Manufacturers, Stockists & Exporters of

Carbon Steel | Stainless Steel | Alloy Steel | High Nickel Alloy | Copper Nickel | Titanium
Pipe | Fittings | Flanges | Plates | Fabrication Products | Pipe Sleeve

www.reliablepiping.com
Profile

Reliable Steel Distributors, is established with a view to cater to the needs of both domestic and international market. Reliable is one of the leading manufacturers for Pipes, Pipe Fittings, Flanges, Reli Sleeve based in Mumbai with a distance of 20 km form both sea port and airport. Reliable is into stock business supplying to the domestic as well as the international market in Stainless Steel, Carbon Steel, Alloy Steel, High Nickel Alloy, Aluminium Brass, Copper and Titanium materials.

Reliable has been exporting to USA, UAE, Kuwait, Iran, Iraq, Oman, Saudi Arabia, Qatar, Bahrain, Germany, UK, France, Netherlands, Brazil, Columbia, Mexico, Ecuador, Singapore, Malaysia, Indonesia, Vietnam, Korea, Australia, etc.

Reliable has a wide stock range of material right from API 5L Seamless and Welded Pipes to Monel, Inconel, Duplex, Super Duplex, Hastelloy Pipes and Tubes in both seamless and welded. It specializes in API pipes and tubes form Grade B to X80 in PSL1/2 and High Nickel Alloy Pipes and Tubes.

Mission

Our mission is to provide prompt delivery and quality products at competitive price. Reliable has been surviving the industry smoothly due to its sales network, certified quality, innovation, value for human resources and focus on clients.

Third Party Inspection (TPI)

We can do TPI for following:
LRIS, ABS, DNV, TUV, VELOSI, SGS, BV, GL etc.
Carbon Steel Pipes & Tubes (Seamless and Welded)

**ASTM Standard**

<table>
<thead>
<tr>
<th>Carbon Steel</th>
<th>Stainless Steel</th>
<th>Alloy Steel</th>
<th>High Nickel Alloy</th>
<th>Copper Nickel</th>
<th>Titanium</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM A53</td>
<td>ASTM A178</td>
<td>ASTM A192</td>
<td>ASTM A334</td>
<td>ASTM A512</td>
<td>ASTM A672</td>
</tr>
<tr>
<td>ASTM A134</td>
<td>ASTM A252</td>
<td>ASTM A500</td>
<td>ASTM A524</td>
<td>ASTM A671</td>
<td>ASTM A822</td>
</tr>
<tr>
<td>ASTM A135</td>
<td>ASTM A214</td>
<td>ASTM A381</td>
<td>ASTM A523</td>
<td>ASTM A595</td>
<td>ASTM A795</td>
</tr>
<tr>
<td>ASTM A139</td>
<td>ASTM A210</td>
<td>ASTM A369</td>
<td>ASTM A513</td>
<td>ASTM A589</td>
<td>ASTM A787</td>
</tr>
</tbody>
</table>

Origin

Reliable imports & stocks material from:
Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

**Supplementary Requiremnets**

NACE MR0175, NACE MR0103, ISO 15156, HIC- NACE TM0284, SSC - NACE TM0177, SOUR SERVICES, OFF SHORE SERVICES, WITH LOW SULPHUR <0.002%, IMPACT TEST AT -50°C, BEAD CRUSH, RADIOGRAPHY (X RAY).

Coating

Special Coating i.e Cement Mortar Lining, FBE Coating, Galvanized (Hot Dipped), 3 LPP, 3 LPE, PTFE Coating, Epoxy Coating can be provided.

Delivery Condition

As Rolled, Normalized, Thermomechanical Rolled / Formed, Normalized & Tempered, Quenched & Tempered, Stress Relieved.

Services

Cut Length, Bevelling, Grinding, Machining, Taper Boring, Low Stress Stamping, Non Destructive Testing, Destructive Testing, Colour Coding, Laser Marking, Export Packing, Hydro testing, Hardness Test, PMI Test, Hot Tensile & Other testing Services available on request.

