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Global Vacuum Gate Valve for Semiconductor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vacuum Gate Valve for Semiconductor market size is expected to reach $ 569 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).
In this report, ?Vacuum Gate Valve for Semiconductor? refers to a vacuum isolation valve assembly used in semiconductor manufacturing equipment that opens and closes a flow path by a linear ?gate? (plate) motion, providing fast, low-leak, low-particle isolation between vacuum volumes. To better reflect the application and product form of gate valves in the semiconductor industry, this study adopts a gate-mechanism isolation scope and therefore includes: (1) Chamber/Load-Lock Gate Valves used as chamber door valves, load-lock isolation door valves, and pump-side isolation; (2) Slit/Transfer Gate Valves and Transfer Doors used at wafer transfer interfaces (rectangular ?transfer slit? openings) between a transfer chamber and process chambers or load locks?often labeled in the industry as slit valves, transfer valves, or vacuum transfer doors, and frequently presented as separate catalog categories due to geometry and interface requirements, while remaining gate-type isolation mechanisms in engineering terms; and (3) All-Metal Gate Valves designed for UHV, bake-out, high-temperature, or high-cycle operation using metal sealing/all-metal structures.
The scope excludes: (a) non-gate vacuum valves such as butterfly valves, pendulum valves, angle/inline/cylinder valves, check valves, pressure relief/venting valves, gas dosing/leak valves, and other functional valves even if vacuum-rated; (b) components and spare parts that do not constitute a complete valve assembly (seals, plates, actuators, controllers, etc.).
Typical in-tool use positions include process chamber door isolation, load-lock isolation, transfer-chamber-to-process/load-lock slit/transfer isolation, and all-metal gate valves required by advanced process or UHV conditions.
In general, a Gate Valve is a valve used to isolate/open a vacuum channel; it can be

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used for chamber doors, load locks, pump port isolation, pipeline isolation, etc., and the opening shape can be round, rectangular, or customized.
In 2025, the average price of a vacuum gate valve worldwide will be approximately US$2,828 per unit, with total sales of 127,600 units.
Product and Application Structure Characteristics
Product Types: Pneumatic valves dominate the market, accounting for 98.75% of sales revenue and 98.14% of sales volume in 2024. The proportion is expected to further increase to 98.95% by 2031. Manual valves are only used in low-frequency scenarios such as R&D laboratories and equipment maintenance, accounting for a mere 1.25% of sales revenue in 2024, with a continuously shrinking share.
Application Fields: Thin film deposition equipment (50.92% of sales revenue in 2024) and etching equipment (30.54% in 2024) are core application scenarios, collectively contributing over 80% of market demand. Demand in niche segments such as ion implantation equipment, electron beam metrology & inspection equipment, and photolithography machines is growing steadily, with CAGRs exceeding 5% from 2025 to 2031.
Market Competition Landscape
High Concentration: In 2024, the world's top five enterprises (VAT Group AG, V-TEX Corporation, PRESYS Co., Ltd, HVA, Pfeiffer Vacuum) collectively accounted for 80.07% of the market share, showing a significant leading effect.
Dominance by Leading Enterprises: Switzerland-based VAT Group AG ranks first with a 38.24% revenue share, followed by Japan's V-TEX Corporation with 29.24%, and the two together hold over 67% of the market share. Enterprises from South Korea, Taiwan China, and Mainland China mostly focus on the mid-to-low-end market or niche scenarios, with relatively low global shares.
This report studies the global Vacuum Gate Valve for Semiconductor production, demand, key manufacturers, and key regions.
This report is a detailed and comprehensive analysis of the world market for Vacuum Gate Valve for Semiconductor and provides market size (US$ 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 Vacuum Gate Valve for Semiconductor that contribute to its increasing demand across many markets.
Highlights and key features of the study
Global Vacuum Gate Valve for Semiconductor total production and demand, 2021-2032, (K Units)
Global Vacuum Gate Valve for Semiconductor total production value, 2021-2032, (USD Million)
Global Vacuum Gate Valve for Semiconductor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production

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Global Vacuum Gate Valve for Semiconductor consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Vacuum Gate Valve for Semiconductor domestic production, consumption, key domestic manufacturers and share
Global Vacuum Gate Valve for Semiconductor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Vacuum Gate Valve for Semiconductor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Vacuum Gate Valve for Semiconductor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
This report profiles key players in the global Vacuum Gate Valve for Semiconductor 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 VAT Group AG, V-TEX Corporation, PRESYS Co., Ltd, HVA, Pfeiffer Vacuum, SMC, HTC Vacuum, MKS Instruments, SCIENCE PROBE Co., Ltd, Kunshan Kinglai Hygienic Materials, 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 Vacuum Gate Valve for Semiconductor 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 Vacuum Gate Valve for Semiconductor Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global Vacuum Gate Valve for Semiconductor Market, Segmentation by Type:

Manual

Pneumatic

Global Vacuum Gate Valve for Semiconductor Market, Segmentation by Shape:

Circular Gate Valve

Rectangular Gate Valve

Global Vacuum Gate Valve for Semiconductor Market, Segmentation by Vacuum Pressure:

HV Gate Valve

UHV Gate Valve

Global Vacuum Gate Valve for Semiconductor Market, Segmentation by Application:

Etching Equipment

Thin Film Deposition Equipment

Ion Implantation Equipment

Electron Beam Metrology & Inspection Equipment

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Photolithography Machine

Cleaning Equipment

Others

Companies Profiled:

VAT Group AG

V-TEX Corporation

PRESYS Co., Ltd

HVA

Pfeiffer Vacuum

SMC

HTC Vacuum

MKS Instruments

SCIENCE PROBE Co., Ltd

Kunshan Kinglai Hygienic Materials

i-San Inc

Sino Multi-Micro Technology Co., Ltd

Trust Clean Tech

Key Questions Answered:

1. How big is the global Vacuum Gate Valve for Semiconductor market?
2. What is the demand of the global Vacuum Gate Valve for Semiconductor market?

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3. What is the year over year growth of the global Vacuum Gate Valve for Semiconductor market?
4. What is the production and production value of the global Vacuum Gate Valve for Semiconductor market?
5. Who are the key producers in the global Vacuum Gate Valve for Semiconductor market?
6. What are the growth factors driving the market demand?

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