

Global Hydrogen Shut-off Solenoid Valve Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Hydrogen Shut-off Solenoid Valve market size was valued at US\$ 440 million in 2025 and is forecast to a readjusted size of US\$ 916 million by 2032 with a CAGR of 11.0% during review period.

Hydrogen shut-off solenoid valves are safety-critical electromagnetic valves used in hydrogen delivery and control systems, designed to rapidly stop hydrogen flow in response to control signals or abnormal operating conditions, thereby ensuring system isolation and emergency shut-off. These valves typically consist of a high-sealing valve body, an electromagnetic actuation unit, hydrogen-embrittlement-resistant materials, and a fast-response spring-return mechanism. They are characterized by high sealing integrity, high-pressure resistance, hydrogen compatibility, and rapid actuation. They are widely used in fuel cell systems, hydrogen storage and transportation equipment, hydrogen refueling stations, industrial hydrogen pipelines, and new energy vehicle thermal management and safety systems, serving as a core safety execution component in hydrogen infrastructure. In 2025, the global hydrogen shut-off solenoid valve market is estimated at approximately USD428 million, with annual shipments of around 86 million units, resulting in an average selling price of about USD4.98 per unit. The market is expected to grow at a CAGR of approximately 11.3% over the next five years. Typical single-line production capacity ranges from 800,000 to 5,500,000 units per year, while industry gross margins generally fall between 30% and 52%.

This report is a detailed and comprehensive analysis for global Hydrogen Shut-off Solenoid Valve 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 Hydrogen Shut-off Solenoid Valve market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Hydrogen Shut-off Solenoid Valve market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Hydrogen Shut-off Solenoid Valve

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 Hydrogen Shut-off Solenoid Valve 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 Emerson, Magnet Schultz, Westport Fuel Systems, OMB SALERI, Bitron, ETO GRUPPE, IMI Norgren, B?rkert, EKK Eagle, Hamai Industries, etc.

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

Market Segmentation

Hydrogen Shut-off Solenoid Valve 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

Direct-acting Solenoid Valve

Pilot-operated Solenoid Valve

Market segment by Pressure Rating

Low-pressure Valves

Medium-pressure Valves

High-pressure Valves

Market segment by Application

Hydrogen Refueling Station

Fuel Cell

Others

Major players covered

Emerson

Magnet Schultz

Westport Fuel Systems

OMB SALERI

Bitron

ETO GRUPPE

IMI Norgren

B?rkert

EKK Eagle

Hamai Industries

Parker Hannifin

Eugen Seitz

Magnetbau Schramme

Bosch

Nova Swiss

Metatron

TAKANO

Clark Cooper

M?ller co-ax

Zhejiang Hongsheng Auto

Clippard

Jaksa

GSR Ventiltechnik

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 Hydrogen Shut-off Solenoid Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Hydrogen Shut-off Solenoid Valve 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 Hydrogen Shut-off Solenoid Valve 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 Hydrogen Shut-off Solenoid Valve.

Chapter 14 and 15, to describe Hydrogen Shut-off Solenoid Valve sales channel, distributors, customers, research findings and conclusion.

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