Email: sales@reliablepiping.com

Phone: + (91)-(22)-42132900
Fax: + (91) – (22) -23894511
API 5L Pipes

Types
Seamless | LSAW | DSAW | HSAW | ERW | HFW

Grades
PSL 1 - API 5L Gr B, X42, X46, X52, X56, X60, X65, X70
PSL 2 - API 5L Gr B, X42, X46, X52, X56, X60, X65, X70, X80, X100, X120
PSL 1 / PSL 2 - L245, L290, L320, L360, L390, L415, L450, L485, L555

Sizes
LSAW / DSAW - 16" OD to 120" OD (6.35MM to 100MM THK)
HSAW - 8" NB to 120" NB (5MM to 25MM THK)
Seamless - 1/2" NB to 48" NB (SCH 10 to SCH XXS & Heavier)
ERW / HFW - 1/2" NB to 24" NB (2 MM to 24MM THK)

Origin
Reliable imports & stocks material from:
Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

Supplementary Requirements
NACE MR0175, NACE MR0103, ISO 15156, HIC- NACE TM0284, SSC - NACE TM0177, SOUR SERVICES, OFF SHORE SERVICES, WITH LOW SULPHUR <0.002%, IMPACT TEST AT -50°C, BEAD CRUSH, RADIOGRAPHY (X RAY).

Coating
Special Coating i.e Cement Mortar Lining, FBE Coating, Galvanized (Hot Dipped), 3 LPP, 3 LPE, PTFE Coating, Epoxy Coating can be provided.

Delivery Condition
As Rolled, Normalized, Thermomechanical Rolled / Formed, Normalized & Tempered, Quenched & Tempered, Stress Relieved.
Stainless Steel Pipes & Tubes (Seamless and Welded)

ASTM Standard
ASTM A269  ASTM A376  ASTM A554  ASTM A789  ASTM A814  ASTM A1012  ANSI/ASME B36.10M

Origin
Reliable imports & stocks material from:
Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

Type
Seamless, Welded, ERW & EFW, Straight-Seam Welded, Heavily Cold Worked

Supplementary Requirements
Transverse Tension Test, Flattening Test, Flaring Test, Etching Test, Stabilizing Heat Treatment, NDE, Eddy Current, Hydro Test.

Delivery Condition
Solution Annealed, Polished, Mill Finish, Electropolished, Solution treatment, Normalize and Tempered, Full or Isothermal Anneal

Speciality
Nace MR0175 / ISO15156, Impact Test at -100°C, Radiography (X-Ray), Grain Size 7 or Coarser (For High Carbon), IGC Test with Practice A, B, C, D & E.
Nickel Alloy Pipes & Tubes

ASTM Standard

<table>
<thead>
<tr>
<th>ASTM Standard</th>
<th>Ni-Mo alloys</th>
<th>Ni-Cr-Mo-Cu alloys</th>
<th>Low C-Ni-Cr-Mo alloy</th>
</tr>
</thead>
<tbody>
<tr>
<td>B163 (Nickel 200 / Nickel 201 / UNS N02200 / UNS N02201)</td>
<td>N10001</td>
<td>N60007</td>
<td>N60059</td>
</tr>
<tr>
<td>A209, A213, A250, A335, A369, A691</td>
<td>N10665</td>
<td>N60030</td>
<td>Low C-Ni-Cr-Mo alloy</td>
</tr>
<tr>
<td>B161</td>
<td>N10675</td>
<td>N60059</td>
<td>N6200</td>
</tr>
<tr>
<td>B165</td>
<td>N10629</td>
<td>N60242</td>
<td>Low C-Ni-Cr-Mo alloy</td>
</tr>
<tr>
<td>B622</td>
<td>N10629</td>
<td>Low C Ni Cr-Mo Alloys</td>
<td>N60276</td>
</tr>
<tr>
<td>B626</td>
<td>N06022</td>
<td>N60276</td>
<td>Low C-Ni-Cr-Mo-w alloy</td>
</tr>
<tr>
<td>B163</td>
<td>N06035</td>
<td>N12160</td>
<td>Ni-co-cr-si alloy</td>
</tr>
<tr>
<td>B167</td>
<td>N06455</td>
<td>N20033</td>
<td>Cr-ni-fe-n alloy</td>
</tr>
<tr>
<td>B516</td>
<td>N06975</td>
<td>N6210</td>
<td>Low C-Ni-Mo-Cr-Ta alloy</td>
</tr>
<tr>
<td>B729</td>
<td>N06985</td>
<td>Low C-Ni-Cr-Mo alloy</td>
<td>N6058</td>
</tr>
</tbody>
</table>

Origin

Reliable imports & stocks material from:

Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

Supplementary Requirements

NACE MR0175, MR0103 / ISO 3183 / NACE TM0284, HIC & SSC TESTED PIPES.

