Table 16. Global Nuclear Grade Solenoid Valves Revenue by Rated Pressure (2021-2026) & (\$ million)

Table 17. Global Nuclear Grade Solenoid Valves Revenue Market Share by Rated Pressure (2021-2026)

Table 18. Global Nuclear Grade Solenoid Valves Sale Price by Rated Pressure (2021-2026) & (K US\$/Unit)

Table 19. Global Nuclear Grade Solenoid Valves Sale by Application (2021-2026) & (K Units)

Table 20. Global Nuclear Grade Solenoid Valves Sale Market Share by Application (2021-2026)

Table 21. Global Nuclear Grade Solenoid Valves Revenue by Application (2021-2026)

& (\$ million)

Table 22. Global Nuclear Grade Solenoid Valves Revenue Market Share by Application (2021-2026)

Table 23. Global Nuclear Grade Solenoid Valves Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 24. Global Nuclear Grade Solenoid Valves Sales by Company (2021-2026) & (K Units)

Table 25. Global Nuclear Grade Solenoid Valves Sales Market Share by Company (2021-2026)

Table 26. Global Nuclear Grade Solenoid Valves Revenue by Company (2021-2026) & (\$ millions)

Table 27. Global Nuclear Grade Solenoid Valves Revenue Market Share by Company (2021-2026)

Table 28. Global Nuclear Grade Solenoid Valves Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 29. Key Manufacturers Nuclear Grade Solenoid Valves Producing Area Distribution and Sales Area

Table 30. Players Nuclear Grade Solenoid Valves Products Offered

Table 31. Nuclear Grade Solenoid Valves Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 32. New Products and Potential Entrants

Table 33. Market M&A Activity & Strategy

Table 34. Global Nuclear Grade Solenoid Valves Sales by Geographic Region (2021-2026) & (K Units)

Table 35. Global Nuclear Grade Solenoid Valves Sales Market Share Geographic Region (2021-2026)

Table 36. Global Nuclear Grade Solenoid Valves Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 37. Global Nuclear Grade Solenoid Valves Revenue Market Share by Geographic Region (2021-2026)

Table 38. Global Nuclear Grade Solenoid Valves Sales by Country/Region (2021-2026) & (K Units)

Table 39. Global Nuclear Grade Solenoid Valves Sales Market Share by Country/Region (2021-2026)

Table 40. Global Nuclear Grade Solenoid Valves Revenue by Country/Region (2021-2026) & (\$ millions)

Table 41. Global Nuclear Grade Solenoid Valves Revenue Market Share by Country/Region (2021-2026)

Table 42. Americas Nuclear Grade Solenoid Valves Sales by Country (2021-2026) & (K

Units)

Table 43. Americas Nuclear Grade Solenoid Valves Sales Market Share by Country (2021-2026)

Table 44. Americas Nuclear Grade Solenoid Valves Revenue by Country (2021-2026) & (\$ millions)

Table 45. Americas Nuclear Grade Solenoid Valves Sales by Type (2021-2026) & (K Units)

Table 46. Americas Nuclear Grade Solenoid Valves Sales by Application (2021-2026) & (K Units)

Table 47. APAC Nuclear Grade Solenoid Valves Sales by Region (2021-2026) & (K Units)

Table 48. APAC Nuclear Grade Solenoid Valves Sales Market Share by Region (2021-2026)

Table 49. APAC Nuclear Grade Solenoid Valves Revenue by Region (2021-2026) & (\$ millions)

Table 50. APAC Nuclear Grade Solenoid Valves Sales by Type (2021-2026) & (K Units)

Table 51. APAC Nuclear Grade Solenoid Valves Sales by Application (2021-2026) & (K Units)

Table 52. Europe Nuclear Grade Solenoid Valves Sales by Country (2021-2026) & (K Units)

Table 53. Europe Nuclear Grade Solenoid Valves Revenue by Country (2021-2026) & (\$ millions)

Table 54. Europe Nuclear Grade Solenoid Valves Sales by Type (2021-2026) & (K Units)

Table 55. Europe Nuclear Grade Solenoid Valves Sales by Application (2021-2026) & (K Units)

Table 56. Middle East & Africa Nuclear Grade Solenoid Valves Sales by Country (2021-2026) & (K Units)

