

Global High-Pressure Solenoid Valve for Hydrogen Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G08233FD84A4EN.html>

Date: February 2026

Pages: 106

Price: US\$ 3,480.00 (Single User License)

ID: G08233FD84A4EN

Abstracts

According to our (Global Info Research) latest study, the global High-Pressure Solenoid Valve for Hydrogen market size was valued at US\$ 826 million in 2025 and is forecast to a readjusted size of US\$ 1081 million by 2032 with a CAGR of 3.9% during review period.

In 2025, global High-Pressure Solenoid Valve for Hydrogen production reached approximately 4462 k units with an average global market price of around US\$180 per unit. Single-line annual production capacity averages 95 k units with a gross margin of approximately 23.08-24.5%. The upstream components of the High-Pressure Solenoid Valve for Hydrogen industry encompass precision manufacturing, sealing materials, and electromagnetic drives, which are predominantly concentrated in the high-end manufacturing sector. The downstream applications are divided into hydrogen transportation (40%), hydrogen storage (30%), hydrogen refueling stations (20%), and others (10%). With the development of the hydrogen energy industry, the demand for High-Pressure Solenoid Valves for Hydrogen is continuously growing. The business opportunities, driven by the construction of hydrogen energy infrastructure and the diversification of hydrogen energy applications, are expected to bring about broad market prospects, with the market size anticipated to expand by a factor of two over the next five years.

The High-Pressure Solenoid Valve for Hydrogen is a specialized device meticulously engineered to regulate the flow of hydrogen gas at elevated pressures, ensuring precise control and optimal safety. This valve is designed with robust materials and advanced sealing technology to withstand the corrosive nature of hydrogen and the extreme pressure it operates under. Its primary function is to facilitate the efficient and secure

transfer of hydrogen gas in various applications, offering a reliable solution for precise flow management. The valve features a high-quality solenoid mechanism that guarantees swift and accurate response times, minimizing pressure drops and ensuring minimal leakage. The internal design includes a unique sealing structure that prevents any hydrogen gas escape, contributing to the valve's overall reliability and safety. Additionally, the valve is designed for easy maintenance and long-term durability, making it an ideal choice for applications where hydrogen gas is handled at high pressures.

This report is a detailed and comprehensive analysis for global High-Pressure Solenoid Valve for Hydrogen market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-Pressure Solenoid Valve for Hydrogen market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Pressure Solenoid Valve for Hydrogen market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Pressure Solenoid Valve for Hydrogen market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global High-Pressure Solenoid Valve for Hydrogen market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for High-Pressure Solenoid Valve for Hydrogen
- To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-Pressure Solenoid Valve for Hydrogen market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nova Swiss, Parker, B?rkert, INDUS Holding, Clark Cooper, CKD, GSR Valve, Eugen Seitz, SMC, IMI Norgren, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-Pressure Solenoid Valve for Hydrogen market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Normally Closed Solenoid Valve

Normally Open Solenoid Valve

Market segment by Driving Method

Pilot-operated Solenoid Valve

Direct-acting Solenoid Valve

Market segment by Application

Hydrogen Transportation

Hydrogen Storage

Hydrogen Refuelling Station

Others

Major players covered

Nova Swiss

Parker

B?rkert

INDUS Holding

Clark Cooper

CKD

GSR Valve

Eugen Seitz

SMC

IMI Norgren

OMB SALERI

Bitron

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High-Pressure Solenoid Valve for Hydrogen product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Pressure Solenoid Valve for Hydrogen, with price, sales quantity, revenue, and global market share of High-Pressure Solenoid Valve for Hydrogen from 2021 to 2026.

Chapter 3, the High-Pressure Solenoid Valve for Hydrogen competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-Pressure Solenoid Valve for Hydrogen breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High-Pressure Solenoid Valve for Hydrogen market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-Pressure Solenoid Valve for Hydrogen.

Chapter 14 and 15, to describe High-Pressure Solenoid Valve for Hydrogen sales channel, distributors, customers, research findings and conclusion.

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