Condition

Hot Finish, Cold Drawn
Alloy Steel Pipes & Tubes (Seamless and Welded)

**ASTM Standard**

- ASTM A209  T1, T1a, T1b
- ASTM A213  T2, T5, T5b, T5c, T9, T11, T12, T17, T21, T22, T23, T24, T36, T91, T92, T122, T911
- ASTM A250  T1, T1a, T1b, T2, T11, T12, T22
- ASTM A335  P1, P2, P5, P5b, P5c, P9, P11, P12, P15, P21, P22, P23, P24, P36, P91, P92, P122, P911
- ASTM A369  FPA, FPB, FP1, FP2, FP5, FP9, FP11, FP12, FP21, FP22, FP91, FP92
- ASTM A691  CM65, CM70, CM75, CMSH70, CMS75, CMSH80, ½ Cr, 1Cr, 1¼ Cr, 2 ¼ Cr, 3Cr, 5Cr, 9Cr, 91

**Grade**

- ASTM A209  T1, T1a, T1b
- ASTM A213  T2, T5, T5b, T5c, T9, T11, T12, T17, T21, T22, T23, T24, T36, T91, T92, T122, T911
- ASTM A250  T1, T1a, T1b, T2, T11, T12, T22
- ASTM A335  P1, P2, P5, P5b, P5c, P9, P11, P12, P15, P21, P22, P23, P24, P36, P91, P92, P122, P911
- ASTM A369  FPA, FPB, FP1, FP2, FP5, FP9, FP11, FP12, FP21, FP22, FP91, FP92
- ASTM A691  CM65, CM70, CM75, CMSH70, CMS75, CMSH80, ½ Cr, 1Cr, 1¼ Cr, 2 ¼ Cr, 3Cr, 5Cr, 9Cr, 91

**Type**

Seamless, Welded, ERW, EFW, HFW, LSAW, HSAW, Forged.

**Supplementary Requiremnets**

NACE MR0175, NACE MR0103, ISO 15156, HIC- NACE TM0284, SSC - NACE TM0177, SOUR SERVICES, OFF SHORE SERVICES, WITH LOW SULPHUR <0.002%, IMPACT TEST AT -50°C, BEAD CRUSH, RADIOGRAPHY (X RAY).

**Services**

Sour Service, Cut Length, Bevelling, Grinding, Machining, Taper Boring, Low Stress Stamping, Non Destructive Testing, Destructive Testing, Colour Coding, Marking, Export Packing, Heavy Wall Thickness, Odd Sizes, Fast Delivery, Hydro testing, Hardness Test, PMI Test, Hot Tensile & Other testing Services available on request.
Fittings

**ASTM Standard**


ASTM A181  ASTM A320  ASTM A453  ASTM A733  ASTM A854  ASTM B381


ASTM A193  ASTM A403  ASTM A540  ASTM A774  ASTM A988  ASTM B564

ASTM A194  ASTM A420  ASTM A694  ASTM A815  ASTM B363  ASTM B637

**Origin**

Reliable imports & stocks material from:
Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

**Supplementary Requirements**

Macrotech Test, Heat Treatment, Corrosion Test, Hardness Test, Grain Size, Stabilization Treatment,

**Speciality**

NACE MR0175, NACE MR0103, ISO 15156, HIC- NACE TM0284, SSC - NACE TM0177, SOUR SERVICES, OFF SHORE SERVICES, WITH LOW SULPHUR <0.002%, IMPACT TEST AT -50°C, BEAD CRUSH, RADIOGRAPHY (X RAY). Heavy Wall Thickness, Odd Sizes.

**Coating**

Special Coating i.e Cement Mortar Lining, FBE Coating, Black / Galvanized (Electro / Hot Dip), 3 LPP, 3 LPE, PTFE Coating, Epoxy Coating can be provided.

**Delivery Condition**

Normalized, Annealed, Normalized and Tempered, Quenched & Tempered, Stress Relieved, Solution Annealed

**Services**

Bevelling, Grinding, Machining, Taper Boring, Low Stress Stamping, Non Destructive Testing, Destructive Testing, Colour Coding, Marking, Export Packing, Hydro testing, Hardness Test, PMI Test & Other testing Services available on request

*Email: sales@reliablepiping.com  Phone: + (91)-(22)-42132900  Fax: + (91) – (22) -23894511  www.reliablepiping.com*
Flanges

**ASTM Standard**

<table>
<thead>
<tr>
<th>Steel Type</th>
<th>ASTM A105</th>
<th>ASTM A182</th>
<th>ASTM A234</th>
<th>ASTM A350</th>
<th>ASTM A403</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Steel</td>
<td>ASTM A420</td>
<td>ASTM A522</td>
<td>ASTM A694</td>
<td>ASTM A707</td>
<td>ASTM A988</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>ASTM B381</td>
<td>ASTM B462</td>
<td>ASTM B564</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alloy Steel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Nickel Alloy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper Nickel</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Origin**

Reliable imports & stocks material from: Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

**Type**


**Supplementary Requirements**

Macro Test, Heat Treatment, Corrosion Test, Hardness Test, Grain Size, Stabilization Treatment, Impact Test

**Speciality**

NACE MR0175, NACE MR0103, ISO 15156, HIC- NACE TM0284, SSC - NACE TM0177, SOUR SERVICES, OFF SHORE SERVICES, WITH LOW SULPHUR <0.002%, Heavy Wall Thickness, Odd Sizes.

