

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

Global Hydrogen OTV 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 OTV 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 OTV 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 OTV 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 OTV 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 OTV 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 OTV Solenoid Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Hydrogen OTV 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 OTV 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 OTV Solenoid Valve.

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

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