

April 2021

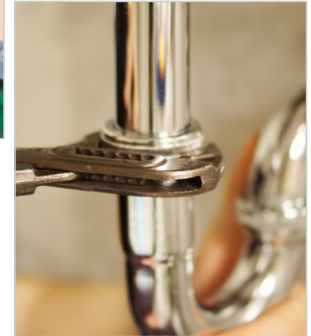
RHINOX

STAINLESS STEEL PIPELINE



Smart and Sustainable
Stainless Steel Plumbing Solutions





RHINOX PLUMBING = WATER RUNNING

R Reliable Plumbing

H Hygienic Water for Safety

I Inox Press Fittings for Durability

N Number of applications

O O Ring for leak free Plumbing Connection

X Xtra Benefits attached with Rhinox Stainless Steel Plumbing

With a lot of plumbing metals options available in the market choosing the right one for your plumbing needs can be challenging.

Why Stainless Steel?

Stainless Steel is fundamentally a low carbon steel containing 10% chromium to render steel unique stainless corrosion resisting properties and make it a 100% food grade alloy. With all the benefits that stainless-steel touts picking the proper metal will be a no-brainer.

ALLOY FROM FUNCTIONALITY TO AESTHETICS

- Strength – Stainless Steel holds high tensile strength ideal for any area where there could also be temperature and pressure extremes.
- Cleanliness – With one in all the foremost hygienic materials Stainless Steel comes with a breeze to maintain an ideal choice for hospitals and homes, areas where cleanliness is important.
- Corrosion Resistance – Unlike other metals Stainless Steel is the most corrosion resistant because of the added elements like nickel, titanium, and molybdenum.
- Recyclability – Once stainless steel has outlived its original purpose, it can be 100% recycled.
- Aesthetics – Stainless Steel provides Aesthetic Appearance to even a little corner. The metal with high function ability is stylish and classy too.

Not all Grades of Stainless Steel are same! What difference 316L Stainless Steel Piping makes?

There are many grades of Stainless Steel suitable for its n number of applications.

In general, 300 series alloys are non magnetic and resistant to corrosion. 400 series are harder, more resistant to abrasion, withstand higher temperatures, and are magnetic while 200 series alloys are specially designed for applications in the areas where less corrosion resistance is appropriate.

As 300 series are the foremost corrosion resistant, they are used for applications such as;

Marine, Pharmaceuticals, Architectural, Food industry, Portable Water Systems, Gas, Heating, and Fire Sprinklers.

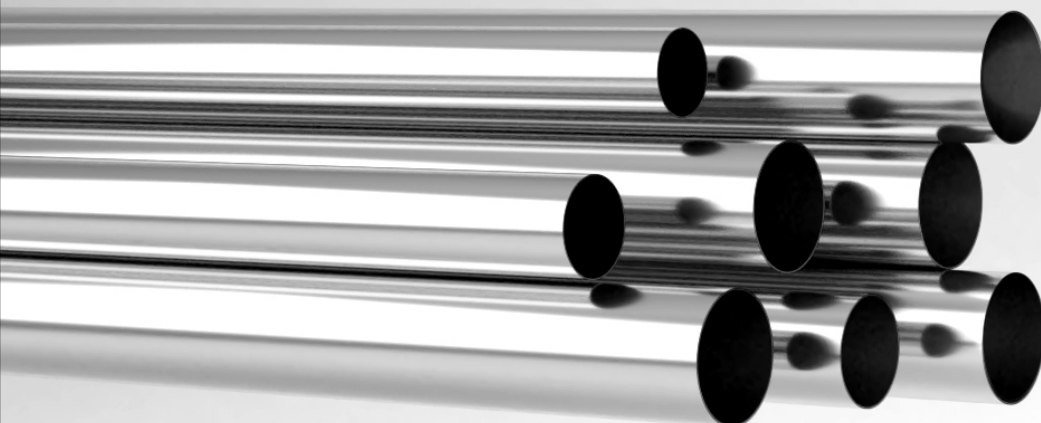
In 300 series the most common alloy is 316L SS which adds 10% chromium and lower carbon content with nickel and molybdenum in it to scale back susceptibility to chlorides. Grade 316 L is the standard molybdenum-bearing grade which has particularly higher corrosion resistant properties. 304 SS grade adds 18% chromium and 8% nickel to steel whereas 304L has reduced carbon content to reduce the tendency for SS to corrode.

