

Global Cryogenic Solenoid Valve Market Growth 2026-2032

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Abstracts

The global Cryogenic Solenoid Valve market size is predicted to grow from US\$ 5635 million in 2025 to US\$ 7840 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 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.

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

This Insight Report provides a comprehensive analysis of the global Cryogenic Solenoid Valve 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 Cryogenic Solenoid Valve portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cryogenic Solenoid Valve market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cryogenic Solenoid Valve 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 Cryogenic Solenoid Valve.

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

Segmentation by Type:

Plunger Valve

Direct-Acting Plunger Valve

Pilot-Operated Valves

Segmentation by Normal Position:

Normally Closed (NC) Solenoid Valve

Normally Open (NO) Solenoid Valve

Segmentation by Ambient Temperature Grade:

-40 ~ 0°C

-40 ~ -100°C

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