

# Global Cryogenic Hydrogen Valve Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Cryogenic Hydrogen Valve market size is expected to reach \$ 833 million by 2032, rising at a market growth of 21.1% CAGR during the forecast period (2026-2032).

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.

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

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

### **Highlights and key features of the study**

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

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

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

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

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

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

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

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

This report profiles key players in the global Cryogenic Hydrogen 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cryogenic Hydrogen 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 Cryogenic Hydrogen Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cryogenic Hydrogen Valve Market, Segmentation by Type:

0-30MPa

30-60MPa

?60MPa

Global Cryogenic Hydrogen Valve Market, Segmentation by Port Configuration:

2-Way Valve

3-Way Valve

4-Way Valve

Global Cryogenic Hydrogen Valve Market, Segmentation by Valve Type:

Cryogenic Hydrogen Globe Valve

Cryogenic Hydrogen Ball Valve

Cryogenic Hydrogen Gate Valve

Cryogenic Hydrogen Safety Valve

Cryogenic Hydrogen Relief Valve

Global Cryogenic Hydrogen Valve Market, Segmentation by Application:

Fuel Cell Vehicles

Fuel Cell Construction Machinery

Hydrogenation Station

Companies Profiled:

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 Answered:**

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

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