



# INDUSTRIAL PIPING PRODUCTS

**FERROBEND**  
EXCELLENCE INHERENT



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# PROVIDING COMPREHENSIVE SOLUTIONS TO PIPING INDUSTRIES

FerroBend is an Indian Entity purely engaged in Manufacturing & Stock Holding of Piping Products exclusively for sectors affiliated to Process Piping, Fuel Gas Piping, Power Piping & other disciplines in Pipeline Transportation for Liquid Hydrocarbons, Refrigeration Pipeline, Heat Transfer Components, Gas Transmission & Distribution System.

Commonly known industrial field of applications includes Chemical & Food Processing Units, Petrochemical Plants, Oil, Gas & Steam Transmission Pipelines, Nuclear & Thermal Power Generation Plants, Offshore Engineering, Mining, Sub Sea Piping, etc.

FerroBend is young but backed with experiences partners, worldwide counterparts, valued associates and strong business ethics enough to drive through the sector in a very short period. FerroBend values and apprehends both Clientele & Vendor perception and strives to create concurrence between, thus creating long terms business threads required to sustain growth and longevity in the field.

## CORE ACTIVITIES



### Manufacturing

Just like any craftsmen we are equipped with modern technology & latest Industrial Standards to meet any Manufacturing requirement in the Piping World



### Outsourcing

Let us do the Hard-work. Parallel team equipped with High Standard for Outsourcing the best & affordable products for your Comprehensive project.



### Stock Clearance

Order Surplus! Our Stock products are off-shelf ready to be shipped the next day. All Regular products & Grades available.



### Urgent Needs

Additional Fast Track Manufacturing Concept adopted for meeting deadline for your Shut Down Project.







## MANUFACTURING RANGE

### PIPE FITTINGS

- Wrought Butt Welded
- Forged Socket Weld
- Forged Screwed / Threaded
- Plate Fabricated Fittings
- Bar Stock / Block Type Fittings
- Hygienic / Sanitary Pipe Fittings

### TUBE FITTINGS

- Instrumentation
- Hydraulic
- Pneumatic

### FLANGES

- Weld Neck
- Slip-On
- Socket Weld
- Threaded
- Lap Joint
- Blind
- Orifice Flange
- Long Weld Neck
- Nipo Flange
- Weldo Flange
- Reducing Flange
- Expander Flange
- Nozzle Flange
- Spectacle Blind
- Blind & Spacer

### FASTENERS

- Hex Bolts
- Stud bolts
- Screws
- Nuts
- Washers

### VALVES

- Gate Valve
- Globe Valve
- Butterfly Valve
- Diaphragm Valve
- Plug Valve
- Check Valve
- Ball Valve
- Knife Valve
- Pinch Valve

### EXPANSION JOINTS

- Rubber Expansion Joints
- Metallic Expansion Joints &
- Teflon Expansion Joints

## STOCK HOLDING

### PIPES

- Seamless Pipes
- Welded Pipes

### TUBINGS

- Seamless Tubings
- Welded Tubings

### PLATES

- Hot Rolled
- Cold Rolled

### BAR STOCK

- Rolled
- Forged





## PIPE FITTINGS

An ISO 9001:2008 Certified Manufacturer of Wrought Butt Welding & Forged Pipe Fittings suitable for all service type. FerroBend initiated its manufacturing activity with Duplex Stainless Steel Butt Weld Pipe Fittings and is well equipped with manufacturing Low Temperature Alloy Steel, High Temperature Carbon Steel to Marine Grade Copper Nickel on regular basis.

Apart from standard range, we have expertise in offering field critical fittings in Titanium, Zirconium, Tantalum. We can produce these pipe fittings with in American, German, European, British & ISO Standards with additional industrial specifications and norms.