316L RHINOX STAINLESS-STEEL PIPELINE

As compared to all or any grades of stainless steel, grade 316 L is thought for offering higher creep, stress to rupture, and enduringness even at the preeminent temperatures. It's more immune to carbide precipitation. Because of the austenitic structure, this grade is known for providing excellent toughness even in cryogenic temperatures.

Key properties of stainless steel 316L piping

- Corrosion Protection
- Long- Maintenance Free Life
- Hygienic
- No Fire Risk
- Recyclable
- Quick and Easy Installation
- Pressure and Temperature Resistant
- Shock Resistant
- Environmental Benefits
- Excellent Ductility



APPLICATION OF 316L STAINLESS STEEL PIPELINE

Rhinox Sustainable and Smart Plumbing Solutions can transport a variety of media for plumbing applications

Liquids | Compressed Gases and Air
Solar Water Heating | Portable Water | Sprinkler Systems
Fire Extinguishing Systems

Portable Water System

For water can be contaminated by bacteria's easily it should not be the core reason to put public health in danger. Use Stainless Steel for drinking water plumbing as certain metals can be harmful to health when they come in contact with drinking water yet AISI 316L Stainless Steel is the best material for portable water systems. The remarkable Stainless Steel is among the foremost hygienic material available.

Maintains Taste of Water | Antibacterial and Healthy | Easy Cleaning | Strong

Do you know the Stainless Steel chemical properties renders the top level hygiene guarantees, making it the ideal choice for portable water systems? The perfect plumbing solution for domestic water systems is Rhinox stainless steel pipes and fittings.

Gas

Rhinox with holding expertise in Water Plumbing Piping also delivers Gas Plumbing Piping. Our AISI 316L Stainless Steel is perfect for Gas Applications and offers a lot of advantages for it is particularly resistant to wear.



Heating

Carbon Steel 316 low carbon SS Pipes and Fittings makes an affordable choice for plumbing needed in closed circuit heating system.

APPLICATION OF 316L STAINLESS STEEL PIPELINE

Solar Thermal Energy

Stainless Steel 316 low carbon pipes makes an essential component in solar thermal heating and cooling systems because it is temperature resistant the most important factor. Apart from that, it is strong, ideal for plumbing, environment friendly and corrosion resistant.



Fire Extinguishing Systems

For 316L Stainless Steel Pipelines are pressure resistant they are the appropriate choice for fire extinguishing systems.

Oils

One of the most important industrial application is a perfect plumbing system required for oily substances like fuels and such. In that intent 316 low carbon SS pipelines are used for utmost safety and reliability of plumbing system.



STAINLESS NOT STAIN-FREE

Stainless Steel though is self healing but do not confuse it with no stains no rust. The name says StainLESS not StainFREE.

SS is an alloy formed with low carbon and added elements to form less stains and rust, easy cleanability, maintenance and leak free plumbing piping.

HOW 316L STAINLESS STEEL PIPELINE WORKS?

Rhinox Stainless Steel Pipes provide international standard products through advanced pipe manufacturing and supporting clients in a project through engineering, design, manufacturing and installation.

- Engineering
- Designing
- Planning
- Manufacturing
- Installation

With any piping installation there comes fittings for a successful connection.



TYPES OF PIPE FITTINGS

Various types of pipe fittings are available with Rhinox a manufacturer and leader in plumbing industry from USA supplying all kinds of low carbon stainless steel pipes, tubes and fittings. Available in variety of sizes and dimensions.



