

Global UHP Gas Cylinder Valve Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GDA8E9019303EN.html>

Date: September 2026

Pages: 108

Price: US\$ 3,480.00 (Single User License)

ID: GDA8E9019303EN

Abstracts

According to our (Global Info Research) latest study, the global UHP Gas Cylinder Valve market size was valued at US\$ 82.93 million in 2025 and is forecast to a readjusted size of US\$ 135 million by 2032 with a CAGR of 7.2% during review period.

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

Global UHP Gas Cylinder Valve market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global UHP Gas Cylinder Valve market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global UHP Gas Cylinder Valve market shares of main players, shipments in revenue (\$ Million), sales quantity (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 UHP Gas Cylinder 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 UHP Gas Cylinder 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 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.

UHP Gas Cylinder 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 Segmentation

Market segment by Type

Diaphragm-sealed Type

Packed-seal Type

O-ring-sealed Type

Market segment by Actuation Method

Manual Type

Pneumatic Type

Market segment by Outlet Configuration

Single-outlet Type

Dual-outlet Type

Market segment by Application

Semiconductor Manufacturing

Photovoltaic Manufacturing

Electronic Specialty Gas Production

Other

Major players covered

Rotarex

Genstar Technologies

Sherwood Valve

Cavagna Group

GCE

Kohda

NERIKI VALVE

Hamai Industries

TK-FUJIKIN

Youngdo Industry

Kezhe (Shanghai) Valves

Shanghai Baitu Cryogenic Valve

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)

Chapter Outline

Chapter 1, to describe UHP Gas Cylinder Valve product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the UHP Gas Cylinder 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 UHP Gas Cylinder 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 UHP Gas Cylinder Valve.

Chapter 14 and 15, to describe UHP Gas Cylinder Valve sales channel, distributors, customers, research findings and conclusion.

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