### Dimensional Range

3/8" to 24" Seamless, 3/8" to 60" Welded

### Categories

- Butt Weld Fittings
- Socket Weld Fittings
- Threaded Fittings
- Fabricated Fittings
- Block Type Butt Weld Fittings
- Branch Fittings
- Investment Casting Fittings
- Hygienic Pipe Fittings

### Materials

- Ductile Iron
- High Strength Carbon Steel
- Low Temperature Alloy Steel
- Stainless Steel
- Duplex Stainless Steel
- Super Duplex Steel
- Marine Grade Copper Nickel
- Corrosion Resistance Nickel
- Monel Alloy
- High Strength Inconel
- Crevice Resistance Hastelloy
- Aerospace Grade Titanium
- Tantalum & Zirconium Alloys



### Manufacturing Standards

American ASME B16.9, B16.11, B16.28, B16.49  
 German DIN 2616-1, 2616-2, 2617, 2628, 2619, 2980, 2981, 2982, 2983, 2986, 2990, 2991, 2993, 2999-2, 28011  
 European EN 10253, 11851, 11852, 11853, 11864  
 British BS 1640 part 1, 1640 part 2, 1640 part 3, 1640 Part 4, 1740, 3799, 4825 Part 1, 4825 part 2, 4825 part 3, 4825 part 4  
 & ISO Standards including ISO 3419 & ISO 5251



## PIPE FLANGES

Precisely forged & machined Pipeline Flanges for Oil & Gas Platforms, Petrochemical, Nuclear & Thermal Power Extraction, Marine & Offshore Engineering, Metal & Mining Installations, etc. FerroBend manufactures & supply CNC machined Flanges for acute precision as required for high critical jobs with value added services like coating and third party inspection.

These Flanges can be either forged or plate formed into desired size and tolerance under various manufacturing standards including American, German, European, British, Japanese, Russian & ISO.

### Dimensional Range

1/2" NPS to 96" NPS

### Pressure Ratings

75LBS upto 2500LBS, PN1.6 to PN400

### Standard Pipeline Flanges

Welding Neck Flange, Slip-On Flange  
Socket-Weld Flange, Threaded Flange  
Lap Joint Flange, Blind Flanges

### Special Flanges & Companions

Long Weld Neck Flange, Orifice Flange  
Expander Flange, Reducing Flange  
Weldo Flange, Nipo Flange, Nozzle Flange  
Spectacle Blind, Blind & Space

### Material Offered

Ductile Iron, High Strength Carbon Steel, Low Temperature Alloy Steel  
Stainless Steel, Duplex Stainless Steel, Super Duplex Steel  
Marine Grade Copper Nickel, Corrosion Resistance Nickel  
Monel Alloy, High Strength Inconel, Crevice Resistance Hastelloy  
Aerospace Grade Titanium, Tantalum & Zirconium Alloys

### Manufacturing Standards

American ASME B16.5, B16.36, B16.47 Series A & B, AWWA C207, API 6A & API 605  
German DIN 2527, 2573, 2576, 2502, 2503, 2630, 2631, 2632, 2633, 2634,  
2635, 2636, 2638, 2628, 2629, 2627, 2641, 2642, 2565, 2566,  
2567, 2568, 2569, 28115  
European EN 1092-1  
British BS10, 1560 & 4504  
MSS-SP-44  
Japanese JIS B2220  
Russian GOST 12815, 12820, 12821, 12836  
South African SABS 1123





## FASTENERS

FerroBend offers comprehensive range Fasteners with variety in shapes, sizes, material, dimensional specifications, etc. High tensile fasteners to super critical Zirconium Bolting, FerroBend is capable of supplying full range fasteners with required industrial specifications and norms. Moreover fasteners are very useful for connecting Flanges & Flanged Connections in piping system.

Hex Bolts, Studs, Socket Head Cap Screw, Socket Set Screw, Hex Nuts, Heavy Hex Nut, Acorn Nuts, Plain & Spring Lock Washers are some of regular fastener products used in piping system.

### Dimensional Range

M1 to M110 in Metric  
#0 to 4" in Imperial

### Common Fastener Products

Hex Bolts  
Heavy Hex Bolts  
Machine Screws  
Stud Bolts  
Socket Head Cap Screw  
Set Screws  
Flange Bolts  
Hex Nuts  
Heavy Hex Nuts  
Thin Jam Nuts  
Acorn Nuts  
Hex Coupling Nuts  
Plain Washers, Spring Washers  
Lock Washers  
Dowel Pins

### Material Category

High Strength Carbon Steel  
Low Temperature Alloy Steel  
Stainless Steel  
Duplex Stainless Steel  
Super Duplex Steel  
Marine Grade Copper Nickel  
Corrosion Resistance Nickel  
Monel Alloy  
High Strength Inconel  
Crevice Resistance Hastelloy  
Aerospace Grade Titanium  
Nitronic & Nimonic Alloys  
Silicon, Aluminum & Phosphor Bronze  
Tantalum & Zirconium Alloys

