# Flanges Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2026 - 2035

Market Report | 2026-03-06 | 211 pages | Global Market Insights

**AVAILABLE LICENSES:**

- Single User $4850.00
- Multi User $6050.00
- Enterprise User $8350.00

**Report description:**

The Global Flanges Market was valued at USD 6.4 billion in 2025 and is estimated to grow at a CAGR of 5.8% to reach USD 11.2 billion by 2035.

Flanges play a critical role in industrial infrastructure as essential mechanical components used to connect pipes, valves, pumps, and other equipment within fluid and gas transport systems. Although simple in structure, they provide vital functions such as maintaining pipeline alignment, ensuring structural strength, and enabling easy maintenance access. The demand for flanges closely follows the pace of industrial activity worldwide, as sectors relying on pipelines require reliable connection systems capable of operating under varying pressure, temperature, and environmental conditions. End users often prioritize suppliers that can deliver durable, high-performance flanges capable of functioning consistently in demanding environments. In response, manufacturers are increasingly refining production techniques, improving material quality, and expanding product portfolios to meet evolving industry requirements. Efforts are also being made to incorporate sustainable manufacturing practices and diversify raw material sourcing to strengthen supply chains. In addition, expanding industrial activity in emerging economies is creating new opportunities for flange manufacturers, contributing to the overall expansion of the global market.

The weld neck flanges segment accounted for USD 2 billion in 2025. Their dominance is attributed to their superior mechanical strength, ability to handle high pressure, and strong resistance to fatigue. The long tapered hub design distributes stress evenly between the pipe and the flange, minimizing stress concentration at welded joints. This structural advantage makes weld neck flanges suitable for demanding pipeline systems that operate under high pressure, high temperature, or fluctuating loads. Because of their reliability and durability, these flanges are widely used in critical industrial pipeline networks where joint integrity and operational safety are essential. Compared with other flange types, weld neck variants deliver stronger and more dependable connections, particularly in pipelines with large diameters or thicker pipe walls.

The carbon steel flanges segment held 44% share in 2025. Their strong presence is mainly due to their cost-effectiveness and balanced mechanical properties. Carbon steel offers a practical combination of durability, strength, and affordability compared to stainless steel or nickel alloy alternatives. Because of its lower cost, carbon steel remains the preferred material for large-scale industrial projects that require high volumes of flanges while maintaining budget efficiency. Industries commonly rely on carbon

steel flanges for piping systems operating under low to moderate pressure and temperature conditions, making them widely used across multiple industrial sectors.

United States Flanges Market held 83% share, generating USD 1.4 billion in 2025. The regional market benefits from a well-established industrial base, strict regulatory standards, and continuous investments in process industries and energy infrastructure. Ongoing activity related to energy production, pipeline expansion, and facility modernization contributes to sustained demand for flanges. Additionally, aging infrastructure across industrial and municipal systems creates steady maintenance, repair, and replacement requirements. Compliance with stringent technical standards encourages the use of high-quality forged and alloy flanges capable of performing reliably in demanding operational environments.

Prominent companies operating in the Global Flanges Market include Nippon Steel Corporation, Parker Hannifin, Georg Fischer (GF Piping Systems), Alleima, AFG Holdings (Ameriforge), ASC Engineered Solutions, Viraj Profiles Pvt. Ltd., Texas Flange, Bonney Forge, Metalfar S.p.A., Flanschenwerk Bebitz GmbH, Victaulic, General Flange & Forge LLC, Coastal Flange, and JFE Steel Corporation. Companies in the Flanges Market strengthen their competitive position through continuous investment in advanced manufacturing technologies and material innovation. Many manufacturers focus on improving product durability, corrosion resistance, and pressure tolerance to meet strict industrial requirements. Strategic partnerships with engineering contractors, industrial operators, and distributors help expand market reach and secure long-term supply agreements. Firms also enhance their supply chains to ensure consistent raw material availability and efficient production. Geographic expansion into emerging industrial markets further supports revenue growth.

**Table of Contents:**

Report Content

Chapter 1 Methodology and Scope
1.1 Market scope and definition
1.2 Research design
1.2.1 Research approach
1.2.2 Data collection methods
1.3 Data mining sources
1.3.1 Global
1.3.2 Regional/Country
1.4 Base estimates and calculations
1.4.1 Base year calculation
1.4.2 Key trends for market estimation
1.5 Primary research and validation
1.5.1 Primary sources
1.6 Forecast model
1.7 Research assumptions and limitations

Chapter 2 Executive Summary
2.1 Industry 360 synopsis
2.2 Key market trends
2.2.1 regional
2.2.2 product type
2.2.3 pressure temperature
2.2.4 material
2.2.5 manufacturing process