Table 57. Middle East & Africa Nuclear Grade Solenoid Valves Revenue Market Share by Country (2021-2026)

Table 58. Middle East & Africa Nuclear Grade Solenoid Valves Sales by Type (2021-2026) & (K Units)

Table 59. Middle East & Africa Nuclear Grade Solenoid Valves Sales by Application (2021-2026) & (K Units)

Table 60. Key Market Drivers & Growth Opportunities of Nuclear Grade Solenoid Valves

Table 61. Key Market Challenges & Risks of Nuclear Grade Solenoid Valves

Table 62. Key Industry Trends of Nuclear Grade Solenoid Valves

Table 63. Nuclear Grade Solenoid Valves Raw Material

Table 64. Key Suppliers of Raw Materials

Table 65. Nuclear Grade Solenoid Valves Distributors List

Table 66. Nuclear Grade Solenoid Valves Customer List

Table 67. Global Nuclear Grade Solenoid Valves Sales Forecast by Region
(2027-2032) & (K Units)

Table 68. Global Nuclear Grade Solenoid Valves Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 69. Americas Nuclear Grade Solenoid Valves Sales Forecast by Country
(2027-2032) & (K Units)

Table 70. Americas Nuclear Grade Solenoid Valves Annual Revenue Forecast by
Country (2027-2032) & (\$ millions)

Table 71. APAC Nuclear Grade Solenoid Valves Sales Forecast by Region (2027-2032)
& (K Units)

Table 72. APAC Nuclear Grade Solenoid Valves Annual Revenue Forecast by Region
(2027-2032) & (\$ millions)

Table 73. Europe Nuclear Grade Solenoid Valves Sales Forecast by Country
(2027-2032) & (K Units)

Table 74. Europe Nuclear Grade Solenoid Valves Revenue Forecast by Country
(2027-2032) & (\$ millions)

Table 75. Middle East & Africa Nuclear Grade Solenoid Valves Sales Forecast by
Country (2027-2032) & (K Units)

Table 76. Middle East & Africa Nuclear Grade Solenoid Valves Revenue Forecast by
Country (2027-2032) & (\$ millions)

Table 77. Global Nuclear Grade Solenoid Valves Sales Forecast by Type (2027-2032)
& (K Units)

Table 78. Global Nuclear Grade Solenoid Valves Revenue Forecast by Type
(2027-2032) & (\$ millions)

Table 79. Global Nuclear Grade Solenoid Valves Sales Forecast by Application
(2027-2032) & (K Units)

Table 80. Global Nuclear Grade Solenoid Valves Revenue Forecast by Application
(2027-2032) & (\$ millions)

Table 81. Valcor Engineering Basic Information, Nuclear Grade Solenoid Valves
Manufacturing Base, Sales Area and Its Competitors

Table 82. Valcor Engineering Nuclear Grade Solenoid Valves Product Portfolios and
Specifications

Table 83. Valcor Engineering Nuclear Grade Solenoid Valves Sales (K Units), Revenue
(\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 84. Valcor Engineering Main Business

Table 85. Valcor Engineering Latest Developments

Table 86. Emerson (ASCO) Basic Information, Nuclear Grade Solenoid Valves

Manufacturing Base, Sales Area and Its Competitors

Table 87. Emerson (ASCO) Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 88. Emerson (ASCO) Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 89. Emerson (ASCO) Main Business

Table 90. Emerson (ASCO) Latest Developments

Table 91. Curtiss-Wright Nuclear Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 92. Curtiss-Wright Nuclear Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 93. Curtiss-Wright Nuclear Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 94. Curtiss-Wright Nuclear Main Business

Table 95. Curtiss-Wright Nuclear Latest Developments

Table 96. Konan Electric Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 97. Konan Electric Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 98. Konan Electric Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 99. Konan Electric Main Business

Table 100. Konan Electric Latest Developments

Table 101. Xorella-Frank AG Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 102. Xorella-Frank AG Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 103. Xorella-Frank AG Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 104. Xorella-Frank AG Main Business

Table 105. Xorella-Frank AG Latest Developments

Table 106. Robert Bosch GmbH Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 107. Robert Bosch GmbH Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 108. Robert Bosch GmbH Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 109. Robert Bosch GmbH Main Business

