

Global High-pressure Hydrogen Cylinder Valve Market Growth 2026-2032

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Abstracts

The global High-pressure Hydrogen Cylinder Valve market size is predicted to grow from US\$ 451 million in 2025 to US\$ 941 million in 2032; it is expected to grow at a CAGR of 11.3% from 2026 to 2032.

In 2024, global High-pressure Hydrogen Cylinder Valve production capacity is 800,000 units, with production reached approximately 608,000 units, with an average global market price of around US\$ 700 per unit. The market gross margin is mainly 30%-40%.

High-pressure hydrogen cylinder valves are core safety and control components used in hydrogen storage cylinders (Type III/IV) and stationary high-pressure hydrogen storage systems. They perform critical functions such as on/off control, one-way backflow prevention, overpressure relief, overcurrent protection, emergency shut-off, and gas-tight sealing. Structurally, they can be categorized into manual main valves, solenoid shut-off valves, two-stage safety relief valves, valves with check valves, and integrated valves (IVI/BIV). Pressure ratings cover on-board and stationary hydrogen storage applications from 35 MPa, 70 MPa to over 100 MPa. Its design must meet requirements such as resistance to hydrogen embrittlement, ultra-high pressure sealing, resistance to cyclic fatigue, ultra-low leakage rate ($<10^{-10}$ mbar·L/s), low temperature resistance (-40°C), and international safety standards including ISO11114, ISO19880, and ECE R134. It is a key component of on-board hydrogen storage systems, hydrogen refueling stations, and safety protection systems.

The upstream of the high-pressure hydrogen cylinder valve industry chain includes high-strength steel/stainless steel materials (316L, 17-4PH, Inconel), hydrogen embrittlement-resistant heat treatment, ultra-high pressure seals (PTFE, PEEK, metal seals), O-rings, springs, sensors, electromagnetic coils, and machining tooling. The midstream consists

of hydrogen cylinder valve manufacturers and integrators, including international companies such as Rotarex and GFI, providing on-board hydrogen storage cylinder valves (35/70 MPa), IVI/BIV integrated valves, stationary hydrogen storage system valve assemblies, and hydrogen safety control components. Downstream customers cover fuel cell passenger vehicles, commercial vehicles (heavy trucks/buses), rail vehicles, hydrogen-powered forklifts, hydrogen-powered ships, hydrogen refueling stations, stationary hydrogen storage systems, industrial hydrogen suppliers (Air Liquide, Linde, Air Products), and hydrogen storage cylinder companies (Type III/IV cylinder manufacturers). End customers are highly concerned about safety, reliability, leakage rate, fatigue life, hydrogen-resistant materials, automation control compatibility, and regulatory compliance.

The global high-pressure hydrogen cylinder valve market is expected to maintain rapid growth over the next 5–10 years, driven by three structural forces: (1) the rapid increase in the penetration rate of fuel cell vehicles (especially heavy trucks, buses, and logistics equipment), which will continue to expand the demand for 70 MPa on-board cylinder valves; (2) the significant growth of stationary hydrogen storage systems (hydrogen power plants, microgrids, renewable energy + hydrogen storage stations), which will drive the demand for 45–90 MPa valve groups; and (3) the improvement of the global hydrogen energy regulatory system (EU Hydrogen Strategy, US IRA, Japan/China hydrogen energy policies), which will drive the mandatory standardization and high performance of safety components. Regionally, China and Europe are the largest incremental markets (driven by both on-board and hydrogen refueling stations), the United States and South Korea are leading in on-board applications, and the Middle East and Japan have strong demand for stationary hydrogen storage and industrial hydrogen. In the future, the industry will accelerate its evolution towards higher pressure (70–100 MPa+), integration (IVI/BIV), intelligence (pressure/temperature sensor fusion), hydrogen embrittlement-resistant material upgrades, and ultra-low leakage processes. Companies with material technology, ultra-high pressure processing capabilities, and automotive-grade certification capabilities will have a significant competitive advantage.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “High-pressure Hydrogen Cylinder Valve Industry Forecast” looks at past sales and reviews total world High-pressure Hydrogen Cylinder Valve sales in 2025, providing a comprehensive analysis by region and market sector of projected High-pressure Hydrogen Cylinder Valve sales for 2026 through 2032. With High-pressure Hydrogen Cylinder Valve sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$

millions of the world High-pressure Hydrogen Cylinder Valve industry.

This Insight Report provides a comprehensive analysis of the global High-pressure Hydrogen Cylinder Valve landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on High-pressure Hydrogen Cylinder Valve portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global High-pressure Hydrogen Cylinder Valve market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-pressure Hydrogen Cylinder Valve and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global High-pressure Hydrogen Cylinder Valve.

This report presents a comprehensive overview, market shares, and growth opportunities of High-pressure Hydrogen Cylinder Valve market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

35MPa Bottle-Mouth Valve

70MPa Bottle-Mouth Valve

Others

Segmentation by Structure:

Ball Valve

Needle Valve

Others

Segmentation by Application:

On-Board Hydrogen Storage System

Hydrogen Refueling Station

Transport Hydrogen Storage System

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

GFI

Luxfer

Rotarex

Cavagna Group

Parker Hannifin

Swagelok

WITT-Gasetechnik

Faber Industrie

NPROXX

OMB Saleri

WEH GmbH

Jiangsu Shentong Valve Co., Ltd

Zhangjiagang Furui Special Equipment Co., Ltd

QINVAL

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-pressure Hydrogen Cylinder Valve market?

What factors are driving High-pressure Hydrogen Cylinder Valve market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do High-pressure Hydrogen Cylinder Valve market opportunities vary by end market size?

How does High-pressure Hydrogen Cylinder Valve break out by Type, by Application?

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