

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

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Abstracts

The global Hydrogen OTV 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 OTV 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 OTV Solenoid Valve industry primarily involves areas such as precise metal processing, electronic components, and electromagnetic technology. The downstream applications include approximately 65% for hydrogen fuel cell systems, 30% for oxygen/hydrogen storage and control systems, and about 5% for other high-pressure fluid control systems. The market demand for Hydrogen OTV Solenoid Valves is continuously growing, driven by the rapid development of the hydrogen energy industry, particularly with the promotion of hydrogen fuel cell vehicles, which has led to an increasing demand for electromagnetically operated valves with high precision and rapid response times. The market opportunities for Hydrogen OTV Solenoid Valves are substantial, especially as the infrastructure for hydrogen energy is improved and applications are expanded. The market is poised for a period of rapid growth, and technological innovation as well as supply chain optimization will be crucial for enterprises to seize these opportunities.

The Hydrogen OTV Solenoid Valve is engineered to provide precise control over the release of hydrogen gas from storage tanks, featuring a robust design that can withstand the specific properties of hydrogen, such as its low ignition temperature and high flammability. The valve is equipped with advanced safety features that prevent any accidental release of hydrogen, ensuring compliance with stringent safety standards. It

operates efficiently in various environmental conditions, maintaining optimal performance even under extreme temperatures and pressures. The valve's compact size and lightweight construction make it ideal for integration into hydrogen storage systems, where it plays a crucial role in regulating the flow of hydrogen gas, contributing to the overall reliability and safety of the system.

This report studies the global Hydrogen OTV Solenoid Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Hydrogen OTV 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 OTV 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 OTV Solenoid Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen OTV Solenoid Valve Market, Segmentation by Type:

35MPa OTV Valve

70MPa OTV Valve

Global Hydrogen OTV Solenoid Valve Market, Segmentation by Material:

Stainless Steel

Aluminum

Others

Global Hydrogen OTV 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 OTV Solenoid Valve market?
2. What is the demand of the global Hydrogen OTV Solenoid Valve market?
3. What is the year over year growth of the global Hydrogen OTV Solenoid Valve market?
4. What is the production and production value of the global Hydrogen OTV Solenoid Valve market?
5. Who are the key producers in the global Hydrogen OTV Solenoid Valve market?
6. What are the growth factors driving the market demand?

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