Table 110. Robert Bosch GmbH Latest Developments

Table 111. Shanghai Valve Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 112. Shanghai Valve Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 113. Shanghai Valve Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 114. Shanghai Valve Main Business

Table 115. Shanghai Valve Latest Developments

Table 116. GE Vernova Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 117. GE Vernova Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 118. GE Vernova Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 119. GE Vernova Main Business

Table 120. GE Vernova Latest Developments

Table 121. CGN Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 122. CGN Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 123. CGN Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 124. CGN Main Business

Table 125. CGN Latest Developments

Table 126. Target Rock Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 127. Target Rock Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 128. Target Rock Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 129. Target Rock Main Business

Table 130. Target Rock Latest Developments

Table 131. OKANO VALVE MFG Basic Information, Nuclear Grade Solenoid Valves Manufacturing Base, Sales Area and Its Competitors

Table 132. OKANO VALVE MFG Nuclear Grade Solenoid Valves Product Portfolios and Specifications

Table 133. OKANO VALVE MFG Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 134. OKANO VALVE MFG Main Business

Table 135. OKANO VALVE MFG Latest Developments

Table 136. Parker Hannifin Basic Information, Nuclear Grade Solenoid Valves
Manufacturing Base, Sales Area and Its Competitors

Table 137. Parker Hannifin Nuclear Grade Solenoid Valves Product Portfolios and
Specifications

Table 138. Parker Hannifin Nuclear Grade Solenoid Valves Sales (K Units), Revenue (\$
Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 139. Parker Hannifin Main Business

Table 140. Parker Hannifin Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Nuclear Grade Solenoid Valves
- Figure 2. Nuclear Grade Solenoid Valves Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Nuclear Grade Solenoid Valves Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Nuclear Grade Solenoid Valves Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Nuclear Grade Solenoid Valves Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Nuclear Grade Solenoid Valves Sales Market Share by Country/Region (2025)
- Figure 10. Nuclear Grade Solenoid Valves Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Shut-Off Solenoid Valves
- Figure 12. Product Picture of Directional Control Solenoid Valves
- Figure 13. Product Picture of Safety Interlock Solenoid Valves
- Figure 14. Global Nuclear Grade Solenoid Valves Sales Market Share by Type in 2026
- Figure 15. Global Nuclear Grade Solenoid Valves Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Low-Pressure Nuclear Grade Solenoid Valves (?5 MPa)
- Figure 17. Product Picture of Medium-Pressure Nuclear Grade Solenoid Valves (5?15 MPa)
- Figure 18. Product Picture of High-Pressure Nuclear Grade Solenoid Valves (?15 MPa)
- Figure 19. Global Nuclear Grade Solenoid Valves Sales Market Share by Rated Pressure in 2026
- Figure 20. Global Nuclear Grade Solenoid Valves Revenue Market Share by Rated Pressure (2021-2026)
- Figure 21. Nuclear Grade Solenoid Valves Consumed in Commercial Nuclear Power Plants
- Figure 22. Global Nuclear Grade Solenoid Valves Market: Commercial Nuclear Power Plants (2021-2026) & (K Units)
- Figure 23. Nuclear Grade Solenoid Valves Consumed in Small Modular Reactors
- Figure 24. Global Nuclear Grade Solenoid Valves Market: Small Modular Reactors (2021-2026) & (K Units)

Figure 25. Nuclear Grade Solenoid Valves Consumed in Nuclear Research Facilities

Figure 26. Global Nuclear Grade Solenoid Valves Market: Nuclear Research Facilities (2021-2026) & (K Units)

Figure 27. Nuclear Grade Solenoid Valves Consumed in Others

Figure 28. Global Nuclear Grade Solenoid Valves Market: Others (2021-2026) & (K Units)

Figure 29. Global Nuclear Grade Solenoid Valves Sale Market Share by Application (2025)

Figure 30. Global Nuclear Grade Solenoid Valves Revenue Market Share by Application in 2025

Figure 31. Nuclear Grade Solenoid Valves Sales by Company in 2025 (K Units)

Figure 32. Global Nuclear Grade Solenoid Valves Sales Market Share by Company in 2025

Figure 33. Nuclear Grade Solenoid Valves Revenue by Company in 2025 (\$ millions)

Figure 34. Global Nuclear Grade Solenoid Valves Revenue Market Share by Company in 2025

