

Gate Valve Market Forecasts to 2032 – Global Analysis By Display Type (Solid Wedge Gate Valve, Flexible Wedge Gate Valve and Split Wedge or Parallel Disk Gate Valve), Material, Size, Actuation, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Gate Valve Market is accounted for \$16.9 billion in 2025 and is expected to reach \$27.2 billion by 2032 growing at a CAGR of 7.0% during the forecast period. A gate valve is a linear motion valve used to start or stop the flow of fluid through a pipeline. It operates by lifting a gate or wedge out of the path of the fluid, providing a straight-through unobstructed flow when fully open. Designed primarily for on-off control rather than flow regulation, gate valves are commonly used in water supply systems, oil and gas industries, and chemical plants. They are favored for their minimal pressure drop and tight sealing when closed. Available in different materials such as cast iron, stainless steel, and brass, gate valves can handle a range of temperatures and pressures.

According to the United States Energy Information Administration (EIA), global consumption of petroleum and liquid fuels is increasing every year.

Market Dynamics:

Driver:

Growing Demand in Oil & Gas Industry

The growing demand in the oil and gas industry is significantly driving the gate valve market, as these valves play a crucial role in controlling and isolating fluid flow in

pipelines and refineries. With increasing exploration, production, and transportation activities, the need for reliable, durable, and high-pressure handling valves is rising. Gate valves ensure safety, efficiency, and minimal leakage, making them indispensable. This surge in demand fosters technological advancements, boosting market growth and expanding opportunities for manufacturers worldwide.

Restraint:

High Maintenance Requirements

The gate valve market is being adversely affected by high maintenance needs, which are impeding its expansion. Gate valves become less appealing to end users as compared to low-maintenance alternatives due to the increased operational costs associated with frequent inspections, repairs, and part replacements. These issues mostly impact sectors that aim for dependability and cost effectiveness. As a result, consumers might choose cutting-edge valve technologies that provide more longevity and less maintenance, which would limit the general use of gate valves.

Opportunity:

Expansion of Water & Wastewater Infrastructure

The expansion of water and wastewater infrastructure is creating a strong positive impact on the gate valve market, driving significant growth opportunities. With increasing urbanization, industrialization, and government investments in upgrading pipelines, treatment plants, and distribution networks, the demand for durable and efficient gate valves is rising. These valves play a critical role in regulating water flow, ensuring safety, and supporting reliable operations. As infrastructure projects accelerate globally, the gate valve market benefits from heightened adoption and long-term growth prospects.

Threat:

Supply Chain Disruptions

Supply chain disruptions are creating significant challenges for the gate valve market, hindering growth and operational efficiency. Delays in raw material procurement, transportation bottlenecks, and rising logistics costs are slowing production cycles and increasing lead times. These issues are also driving up overall manufacturing expenses,

limiting the ability of suppliers to meet growing demand. Consequently, market expansion is being restrained, with companies struggling to maintain timely deliveries and stable profit margins.

Covid-19 Impact

The Covid-19 pandemic had a mixed impact on the gate valve market, initially causing disruptions in manufacturing, supply chains, and project timelines due to lockdowns and labor shortages. Declines in oil and gas demand and delayed infrastructure projects further slowed growth. However, as economies reopened, rising investments in water treatment, power generation, and healthcare facilities created renewed demand, helping the market gradually recover and adapt to the post-pandemic industrial landscape.

The carbon steel segment is expected to be the largest during the forecast period

The carbon steel segment is expected to account for the largest market share during the forecast period owing to its superior strength, durability, and cost-effectiveness. Widely used in industries such as oil and gas, power generation, and water treatment, carbon steel gate valves can withstand high pressure and extreme temperatures, ensuring reliable performance. Their resistance to wear and ability to handle corrosive and abrasive media make them highly preferred in demanding applications, boosting demand and supporting market expansion across multiple heavy-duty industrial sectors.

The power generation segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the power generation segment is predicted to witness the highest growth rate, due to demanding robust valves that endure high temperatures, extreme pressures, and harsh conditions. In thermal, nuclear, and renewable plants, gate valves ensure precise fluid control, safety, and efficiency in steam, cooling, and feedwater systems. This reliability and consistency attract heavy investment and maintenance cycles, fueling the growth of specialized valve manufacturing. Manufacturers innovating for tight shut-off, long service life with stringent safety standards see expanding opportunities due to escalating power industry infrastructure and upgrades.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market

share due to rising demand across oil & gas, water treatment, and chemical sectors. Infrastructure expansion, especially in India and China, is fueling adoption of advanced valve technologies. Factory automation and smart valve integration enhance operational efficiency and safety. Additionally, increased investments in wastewater management and power generation are accelerating market penetration. This dynamic landscape positions gate valves as critical enablers of industrial reliability and sustainable development across the region.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to rapid industrial expansion, modernization of oil and gas infrastructure, and significant investments in water and wastewater management. The region's emphasis on energy efficiency, coupled with strict environmental regulations, fuels demand for reliable and durable gate valves. Additionally, ongoing advancements in manufacturing technologies and the adoption of automation in industries further enhance market growth. These factors collectively position North America as a leading contributor to the global gate valve industry.

Key players in the market

Some of the key players profiled in the Gate Valve Market include Velan Inc., AVK Holding A/S, KITZ Corporation, Flowserve Corporation, Emerson Electric Co., Crane Co., Powell Valves, Bonney Forge Corporation, Bray International, Dwyer Instruments Inc., Pentair Plc, Valvitalia Group S.p.A, Babcock Valves, SAMSON AG, Neway Valve (Suzhou) Co., Ltd., Weir Group PLC, CIRCOR International Inc., Forbes Marshall and Walworth Inc.

Key Developments:

In May 2025, Weir and CiDRA announced a strategic investment and global collaboration agreement, under which Weir will invest in CiDRA's mining business to accelerate commercialization of CiDRA's novel P29 mineral separation technology. The joint effort aims to deliver transformative flowsheet solutions to address declining ore grades, water limitations, carbon emissions and tailings safety around the world.

In October 2024, Bray International has forged a strategic partnership with Aquestia, becoming the exclusive distributor and retailer of their A.R.I. air valves and Dorot/OCV hydraulic control valves across North and South America, Europe, and Africa. This

collaboration strengthens offerings in the mining and metals markets.

Types Covered:

Solid Wedge Gate Valve

Flexible Wedge Gate Valve

Split Wedge or Parallel Disk Gate Valve

Materials Covered:

Cast Iron

Stainless Steel

Carbon Steel

Alloy Steel

Bronze

Other Materials

Sizes Covered:

Up to 2 Inches

2–6 Inches

6–12 Inches

12–24 Inches

Above 24 Inches

Actuations Covered:

Manual

Electric

Pneumatic

Hydraulic

Applications Covered:

On/Off Isolation

Throttling

End Users Covered:

Oil & Gas

Water & Wastewater Treatment

Power Generation

Chemicals

Marine

Mining

Pharmaceuticals

Pulp & Paper

Other End Users

Regions Covered:**North America**

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free

Gate Valve Market Forecasts to 2032 – Global Analysis By Display Type (Solid Wedge Gate Valve, Flexible Wedge...

customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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