2.2.6 end use sector
2.2.7 distribution channel

Chapter 3 Industry Insights
3.1 Industry ecosystem analysis
3.1.1 Supplier landscape
3.1.2 Profit margin
3.1.3 Value addition at each stage
3.1.4 Factor affecting the value chain
3.2 Industry impact forces
3.2.1 Growth drivers
3.2.1.1 Expansion of energy and process industries
3.2.1.2 Growth in infrastructure and industrial construction
3.2.1.3 Replacement and maintenance of aging assets
3.2.2 Industry pitfalls & challenges
3.2.2.1 Volatility in raw material prices
3.2.2.2 Stringent regulatory and quality compliance
3.2.3 Opportunities
3.2.3.1 Growth of energy transition and hydrogen infrastructure
3.2.3.2 Increasing demand for high-specification and custom flanges
3.3 Growth potential analysis
3.4 Major market trends and Disruptions
3.5 Future market trends
3.6 Risk and mitigation Analysis
3.7 Technology and innovation landscape
3.7.1 Current technological trends
3.7.2 Emerging technologies
3.8 Price trends
3.8.1 By region
3.8.2 by product type
3.9 Regulatory landscape
3.9.1 Standards and compliance requirement
3.9.2 Certification standards
3.10 Porter's analysis
3.11 PESTEL analysis

Chapter 4 Competitive Landscape, 2025
4.1 Introduction
4.2 Company market share analysis
4.2.1 By region
4.2.1.1 North America
4.2.1.2 Europe
4.2.1.3 Asia Pacific
4.2.1.4 Latin America
4.2.1.5 Middle East and Africa
4.3 Company matrix analysis
4.4 Competitive analysis of major market players

4.5 Competitive positioning matrix
4.6 Key developments
4.6.1 Mergers & acquisitions
4.6.2 Partnerships & collaborations
4.6.3 New product launches
4.6.4 Expansion plans

Chapter 5 Market Estimates & Forecast, By Product Type, 2022-2035 (USD Billion) (Thousand Units)
5.1 Key trends
5.2 Weld neck flanges
5.3 Slip-on flanges
5.4 Blind flanges
5.5 Socket weld flanges
5.6 Lap joint flanges
5.7 Threaded flanges
5.8 Others

Chapter 6 Market Estimates & Forecast, By Pressure Temperature, 2022-2035 (USD Billion) (Thousand Units)
6.1 Key trends
6.2 Low
6.3 Medium
6.4 High
6.5 Extreme

Chapter 7 Market Estimates & Forecast, By Material, 2022-2035 (USD Billion) (Thousand Units)
7.1 Key trends
7.2 Stainless steel
7.3 Alloy steel
7.4 Nickel alloy
7.5 Carbon steel
7.6 Others

Chapter 8 Market Estimates & Forecast, By Manufacturing Process, 2022-2035 (USD Billion) (Thousand Units)
8.1 Key trends
8.2 Forged
8.3 Cast
8.4 Fabricated

Chapter 9 Market Estimates & Forecast, By End Use, 2022-2035 (USD Billion) (Thousand Units)
9.1 Key trends
9.2 Oil & gas
9.3 Chemical & petrochemical processing
9.4 Power generation
9.5 Water & wastewater treatment
9.6 Pulp & paper
9.7 Pharmaceuticals
9.8 Food & beverage processing

9.9 Mining & metals
9.10 General manufacturing
9.11 Others

Chapter 10 Market Estimates & Forecast, By Distribution Channel, 2022-2035 (USD Billion) (Thousand Units)
10.1 Key trends
10.2 Direct sales
10.3 Indirect sales

Chapter 11 Market Estimates and Forecast, By Region, 2022 - 2035 (USD Billion) (Thousand Units)
11.1 Key trends
11.2 North America
11.2.1 U.S.
11.2.2 Canada
11.3 Europe
11.3.1 Germany
11.3.2 UK
11.3.3 France
11.3.4 Italy
11.3.5 Spain
11.4 Asia Pacific
11.4.1 China
11.4.2 Japan
11.4.3 India
11.4.4 South Korea
11.4.5 Australia
11.5 Latin America
11.5.1 Brazil
11.5.2 Argentina
11.5.3 Mexico
11.6 Middle East and Africa
11.6.1 South Africa
11.6.2 Saudi Arabia
11.6.3 UAE

Chapter 12 Company Profiles
12.1 Nippon Steel Corporation
12.2 Georg Fischer (GF Piping Systems)
12.3 Parker Hannifin
12.4 AFG Holdings (Ameriforge)
12.5 ASC Engineered Solutions
12.6 Alleima
12.7 Viraj Profiles Pvt. Ltd.
12.8 Texas Flange
12.9 Bonney Forge
12.10 Metalfar S.p.A.
12.11 Flanschenwerk Bebitz GmbH

12.12 Victaulic
12.13 General Flange & Forge LLC
12.14 Coastal Flange
12.15 JFE STEEL CORPORATION

# Flanges Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2026 - 2035

Market Report | 2026-03-06 | 211 pages | Global Market Insights

To place an Order with Scotts International:

- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

| Select license | License | Price |
|---|---|---|
| | Single User | $4850.00 |
| | Multi User | $6050.00 |
| | Enterprise User | $8350.00 |
| | VAT | |
| | Total | |

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

| | | | |
|---|---|---|---|
| Email* | | Phone* | |
| First Name* | | Last Name* | |
| Job title* | | | |
| Company Name* | | EU Vat / Tax ID / NIP number* | |
| Address* | | City* | |
| Zip Code* | | Country* | |
| | | Date | 2026-03-31 |
| | | Signature | |