

Global Hydrogen On-Tank 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 On-Tank Solenoid Valve market size was valued at US\$ 246 million in 2025 and is forecast to a readjusted size of US\$ 1140 million by 2032 with a CAGR of 24.4% during review period.

In 2025, global Hydrogen On-Tank Solenoid Valve production reached approximately 1195 k units with an average global market price of around US\$200 per unit. Single-line annual production capacity averages 35 k units with a gross margin of approximately 22%. The upstream of the Hydrogen On-Tank Solenoid Valve industry is concentrated in the fields of precision metal processing and electromagnetic technology, with upstream materials accounting for approximately 60% of the total. In terms of downstream applications, 40% are used in hydrogen fuel cell systems, 30% in oxygen/hydrogen storage and control systems, and the remaining 20% in other high-pressure fluid control systems. As the hydrogen energy industry expands, there is a continuous rise in the demand for Hydrogen On-Tank Solenoid Valves, particularly for products with high performance and reliability. The growth of the hydrogen infrastructure and the diversification of hydrogen applications are driving the expansion of the market for Hydrogen On-Tank Solenoid Valves, with technological innovation and supply chain optimization becoming key factors for enterprises to expand into the market.

The Hydrogen On-Tank Solenoid Valve is a critical component designed to facilitate the controlled dispensing of hydrogen gas from a storage tank. Acting as a precision control mechanism, it ensures the safe and efficient release of hydrogen, which is a volatile and potentially hazardous substance. This valve is engineered with high-quality materials and advanced sealing technologies to maintain integrity under the extreme pressures

and temperatures typical in hydrogen storage systems. Its design incorporates features that guarantee minimal leakage, rapid response times, and durability, which are essential for maintaining system safety and preventing any accidental releases. The valve's performance is pivotal in ensuring the seamless operation of hydrogen refueling stations and other applications where hydrogen is stored and dispensed, thereby contributing significantly to the overall reliability and efficiency of the hydrogen infrastructure. In essence, the Hydrogen On-Tank Solenoid Valve serves as a reliable guardian of hydrogen safety and operational integrity.

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

Global Hydrogen On-Tank Solenoid Valve 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 Hydrogen On-Tank Solenoid Valve 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 Hydrogen On-Tank Solenoid Valve 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 Hydrogen On-Tank 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 On-Tank 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 Hilite International, Bosch, Hamai Industries, Pacific Industrial, Poppe + Potthoff, Teesing, GFI Control Systems, Luxfer, OMB Saleri, VOSS, etc.

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

Market Segmentation

Hydrogen On-Tank 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

35MPa OTV Valve

70MPa OTV Valve

Market segment by Material

Stainless Steel

Aluminum

Others

Market segment by Application

Hydrogen Fuel Cell System

Oxygen/Hydrogen Storage and Control System

Other High-pressure Fluid Control Systems

Major players covered

Hilite International

Bosch

Hamai Industries

Pacific Industrial

Poppe + Potthoff

Teesing

GFI Control Systems

Luxfer

OMB Saleri

VOSS

Shanghai Weishi Energy Technology

Shanghai Shunhua New Energy System

Hanhydrogen Power (Zhuhai) Technology

Zhangjiagang Furui Special Equipment

Suzhou Qipan Technology

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 On-Tank Solenoid Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Hydrogen On-Tank 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 On-Tank 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 On-Tank Solenoid Valve.

Chapter 14 and 15, to describe Hydrogen On-Tank Solenoid Valve sales channel,

distributors, customers, research findings and conclusion.

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