

Global Hydrogen Solenoid Shut-off Valve Market Growth 2026-2032

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Abstracts

The global Hydrogen Solenoid Shut-off Valve market size is predicted to grow from US\$ 275 million in 2025 to US\$ 1094 million in 2032; it is expected to grow at a CAGR of 22.4% from 2026 to 2032.

Hydrogen Solenoid Shut-off Valve refers to an electrically actuated shut-off valve used in hydrogen storage, transmission, distribution, refueling, and end-use systems to rapidly open or close the flow path of hydrogen for isolation, on-off control, and emergency shut-off functions. The product is designed to address key operational challenges in hydrogen systems, including slow manual valve operation, insufficient automation, delayed response, and the need for reliable flow isolation under demanding pressure and safety conditions. It is widely used in hydrogen refueling stations, onboard hydrogen supply systems for fuel cell vehicles, stationary fuel cell power systems, hydrogen piping assemblies, high-pressure storage modules, and other hydrogen-related industrial applications. Compared with conventional solenoid shut-off valves for general gases, this category requires much stricter performance in sealing integrity, pressure resistance, material compatibility, low leakage, and long-term cycling reliability because hydrogen has a very small molecular size, strong permeability, and the potential to induce material degradation such as hydrogen embrittlement under certain service conditions. The product category originated from traditional industrial gas solenoid valves and shut-off valve technologies, and evolved into a dedicated hydrogen-oriented control component alongside the development of the hydrogen economy, fuel cell vehicles, and hydrogen refueling infrastructure. Over time, it has moved toward higher pressure capability, faster response, greater system integration, and more stringent safety performance. Upstream supplies mainly include stainless steel, brass, specialty alloys, engineering plastics, elastomer and polymer sealing materials, as well as key components such as solenoid coils, armatures, valve cores, valve seats, springs,

valve bodies, fittings, actuating structures, and control-related modules. In 2025, the global production capacity of Hydrogen Solenoid Shut-off Valves is estimated at approximately 850 thousand units, while sales volume is expected to reach about 730 thousand units. The average unit price is around USD 385.5 per unit, and the gross profit margin of manufacturers is estimated to range from 30% to 40%.

The market is still in a transition phase from pilot-led deployment to broader engineering-driven adoption, and demand is being created together with the build-out of hydrogen refueling stations, fuel cell balance-of-plant systems, hydrogen storage and distribution equipment, industrial hydrogen piping, and selected liquid hydrogen applications. Official materials from major valve and fluid-control suppliers increasingly treat hydrogen as a dedicated application field rather than a simple extension of conventional gas control, reflecting the need for specialized performance in high pressure resistance, low leakage, hydrogen compatibility, fast switching, and long-term cycling durability. As a result, competition is becoming more technology- and qualification-driven, with greater emphasis on sealing design, material selection, validation capability, and subsystem integration rather than on price alone.

Looking ahead, the category is likely to evolve toward higher pressure capability, stricter leakage control, better system integration, and broader operating-condition coverage. Gaseous hydrogen applications are expected to remain the mainstream focus, especially in storage, dispensing, and onboard supply systems where response speed, tight shut-off, and service life are critical. At the same time, the gradual development of liquid hydrogen handling, cryogenic transport, and long-distance distribution is creating additional demand for valve technologies that can operate across extremely low temperatures while maintaining hydrogen compatibility. The fact that some manufacturers now explicitly promote both high-pressure hydrogen valves and cryogenic hydrogen valves suggests that the market is moving from a single-route product logic toward a more complete gas-hydrogen-plus-liquid-hydrogen architecture.

The main growth drivers come from the expansion of hydrogen infrastructure, the broader adoption of fuel cell systems, and the increasing need for safe and efficient hydrogen storage and transport. At the same time, the restraints remain substantial. Hydrogen's small molecular size and strong permeability raise the difficulty of leak prevention, while high-pressure and repeated-cycle conditions increase the demands on materials, fatigue resistance, and embrittlement control. In liquid hydrogen service, these challenges are compounded by cryogenic design requirements, insulation needs, and thermal stress management. Technical references from NREL and related hydrogen programs have consistently highlighted valves, seals, leakage reduction, and

station safety requirements as core technical bottlenecks, indicating that the market has clear long-term potential but will continue to face high qualification thresholds, long validation cycles, and meaningful compliance costs.

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

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

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

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

Segmentation by Type:

0-30MPa

30-60MPa

>60MPa

Segmentation by Port Configuration:

2-Way Hydrogen Solenoid Shut-off Valve

3-Way Hydrogen Solenoid Shut-off Valve

4-Way Hydrogen Solenoid Shut-off Valve

Segmentation by Operating Mode:

Direct-Acting Hydrogen Solenoid Shut-off Valve

Pilot-Operated Hydrogen Solenoid Shut-off Valve

Direct Pressure-Controlled Hydrogen Solenoid Shut-off Valve

Segmentation by Application:

Fuel Cell Vehicles

Fuel Cell Construction Machinery

Stationary Power Generation

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.

NOVA SWISS

B?rkert

Parker

Hilite International

Albrecht-Automatik

GEFA Processtechnik GmbH

KITZ

ETO GRUPPE

Bray

WEH GmbH

IMI Norgren

GSR Valve

Bitron

HAMAI

CKD

Jiangsu Shentong

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrogen Solenoid Shut-off Valve market?

What factors are driving Hydrogen Solenoid Shut-off Valve market growth, globally and by region?

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

How do Hydrogen Solenoid Shut-off Valve market opportunities vary by end market size?

How does Hydrogen Solenoid Shut-off Valve break out by Type, by Application?

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