

# Global Hydrogen Solenoid Shut-off Valve Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Hydrogen Solenoid Shut-off Valve market size is expected to reach \$ 1079 million by 2032, rising at a market growth of 21.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Hydrogen Solenoid Shut-off Valve production, demand, key manufacturers, and key regions.

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

### **Highlights and key features of the study**

Global Hydrogen Solenoid Shut-off Valve total production and demand, 2021-2032, (K Units)

Global Hydrogen Solenoid Shut-off Valve total production value, 2021-2032, (USD Million)

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

Global Hydrogen Solenoid Shut-off Valve consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Hydrogen Solenoid Shut-off Valve domestic production, consumption, key domestic manufacturers and share

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

Global Hydrogen Solenoid Shut-off Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Hydrogen Solenoid Shut-off Valve production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Hydrogen Solenoid Shut-off 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 NOVA SWISS, B?rkert, Parker, Hilite International, Albrecht-Automatik, GEFA Processtechnik GmbH, KITZ, ETO GRUPPE, Bray, WEH GmbH, 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 Hydrogen Solenoid Shut-off Valve market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Hydrogen Solenoid Shut-off Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Hydrogen Solenoid Shut-off Valve Market, Segmentation by Type:

0-30MPa

30-60MPa

?60MPa

### Global Hydrogen Solenoid Shut-off Valve Market, 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

### Global Hydrogen Solenoid Shut-off Valve Market, 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

### Global Hydrogen Solenoid Shut-off Valve Market, Segmentation by Application:

Fuel Cell Vehicles

Fuel Cell Construction Machinery

Stationary Power Generation

### Companies Profiled:

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 Answered:**

1. How big is the global Hydrogen Solenoid Shut-off Valve market?
2. What is the demand of the global Hydrogen Solenoid Shut-off Valve market?
3. What is the year over year growth of the global Hydrogen Solenoid Shut-off Valve market?
4. What is the production and production value of the global Hydrogen Solenoid Shut-off Valve market?
5. Who are the key producers in the global Hydrogen Solenoid Shut-off Valve market?
6. What are the growth factors driving the market demand?

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