

# PS Steel: Your Source for Stainless Steel Pipes

PS Steel is a leading supplier of stainless steel pipes in Delhi, India, dedicated to providing high-quality products and exceptional service. Our extensive inventory ensures a wide selection of grades, sizes, and dimensions to meet the diverse requirements of our valued customers.

# Overview of SS Pipe Grades and Sizes

## 1 Austenitic

The most common grade, known for its excellent corrosion resistance, ductility, and weldability. These pipes are widely used in various industries due to their superior performance.

## 3 Martensitic

Known for their high strength and hardness, these grades are particularly suitable for applications that demand excellent wear resistance. They are often used in demanding environments like oil and gas extraction.

## 2 Ferritic

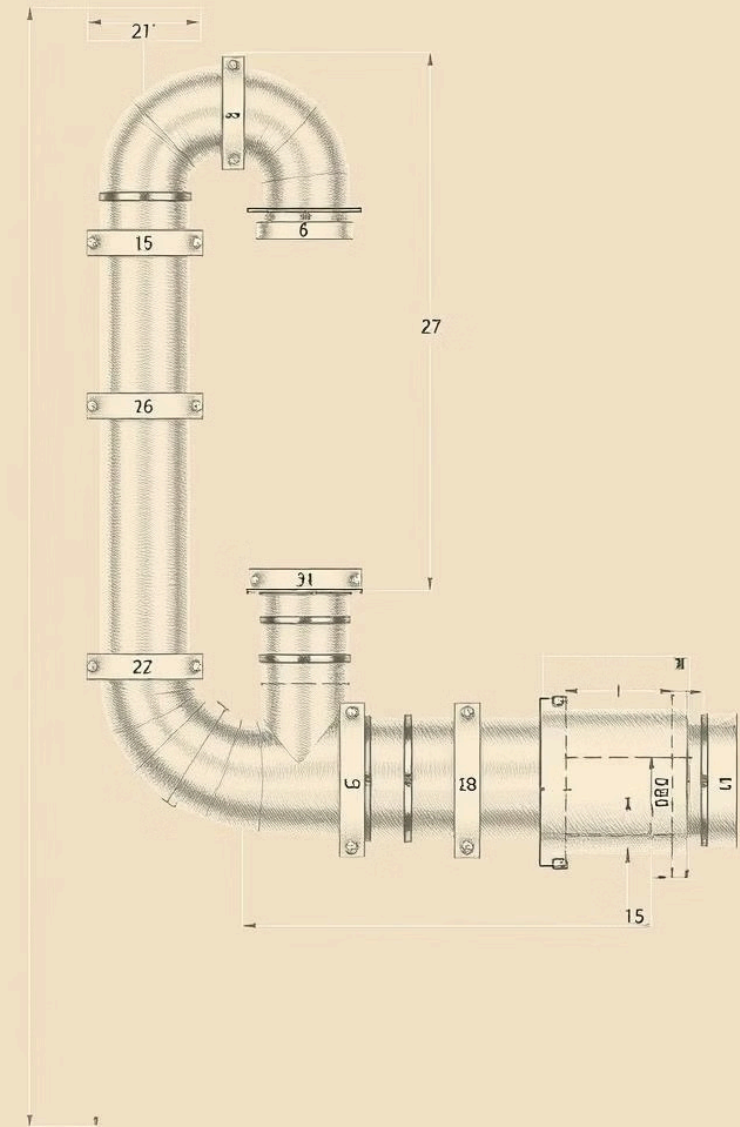
Offers good corrosion resistance and high strength, often used in applications requiring resistance to high temperatures and pressure. These pipes are commonly found in industrial settings and power plants.

## 4 Duplex

Combine the desirable properties of austenitic and ferritic grades, offering exceptional strength, corrosion resistance, and weldability. They are commonly used in demanding industries like chemical processing and offshore construction.

# Dimension Details for SS Pipes

Outer Diameter	Inner Diameter	Wall Thickness	Length
6 mm to 1200 mm	4 mm to 1190 mm	1 mm to 20 mm	6 meters to 12 meters



# Advantages of SS Pipes

## Corrosion Resistance

Stainless steel pipes are highly resistant to corrosion, ensuring long-term durability and minimizing maintenance requirements. Their ability to withstand harsh environments makes them ideal for applications exposed to chemicals, moisture, and extreme temperatures.

## Strength and Durability

Stainless steel pipes possess exceptional strength and durability, making them suitable for demanding applications that require high pressure and stress resistance. Their robust construction ensures reliable performance over extended periods.

## Hygiene and Cleanliness

Stainless steel pipes are non-porous and easy to clean, making them ideal for applications requiring strict hygiene standards. They are commonly used in food processing, pharmaceutical manufacturing, and healthcare facilities.

# Applications of SS Pipes



## Plumbing and Water Distribution

Stainless steel pipes are used in a wide range of plumbing applications, from residential water supply systems to industrial pipelines, due to their durability, corrosion resistance, and hygiene.



## Construction and Building

Stainless steel pipes play a crucial role in construction, providing structural support, drainage systems, and aesthetic elements, contributing to the strength, durability, and overall design of buildings.



