

Global Thermoplastic Gate Valve Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermoplastic Gate Valve market size is expected to reach \$ 550 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Thermoplastic gate valves are valves made primarily of thermoplastic plastics (such as PVC-U, CPVC, PP, PVDF, etc.) for the valve body. They open and close via a gate (wedge-shaped or parallel) that moves up and down along a path perpendicular to the flow direction. When fully open, the flow path is straight and unobstructed, with minimal flow resistance. They are primarily used for fully open-to-fully-closed shut-off of corrosive media rather than for flow regulation.

The raw materials for thermoplastic gate valves are mainly thermoplastic valve bodies (PVC-U/CPVC/PP accounting for 70-90% of the valve body weight, PVDF is used for high-end and highly corrosive applications), with the gate (solid wedge or parallel type, usually made of the same material as the valve body or with PTFE coating to enhance sealing) and the valve stem (small diameters can use the same plastic, while DN50 and above mostly use SS316 stainless steel to withstand opening and closing torque) forming the core moving parts. They are supplemented by sealing packing (PTFE or EPDM/FKM O-rings) and metal inserts (steel flanges or threaded inserts for flange connections, accounting for 5-15% of the total weight). Because gate valves need to ensure a precise fit between the gate and the valve seat (high requirements for flatness and roughness), high-performance materials such as PVDF often need to be CNC machined rather than simply injection molded, which increases material waste. In terms of cost structure, general-purpose PVC-U gate valves (DN15-50) have a lower raw material cost (approximately \$1-2/kg) and can be injection molded, resulting in a total cost that is only 30-50% of that of cast iron/stainless steel gate valves of the same specifications, but higher than ball valves of the same material (due to structural

complexity). High-performance PVDF gate valves (especially DN100 and above) have a higher material cost (\$15-30/kg) and require a metal flange reinforcement (to prevent plastic creep from causing seal failure), making their cost close to that of stainless steel valves, but they still retain the advantage of resistance to strong acids/halogens, and their price is 3-5 times higher than PVC-U gate valves. Furthermore, non-rising stem valves have a 10-15% higher cost than rising stem valves due to the high precision requirements for valve stem thread machining, but are more suitable for installation in space-constrained plastic pipe wells.

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

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

Highlights and key features of the study

Global Thermoplastic Gate Valve total production and demand, 2021-2032, (Units)

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

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

Global Thermoplastic Gate Valve consumption by region & country, CAGR, 2021-2032 & (Units)

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

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

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

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

This report profiles key players in the global Thermoplastic Gate 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 Cepex, GEMU, Asahi Yukizai, Georg Fischer, Hayward Flow Control, Sekisui, SAFI, Aliaxis, Hershey Valve, Galassi and Ortolani, 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 Thermoplastic Gate 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 Thermoplastic Gate Valve Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermoplastic Gate Valve Market, Segmentation by Type:

PVC

PP

PVDF

Others

Global Thermoplastic Gate Valve Market, Segmentation by Structural Types:

Solid Wedge Gate

Resilient Wedge Gate

Double Gate/Split Wedge Gate

Global Thermoplastic Gate Valve Market, Segmentation by Stem Actuation:

Rising Stem

Non-rising Stem

Global Thermoplastic Gate Valve Market, Segmentation by Application:

Chemical Industry

Water Treatment & Environmental Protection

Municipal & Building Water Supply & Drainage

Other

Companies Profiled:

Cepex

GEMU

Asahi Yukizai

Georg Fischer

Hayward Flow Control

Sekisui

SAFI

Aliaxis

Hershey Valve

Galassi and Ortolani

PureValve

Ningbo Baodi

Shie Yu Machine Parts

UNP Polyvalves

Dinesh Plastic Products

Stubbe GmbH

Nibco

Dwyer Instruments

Key Questions Answered:

1. How big is the global Thermoplastic Gate Valve market?
2. What is the demand of the global Thermoplastic Gate Valve market?
3. What is the year over year growth of the global Thermoplastic Gate Valve market?
4. What is the production and production value of the global Thermoplastic Gate Valve market?

5. Who are the key producers in the global Thermoplastic Gate Valve market?
6. What are the growth factors driving the market demand?

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