

Titanium Threaded Flange | High-Performance Titanium Alloy Flanges

Material:	Titanium Grade 2, Grade 5 (Ti-6Al-4V), Grade 7, Grade 12
Standards:	ASME B16.5, ASTM B381, DIN, EN, JIS
Pressure Ratings:	Class 150 – 2500
Size Range:	NPS 1/2" – 6" (DN15 – DN150, customized sizes available)
Connection Type:	Threaded connection

Product Overview

Our **Titanium Threaded Flanges** are specifically designed for piping systems that require non-welded connections. Manufactured from premium titanium alloys, these flanges deliver outstanding corrosion resistance and high strength, making them reliable even in the harshest environments.

Unlike welded joints, threaded flanges connect through precision-machined threads inside the bore, allowing you to achieve a detachable and secure connection. This eliminates heat-affected zones and additional stresses caused by welding, making them ideal for systems where welding is restricted or where certain materials have poor weldability.

Key Advantages & Technical Features

Feature	Advantage
Installation Efficiency	Save up to 60% assembly time compared to welded flanges, especially useful in overhead or confined spaces.
Detachable Connection	No welding required, making maintenance and replacement easier while reducing downtime costs.
High-Precision Machining	CNC threading and rolling technology ensure accurate dimensions and tight fits.
Surface Treatment	Pickling and passivation achieve Ra 0.8–6.3 µm, improving gasket adhesion and sealing performance.
Corrosion Resistance	Natural titanium oxide film protects against acids, chlorides, and seawater, suitable for chemical and marine applications.
High Strength-to-Weight Ratio	Provides robust connections without adding excessive weight, combining durability with lightweight design.

Technical Specifications

Parameter	Specification / Description
Thread Types	NPT / BSP / DIN / ISO (customizable)
Flange Thickness	According to ASME B16.5 Class standards, reinforced thickness available
Facing Types	Flat Face (FF), Raised Face (RF)
Pressure Range	PN20 – PN420
Material Condition	Annealed, solution treated (optional)
Surface Finish	Pickling & passivation, polishing, machining
Production Lead Time	2–4 weeks (contact sales for details)
Temperature Range	-196°C ~ 400°C (varies by titanium grade)
Connection Type	Non-welded detachable threaded installation
Inspection Standard	100% dimensional check, third-party inspection available
Applications	Chemical & petrochemical, offshore & marine, pharmaceutical, and food industries

Why Choose Baoji Zecheng Metal Materials Co., Ltd.?

When you choose us, you gain access to **high-quality titanium threaded flanges** backed by **ISO9001 and AS9100 certifications**. We ensure every product meets international standards and can provide tailored solutions for your projects. From titanium grade selection to dimensions and surface treatment, everything is fully customizable to match your requirements.

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