**Coating**

Special Coating i.e Cement Mortar Lining, FBE Coating, Black / Galvanized (Electro / Hot Dip), 3 LPP, 3 LPE, PTFE Coating, Epoxy Coating can be provided.

**Delivery Condition**

Normalized, Annealed, Normalized and Tempered, Quenched & Tempered, Stress Relieved, Solution Annealed

---

Email: sales@reliablepiping.com

Phone: + (91)-(22)-42132900
Fax: + (91) – (22) -23894511

www.reliablepiping.com
Round Bars

**ASTM Standard & Grade**

Round Bars are available in various materials:

- **Stainless Steel** | **Nickel Alloy** | **Non Ferrous Metal** | **Alloy Steel** | **Carbon Steel**


**Nickel Alloy Grades:** Cupro Nickel (90/10, 70/30), Hastelloy (C-4, C-22, C276, B-2), Nickel (200 / 201 / 205), Monel (K400 & K500), Inconel (600, 601, 625 & 825), Incolloy (800, 800H), Alloy 20, Titanium, Tungston, Moly, Kanthal, Nimonic Nichrome (80:20), Ferro Nickel Alloy (55/45, 60/40, 70/30), Cobalt, Sanicro (28, SS 904L).

**Non Ferrous Metals:**
- Copper: 99.99% (Rolled – Hot & Cold, Electrolytic & Commercial)
- Brass: Extruded & Drawn Free Cutting, Naval Brass, 60/40 Brass, Forging Brass
- Phosphorus Bronze: PB2, 90/10
- Gun Metal: 90/10, 70/30
- Lead: 99.95 to 99.99%

**Alloy Steel Grades:** A-182 - F5, F9, F11, F12, F21, F22 & F91

**Finish**

- Bright, Polish & Black

**Supply Condition**

Machining (CNC), Centreless Grinding (CG), Heat Treatment, Annealing, Pickling, Polish, Rolling, Forging, Cutting, Bending, Rolling, Machining (CNC),

**Contact Information**

*Email: sales@reliablepiping.com*  
*Website: [www.reliablepiping.com](http://www.reliablepiping.com)*  
*Phone: + (91)-(22)-42132900*  
*Fax: + (91) – (22) -23894511*
Stainless Steel Plates

**ASTM Standard**
ASTM A240, EN 10028

**Stainless Steel**

**Austenitic Grades**
ASTM A240 304 / 304L - BS EN 10028-7 - 1.4301/1.4307  
ASTM A240 316 / 316L - BS EN 10028-7 - 1.4301/1.4304  
ASTM A240 321 / 321H - BS EN 10028-7 - 1.4541  
ASTM A240 304H - BS EN 10028-7 - 1.4948

**Duplex**
ASTM A240 UNS S31803 - BS EN 10028-7 - 1.4462

**Super Duplex**
ASTM A240 UNS S32750

**Nickel Alloy**
Inconel® 600, 601, 617, 625, 718, X-750 Inco Alloy HX:  
Incoloy® 800/800H, Alloy 330, Alloy 188, L-605

**Supply Condition**
In standard & non standard sizes | Available in other thicknesses, widths and lengths | Thickness tolerance to BS EN 10029 Class B  
NACE Hardness to MR 0175 | Annealed and pickled | Inter Granular Corrosion test (IGC) to ASTM A 262 Practice E | Hot rolled Mill Finish No. 1  
Polished to meet your requirements - dull or bright polishing

Phone: + (91)-(22)-42132900  
Fax: + (91) – (22) -23894511
Nickel Alloy Plates

**ASTM Standard**

**Nickel Alloy**
ASTM B162 (UNS N02200, UNS N02201)
ASTM B127 (UNS N04400)
ASTM B435 (UNS N06002, UNS N06230, UNS N12160, AND UNS R30556)
ASTM B582 (ALLOY N06007, ALLOY N06975, ALLOY N06985, ALLOY N06030)
ASTM B575 (ALLOY N06035, ALLOY N10276, ALLOY N06022, ALLOY N06455,
ALLOY N06059, ALLOY N06058, ALLOY N06200, ALLOY N06210, ALLOY N06686)
ASTM B168 (UNS N06600, UNS N06601, UNS N06617, UNS N06690,
UNS N06693, UNS N06025, UNS N06045, UNS N06603, UNS N06696,
UNS N06617)
ASTM B443 (UNS N06625, UNS N06219)
ASTM B463 (UNS N08026, UNS N08020, UNS N08024)
ASTM B625 (UNS N08925, UNS N08931, UNS N08932, UNS N08926,
UNS N08354, UNS R20033)
ASTM B409 (ALLOY N08120, ALLOY N08890, ALLOY N08800,
ALLOY N08810, ALLOY N08811)
ASTM B536 (UNS N08330, UNS N08332)
ASTM B688 (N08366, N08367)
ASTM B424 (UNS N08825, UNS N08821)
ASTM B333 (ALLOY N10001, ALLOY N10665, ALLOY N10675, ALLOY N10629, ALLOY N10624)
ASTM B434 (UNS N10242, UNS N10003)

