



Hebei Cang Tie Steel Pipe Company

Flanges Catalog

Welcome to our comprehensive product catalog showcasing our industry-leading Flanged . With decades of expertise and commitment to quality, we deliver precision-engineered products that meet the most demanding industrial requirements.

Our Company at a Glance

Hebei Cang Tie Steel Pipe Company is strategically located in China's industrial heartland, where we've established ourselves as premier manufacturers of high-quality steel pipes with flanges. Our products serve critical infrastructure across multiple sectors:



Industrial

Supporting manufacturing facilities with reliable piping systems



Petrochemical

Delivering high-pressure solutions for demanding environments



Waterworks

Ensuring clean water transmission with durable infrastructure



Construction

Providing structural integrity for commercial and industrial projects





Why Choose Flanged Steel Pipes?

1

Simplified Installation

Flanged connections eliminate complex welding requirements, reducing installation time by up to 40% compared to traditional pipe joining methods. Maintenance and future modifications become straightforward operations, minimizing system downtime.

2

Enhanced Sealing Performance

Our precision-machined flange faces create superior sealing surfaces that maintain integrity under extreme pressure conditions. This results in leak-free operation even in the most demanding industrial environments with fluctuating temperatures.

3

Global Compatibility

All our flanged products are manufactured to meet international standards including ANSI, API, and AWWA specifications. This ensures seamless integration with existing infrastructure and components from other global suppliers.

Product Range Overview



Our comprehensive product range includes various flange types to meet every industrial application requirement. Each product undergoes rigorous quality control to ensure dimensional accuracy and structural integrity.

Flange Types

- **Weld Neck**

Superior for high-pressure, high-temperature applications

- **Slip-On**

Cost-effective solution for moderate pressure systems

- **Blind**

Perfect for sealing pipeline ends and testing segments

- **Threaded**

Ideal for smaller diameter pipes requiring frequent disassembly

- **Socket Weld**

Excellent for small-bore, high-pressure applications

- **Lap Joint**

Designed for systems requiring regular inspection and cleaning

Sizes range from 1/2" to 24" with custom dimensions available upon request. Pressure classes include 150, 300, 600, 900, and 1500 PSI with higher ratings for specialized applications.

