

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

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## Abstracts

The global Hydrogen Circuit Solenoid Valve market size is expected to reach \$ 1965 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

In 2025, global Hydrogen Circuit Solenoid Valve production reached approximately 2060 k units with an average global market price of around US\$200 per unit. Single-line annual production capacity averages 45 k units with a gross margin of approximately 23.08-24.5%. The upstream of the Hydrogen Circuit Solenoid Valve industry primarily encompasses core components such as electromagnetic coils and valve body materials, which are concentrated in the precision manufacturing sector. The downstream applications are mainly divided into fuel cell power systems (accounting for approximately 60%), hydrogen storage and transportation systems (around 30%), and other fields (about 10%). The market demand is robust, with business opportunities focusing on promoting the collaborative development of the upstream and downstream of the hydrogen energy industry chain, particularly in the fuel cell power system sector, where significant market breakthroughs are anticipated.

The Hydrogen Circuit Solenoid Valve is a precision mechanical device designed to regulate the flow of hydrogen gas within a hydrogen circuit, ensuring seamless control and precise dosing by utilizing electromagnetic principles. It plays a crucial role in maintaining the integrity of the hydrogen system, providing exceptional sealing performance and rapid response times, thereby guaranteeing the safe and efficient operation of the overall circuit.

As the hydrogen energy industry continues to evolve, the Hydrogen Circuit Solenoid Valve sector is experiencing a series of significant trends. In the future, the industry will

focus on enhancing the reliability and durability of solenoid valves to meet stringent operational environments. Simultaneously, through innovations in materials and design, the efficiency and performance of solenoid valves will be significantly improved, reducing energy consumption and pressure losses. Furthermore, solenoid valves will trend towards miniaturization and integration to accommodate more compact hydrogen system designs. The fusion of intelligent and IoT technologies will enable real-time monitoring and predictive maintenance, enhancing system safety and efficiency. The industry will place greater emphasis on compliance with international standards and environmental requirements, driving sustainable production processes. With the expansion of hydrogen applications into fields such as aerospace, maritime, and heavy industry, the Hydrogen Circuit Solenoid Valve market will encounter new opportunities. Cost control and R&D investment will also be crucial to the industry's development, promoting technological innovation and large-scale production, reducing product costs, and facilitating the widespread application of hydrogen energy technology. In summary, the Hydrogen Circuit Solenoid Valve industry is moving towards a direction of high efficiency, intelligence, environmental friendliness, and sustainability.

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

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

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

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

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

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

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

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

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

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

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

This report profiles key players in the global Hydrogen Circuit 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, MAXIMATOR, EKK Eagle, GFI Control Systems, OMB Valves SpA, Luxfer Group, Clark Cooper, GSR Valve, Eugen Seitz, IMI Norgren, 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 Circuit Solenoid 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 Circuit Solenoid Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Hydrogen Circuit Solenoid Valve Market, Segmentation by Type:

Two-way

Three-way

#### Global Hydrogen Circuit Solenoid Valve Market, Segmentation by Operating State:

Normally Closed Solenoid Valve

Normally Open Solenoid Valve

#### Global Hydrogen Circuit Solenoid Valve Market, Segmentation by Actuation Method:

Pneumatic Solenoid Valve

Electric Solenoid Valve

#### Global Hydrogen Circuit Solenoid Valve Market, Segmentation by Application:

Fuel Cell Power System

Hydrogen Storage and Transportation System

Others

Companies Profiled:

Emerson

MAXIMATOR

EKK Eagle

GFI Control Systems

OMB Valves SpA

Luxfer Group

Clark Cooper

GSR Valve

Eugen Seitz

IMI Norgren

OMB SALERI

JTEKT

HAMAI

CKD

Magnetbau Schramme

Parker

Staiger

innovatherm GmbH + Co. KG

ETO GRUPPE

Magnet Schultz

Bitron

Nova Swiss

M?ller co-ax

B?rkert

VOSS

Cavagna Group

Jiangsu Shentong

Jiangsu Guofu Hydrogen Energy Equipment

Shanghai Shunhua New Energy System

Zhejiang Hongsheng Auto

### **Key Questions Answered:**

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

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