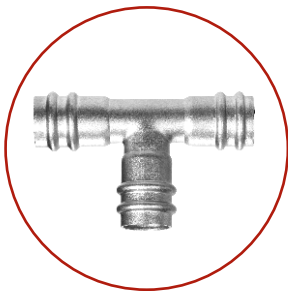
Coupling



Adapter



Elbow



Tee

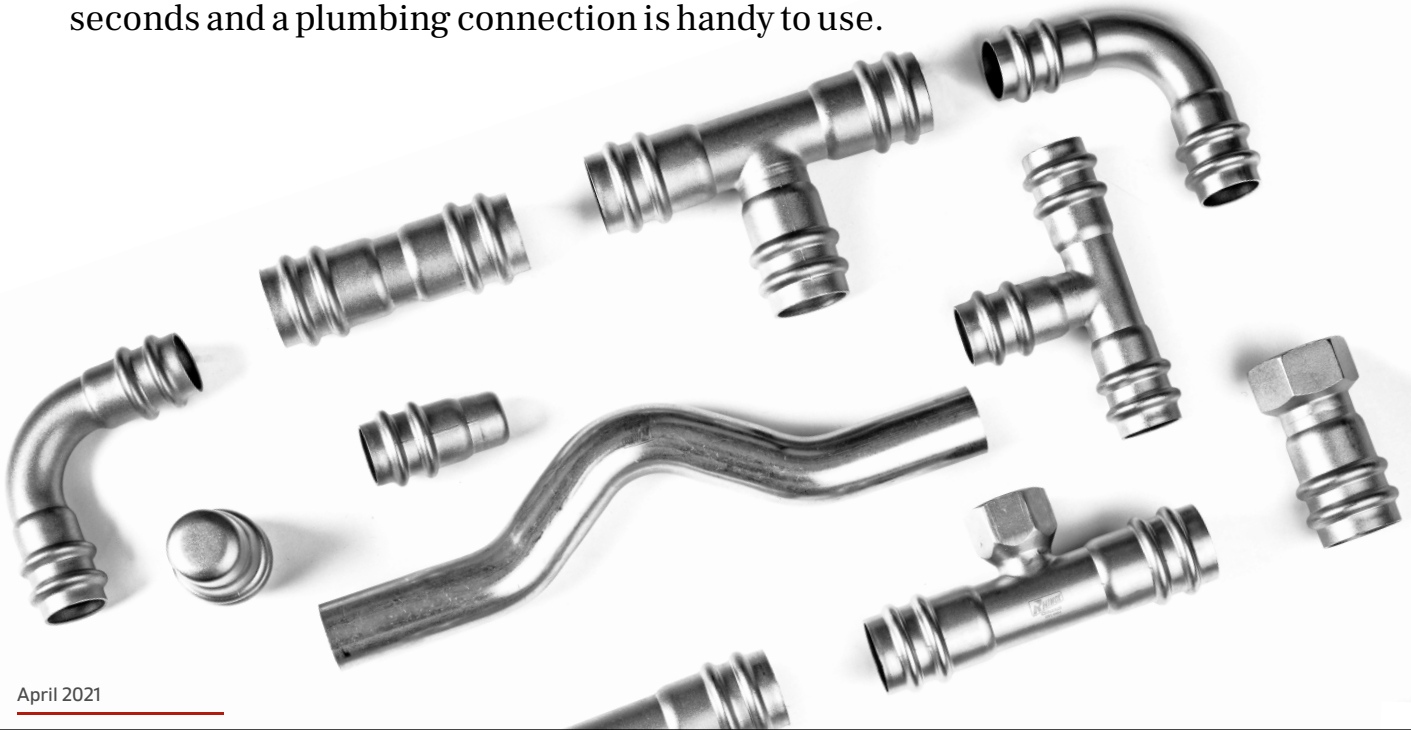


End Cap/Cross Over



Ampers Pipes

Connecting the pipes to the fittings is simple with Rhinox Plumbing Solutions. We provide Press Fittings technology with our Pressing tools V press and VV press. The connection is created by pressing the tool on the pipes and fittings. Just a matter of few seconds and a plumbing connection is handy to use.





GET CONNECTED WITH US

Looking to have a Sustainable Stainless Steel Plumbing Solutions to last for years and decades?
Approach Rhinox and Rhinox will solve your concerns instantly.

Are you facing any concerns related to selection of material or right grade of stainless steel,
maintenance and fabrication difficulties, or sourcing of material?

We are here for you to provide the support and revert with the necessary details required.

**We are here for you to provide the support and revert with the
necessary details required.**

Contact us at:

 www.rhinoxusa.com

 contact@rhinoxusa.com