Technical Specifications Snapshot

3

Primary Standards

ANSI B16.5, B16.47, AWWA C207

5+

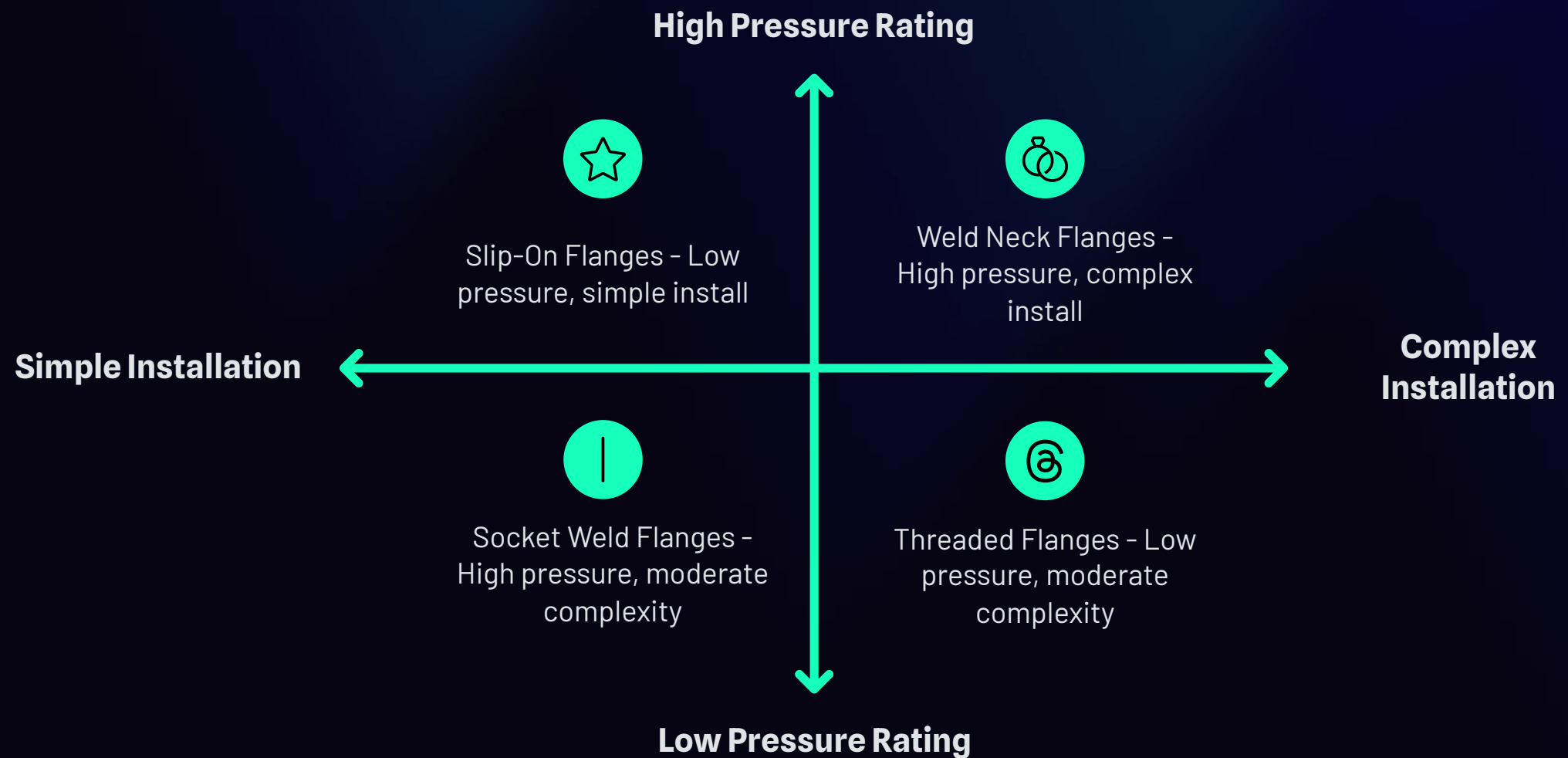
Material Grades

Carbon, stainless, and alloy steel options

40+

Size Configurations

Standard and custom dimensions



Our engineering team optimizes wall thickness and bore dimensions for each application, balancing structural integrity with optimal flow characteristics. All specifications are meticulously documented in our comprehensive technical datasheets available upon request.

Featured Product: Weld Neck Flanged Pipes

The Gold Standard for Critical Applications

Our premium Weld Neck Flanged Pipes represent the pinnacle of pipeline engineering, specifically designed for environments where failure is not an option:

- Seamless transition from pipe to flange reduces turbulence and stress concentration
- Superior resistance to bending and thermal cycling
- Exceptional strength distribution throughout the connection
- Available in RTJ (Ring Type Joint) face design for extreme pressure applications

Each weld neck flange undergoes 100% radiographic testing to ensure weld integrity and structural soundness, providing unmatched reliability for your most demanding applications.



i **Industry Insight:** Weld neck flanges are the preferred choice for 87% of high-temperature petrochemical applications due to their superior stress distribution properties.

Quality Assurance & Testing

Material Verification

Chemical composition and mechanical properties tested to ensure compliance with specified grade requirements

1

2

Dimensional Inspection

Precision measurement of all critical dimensions including bolt hole alignment, face flatness, and surface finish

3

Pressure Testing

Hydrostatic testing at 1.5× rated working pressure to verify structural integrity and leak resistance

4

NDT Examination

Non-destructive testing including ultrasonic, magnetic particle, and radiographic inspection for critical applications

5

Certification

Comprehensive documentation package including material certificates, test reports, and traceability records

Our ISO 9001:2015 certified quality management system ensures consistent adherence to the highest standards throughout our manufacturing process, from raw material selection to final product delivery.

Customization & Services



Beyond our standard product range, we offer comprehensive engineering support to develop tailored solutions for your unique challenges.

Design Collaboration

Our engineering team works closely with your project managers to develop custom flange designs optimized for your specific operating conditions and space constraints.

Material Selection

Expert guidance on material selection based on corrosion resistance requirements, temperature ranges, and cost considerations for your application.

Technical Support

Ongoing technical assistance from initial inquiry through installation and beyond, ensuring optimal performance throughout the product lifecycle.

Our commitment extends beyond product delivery - we build lasting partnerships through exceptional service and technical expertise.

Case Study: Successful Industrial Pipeline Project



✓ Key Results

- 5,000+ flanged pipes supplied
- 30% faster installation time
- Zero leakage incidents in 2 years
- 100% compliance with project specifications

Petrochemical Plant Expansion

When one of China's largest petrochemical manufacturers needed to expand their processing capacity, they faced significant challenges with their existing pipeline infrastructure:

- Extremely corrosive process fluids requiring specialized materials
- Tight installation timeline to minimize production disruption
- Complex routing through existing structures requiring precise measurements

"Hebei Cangtie delivered not just superior products but exceptional support throughout our project. Their engineering team identified potential issues before they became problems, and their quality control was impeccable. Two years later, we haven't experienced a single flange failure."

— Zhang Wei, Project Director

Contact Us & Next Steps

Your Trusted Flange Pipe Partner

Get in Touch

Reach out to our sales team to discuss your project requirements and receive expert guidance on product selection.

Phone: +86-15100808036

Email: hudson@cangtiepipe.com

Website: : <https://ctflange.com>

Request Documentation

Ask for our detailed technical brochures, product specifications, and case studies relevant to your industry and application.

Receive Quotation

Our team will prepare a comprehensive quotation including product specifications, pricing, delivery timeline, and available services.

Partner with Hebei Cangtie Steel Pipe Company for flawless execution of your next pipeline project. Let's build pipeline success together!

