



STEELMAN

PIPING SOLUTIONS

— MANUFACTURER · STOCKIST · IMPORTER · EXPORTER · SUPPLIER

Complete Piping. Premium Materials. Reliable Solutions.

Industrial piping materials and fabricated products — stocked in Mumbai, supplied across India and export markets.

01 Who we are

A supplier that answers the technical question.

Steelman Piping Solutions is a manufacturer, stockist, importer, exporter and supplier of industrial piping materials and fabricated products, serving a wide range of sectors with high-quality products, customized solutions and reliable service.

A commitment to quality, timely delivery and technical expertise has made us a preferred partner for industries across India and global markets.

We hold stock across stainless, duplex and super duplex, nickel alloy, titanium, copper and brass, carbon and structural grades. What we do not hold, we import against your specification. Where a standard component does not exist, we fabricate it.



Pipe bending and custom fabrication

GLOBAL REACH

Supplied to Saudi Arabia, Singapore and Africa

TRUSTED PARTNERSHIPS

Registered with BHEL and Rattan India

QUALITY ASSURED

MTC with every consignment

How we work

01

We Source

From reliable mills and manufacturers, with a Material Test Certificate against every heat.

02

We Fabricate

Spools, fittings, nipples and machined components built to your drawing and specification.

03

We Deliver

Worldwide and on schedule, with the documentation the site needs on arrival.

Why buyers come back

PREMIUM QUALITY

Sourced from reliable mills

COMPETITIVE PRICING

Best value, no compromise on quality

ON-TIME DELIVERY

Strong logistics network, worldwide

TESTED & CERTIFIED

MTC with every consignment

TECHNICAL SUPPORT

Guidance on material selection

CUSTOMIZED SOLUTIONS

Manufactured to your drawings

Certifications & quality

The paperwork that releases the material.

ISO Certified

Quality Management
System

PED Certified

Pressure Equipment
Directive
2014/68/EU

MSME Registered

Government of India

GST Registered

27AFXFS3331L1ZA

Material Test Certificates

Every consignment is supplied with an **EN 10204 3.1** certificate — issued by the manufacturer, validated by an inspection representative independent of production, and stating the actual chemical and mechanical results for the heat supplied.

Where your specification requires third-party witness we supply **EN 10204 3.2**, countersigned by an independent inspector. Tell us at enquiry stage: it changes the mill selection and the lead time.

Traceability

Material is marked and cross-referenced to the heat number. For fabricated assemblies we supply certificates for every component, together with the weld map.

Testing available

- Chemical composition and mechanical properties
- Hydrostatic and eddy current testing
- NDT on fabrications — DP, radiography, ultrasonic
- Positive Material Identification (PMI)
- Intergranular corrosion testing to ASTM A262
- Ferrite measurement on duplex and super duplex
- Low-temperature impact testing

Sour service & IBR

Material for H₂S service is supplied to **NACE MR0175 / ISO 15156** with hardness results on the certificate — for the whole assembly, not only the pipe. IBR-certified material is supplied with Form III-C.

What we supply against

ASTM

ASME

API

ANSI

MSS

DIN

EN

JIS

ASME B16.5

ASME B16.9

ASME B16.11

ANSI B36.10

ANSI B36.19

NACE MR0175 / ISO 15156

EN 10204 3.1

EN 10204 3.2

PED 2014/68/EU

IBR

If the service is sour, hygienic or falls under Indian boiler regulations, say so at enquiry stage. None of those can be added to material after it is made.

03 From coil to pipe

A welded pipe starts life as a flat coil of steel.

These are true cross-sections. A strip of fixed developed width is bent — never stretched — until its two edges meet and are forged together.

01 Coil

Every pipe starts as a flat coil, selected by grade before anything else happens.

SS 304L · 316L · 321 · 904L ·
Duplex · Carbon



02 Levelling & Slitting

The strip is levelled and slit to a developed width calculated from the finished outside diameter.

$$W = \pi \times OD$$

$$W = \pi \times OD$$



03 Roll Forming

Forming rolls bend the strip progressively — edge, to U, to O — without ever stretching it.

