

# Global Cryogenic Hydrogen Valve Market Growth 2026-2032

<https://marketpublishers.com/r/GEF95090CCFCEN.html>

Date: May 2026

Pages: 110

Price: US\$ 3,660.00 (Single User License)

ID: GEF95090CCFCEN

## Abstracts

The global Cryogenic Hydrogen Valve market size is predicted to grow from US\$ 211 million in 2025 to US\$ 845 million in 2032; it is expected to grow at a CAGR of 22.4% from 2026 to 2032.

Cryogenic Hydrogen Valve refers to a specialized valve designed for low-temperature hydrogen service, especially for liquid hydrogen storage, transfer, refueling, vaporization, and related process systems, where it performs shut-off, isolation, control, or safety functions under extremely low-temperature conditions. The product is intended to solve problems that conventional valves often face in cryogenic hydrogen service, such as sealing failure, thermal contraction, stem leakage, unstable operation, and insufficient material performance at ultra-low temperatures. Official manufacturer and technical safety sources indicate that such valves must maintain reliable sealing and stable operation at temperatures approaching liquid hydrogen conditions, while also meeting the requirements of liquefaction, storage, transport by ship or trailer, and regasification systems. The category originated from conventional cryogenic valve and industrial gas valve technologies and later evolved into a hydrogen-oriented valve segment as liquid hydrogen handling, aerospace propellant systems, hydrogen logistics, and hydrogen refueling infrastructure advanced. Upstream supplies mainly include austenitic stainless steel, nickel-based or other cryogenic-resistant alloys, engineering plastics, elastomers and polymer sealing materials, as well as key components such as valve bodies, seats, stems, springs, sealing assemblies, actuators, fittings, and certain monitoring or control-related parts. In 2025, the global production capacity of Cryogenic Hydrogen Valves is estimated at approximately 600 thousand units, while sales volume is expected to reach about 473 thousand units. The average unit price is around USD 455.8 per unit, and the gross profit margin of manufacturers is estimated to range from 30% to 40%.

The current market is still in a transition phase from early demonstration and validation toward broader engineering deployment, and demand is not coming from a single type of equipment alone. Instead, it is expanding together with liquid hydrogen storage, transport, regasification, refueling, and selected advanced industrial and energy applications. Major suppliers already treat liquid hydrogen or cryogenic hydrogen valves as dedicated product directions. KITZ explicitly highlights a -253°C liquefied hydrogen valve, while HEROSE has long positioned cryogenic globe valves as a core product line and clearly indicates hydrogen compatibility for some of its cryogenic valve offerings. This suggests that the market no longer sees these products as minor adaptations of conventional cryogenic valves, but as specialized components requiring much higher standards in sealing, material behavior, stem design, and long-term reliability. DOE hydrogen infrastructure materials also continue to treat gaseous hydrogen and cryogenic liquid hydrogen as parallel infrastructure pathways, reinforcing the growing strategic importance of this segment.

Looking ahead, the segment is likely to evolve toward stronger cryogenic adaptability, tighter sealing standards, better system integration, and more rigorous safety-oriented design. As interest in liquid hydrogen grows for long-distance transport, energy storage, and selected high-end end-use cases, valve products will increasingly be expected to maintain stable operation at extremely low temperatures, minimize leakage, manage thermal contraction, and prevent cavity overpressure. Public technical literature shows that liquid hydrogen valve design requires careful attention to material selection, wall thickness, stem design, sealing materials, fire-safe features, and cavity overpressure protection. This means that future competition will move beyond the simple ability to manufacture a low-temperature valve and shift toward who can provide the most stable, safe, and validation-ready solution under liquid hydrogen service conditions. On the supplier side, KITZ already promotes both high-pressure hydrogen valves and liquid hydrogen valves, while HEROSE presents a wider cryogenic portfolio covering hydrogen and other liquefied gases, indicating that the market is moving toward more complete low-temperature hydrogen fluid-control solutions rather than stand-alone valve products.

The main growth drivers come from the potential role of liquid hydrogen in storage, transport, and infrastructure, as well as from rising expectations for system safety, efficiency, and long-term reliability. At the same time, the restraints are very clear. Earlier DOE and NREL work noted that, in the absence of mature hydrogen pipeline networks, liquid hydrogen transport can be meaningful in certain scenarios, but liquefaction remains energy-intensive and costly, which raises the performance

demands on every critical component in the chain. The valves themselves must withstand extreme temperatures, material embrittlement risks, seal degradation, thermal stress, contraction effects, leakage hazards, and more complex maintenance requirements. NREL liquid hydrogen risk work has also highlighted that malfunction of cryogenic components such as pressure-relief-related hardware can create elevated release risks. In other words, the long-term outlook is promising, but commercialization will continue to be constrained by infrastructure build-out speed, engineering validation cycles, certification requirements, and cost control.

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

This Insight Report provides a comprehensive analysis of the global Cryogenic Hydrogen 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 Cryogenic Hydrogen Valve portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Cryogenic Hydrogen Valve market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Cryogenic Hydrogen 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 Cryogenic Hydrogen Valve.

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

Segmentation by Type:

0-30MPa

30-60MPa

?60MPa

#### Segmentation by Port Configuration:

2-Way Valve

3-Way Valve

4-Way Valve

#### Segmentation by Valve Type:

Cryogenic Hydrogen Globe Valve

Cryogenic Hydrogen Ball Valve

Cryogenic Hydrogen Gate Valve

Cryogenic Hydrogen Safety Valve

Cryogenic Hydrogen Relief Valve

#### Segmentation by Application:

Fuel Cell Vehicles

Fuel Cell Construction Machinery

Hydrogenation Station

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.

KITZ Corporation

Zhangjiagang Furui Special Equipment Co

Emerson

Rotarex

HEROSE

Habonim

TK-FUJIKIN

GFI Control Systems

GSR Ventiltechnik

JiangSu Shentong

Baitu Valve

Swagelok

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Cryogenic Hydrogen Valve market?

What factors are driving Cryogenic Hydrogen Valve market growth, globally and by region?

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

How do Cryogenic Hydrogen Valve market opportunities vary by end market size?

How does Cryogenic Hydrogen Valve break out by Type, by Application?

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