# Ti Grade 2 Flanges - Product Brochure

Material: Titanium Grade 2 (Industrial Pure Titanium)

Standards: ASTM B381, ASME B16.5, ASME B16.47

Sizes & Types: Customizable according to your drawings or standard dimensions

Surface Finish: Machined, anodized, or as per your requirement

Applications: Marine, chemical, oil & gas, water treatment

Certifications: ISO 9001, AS9100

Zecheng Metal offers a comprehensive range of Ti Grade 2 flanges, including Weld Neck, Slip-On, Blind, and Threaded Flanges, fully compliant with ASME B16.5, B16.47, or your custom designs. Every flange undergoes strict quality control to ensure bolt hole accuracy, sealing surface smoothness, and dimensional tolerances. Multiple surface treatment options are available to meet your project's specific needs.

Why Choose Our Ti Grade 2 Flanges?

- Superior Corrosion Resistance: Ideal for chemical, marine, and harsh industrial environments
- Lightweight yet Strong: High strength-to-weight ratio reduces structural load and improves efficiency
- Fully Customizable: Tailored to your project specifications
- Durable & Reliable: Maintains performance in extreme conditions

Grade 2 Titanium Flange Specifications

1. Nominal Diameter (DN)

Size Category | Common Sizes | Applications

Small & Medium | DN10, DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100 | Instrument pipelines, laboratory equipment, small chemical devices

Large | DN125, DN150, DN200, DN250, DN300 | Standard industrial pipelines, petrochemical equipment, heat exchangers

Extra-Large (Custom) | DN350 – DN2000+ | Large storage tanks, main pipelines,

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2. Sealing Surface Types

Type | Description

Flat Face (FF) | For general sealing requirements

Raised Face (RF) | Enhanced sealing for high-pressure pipelines

Tongue & Groove (T&G) | Leak-proof design for specific processes

Ring Type Joint (RTJ) | High-pressure, high-temperature sealing, widely used in petrochemical applications

Frequently Asked Questions

Q1: Which international standards do Ti Grade 2 flanges meet?

A1: Our flanges are manufactured according to ASTM B381, ASME B16.5, and ASME B16.47. We also accept custom designs based on your drawings.

Q2: What is the difference between Grade 2 and Grade 5 flanges?

A2: Grade 2 (industrial pure titanium) offers excellent corrosion resistance and good ductility, commonly used in chemical and marine industries. Grade 5 (Ti-6Al-4V) provides higher strength, ideal for aerospace and high-load applications. You can choose based on your project requirements.

Q3: What are the typical sizes and thicknesses for titanium flanges?

A3: Nominal diameters (DN) typically range from DN10 to DN450. Pressure ratings: PN16–PN400. Thickness can be customized according to standards or your specific needs.

Q4: How do you ensure flange quality?

A4: Every flange undergoes ultrasonic testing, dimensional tolerance checks, and sealing surface inspections, fully complying with ISO 9001 and AS9100 quality systems.

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Q5: Besides flanges, what titanium products can you provide?

A5: In addition to Grade 2 titanium flanges, we offer titanium forged parts, ASTM B381 titanium bars, titanium plates, titanium pipes, titanium fasteners, and other customized titanium components for a complete one-stop sourcing solution.

Contact us today to discuss your project specifications and get a custom quote for your Ti Grade 2 flanges. Let us help you achieve efficient, durable, and safe piping solutions.

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