

Global Cryogenic Solenoid Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cryogenic Solenoid Valve market size is expected to reach \$ 8096 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

In 2025, global sales volume of electric solenoid valves is estimated at approximately 320 million units, with an average selling price of around USD 18 per unit. An electric solenoid valve is a fundamental automation component that uses an electromagnetic coil to drive a valve core, enabling on/off control or directional regulation of fluids (gas or liquid). It typically consists of a coil assembly, valve body, plunger, spring, and sealing structure. These products are widely used in industrial automation systems, HVAC systems, automotive thermal management systems, medical devices, household appliances, and fluid control systems. Key performance indicators include response speed, sealing reliability, pressure resistance, media compatibility, and long-term switching durability. Different structural types—such as direct-acting, pilot-operated, and semi-direct acting—show significant differences in pressure range and flow control capability.

From a market structure perspective, electric solenoid valves represent a mature large-scale segment within basic industrial automation actuators. Demand is driven by industrial automation upgrades, increasing penetration of intelligent equipment, and the electrification trend in automotive and home appliance control systems. Applications are highly fragmented but relatively standardized, forming a typical long-tail market structure with broad downstream coverage but low unit value. Technical barriers are moderate, with competition mainly focused on product reliability lifespan, response consistency, sealing material durability, and large-scale manufacturing capability. In addition, industrial safety and automotive-grade certification requirements create entry barriers in higher-end segments. Overall, the industry is characterized by stable growth, high

standardization, strong economies of scale, and intense price competition.

This report studies the global Cryogenic Solenoid Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Cryogenic Solenoid Valve total production and demand, 2021-2032, (Units)

Global Cryogenic Solenoid Valve total production value, 2021-2032, (USD Million)

Global Cryogenic Solenoid Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Cryogenic Solenoid Valve consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Cryogenic Solenoid Valve domestic production, consumption, key domestic manufacturers and share

Global Cryogenic Solenoid Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Cryogenic Solenoid Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Cryogenic Solenoid Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Cryogenic Solenoid 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 Emerson, Magnet Schultz, Westport Fuel Systems, OMB SALERI, Bitron, ETO GRUPPE, IMI Norgren, B?rkert, EKK Eagle, Hamai Industries, 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 Cryogenic Solenoid Valve market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cryogenic Solenoid Valve Market, Segmentation by Type:

Plunger Valve

Direct-Acting Plunger Valve

Pilot-Operated Valves

Global Cryogenic Solenoid Valve Market, Segmentation by Normal Position:

Normally Closed (NC) Solenoid Valve

Normally Open (NO) Solenoid Valve

Global Cryogenic Solenoid Valve Market, Segmentation by Ambient Temperature Grade:

-40 ~ 0°C

-40 ~ -100°C

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