Figure 35. Global Nuclear Grade Solenoid Valves Sales Market Share by Geographic Region (2021-2026)

Figure 36. Global Nuclear Grade Solenoid Valves Revenue Market Share by Geographic Region in 2025

Figure 37. Americas Nuclear Grade Solenoid Valves Sales 2021-2026 (K Units)

Figure 38. Americas Nuclear Grade Solenoid Valves Revenue 2021-2026 (\$ millions)

Figure 39. APAC Nuclear Grade Solenoid Valves Sales 2021-2026 (K Units)

Figure 40. APAC Nuclear Grade Solenoid Valves Revenue 2021-2026 (\$ millions)

Figure 41. Europe Nuclear Grade Solenoid Valves Sales 2021-2026 (K Units)

Figure 42. Europe Nuclear Grade Solenoid Valves Revenue 2021-2026 (\$ millions)

Figure 43. Middle East & Africa Nuclear Grade Solenoid Valves Sales 2021-2026 (K Units)

Figure 44. Middle East & Africa Nuclear Grade Solenoid Valves Revenue 2021-2026 (\$ millions)

Figure 45. Americas Nuclear Grade Solenoid Valves Sales Market Share by Country in 2025

Figure 46. Americas Nuclear Grade Solenoid Valves Revenue Market Share by Country (2021-2026)

Figure 47. Americas Nuclear Grade Solenoid Valves Sales Market Share by Type (2021-2026)

Figure 48. Americas Nuclear Grade Solenoid Valves Sales Market Share by Application (2021-2026)

Figure 49. United States Nuclear Grade Solenoid Valves Revenue Growth 2021-2026

(\$ millions)

Figure 50. Canada Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 51. Mexico Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 52. Brazil Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 53. APAC Nuclear Grade Solenoid Valves Sales Market Share by Region in 2025

Figure 54. APAC Nuclear Grade Solenoid Valves Revenue Market Share by Region (2021-2026)

Figure 55. APAC Nuclear Grade Solenoid Valves Sales Market Share by Type (2021-2026)

Figure 56. APAC Nuclear Grade Solenoid Valves Sales Market Share by Application (2021-2026)

Figure 57. China Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 58. Japan Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 59. South Korea Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 60. Southeast Asia Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 61. India Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 62. Australia Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 63. China Taiwan Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 64. Europe Nuclear Grade Solenoid Valves Sales Market Share by Country in 2025

Figure 65. Europe Nuclear Grade Solenoid Valves Revenue Market Share by Country (2021-2026)

Figure 66. Europe Nuclear Grade Solenoid Valves Sales Market Share by Type (2021-2026)

Figure 67. Europe Nuclear Grade Solenoid Valves Sales Market Share by Application (2021-2026)

Figure 68. Germany Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 69. France Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 70. UK Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 71. Italy Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 72. Russia Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 73. Middle East & Africa Nuclear Grade Solenoid Valves Sales Market Share by Country (2021-2026)

Figure 74. Middle East & Africa Nuclear Grade Solenoid Valves Sales Market Share by Type (2021-2026)

Figure 75. Middle East & Africa Nuclear Grade Solenoid Valves Sales Market Share by Application (2021-2026)

Figure 76. Egypt Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 77. South Africa Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 78. Israel Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 79. Turkey Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 80. GCC Countries Nuclear Grade Solenoid Valves Revenue Growth 2021-2026 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Nuclear Grade Solenoid Valves in 2026

Figure 82. Manufacturing Process Analysis of Nuclear Grade Solenoid Valves

Figure 83. Industry Chain Structure of Nuclear Grade Solenoid Valves

Figure 84. Channels of Distribution

Figure 85. Global Nuclear Grade Solenoid Valves Sales Market Forecast by Region (2027-2032)

Figure 86. Global Nuclear Grade Solenoid Valves Revenue Market Share Forecast by Region (2027-2032)

Figure 87. Global Nuclear Grade Solenoid Valves Sales Market Share Forecast by Type (2027-2032)

Figure 88. Global Nuclear Grade Solenoid Valves Revenue Market Share Forecast by Type (2027-2032)

Figure 89. Global Nuclear Grade Solenoid Valves Sales Market Share Forecast by Application (2027-2032)

Figure 90. Global Nuclear Grade Solenoid Valves Revenue Market Share Forecast by Application (2027-2032)

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