### Material Specifications

ASTM A193, A307,  
A320, A325, A449,  
A490, A540, A574,  
F468, F593, F835,  
F837, F2281  
BS EN ISO 3506-1

### Dimensional Standards

DIN 912, DIN 913,  
DIN 916, DIN 931,  
DIN 933, DIN 934,  
DIN 939, DIN 940, DIN 976, DIN 439,  
DIN 125, DIN 127, DIN 2510  
ISO 4014, ISO 4017, ISO 4032, ISO 4034, ISO  
4762, ASME B18.2.1, ASME B18.3, ASME  
B18.2.4.1M, ASME B18.2.2, etc are some of the  
most common dimensional standards for fasteners.

### Coatings

Plain Finish, Zinc Plated, Cadmium Plated  
Hot Dipped Galvanized, Phosphate, PTFE Coated  
Black Zinc, Aluminum Flake, Copper Electroplated  
Nickel Plated & Chrome Plated

### Thread Types

UN – Unified National Threads  
UNC – Unified National Coarse  
UNF – Unified National Fine  
UNEF – Unified National Extra Fine  
UNS – Unified National Special  
UNR – Unified National Round (round root)  
ISO – International Standards Organisation (metric)  
BSW – British Standard Whit-worth  
BSF – British Standard Fine







## INDUSTRIAL VALVES

Valves are very crucial for operating any piping system. FerroBend works with a chain of long established Associates & Manufacturing Entities to enable us to keep a steady stock of Industrial Valves including Gate, Globe, Butterfly, Pinch, Diaphragm type, etc. Apart from these FerroBend in-house manufactures small sizes Ball Valves, Needle Valves, Check Valves & Manifolds.

These Valves are either Cast formed or Forged. Our team is in full-time co-ordination with the entities to ensure indifferent quality & precision every time. These Valves are manufactured in accordance with latest industrial standards & specifications

**Dimensional Range**  
3/8" to 96"

### Industrial Valve Types

- Gate Valve
- Globe Valve
- Butterfly Valve
- Diaphragm Valve
- Plug Valve
- Check valve
- Ball Valve
- Knife Valve
- Pinch Valve

### Material Offered

- Ductile Iron
- High Strength Carbon Steel
- Low Temperature Alloy Steel
- Stainless Steel
- Duplex Stainless Steel
- Super Duplex Steel
- Marine Grade Copper Nickel
- Corrosion Resistance Nickel
- Monel Alloy
- High Strength Inconel
- Crevice Resistance Hastelloy
- Aerospace Grade Titanium
- Tantalum & Zirconium Alloys

### Dimensional Standards

API 595, API 599, API 600, API 602, API 6D, API 609, BS EN 593, BS 5153, DIN 3202, DIN 3352, DIN 11851, ISO 5752 are some of the common dimensional standards.





## EXPANSION JOINTS

Expansion joints are used in piping systems to absorb thermal expansion where the use of expansion loops is undesirable or impractical. FerroBend excels in fabrication and supply of Expansion joints in Metallic, Teflon & Rubber Configuration. Expansion Joints a.k.a Expansion Bellows are designed for Linear, Lateral & Axial tension as well.

Depending upon the piping joints, expansion joints can be offered with Butt-Weld, Threaded & Flanged Connections. Flanges to suit dimensional compliance of ASME B16.5, B16.47, API 6A, API 605, MSS-SP-44, EN 1092-1 & various DIN Standards.

### Dimensional Range

1/2" to 60" NPS

### Pressure Ratings

75LBS upto 2500LBS & PN1.6 to PN400

### Standard Types

Tapered Joints, Offset Joints, Sleeve-Type Joints, Filled Arches, Multiple Arches, Rectangular, No Arch & Wide Arch.

### Construction

Metallic >> Free Type, Guided Rod Type, Gimbal, Hinged, Universal, Reinforced & Pressure Balance Type.

Rubber >> Single Sphere, Double Sphere, Spool Type.

