

Global Liquid Hydrogen Globe Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Hydrogen Globe Valve market size is expected to reach \$ 413 million by 2032, rising at a market growth of 20.1% CAGR during the forecast period (2026-2032).

Liquid Hydrogen Globe Valve refers to a specialized globe-type valve used in liquid hydrogen storage, transfer, refueling, vaporization, and related process systems to perform shut-off, isolation, and safety control functions under cryogenic liquid hydrogen service conditions. The product is designed to address problems that conventional valves often face in liquid hydrogen applications, including sealing failure, thermal contraction, stem leakage, unstable operation, and insufficient long-term reliability at extremely low temperatures. Official manufacturer materials show that liquid hydrogen valves are developed for liquefaction, storage, transport by ship or trailer, regasification, and fueling systems, and that liquid hydrogen service is associated with temperatures around -253°C, which places much stricter demands on valve sealing, material selection, and structural design than ordinary industrial valve applications. The category originated from conventional cryogenic and industrial gas valve technologies and later evolved into a dedicated liquid-hydrogen-oriented segment as aerospace propulsion, hydrogen logistics, and hydrogen infrastructure advanced. Upstream supplies mainly include austenitic stainless steel, nickel-based or other cryogenic-resistant alloys, engineering plastics, elastomer 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 Liquid Hydrogen Globe Valves is estimated at 160 thousand units, while sales volume is expected to reach about 129 thousand units. The average unit price is around USD 865.6 per unit, and the gross profit margin of manufacturers is estimated to range from 35% to 45%.

The market is still in a transition phase from pilot validation to broader engineering deployment, and demand is expanding together with liquid hydrogen liquefaction, storage, transport by ship and trailer, regasification, and fueling infrastructure rather than coming from a single valve category in isolation. Major suppliers already treat liquid hydrogen valves, or globe valves qualified for liquid hydrogen temperature, as dedicated product and solution areas. KITZ explicitly promotes valves for service around -253°C liquefied hydrogen, while HEROSE states that its cryogenic globe valves are used in liquefaction, storage, shipping, and trailer transport and that its FullX globe valve can operate at liquid hydrogen temperature. This shows that the market no longer views liquid hydrogen globe valves as minor variants of standard cryogenic valves, but as specialized products with much stricter requirements in materials, sealing, stem design, and long-term reliability. At the same time, recent U.S. DOE infrastructure work and funding selections have directly highlighted liquid hydrogen transfer lines, nozzles, and valves as priority areas, underscoring the rising importance of this segment in the infrastructure chain.

Looking ahead, Liquid Hydrogen Globe Valves are likely to evolve toward tighter sealing performance, stronger cryogenic adaptability, better system integration, and more rigorous safety-oriented design. Public technical materials indicate that cryogenic globe valves must not only maintain stable shut-off and sealing performance at extremely low temperatures, but also manage thermal contraction, cavity overpressure, actuator environmental limits, and long-cycle reliability. HEROSE's official product pages already show cryogenic globe valves operating around -255°C and even -269°C for hydrogen and other liquefied gases, which suggests that competition is shifting from simply being able to manufacture a cryogenic valve to being able to deliver a safer, more stable, and more validation-ready solution under liquid hydrogen service conditions. KITZ has also stated in recent corporate materials that both hydrogen gas valves and liquid hydrogen valves are strategic growth areas, including development of larger valves for high-volume liquid hydrogen transport, indicating that future evolution will become more system-oriented and increasingly linked to larger infrastructure applications.

The main drivers behind this market are the potential value of liquid hydrogen in long-distance transport, centralized supply, and advanced end-use applications, along with rising infrastructure requirements for safety, efficiency, and reliability. The restraints, however, are equally clear. Liquid hydrogen service exposes valves to extreme cryogenic conditions, so manufacturers must manage material embrittlement risk, seal degradation, thermal stress, and leakage hazards. In addition, liquid hydrogen

infrastructure is still developing, and the associated requirements for standardization, testing, validation, and engineering coordination remain demanding. DOE infrastructure roadmaps and review materials continue to identify liquid hydrogen valves, transfer equipment, and reliability as key issues, while also making clear that broader commercialization of clean hydrogen systems depends heavily on safe, reliable, and economically viable delivery and fueling networks. As a result, the long-term direction of the market is positive, but the pace of commercialization will still be shaped by infrastructure build-out, qualification cycles, certification demands, and project-based procurement patterns.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Liquid Hydrogen Globe 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, Neway Valve, CRANE ChemPharma & Energy / CRYOFLO, Rotarex, HEROSE, Emerson, Cryote, ZIGAO VALVE, 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 Liquid Hydrogen Globe 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 Liquid Hydrogen Globe Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Hydrogen Globe Valve Market, Segmentation by Type:

0-30MPa

30-60MPa

?60MPa

Global Liquid Hydrogen Globe Valve Market, Segmentation by Structure Type:

Lifting Type Liquid Hydrogen Globe Valve

Bellows-Sealed Liquid Hydrogen Globe Valve

Extended Bonnet Liquid Hydrogen Globe Valve

Vacuum-Jacketed Liquid Hydrogen Globe Valve

Global Liquid Hydrogen Globe Valve Market, Segmentation by Actuation Method:

Manual Liquid Hydrogen Globe Valve

Pneumatic Liquid Hydrogen Globe Valve

Electric Liquid Hydrogen Globe Valve

Global Liquid Hydrogen Globe Valve Market, Segmentation by Application:

Liquid Hydrogen Storage Systems

Liquid Hydrogen Transportation Systems

Liquid Hydrogen Refueling Systems

Liquid Hydrogen Vaporization And Supply Systems

Companies Profiled:

KITZ Corporation

Zhangjiagang Furui Special Equipment

Neway Valve

CRANE ChemPharma & Energy / CRYOFLO

Rotarex

HEROSE

Emerson

Cryote

ZIGAO VALVE

Key Questions Answered:

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

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