**Supply Condition**
In standard & non standard sizes | Available in other thicknesses, widths and lengths |Thickness tolerance to BS EN 10029 Class B
NACE Hardness to MR 0175 | Annealed and pickled | Inter Granular Corrosion test (IGC) to ASTM A 262 Practice E | Hot rolled Mill Finish No. 1
Polished to meet your requirements - dull or bright polishing

Email: sales@reliablepiping.com

Phone: + (91)-(22)-42132900
Fax: + (91) – (22) -23894511

www.reliablepiping.com
Carbon & Alloy Steel Plates

We carry the widest range of Sizes and Specifications in Steel Plate available within India.

**EN10025**
- **High Strength Low Alloy Steel Plates**
  - A36
  - A572 Grade 42, 50, 60, 65
  - CSA G40.21 Grade 44W, 50W, 50A
  - A709 Grade 36, 50, 50W
  - A709 Grade HPS 50W, 70W
  - A ASHTO M270 Grade 50, 50W
  - A588 & A606
  - A 871 - 65
  - A656 Grade 50, 60, 70, 80
  - A 573 Grade 58, 65, 70
  - A283

**Alloy Quenched & Tempered Steel Plate**
- A514 Grade B, E, F, H, Q, S
  - 130 ksi/890 MPa Yield Strength
  - 140 ksi/960 MPa Yield Strength
  - TMCP 100 ksi/690 MPa
  - A710
  - ASTM A829-4140

**Abrasion Resistant Steel Plate**
- A R Medium : AR200/AR235
- A R 400/400F
- A R 450/450F
- A R 500/500F
- A R 600

---

**Pressure Vessel Steel Plate**
- A516 Grade 55, 60, 65, 70
- TC 128
- A 612
- A 537
- A 285

**Offshore & Marine Steel Plant**
- ABS Grade A, B, AH36, DH36, EH36
- API 2H Grade 50
- A633

**Armor & Ballistic Steel Plate**
- MIL A 46100
- MIL A 12560
- MIL A 46177

**Low/High Carbon Non-Structural Steel Plate**
- A 830-1045
- C1020

**Caterpillar Spec Steel**
- EN Standard Steel Plate
  - S235
  - S275
  - S355
  - S420
  - S690
  - S890

---

**Offshore & Structural Plate**
- **Boiler, Pressure Vessel & Chrome Moly Steel**

**Pressure Vessel Steel**
- ASME SA516/ASTM 516-Gr70
- EN 10028:3 P355 NL1 & P355 NL2
- BS 1501 224 4908 LT50
- BS 1501 223 4908 LT30
- BS 1501 225 4908 LT50
- EN 10028:3 P355NH
- ASME SA537/ASTM A537-Class 1
- ASME SA516/ASTM A516-Gr-65
- ASME SA516/ASTM A516-Gr-60
- EN 10028:3 P460NL1
- EN 10028:3 P460NL2
- EN 10028:3 P460NH

**Boiler Plate Steel**
- ASME SA516/ASTM A516 Gr 60
- EN 10028:3 P275NH
- BS 1501 161 430 A/B
- EN 10028:2 P265 GH
- EN 10207 P2655

**HIC Steel Plate**
- ASME SA516 HIC & ASTM A516 HIC
- CarElso HIC Premium+

**API Plate**
- API 2H Plate

---

**Services**
- Stockholding, Mill Supplies, Finishing, Profiling, Cut pieces (Water Jet, Plasma, Sawing, Laser), Testing etc.

