

Global Hydrogen On-Tank Solenoid Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Hydrogen On-Tank Solenoid Valve market size is expected to reach \$ 1140 million by 2032, rising at a market growth of 24.4% CAGR during the forecast period (2026-2032).

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 studies the global Hydrogen On-Tank Solenoid Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Hydrogen On-Tank 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen On-Tank 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 On-Tank Solenoid Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen On-Tank Solenoid Valve Market, Segmentation by Type:

35MPa OTV Valve

70MPa OTV Valve

Global Hydrogen On-Tank Solenoid Valve Market, Segmentation by Material:

Stainless Steel

Aluminum

Others

Global Hydrogen On-Tank Solenoid Valve Market, Segmentation by Application:

Hydrogen Fuel Cell System

Oxygen/Hydrogen Storage and Control System

Other High-pressure Fluid Control Systems

Companies Profiled:

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

Key Questions Answered:

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

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