Teflon >> Teflon lined Metallic & Teflon Lined Rubber Expansion Joint

### End Connections

Butt-Weld, Threaded & Flanged

### Material Offered

Metallic >> Ductile Iron, Carbon Steel, Alloy Steel, Stainless Steel, Duplex & Super Duplex Stainless Steel, Copper Nickel, Titanium, Tantalum, Zirconium, Copper & Bronze. Non Metallic >> Teflon & Rubber

### Design Standards

These Expansion Joints are customized as per customer requirement accounting the pressure-temperature ratings, design length & desired end connections. Flanges to suit ASME B16.5, B16.47, MSS-SP-44, JIS B2220, BS10, 1560, EN 1092-1 & DIN Standards.







**Value Added Services**

- Cut to Size
- Custom Fabrication
- Forgings
- Heat Treatment
- Coating & Surface Finishing
- Perforation Jobs
- Third Party Inspection

**Testing & Inspection Facility**

- Value of the chemical composition of steel: the cast, the product
- Dimensional checks
- Mechanical properties: tensile, hardness, impact bend test
- Technological tests: flattening, flaring, flanging, bending, ring test
- Impermeability: hydro pressure test, non-destructive methods
- Non-destructive testing (eddy current, stray flux, ultrasound)
  - longitudinal defects, transverse defects duality
- Further testing (metallography, corrosion resistance, etc.).

**Certification**

- Acceptance test certificate 3.1.A
- Acceptance test certificate 3.1.B
- Acceptance test certificate 3.1.C
- Acceptance test certificate 3.2

**Stock Program**

FerroBend holds comprehensive stock of regular carbon steel, chrome moly alloy steel, stainless steel and duplex stainless steel piping & tubing products. Stock sizes are 1/2" to 24" in stainless steel & nickel alloys & 1/2" to 48" in carbon & alloy steel. Other products includes boiler quality plates, alloy steel, stainless steel, copper nickel, high nickel, titanium alloys, etc.

**Logistics**

Orders are thoroughly secured over damage and shipped with utmost care. We offer comprehensive shipping methods teamed up with expertise in Global Freight Forwarding & Logistics. Our logistic team is always in touch with the freight and keeps you updated till the cargo reaches your destination.

We offer hassle free shipping experience with following partners.





# FIELDS OF APPLICATION

- OIL & GAS REFINING UNITS
- NUCLEAR & THERMAL POWER GENERATION
- METAL & MINERAL MINING
- AEROSPACE & DEFENSE INSTALLATION
- SEA WATER DESALINATION
- CHEMICAL & PETRO-CHEMICAL INDUSTRIES
- FOOD & BEVERAGE PROCESSING PLANTS
- AIR SEPARATION & CRYOGENIC SYSTEMS
- SUBSEA PIPING
- FABRICATION OF HEAT EXCHANGERS, CONDENSER, ETC.
- SHIP BUILDING & MARINE ENGINEERING
- OIL, GAS & STEAM TRANSMISSION PIPE LINE





**Works I :**

1/54, R. K. Industrial Park,  
Off NH8 Highway,  
Rajkot, Gujarat, INDIA.  
Tel.: +91 80 8060 8753

**Works II :**

C-120, Marudhar Industrial Estate,  
Thane, Maharashtra, INDIA.  
Tel.: +91 22 4004 4006  
Email : sales@ferrobend.com



**Fully Dedicated to Piping Sector**

FerroBend dedicates its operation & effort towards development of piping sector & desires to function for Process Piping, Power Piping, Fuel & Gas Piping, Hydro Carbon & Fluid Transportation Systems, Heat Exchangers & Condenser Piping Systems.

**Offers Products with Global Standards**

With Vision to serve on the Global Platform, FerroBend recognises the need for improvement in production, with modern technology & latest updates from the industry. FerroBend offers Products in American, German, European, Japanese & Indian Standards as well.

**Equipped with Technical Know How**

FerroBend perceives the dream of being the largest entity for Piping solutions from India. To chase the same, we understands the need to change, diversify & adapt to new & promising technologies to bring the best into the Piping Industry.

**Global Resources with Local Support**

With 3 Decade old roots, FerroBend has inherited all the Global resources from its parent entity to source down any requirement for piping projects. Be it any rare Metal/Alloy/Product, FerroBend delivers it all.



**Warehouse I :**

226/1-2, Rai Village,  
Uttan Road, Thane,  
Maharashtra, INDIA.

**Warehouse II :**

111, S S Marg,  
Two Tank, Mumbai,  
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"IT BEGINS WITH A THOUGHT, PROCEEDS WITH EFFORTS AND CONCLUDES IN SUCCESS"