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Global Pressure Vessel Flange Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pressure Vessel Flange market size is expected to reach $ 1285 million by 2032, rising at a market growth of 4.0% CAGR during the forecast period (2026-2032).

In 2025, global Pressure Vessel Flange sales were approximately 730,000 units, with an average manufacturer-level selling price of around USD 1,300 per unit. Gross margins among major manufacturers were approximately 20%–32%.

A Pressure Vessel Flange is a pressure-bearing flange used to form detachable connections within the main body of a pressure vessel. It is primarily installed between shell sections, between the shell and the head, or between the shell and a removable vessel cover. A complete connection assembly generally consists of two mating flanges, a sealing gasket, and a bolting system. While withstanding internal pressure, temperature variations, and external loads, the flange must maintain adequate connection strength, structural rigidity, and sealing performance. Pressure Vessel Flanges are generally characterized by large diameters, substantial thicknesses, stringent load-bearing requirements, and a high degree of customization. Major structural types include Type A Flat Welding Flange, Type B Flat Welding Flange, and Long Neck Butt Welding Flange. Unlike conventional pipe flanges, Pressure Vessel Flanges directly form part of the pressure-bearing vessel shell connection and exclude nozzle flanges, manhole flanges, and general-purpose pipeline flanges.

The upstream materials for Pressure Vessel Flanges mainly include forged blanks or rolled rings made from carbon steel, stainless steel, low-alloy steel, and corrosion-resistant alloys. Typical manufacturing processes include forging or ring rolling, heat treatment, rough machining, precision machining, sealing-face finishing, drilling, and nondestructive testing. Downstream applications mainly include reactors, heat

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exchangers, towers, separators, storage vessels, and other pressure equipment used in petrochemical, chemical, energy, pharmaceutical, food-processing, and environmental-protection industries. Products are generally selected from standardized specifications or custom-manufactured according to vessel diameter, design pressure, operating temperature, medium corrosiveness, and sealing requirements.

Report Scope

This report studies the global Pressure Vessel Flange production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Pressure Vessel Flange total production and demand, 2021-2032, (Units)

Global Pressure Vessel Flange total production value, 2021-2032, (USD Million)

Global Pressure Vessel Flange production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Pressure Vessel Flange consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Pressure Vessel Flange domestic production, consumption, key domestic manufacturers and share

Global Pressure Vessel Flange production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Pressure Vessel Flange production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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Global Pressure Vessel Flange production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Pressure Vessel Flange 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 Flanschenwerk Hüttental, Flanschenwerk Thal, Kiel Flanschen, Langenbach Flanschen, The Japan Steel Works, KFP, F.N.F, Veritas Forgings, Shanxi Shuanghuan Heavy Industry, Runcheng Group, 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 Pressure Vessel Flange 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 Pressure Vessel Flange Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global Pressure Vessel Flange Market, Segmentation by Type:

Type A Flat Welding Flange

Type B Flat Welding Flange

Long Neck Butt Welding Flange

Global Pressure Vessel Flange Market, Segmentation by Sealing Face Type:

Flat Face Flange

Male and Female Face Flange

Tongue and Groove Face Flange

Global Pressure Vessel Flange Market, Segmentation by Material:

Carbon Steel

Stainless Steel

Alloy Steel

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Global Pressure Vessel Flange Market, Segmentation by Application:

Reactor

Heat Exchanger

Tower

Separator

Storage Vessel

Other

Companies Profiled:

Flanschenwerk Hüttental

Flanschenwerk Thal

Kiel Flanschen

Langenbach Flanschen

The Japan Steel Works

KFP

F.N.F

Veritas Forgings

Shanxi Shuanghuan Heavy Industry

Runcheng Group

Zhejiang Mingyang Flange

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Wuxi Flange Forging

Shanxi Huanguan Heavy Industry Group

Shanxi Jianing Forging

Key Questions Answered:

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

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