

Global Cryogenic Hydrogen 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 Cryogenic Hydrogen Valve market size was valued at US\$ 222 million in 2025 and is forecast to a readjusted size of US\$ 833 million by 2032 with a CAGR of 21.1% during review period.

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.

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

Global Cryogenic Hydrogen 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 Cryogenic Hydrogen 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 Cryogenic Hydrogen 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 Cryogenic Hydrogen 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 Cryogenic Hydrogen 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 KITZ Corporation, Zhangjiagang Furui Special Equipment Co, Emerson, Rotarex, HEROSE, Habonim, TK-FUJIKIN, GFI Control Systems, GSR Ventiltechnik, JiangSu Shentong, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Cryogenic Hydrogen 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

0-30MPa

30-60MPa

?60MPa

Market segment by Port Configuration

2-Way Valve

3-Way Valve

4-Way Valve

Market segment by Valve Type

Cryogenic Hydrogen Globe Valve

Cryogenic Hydrogen Ball Valve

Cryogenic Hydrogen Gate Valve

Cryogenic Hydrogen Safety Valve

Cryogenic Hydrogen Relief Valve

Market segment by Application

Fuel Cell Vehicles

Fuel Cell Construction Machinery

Hydrogenation Station

Major players covered

KITZ Corporation

Zhangjiagang Furui Special Equipment Co

Emerson

Rotarex

HEROSE

Habonim

TK-FUJIKIN

GFI Control Systems

GSR Ventiltechnik

JiangSu Shentong

Baitu Valve

Swagelok

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 Cryogenic Hydrogen Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Cryogenic Hydrogen 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 Cryogenic Hydrogen 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 Cryogenic Hydrogen Valve.

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

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