## Industrial Equipment and Machinery

Stainless steel pipes are widely used in industrial settings, particularly in applications involving high temperatures, corrosive chemicals, and demanding operating conditions, ensuring reliable performance and longevity.

# Manufacturing Process of SS Pipes

## Raw Material Preparation

The process begins with the preparation of raw materials, including stainless steel scrap and virgin steel. The materials are carefully inspected and sorted based on their grade and quality.

1

## Rolling and Forming

The ingots are heated and passed through a series of rolling mills to reduce their cross-section and create the desired pipe shape. The rolling process is meticulously controlled to ensure accurate dimensions and consistency.

3

## Quality Inspection and Packaging

Before shipping, the finished pipes undergo stringent quality inspections to ensure they meet the specified standards. The pipes are then packaged appropriately to protect them during transportation.

5

## Melting and Casting

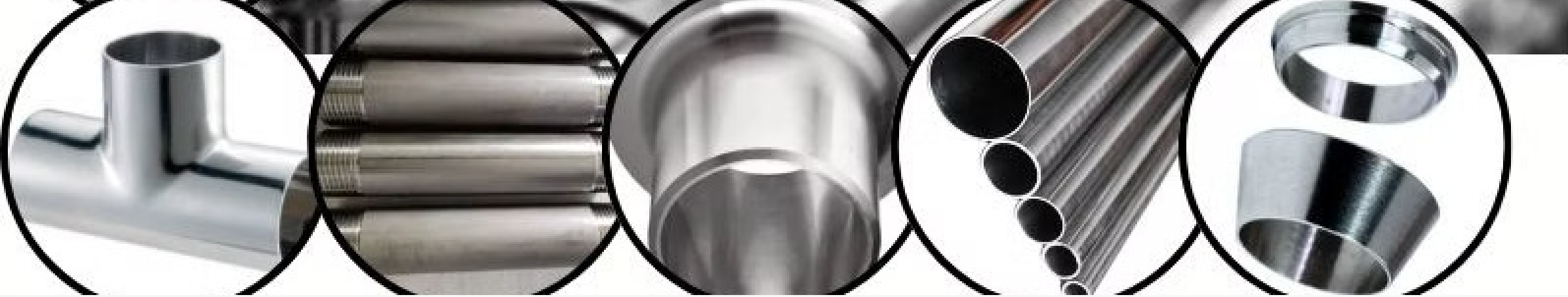
The prepared materials are melted in electric arc furnaces at high temperatures. The molten metal is then poured into molds to create ingots, the basic building blocks for pipes.

2

## Heat Treatment and Finishing

After rolling, the pipes undergo heat treatment processes to enhance their mechanical properties. The final step involves finishing processes like polishing or coating to achieve the desired surface finish.

4



# Quality Control Measures



## Visual Inspection

Experienced professionals conduct visual inspections throughout the manufacturing process to identify any surface defects, dimensional inconsistencies, or imperfections.



## Dimensional Accuracy

Precise measuring tools are used to verify the outer diameter, inner diameter, and wall thickness of the pipes, ensuring they meet the specified tolerances.



## Chemical Analysis

Chemical analysis is performed to confirm the chemical composition of the stainless steel, ensuring it meets the required grade standards and specifications.



## Mechanical Testing

The pipes undergo mechanical testing to evaluate their tensile strength, yield strength, elongation, and other important mechanical properties, ensuring they meet the performance requirements.



# Customization and Flexibility

## Custom Sizes

We offer a wide range of standard sizes and are also able to produce custom-sized pipes to meet your specific project requirements.

## Specific Grades

We provide a comprehensive selection of stainless steel grades, including austenitic, ferritic, martensitic, and duplex, tailored to your application needs.

## Finishing Options

We offer various finishing options for our pipes, including polished, brushed, pickled, and coated finishes, enabling you to achieve the desired aesthetic and functional characteristics.





# Delivery and Logistics

1

## Inventory Management

We maintain a robust inventory of stainless steel pipes to ensure prompt delivery and minimize lead times.

2

## Order Processing

We streamline the order processing system to ensure efficient handling and timely fulfillment of your orders.

3

## Transportation and Delivery

We partner with reliable transportation providers to ensure safe and timely delivery of your orders to your desired location.



See photos

## PS Steel | Stainless Steel Pipe Fit

Website

Directions

Save

4.8 ★★★★★ 101 Google reviews

Metal supplier in Delhi

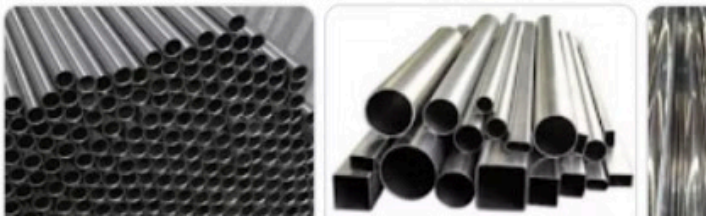
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**Hours:** Open · Closes 8 pm ▾

**Phone:** 098196 88259

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# Contact Information

PS Steel is committed to providing you with exceptional service and support. For inquiries and orders, please contact us through the following channels.

<https://psteel.co.in>

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Mobile No. 9819688259, 9899412628



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