

Global UHP Gas Cylinder Valve Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G296883ADAB4EN.html>

Date: September 2026

Pages: 118

Price: US\$ 4,480.00 (Single User License)

ID: G296883ADAB4EN

Abstracts

The global UHP Gas Cylinder Valve market size is expected to reach \$ 135 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of UHP Gas Cylinder Valve reached approximately 310,000 units, with an average manufacturer-level selling price of about US\$260 per unit. Gross margins among major manufacturers were approximately 30%–42%.

A UHP Gas Cylinder Valve is a specialized valve installed directly at the outlet of a high-purity or ultra-high-purity gas cylinder to control gas filling, storage isolation, and withdrawal. Through diaphragm, packed, or O-ring sealing structures, combined with low-dead-volume flow paths, low-particle-generation design, precision machining, and clean assembly, the valve minimizes contamination from ambient air, metal particles, lubricants, and substances released from valve materials, thereby maintaining gas purity during storage and use. Its primary function is to provide reliable shutoff and flow control for inert, flammable, oxidizing, corrosive, toxic, and reactive specialty gases while ensuring high leak tightness and operational safety.

The upstream supply chain mainly includes valve-body materials such as 316L stainless steel, nickel-based alloy, and brass; sealing components such as metal diaphragms, packing, and O-rings; and precision components including valve stems, valve seats, actuators, and cylinder connections. Material purity, internal surface roughness, cleaning grade, and leakage control directly affect product performance. Downstream applications primarily include semiconductor manufacturing, photovoltaic manufacturing, electronic specialty gas production, and other high-purity gas systems. Cylinder manufacturers, specialty gas companies, valve manufacturers, and end users jointly conduct connection compatibility verification, gas compatibility assessment, leak testing,

and cleanliness qualification.

Report Scope

This report studies the global UHP Gas Cylinder Valve production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global UHP Gas Cylinder Valve total production and demand, 2021-2032, (Units)

Global UHP Gas Cylinder Valve total production value, 2021-2032, (USD Million)

Global UHP Gas Cylinder Valve production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global UHP Gas Cylinder Valve consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: UHP Gas Cylinder Valve domestic production, consumption, key domestic manufacturers and share

Global UHP Gas Cylinder Valve production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global UHP Gas Cylinder Valve production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global UHP Gas Cylinder Valve production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global UHP Gas Cylinder 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 Rotarex, Genstar Technologies, Sherwood Valve, Cavagna Group, GCE, Kohda, NERIKI VALVE, Hamai Industries, TK-FUJIKIN, Youngdo Industry, 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 UHP Gas Cylinder Valve market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 UHP Gas Cylinder Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global UHP Gas Cylinder Valve Market, Segmentation by Type:

Diaphragm-sealed Type

Packed-seal Type

O-ring-sealed Type

Global UHP Gas Cylinder Valve Market, Segmentation by Actuation Method:

Manual Type

Pneumatic Type

Global UHP Gas Cylinder Valve Market, Segmentation by Outlet Configuration:

Single-outlet Type

Dual-outlet Type

Global UHP Gas Cylinder Valve Market, Segmentation by Application:

Semiconductor Manufacturing

Photovoltaic Manufacturing

Electronic Specialty Gas Production

Other

Companies Profiled:

Rotarex

Genstar Technologies

Sherwood Valve

Cavagna Group

GCE

Kohda

NERIKI VALVE

Hamai Industries

TK-FUJIKIN

Youngdo Industry

Kezhe (Shanghai) Valves

Shanghai Baitu Cryogenic Valve

Key Questions Answered

1. How big is the global UHP Gas Cylinder Valve market?
2. What is the demand of the global UHP Gas Cylinder Valve market?
3. What is the year over year growth of the global UHP Gas Cylinder Valve market?

4. What is the total value of the global UHP Gas Cylinder Valve market?
5. Who are the Major Players in the global UHP Gas Cylinder Valve market?
6. What are the growth factors driving the market demand?

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