---

**Contact Information**

Email: sales@reliablepiping.com

Phone: + (91)-(22)-42132900
Fax: + (91) – (22) -23894511

www.reliablepiping.com
Copper Nickel Pipes & Tubes

**ASTM Standard**

<table>
<thead>
<tr>
<th>Alloy UNS</th>
<th>Common Name</th>
<th>European</th>
</tr>
</thead>
<tbody>
<tr>
<td>C70600</td>
<td>90-10</td>
<td>CuNi10Fe</td>
</tr>
<tr>
<td>C71500</td>
<td>70-30</td>
<td>CuNi30Fe</td>
</tr>
<tr>
<td>C71640</td>
<td>66-30-2-2</td>
<td></td>
</tr>
</tbody>
</table>

**Applications**
Sea water pipework, Offshore fire water systems, Heat exchangers and condensers, Sheathing of legs and risers on offshore platforms and boat hulls, Hydraulic lines, Fish cages for aquaculture, Desalination units.

**Origin**
Reliable imports & stocks material from:
Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

*Manufacturers, Stockists & Exporters of*
Carbon Steel | Stainless Steel | Alloy Steel | High Nickel Alloy | Copper Nickel | Titanium*
Copper & Copper Alloy - Tubes

*ASTM Standard*
ASTM B111

**Grade**

<table>
<thead>
<tr>
<th>Grade</th>
<th>C10100</th>
<th>C12200</th>
<th>C14200</th>
<th>C44300</th>
<th>C61400</th>
<th>C71640</th>
</tr>
</thead>
<tbody>
<tr>
<td>C10200</td>
<td>C14200</td>
<td>C44400</td>
<td>C68700</td>
<td>C72200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C10300</td>
<td>C19200</td>
<td>C44500</td>
<td>C70400</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C10800</td>
<td>C23000</td>
<td>C60800</td>
<td>C70600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C12000</td>
<td>C28000</td>
<td>C61300</td>
<td>C71000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C28000</td>
<td>C61300</td>
<td>C71000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Services**
Cut to Length, Multiple Length, Laser Cutting, Polishing, Special Materials.

**Delivery Condition**
The Tubes shall be Furnished in any of the following conditions as specified:
H55 light-drawn, H80 hard-drawn, O61 annealed, HR50 drawn, stress-relieved

**Supplementary Requirements**
Flattening Test, Expansion Test, Mercurous Nitrate Test, Hydrostatic Test, Eddy Current Test.
Titanium Pipes & Tubes (Seamless & Welded)

**ASTM Standard**
- ASTM B265 - Titanium and Titanium Alloy Strips, Sheets and Plates
- ASTM B299 - Titanium Sponge
- ASTM B338 - Seamless and Welded Titanium and Titanium Alloy Condenser and Heat Exchanger Tubes
- ASTM B348 - Titanium and Titanium Bars and Billets
- ASTM B363 - Seamless and Welded Unalloyed Titanium and Titanium Alloy Welded Fittings
- ASTM B367 - Titanium and Titanium Alloy Castings
- ASTM B381 - Titanium and Titanium Alloy Forgings
- ASTM B861 - Titanium and Titanium Alloy Seamless Pipe
- ASTM B862 - Titanium and Titanium Alloy Welded Pipe
- ASTM B863 - Titanium and Titanium Alloy Wire

**Titanium & their Alloys (Grade)**
- Grade 1, Grade 2, Grade 2H, Grade 3, Grade 4,
- Grade 5, Grade 6, Grade 7, Grade 7H, Grade 9,
- Grade 11, Grade 12, Grades 13, Grade 14,
- Grade 15, Grade 16, Grade 16H, Grade 17,
- Grade 18, Grade 19, Grade 20, Grade 21, Grade 23,
- Grade 24, Grade 25, Grades 26, Grade 26H, Grade 27,
- Grade 28, Grade 29, Grades 30, Grade 31, Grade 32,
- Grades 33, Grade 34, Grade 35, Grade 36, Grade 37, Grade 38.

**Origin**
Reliable imports & stocks material from:
Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

**Type**
Seamless, Welded, ERW, Fabricated

**Condition**
Hot Finished, Cold Drawn

*Phone: + (91)-(22)-42132900*  
*Fax: + (91) – (22) -23894511*  
*Email: sales@reliablepiping.com*  
*www.reliablepiping.com*
4130 Pipes & Pipe Fittings

This low alloy steel containing nominally 0.3% carbon, 1% chromium and 0.2% molybdenum is used widely in oil patch applications. It is similar to 4140 which has a higher carbon level giving 4130 improved weldability in comparison to 4140, though this is achieved at the expense of through thickness strength. The hardenability limitations of this grade (depth to which it will harden / obtain the specified mechanical properties after heat treatment) must always be taken into account when designing and selecting equipment.