Sch. 5S to XXS



04 Welding

The two edges are heated and forged together. No filler metal — the parent material becomes the joint.

ASTM A312 · A358

05 Scarfing & Sizing

The weld bead is scarfed flush and sizing rolls bring the pipe to final diameter and straightness.

Bead removed ID and OD

06 Finish & Test

Cut to length, finished and tested. Material Test Certificates issued with every consignment.

Hydrotest · Eddy current

No filler metal is added. In a properly made seam the weld is the same alloy as the pipe, with the same corrosion behaviour.

Welded or seamless?

Welded — ERW, HFW or EFW. Formed from strip and welded along the seam. Tighter diameter and wall tolerance, better surface finish, more economical, and available in thin walls that seamless cannot practically reach. The seam is the only discontinuity and it is tested along its whole length.

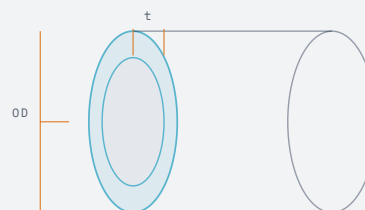
Seamless. No longitudinal weld at all. Preferred where the service is highly cyclic, where the specification forbids a seam, and often in sour and high-pressure duty.

For most process and utility service, welded pipe from a good mill with full certification is the correct engineering answer. If you are unsure which your specification demands, call us before you order.

04 Pipes & tubes

Seamless, ERW and welded.

TYPES	Seamless · ERW · Welded · Fabricated
SIZES / NPS RANGE	NPS 1/2" to 24" standard · larger and custom sizes on enquiry
SCHEDULES / THICKNESS	Sch. 5S to XXS · Sch. 5S, 10S, 40S, 80S (B36.19M) · Sch. 40, 80, 160, XXS (B36.10M)
STANDARDS	ASTM · ASME · API · ANSI · DIN · EN · JIS · ANSI B36.10 / B36.19
ENDS	Plain end · Bevelled end · Threaded · Custom to drawing
FINISH	Mill finish · Pickled & passivated · Polished · Mirror finish



Outside diameter is fixed by NPS. The schedule thickens the wall inwards and reduces the bore – which is what lets fittings and flanges fit any schedule of that size.

Grades

304 / 304L	316 / 316L	321	347	310S	904L	17-4 PH	API 5L	A106	A53	A333	S31803
S32205	S32750	S32760	Inconel	Monel	Hastelloy	Incoloy	6061	6063	6082	3004	
Titanium	Zirconium	Tantalum	Cu-DHP	Cu-ETP							

Pipe schedule — wall thickness in mm

NPS	OD	SCH 10S	SCH 40S	SCH 40	SCH 80
1/2"	21.3	2.11	2.77	2.77	3.73
3/4"	26.7	2.11	2.87	2.87	3.91
1"	33.4	2.77	3.38	3.38	4.55
1-1/2"	48.3	2.77	3.68	3.68	5.08
2"	60.3	2.77	3.91	3.91	5.54
3"	88.9	3.05	5.49	5.49	7.62
4"	114.3	3.05	6.02	6.02	8.56
6"	168.3	3.40	7.11	7.11	10.97
8"	219.1	3.76	8.18	8.18	12.70
10"	273.0	4.19	9.27	9.27	15.09
12"	323.8	4.57	9.53	10.31	17.48

5S / 10S / 40S / 80S to ASME B36.19M · 40 / 80 to ASME B36.10M. Indicative – confirm against the governing standard.

05 Fittings & flanges

Matched to the pipe, to the standard.

Butt-weld fittings

Elbows (45° / 90° / 180°), tees, reducers, caps, stub ends and crosses to ASME B16.9, ordered to the same schedule as the pipe they join.

