

Titanium Long Weld Neck Flange

Material: Titanium Grade 2, Grade 5, Grade 7, Grade 12

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

Pressure Rating: Class 150 – 2500

Size Range (NPS): 1/2" – 60" (custom sizes available)

Flange Face: FF, RF, FM, TG/RTJ (compatible with gaskets for efficient sealing)

Titanium Long Weld Neck Flange | ASME B16.5 & B16.47 | Baoji Zecheng Metal

If you are looking for a reliable solution for high-pressure, high-temperature, and corrosive pipeline systems, a [Titanium Long Weld Neck Flange \(LWNF\)](#) is the right choice. With its extended tapered neck and butt-weld connection, this flange ensures safety, durability, and excellent performance even under the most demanding conditions.

Technical Parameters of Long Weld Neck Titanium Flange

Parameter	Specification	Description
Bolt Holes	ASME/ANSI standard	Ensures secure and reliable installation
Dimensional & Weight Tolerance	±1–2% (depending on size)	Guarantees precise fit during installation
Surface Treatment	Machining, Polishing, Anodizing	Enhances corrosion resistance and reduces media contamination
Manufacturing Process	Forged / Rolled / Machined	Provides high strength and toughness for titanium flanges
Inspection & Certification	UT, RT, PT testing; ISO9001 & AS9100	Ensures defect-free, high-quality, and reliable performance
Connection Method	Single-side welding, double-nut fixing, or customized	Meets various installation and maintenance requirements

Note: All specifications can be customized based on your application, including extreme temperatures, corrosive media, and high-pressure environments.

Key Advantages of Titanium LWNF

1. Reduced Stress Concentration

The long tapered neck distributes weld stress evenly, enhancing safety in pipelines carrying

high-pressure, high-temperature, or corrosive fluids.

2. Smooth Flow Path

Extended neck minimizes turbulence and pressure drop, ideal for high-velocity flow systems.

3. Reliable Welding Performance

Resistant to deformation during welding, ensuring integrity of the sealing face and extending pipeline service life.

4. High Customization

Available in customized neck length, flange height, material grades, pressure classes, and surface finishes to meet your specific project requirements.

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

As a professional supplier of titanium and high-performance metal flanges, we provide you with:

- Premium Titanium Long Weld Neck Flanges and other materials (carbon steel, stainless steel, alloy steel)
- Full compliance with ASME, ASTM, ANSI standards
- Custom options for flange height, neck length, pressure class, and surface treatment
- ISO9001 & AS9100 certified production, ensuring top quality and reliability

Whether you need flanges for high-pressure pipelines, chemical processing, marine engineering, or special service environments, Baoji Zecheng Metal Materials Co., Ltd. delivers safe, durable, and efficient solutions tailored to your requirements.