

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

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Abstracts

The global Liquid Hydrogen Valves market size is expected to reach \$ 117 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032). Liquid Hydrogen Valves are specialized cryogenic valves designed to control the flow, pressure, and distribution of liquid hydrogen (LH₂) in storage, transportation, and fueling systems. Since liquid hydrogen is extremely cold (-253°C or -423°F) and highly volatile, these valves are engineered to withstand ultra-low temperatures, minimize leakage, and ensure safety. Common types include globe valves, check valves, ball valves and safety valve, etc., often used in aerospace, hydrogen refueling stations, and industrial gas applications. Their materials and sealing mechanisms are carefully selected to prevent hydrogen embrittlement and maintain efficient cryogenic performance.

The global key manufacturers of Liquid Hydrogen Valves include KITZ, Herose, Bray, KSB, Samson, Emerson, Velan, Parker Bestobell, Flowserve, OMB Valves Vogt, ADAMS Armaturen, Crane, RegO Products (OPW), Cryocomp, Furui Special Equipment, Neway Valve, etc.

We believe that as the planned green hydrogen production capacity is gradually released, the storage and transportation of green hydrogen will become a critical bottleneck in the industry. This challenge will create significant opportunities for the hydrogen storage and transportation supply chain, including liquid hydrogen storage and transportation solutions. Compared to pipeline and gaseous hydrogen transportation, liquid hydrogen (LH₂) storage and transportation presents a more practical and cost-effective medium-term solution. Liquid hydrogen storage and transportation benefits from higher energy density, insensitivity to distance, and more scalable manufacturing capabilities, making it an optimal choice for medium-term development.

Given the growing importance of liquid hydrogen storage and transportation, we expect the market for liquid hydrogen valves to expand further. The demand for cryogenic

valves?including ball valves, globe valves, check valves, and safety valves?will rise as more liquid hydrogen production, storage, and transportation infrastructure is deployed.

Currently, the United States and Japan lead in liquid hydrogen production, with well-established markets for liquid hydrogen equipment, including cryogenic valves.

However, Europe and China are actively accelerating the implementation of liquid hydrogen projects, with significant production scale growth expected in the coming years. As these regions ramp up liquid hydrogen production and infrastructure, the demand for liquid hydrogen valves will also rise substantially.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Liquid Hydrogen Valves 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 Parker Bestobell, KSB, Fujikin, Flowserve, OMB Valves Vogt, Herose, Crane, KITZ, Emerson, RegO Products (OPW), 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 Valves 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 Valves Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Hydrogen Valves Market, Segmentation by Type:

Globe Valve

Check Valve

Ball Valve

Safety Valve

Others

Global Liquid Hydrogen Valves Market, Segmentation by Size:

DN

DN 50?100

DN 100?150

DN > 150

Global Liquid Hydrogen Valves Market, Segmentation by Application Industry:

Aerospace

Transportation

Industrial

Others

Global Liquid Hydrogen Valves Market, Segmentation by Application:

LH2 Production

LH2 Storage and Transportation

Companies Profiled:

Parker Bestobell

KSB

Fujikin

Flowserve

OMB Valves Vogt

Herose

Crane

KITZ

Emerson

RegO Products (OPW)

ADAMS Armaturen

Bray

Velan

IMI

Cryocomp

Furui Special Equipment

Samson

Neway Valve

Key Questions Answered:

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

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