A234 WPB

A403 WP304L

A403 WP316L

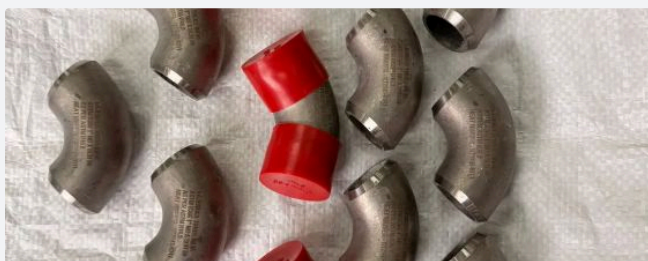
A403 WP321

A815 UNS S31803

A815 UNS S32750

B366 WPNCI

WP347



Flanges

Weld neck, slip-on, blind, socket weld, threaded and lap joint to ASME B16.5, plus hydraulic SAE J518 Code 61 and 62.

A105

A182 F304L

A182 F316L

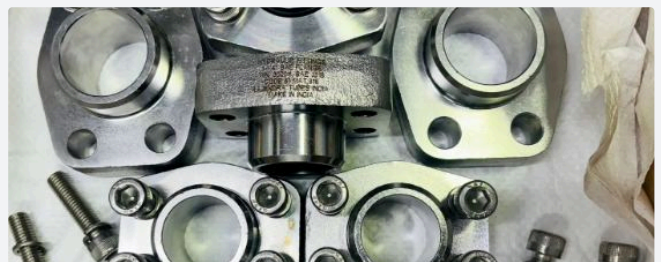
A182 F321

A182 F51

A182 F53

A182 F55

B564 N06625



SAE J518 Code 61 · 3000# · MAT.316

Class is not pressure. A Class 150 carbon steel flange is rated for about 19.6 bar at ambient and about 10 bar at 300 °C – always read the pressure-temperature table.

ASME B16.5 Class 150 — dimensions in mm

NPS	FLANGE OD	THICKNESS	BOLT CIRCLE	BOLTS	BOLT DIA.
1/2"	88.9	11.2	60.3	4	1/2"
1"	107.9	14.2	79.4	4	1/2"
2"	152.4	19.1	120.7	4	5/8"
3"	190.5	23.9	152.4	4	5/8"
4"	228.6	23.9	190.5	8	5/8"
6"	279.4	25.4	241.3	8	3/4"
8"	342.9	28.6	298.5	8	3/4"
10"	406.4	30.2	361.9	12	7/8"
12"	482.6	31.8	431.8	12	7/8"

Bolt circle, count and size are fixed by class and size, which is what makes flanges of the same class interchangeable.

06 Plates, sheets & bars

Cut, finished and certified.

Plates & sheets

Plate, sheet, coil, circles and profile-cut blanks from 0.5 mm to 100 mm. Finishes No. 1, 2B, No. 4, BA and mirror. Surface finish is a corrosion variable, not only an aesthetic one.

304 / 304L	316 / 316L	321	347	310S
904L	S690QL	S700MC	S355J2+N	
SA 516 Gr 60	SA 516 Gr 70	S31803	S32205	
S32750				

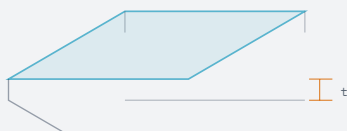


Plate & sheet finishes

NO. 1

Hot rolled, annealed, pickled. Structural and pressure work.

2B

Cold rolled, bright annealed, skin passed. The standard process finish.

NO. 4

Brushed, directional. Architectural and food equipment.

BA

Bright annealed, reflective without polishing.

MIRROR

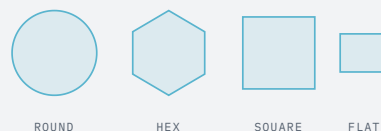
Mechanically polished. Low roughness makes cleaning easier.

Standard sizes 1000×2000, 1250×2500, 1500×3000 and 1500×6000 mm. Cut to size, and profile cut by plasma, laser or waterjet.

Bars

Round, hex, square, flat, bright, forged and busbar. State the production route — hot rolled, cold drawn or centreless ground — because it decides the tolerance.

SS 303	SS 304	SS 316	SS 4M	17-4 PH
15-5 PH	Free Cutting Brass	Admiralty Brass		
Silicon Brass	Cu ETP	Oxygen Free Cu	C360	
C63000				



Bar production routes

HOT ROLLED

Widest tolerance, scale-free. Correct where the bar is fully machined.

COLD DRAWN

Closer tolerance, brighter surface, higher strength from work hardening.

