



CARBON STEEL FORGED FLANGE , ASTM A105 FLANGE

Basic Information

- Place of Origin: China
- Brand Name: Kasugai
- Certification: ASME B16.5
- Model Number: ASTM A105N / SA105N
- Minimum Order Quantity: 100 kg
- Price: To be negotiate (USD)
- Packaging Details: Wooden Package
- Delivery Time: 30 days
- Payment Terms: T/T,L/C,D/P
- Supply Ability: 500 ton per month



Product Specification



More Images



Product Description

A Carbon Steel Forged Flange is a specialized connector produced through the forging process, which involves heating carbon steel and shaping it using compressive forces. Unlike casting, forging refines the grain structure of the metal, resulting in superior mechanical properties, higher impact strength, and better fatigue resistance. These flanges are designed to join pipes, valves, pumps, and other equipment to form a pipeline system.

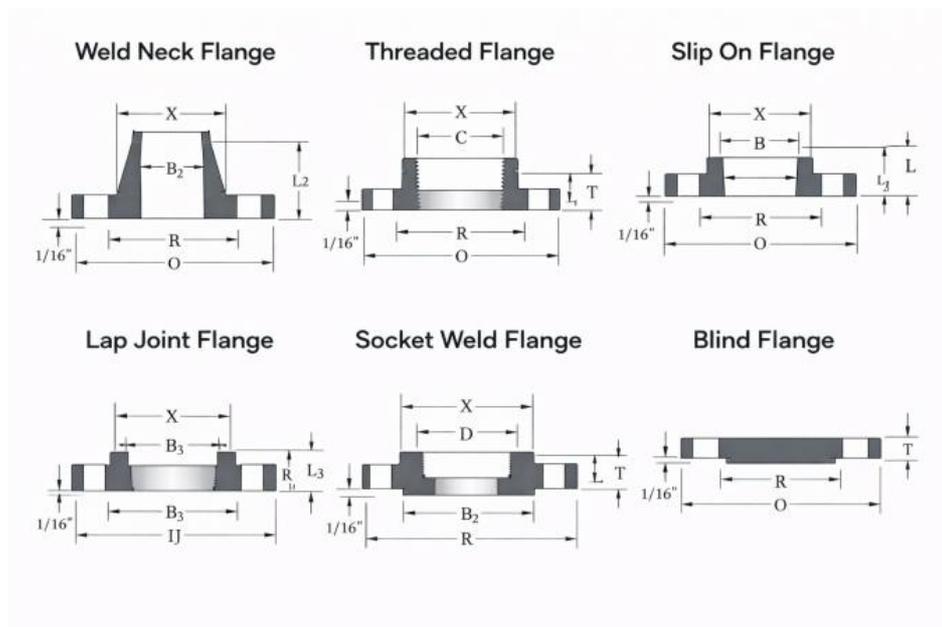
Key Features & Benefits

- 1. Superior Material Integrity:** The forging process eliminates internal voids and gas pockets, ensuring a dense, uniform structure capable of withstanding extreme stresses.
- 2. High Pressure & Temperature Tolerance:** Typically manufactured from grades like ASTM A105, these flanges are built to handle the rigors of high-temperature service.
- 3. Precision Machining:** Each flange features a finely machined sealing surface (Raised Face, Flat Face, or Ring Joint) to ensure a leak-proof connection.
- 4. Protective Coatings:** To combat carbon steel's natural enemy—corrosion—these flanges are often finished with black oil, yellow paint, or hot-dip galvanization.

Technical Specification

Feature	Specification
Material Grades	ASTM A105, A350 LF2, A694 F42-F70, P245GH, C22.8
Standard Compliance	ASME B16.5, B16.47, EN 1092-1, DIN, JIS, BS
Pressure Ratings	Class 150, 300, 600, 900, 1500, 2500 (PN6 to PN400)
Size Range	1/2" (DN15) to 60" (DN1500)
Face Types	RF (Raised Face), FF (Flat Face), RTJ (Ring Type Joint)

Forged Flange Types



Frequently Asked Questions (FAQ)

1. What is the difference between Forged and Cast flanges?

Forged flanges are made by hammering or pressing heated steel, which creates a continuous grain flow. Cast flanges are made by pouring molten metal into a mold. Forged flanges are significantly stronger and less prone to cracking under high pressure.

2. Does a Carbon Steel Forged Flange rust?

Yes, carbon steel is susceptible to oxidation. However, this is easily managed with industrial coatings like anti-rust oil, epoxy painting, or zinc plating (galvanizing).

3. What is the most common grade for these flanges?

ASTM A105 is the most widely used carbon steel grade for forged piping components in ambient and higher-temperature service.

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