**ASTM Standard**

ASTM A519  
AISI 4130 L80  
API 5CT L80

**Products**

- Elbows, Tees, Reducers, Flanges, API Connections, Hammer Lug Unions, Manifold Fittings, High Pressure Couplings & Hoses  
- API 6A Valves, High Pressure Seamless Pipe, Turnkey Manifold, Solid Round Bars

**Speciality**

- NACE MR0175, NACE MR0103, ISO 15156, HIC - NACE TM0284, SSC - NACE TM0177, SOUR SERVICES, OFF SHORE SERVICES, WITH LOW SULPHUR <0.002%, IMPACT TEST AT -50°C, BEAD CRUSH, RADIOGRAPHY (X RAY). Heavy Wall Thickness, Odd Sizes, High Pressure upto 10000 & 15000 PSI.

**Delivery Condition**

Annealed, Normalized, Stress Relieved, Quenched & Tempered

**Services**

Cut to Length, Painting, Additional Testing, Sand Blasted, Colour Coding.
Hollow Section

ASTM Standard

ASTM A554, EN 10219

Grade


Size

Square Hollow Section - 20 x 20 - 300 x 300
Rectangular Hollow Section - 30 x 20 - 400 x 200

Services

Cut to Length, Multiple Length, Laser Cutting, Polishing, Special Materials.

Delivery Condition

The Tubes shall be Furnished in any of the following conditions as specified :
As welded, Welded and Annealed, Cold Reduced, Cold Reduced and Annealed, Seamless

The inside diameter bead shall be furnished in any of the following conditions as specified :
Bead not removed
Bead controlled to 0.005 in (0.13 mm) or 15% of the specified wall thickness, whichever is greater,
Bead Removed
INSERT SLEEVE

SIZE : 2” TO 72” OD (LIQUID EPOXY & FBE COATING)

INSERT / PIPE SLEEVE – FEATURES
- 100% Holiday free area internally and externally coated.
- A two layer heat shield.
- Sealing Rings acts as a physical barrier to seal the clearance between the pipe and the sleeve.
- Tabs / Pins set a uniform weld gap and anchor.
- Refractory clamp to prevent heat transfer during welding and to protect the refractory tape and the external coated area of the sleeve.

FBE & LIQUID EPOXY COATING FOR PIPE SLEEVE

Corvel – 10-8158 - Oil & gas industry
FBE 3M XC 6171 - Seawater and sour gas service requirements.
Hempel-Hempadur 85671 - Water and chemical resistance.
Interline 984 - Corrosion protection to the internals of steel storage
Interzone 954 - Cathodic disbondment resistance.
Scotchkote 134 - Is resistant to wastewater, corrosive soils, hydrocarbons, harsh chemicals, and sea water
Sigma EPH 7497 – Suitable for bell holing jobs.
Sigma Phenguard 930 – Resistance to a wide range of organic acids, alochol, edible oils, fats & solvents
Sigma Phenguard 935 - Good resistance to hot water
Sigma Phenguard 940 - Tank coating system for Chemical tankers
Sigma Line 2000 – To metal for pipe externals.
Sigma Shield 1200 – Water hull of ice going & ice breaking vessels.
Plasite 7159 - High abrasion resistant.
Enviroline 405 HT - Two Component polycyclamine cured lining system process vessels and tanks operating at high temperature.

Application For Pipe Sleeve
- Water Pipe Line
- Internal Coated Pipeline
- Water Injection Lines
- Fire Water Line
- Onshore Pipelines
- Offshore Pipelines
- Injection and Re-injection
- Crude Oil Gathering
- Highly Corrosive Gas Piping
- Portable & Waste Water
- Jet Fuel Transfer
Fabrication

Products

DEAERATOR  DRIERS
HEAT EXCHANGERS  REACTOR VESSELS
PRESSURE VESSELS  INDUSTRIAL FANS & BLOWERS
STORAGE TANKS & BULLETS  POLLUTION CONTROL EQUIPMENT
STEEL CHIMNEY  CONE STRAINERS
SILENCERS  FUEL FIRING EQUIPMENT & FLARE STACK
DAMPERS  DISH ENDS
DUCT & METALLIC EXPANSION BELLOWS  DISHEDED ENDS
SCREW CONVEYOR  TUBE SHEET
GLASS HANDLING TOOL  BAFFLE PLATE

Manufacturing Facilities

Profile Cutting  Pug Cutting
Welding Machines ARC, TIG, MIG.  Monorail
Grinding M/C.,  Bending
Sanding M/C.  Welding
Plate Bending / Rolling M/C.  Fitment

Manufacturers, Stockists & Exporters of Carbon Steel | Stainless Steel | Alloy Steel | High Nickel Alloy | Copper Nickel | Titanium

Phone : + (91)-(22)-42132900
Fax : + (91) – (22) -23894511

Email : sales@reliablepiping.com

www.reliablepiping.com
Bend Pipes

We are supplier of mandrel bends to the stainless steel fabrication industry. Our products are used in a wide range of markets in India and overseas, also bending to customers specifications we stock a wide range of stainless steel, mild steel and aluminium butt weld bends, safety grab rails and swimming pool ladder rails. With many years of experience and expertise in forming tube & pipe, Rolf is committed to providing top quality, bent tube and box section in Stainless Steel, Mild Steel, CDS, T45, Aluminum and on time service to our clients.