CENTRELESS GROUND

Close diameter tolerance, typically h9 or h11. Specify where the diameter is functional.

PEELED & POLISHED

Turned rather than drawn, removing the decarburised layer.

State the route on the order. "316 round bar 40 mm" without it will be supplied hot rolled, and the actual diameter may be a millimetre off nominal.

Speciality & exotic materials

The grades people call us about.

Stainless Steel

300 & 400 Series

Nickel Alloys

Inconel · Monel · Hastelloy · Incoloy

Aluminium

2024 · 3004 · 5052 · 6061 · 6082 · 7075

Copper & Copper Alloys

C110 · C101 · Phosphor Bronze · Cu-Ni

Inconel

600 · 625 · 718 · 800 · 825

Reactive Metals

Zirconium · Tantalum · Niobium

Urea Grades

2RE69 · 2RE10 · Sandvik grades

Tool & Alloy Steel

Custom alloys as per requirement

Duplex & Super Duplex

S31803 · S32205 · S32750 · S32760

Titanium

Gr. 2 · 5 · 7 · 12

Brass

Cu-Zn · Admiralty · Naval · Cartridge · Free Cutting

Incoloy

800 · 825 · 925

Monel

400 · K500

PH Grades

15-5 PH · 17-4 PH

Nitronic

50 · 60

Carbon Steel

Plates · Bars · Pipes

Custom alloys supplied as per requirement. If you have a specification rather than a grade name, send the specification.

Choosing between them

316L adds molybdenum to 304L and with it real pitting resistance — the default process grade. **321** and **347** are stabilised against sensitisation for lines held between 425 and 815 °C.

904L and **Alloy 20** take over in sulphuric and other reducing acids where 316L is consumed.

Duplex gives roughly double the yield strength of 316L at a PREN near 35, which often means a thinner wall and a lighter line. **Super duplex** exceeds PREN 40 for seawater and brine.

Nickel alloys cover what remains: Inconel 625 for wide coverage, Hastelloy C276 for mixed acids, Monel 400 for seawater and HF.

08 Fabricated & custom products

Where the catalogue stops.

Shop welding is done in position, on a bench, with better access and easier inspection than the same joint made at height on a live site. Moving joints from site to shop shortens the shutdown and improves weld quality at the same time.



Pipe spools



Fabricated fittings



Fabricated reducers

Pipe Spools

Prefabricated pipe assemblies built to isometric drawings, so site work is reduced to flange-up and bolt-up.

Fabricated Reducers

Concentric and eccentric reducers, flanged both ends, rolled and welded to size.

U-Bolts

Pipe support U-bolts in a range of sizes and materials, with or without a saddle.

Custom Machined Components

Turned and milled parts built to drawing — brackets, lugs, discs, adaptors and one-off replacements.

What to send us

- The isometric or fabrication drawing, in any format you have
- Material grade and standard — or the service conditions, and we will recommend one
- Sizes, schedules and end preparation

Fabricated Fittings

Stainless and high-alloy fittings fabricated where a forged equivalent is not available or not economical.

Pipe Nipples

Seamless and welded nipples in a range of sizes and schedules, in stainless, carbon and alloy steels.

Puddle Flanges

A length of pipe with a square plate welded in between and a flange on one end, for sealed penetrations into tanks, vessels and heat exchangers.

Pipe Bending

Cold and induction bending to radius, removing welds from the line and reducing pressure drop.

- Quantity and required delivery date
- Certification level: 3.1 or 3.2, and whether NACE or IBR applies
- Any NDT, hydrotest or painting requirement

Welding is carried out to ASME IX qualified procedures. If a drawing is old and the original grade is obsolete, send it anyway — identifying a modern equivalent is a normal part of the job.

Industries we serve

Eleven sectors, one material question.

Oil & Gas

Upstream, midstream and downstream piping where sour service, pressure and shutdown cost all bear on the material decision.

API 5L · A106 Gr B · A333 Gr 6 · S31803 · S32750

Chemical

Acid, alkali and solvent service where the corrosion allowance is the design.

904L · Alloy 20 · Hastelloy C276 · Hastelloy C22 · Zirconium

Power

Boiler, steam and balance-of-plant piping for thermal, combined cycle and renewable stations.

