

Global Pilot-operated Hydrogen 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 Pilot-operated Hydrogen Solenoid Valve market size was valued at US\$ 190 million in 2025 and is forecast to a readjusted size of US\$ 345 million by 2032 with a CAGR of 8.6% during review period.

Pilot-operated hydrogen solenoid valves are high-pressure fluid control components used in hydrogen systems, widely applied in fuel cell systems, hydrogen refueling stations, hydrogen storage and transportation equipment, and industrial hydrogen pipeline systems. They operate by using pilot pressure to actuate the main valve core, enabling precise control of hydrogen flow. Compared with direct-acting solenoid valves, pilot-operated structures are better suited for medium-to-high pressure and high-flow conditions, enabling larger orifice control under lower electromagnetic force while offering higher stability and sealing performance. These valves typically adopt stainless steel bodies, high-pressure resistant sealing materials, and anti-hydrogen embrittlement designs, making them essential safety components in hydrogen energy systems. In 2025, the global market for pilot-operated hydrogen solenoid valves is estimated at approximately USD185 million, with annual shipments of around 740,000 units, resulting in an average selling price of about USD250 per unit. The market is expected to grow at a CAGR of approximately 8.8%. Typical single-line production capacity ranges from 300,000 to 2,000,000 units per year, while industry gross margins generally fall between 28% and 45%.

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

Global Pilot-operated Hydrogen 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 Pilot-operated Hydrogen 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 Pilot-operated Hydrogen 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 Pilot-operated Hydrogen 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 Pilot-operated Hydrogen 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

Pilot-operated Hydrogen 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

Normally Open Solenoid Valve

Normally Closed 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

Metatron

M?ller co-ax

Clippard

Jaksa

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 Pilot-operated Hydrogen Solenoid Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Pilot-operated Hydrogen 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 Pilot-operated Hydrogen 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 Pilot-operated Hydrogen Solenoid Valve.

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

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