

Global ALD Valve Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBFF67BE4357EN.html>

Date: August 2026

Pages: 106

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

ID: GBFF67BE4357EN

Abstracts

The global ALD Valve market size is expected to reach \$ 1302 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

In 2025, global ALD Valve production reached approximately 257,143 units, with an average global market price of around USD 2,800 per unit.

The gross profit margin of major companies in the industry is between 28.46%-52.35%.

In 2025, the global production capacity of ALD Valve was approximately 338,346 units.

ALD Valve is a high-performance process valve used in atomic layer deposition systems to control rapid, precise and repeatable delivery of precursor gases, purge gases and reactive chemicals. It must withstand corrosive chemistries, high cycle frequency, vacuum conditions, particle control requirements and strict sealing performance. The product is used in semiconductor wafer fabrication, compound semiconductors, displays, MEMS, photovoltaics and advanced coating processes. The market includes fast ALD pulse valves, diaphragm valves and precursor delivery valves for ALD tools, but excludes ordinary industrial valves and general gas regulators.

The industry chain includes stainless steel, specialty alloys, diaphragms, seals, actuators, solenoids, surface coatings, precision machined parts, cleanroom assembly materials and leak testing equipment. Midstream production covers valve design, precision machining, surface finishing, cleaning, assembly, actuation testing, leak testing, particle control and qualification. Downstream demand comes from ALD equipment, semiconductor fabs, advanced packaging, display manufacturing, MEMS fabrication and specialty coating lines. Growth is driven by advanced process nodes,

more ALD steps, high-k materials, 3D structures and stricter contamination control.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global ALD 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 Swagelok Company, KITZ SCT Corporation, Fujikin Incorporated, Parker Hannifin Corporation, Ham-Let Group / UCT Fluid Solutions, CKD Corporation, FITOK Group, XINVAL Technology Co., Ltd., Kunshan Kinglai Hygienic Materials Co., Ltd., 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 ALD 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 ALD Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global ALD Valve Market, Segmentation by Type:

Diaphragm ALD Valves

Poppet ALD Valves

Pulse ALD Valves

Global ALD Valve Market, Segmentation by Actuation Method:

Pneumatic ALD Valves

Solenoid ALD Valves

Piezoelectric ALD Valves

Global ALD Valve Market, Segmentation by Operating Temperature:

Standard Temperature??150?C?

High Temperature?151?250?C?

Ultra-High Temperature??250?C?

Global ALD Valve Market, Segmentation by Application:

Semiconductor ALD Equipment

Display Panel Deposition Equipment

Battery Material Deposition Equipment

Other

Companies Profiled:

Swagelok Company

KITZ SCT Corporation

Fujikin Incorporated

Parker Hannifin Corporation

Ham-Let Group / UCT Fluid Solutions

CKD Corporation

FITOK Group

XINVAL Technology Co., Ltd.

Kunshan Kinglai Hygienic Materials Co., Ltd.

Key Questions Answered:

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

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