A106 Gr B · A335 P11 · A335 P22 · A335 P91 · 304H

Defence

Naval, land and ordnance material against tightly controlled specifications.

Cu-Ni 70/30 · Cu-Ni 90/10 · S32750 · S32760 · Ti Gr. 5

Food & Beverage

Hygienic stainless piping that cleans fully and leaves nothing behind.

304 / 304L · 316 / 316L · Mirror Finish Sheet

Cement & Construction

Structural steel, wear-resistant plate and utility piping for plant and site.

IS 2062 E250 · IS 2062 E350 · IS 2062 E510 · S355J2+N · S690QL

Petrochemical

Cracker, reformer and polymer plant piping across a wide temperature and corrosion range.

A312 TP321 · A312 TP347 · 310S · Inconel 625 · Hastelloy C276

Pharmaceutical

Hygienic piping where surface finish, drainability and documentation are all part of the specification.

316L · 316Ti · 304L · AL-6XN class alloys

Aerospace

High strength-to-weight material where every certificate is traceable to heat and lot.

Ti Gr. 2 · Ti Gr. 5 · 17-4 PH · 15-5 PH · 2024

Marine

Seawater, ballast and firefighting systems where chloride pitting decides service life.

Cu-Ni 90/10 · Cu-Ni 70/30 · S32750 · S32760 · 904L

Water Treatment

Potable, effluent and desalination piping across a wide range of water chemistries.

304L · 316L · S31803 · S32205 · S32750

And many more

If your sector is not listed, the material question is usually the same one. Call us.

Standards & certification

What we supply against.

Standards

ASTM	ASME	API	ANSI	MSS	DIN	EN
JIS	ASME B16.5	ASME B16.9	ASME B16.11			
ANSI B36.10	ANSI B36.19					
NACE MR0175 / ISO 15156	EN 10204 3.1					
EN 10204 3.2	PED 2014/68/EU	IBR				

Types

Seamless	Welded	Fabricated	Sch. 5S to XXS
Custom sizes available			

Certification

EN 10204 3.1

Issued by the manufacturer, validated independently of production, stating the actual test results for the heat. Our standard MTC.

EN 10204 3.2

The same, countersigned by an independent third-party inspector.

NACE MR0175

Sour service. Applies to pipe, fittings, flanges and bolting alike.

Reading a specification

ASTM A312

SEAMLESS AND WELDED AUSTENITIC STAINLESS STEEL PIPE

The governing specification for stainless process pipe in grades such as TP304L and TP316L. It covers seamless, welded and heavily cold worked pipe, and sets the chemistry, mechanical properties, heat treatment and hydrostatic or eddy current testing.

ASTM A358

ELECTRIC FUSION WELDED AUSTENITIC STAINLESS PIPE FOR HIGH TEMPERATURE

Covers larger diameter fusion welded stainless pipe intended for corrosive or high-temperature service. It defines five classes depending on whether the weld is radiographed and whether filler metal is added, so the class matters as much as the grade when you specify it.

ASTM A106

SEAMLESS CARBON STEEL PIPE FOR HIGH-TEMPERATURE SERVICE

The standard carbon steel pipe specification for refinery and power service, most commonly supplied as Grade B. Unlike A53 it is seamless only, and it carries tighter chemistry and mechanical requirements suited to elevated temperature.

A fuller glossary, plus a weight calculator, grade equivalence chart, pipe schedule chart and flange dimension tables, is published at www.steelmanpiping.com/resources

Contact

Send the grade, size, schedule and quantity.

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Aman Bhandari

What to include in an enquiry

- Grade and standard
- End preparation
- Required delivery date
- NPS and schedule, or OD and wall in mm
- Certification level — 3.1 or 3.2
- Drawing, for anything fabricated
- Quantity and length
- NACE or IBR, if either applies
- Service conditions, if the grade is undecided

No pricing is published. Send the requirement and we will quote against your specification with availability and lead time.



STEELMAN PIPING SOLUTIONS

Your Trusted Partner for Piping Materials & Solutions

■ ISO

■ PED

■ MSME