Mandrel Bending | Rolling | Swaging & Flaring | CNC Capability | One-off Bends to Multiples | Fast & Accurate | Quick turn-around | Stainless, Aluminium, Copper, Brass & Pipe

Tube size from 6mm to 114.3 mm OD can be manipulated on a variety of different centre line radii to accommodate differing wall thicknesses required by fabricators. Various areas of product design and fabrication have recognised the potential in utilising this specialist capability, including architectural designers, where the use of high-performance stainless tube matches many contemporary design visions.

A variety of methods can be used for bending stainless steel tubing. If the bend has a large radius, the tubing can be curved with three-roll benders (also called section benders, profile benders, or angle rolls.) If the bend has a tight radius, the tubing can be bent on a rotary-draw bender through a process called mandrel tube bending.

Both welded and seamless tubing can be curved. When the desired radius is very tight, seamless usually bends better.

Since the application of bent stainless tube often involves products for the pharmaceutical and food industries, care must be taken to avoid carbon contamination of the steel. The machinery and tooling should be cleaned and prepared to avoid such contamination. Furthermore, care should be taken to avoid having metal strapping in contact with the stainless parts. Cardboard, wood or plastic can be used to protect the tubing during transit.

After bending stainless steel tubing, a nut and sleeve can be slid over the ends which then can be flared. Process piping is often supplied this way.

Tubing is also becoming increasingly popular in construction in roof trusses, canopies, balconies, and many other applications

Accuracy of 0.1 of a degree is achieved for a variety of applications, automotive, architectural and marine.
Nickel Alloy Forging

**ASTM Standard**

ASTM B160  ASTM B574  ASTM B649  ASTM B691
ASTM B564  ASTM B462  ASTM B335  ASTM B425
ASTM B164  ASTM B472  ASTM B473  ASTM B573
ASTM B572  ASTM B166  ASTM B408
ASTM B581  ASTM B446  ASTM B512

**Origin**

Reliable imports & stocks material from:

Europe, Japan, USA, South Africa, Korea, India, Germany, China, Taiwan, Turkey, Ukraine.

**Delivery Condition**

Annealed, Stress Relieved.
Fasteners

Grades
- Stainless Steel
- Carbon Steel
- Nickel Alloy Steel
- Duplex & Super Duplex Bolts
- Copper & Copper Alloy
- Titanium
- Heat Resistance

Products
- Anchor
- Screws
- Bolts
- Sockets
- Washers
- Nuts
- Studs
- Pins

Specification (Standards)

<table>
<thead>
<tr>
<th>Bolt Specifications</th>
<th>Casting / Forging Specifications</th>
<th>Nut Specifications</th>
<th>Plating Specifications</th>
<th>Rebar Specifications</th>
<th>Washer Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM A193</td>
<td>ASTM A47</td>
<td>ASTM A194</td>
<td>ASTM A153</td>
<td>ASTM A615</td>
<td>ASTM F844</td>
</tr>
<tr>
<td>ASTM A320</td>
<td>ASTM A536</td>
<td>ASTM F593</td>
<td>ASTM F1941</td>
<td></td>
<td>ASTM F959</td>
</tr>
<tr>
<td>ASTM A325</td>
<td>ASTM F1554</td>
<td></td>
<td></td>
<td></td>
<td>ASTM F2437</td>
</tr>
<tr>
<td>ASTM A354</td>
<td>ASTM F3125</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Coatings

Our range of industrial coating and finishes includes:
- Zinc
- Phosphate
- Zinc Clear
- Sheradized
- Zinc and Yellow/Bichromate
- PTFE (Xylan*)
- Zinc Nickel
- Chemical Galvanising
- Zinc Electroplating
- Cadmium
- Chromium
- Magnigard
- Zinc
- Nickel
- Sermaguard
- Chemical Coating (Xylar)
- Electroless Nickel Plating
- Ceramic Coating (Xylar)
- Hot Dip Galvanising
- Molybdenum Disulphide
- Silver
- Epoxy Coatings
- Molykote
Head Off.:
29-B, Nakoda Bhuvan, Sindhi Lane, Mumbai - 400 004. Maharashtra, India.
Phone : + (91)-(22)-42132900 (100 Lines) | Fax : + (91) − (22) -23894511 | Email : sales@reliablepiping.com