



ZHEHENG STEEL

Wenzhou Zheheng Steel Industry Co.,Ltd
stainless-steelseamlesspipe.com



Schedule 40 Ss 304 Stainless Steel Seamless Pipe Pressure Rating Flexible

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: zheheng
- Certification: ISO9001 PED
- Model Number: 1inch--2.5inch
- Minimum Order Quantity: Negotiable
- Price: Negotiable
- Packaging Details: In bundles with waterproof material, or wooden crate packing
- Delivery Time: 30 DAYS
- Payment Terms: L/C, T/T, D/A, D/P
- Supply Ability: 50TONS/30DAYS

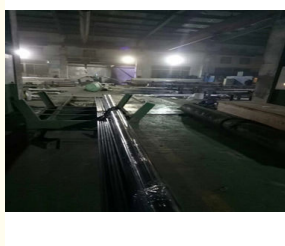


Product Specification

- Material: Ss 304
- Standard: ASTM, AISI, DIN, EN, GB, JIS
- Shape: Round
- Thickness: 1.5mm-219mm
- Application: Industry, medical, machinery
- Place Of Origin: China
- Highlight: seamless pipes and tubes, ss seamless pipe



More Images



Product Description

SS 304 standards stainless steel pipe schedule 40 / schedule 80 / pressure rating / specifications / sizes

Stainless steel tube stainless steel pipe, as the name suggests, is not easy to rust. It is not easy to be corroded by acid and alkali at room temperature. There are many kinds of stainless steel, different kinds and different characteristics! The pressure vessel is required to have a particularly strong anti-pressure capability with the stainless steel tube, so how much pressure can the stainless steel tube bear? Here is a brief introduction:

How the pressure of the stainless steel tube is calculated:

1. Calculation formula: $2 \times \text{wall thickness} \times (\text{tensile strength} \times 40\%) / \text{outside diameter}$.

2. 316, 316 L, TP316, TP316L -- tensile strength: 485MPa.

3. 321, 304, 304L -- tensile strength: 520MPa.

The tensile strength of 304 stainless steel tube is 520MPa.

The tensile strength of 316 stainless steel tube is 485MPa.

The water pressure that the stainless steel tube can bear is different from the material that can withstand the pressure value. Outer diameter and wall thickness is also very important factors, the wall thickness is thicker, can withstand the pressure value, the greater the same diameter, for example, 10 thick stainless steel tube is thicker than the five stainless steel tube can withstand the pressure is much higher; In addition, it is related to the outer diameter. The larger the outer diameter, the smaller the pressure value can be. For example, the larger the wall thickness, the smaller the pressure value can be.

Calculation formula of pressure of stainless steel tube:

Hydraulic pressure test: $P = 2SR/D$.

S refers to wall thickness, r refers to 40% of tensile strength, D refers to outer diameter;

Here is an example:

Specification of stainless steel pipe 304: 159*3.

$P = 3/159 \times 520 \times 0.4 \times 2 = 7.84 \text{ MPA}$

Specification of stainless steel pipe : 159*3.

$P = 3/159 \times 485 \times 0.4 \times 2 = 7.32 \text{ MPA}$

The pressure ability of the steel tube can be obtained by calculating the formula. Do you know if it will help you? If you have any questions you can contact us, we will try our best to answer for you.

Zheheng steel, specializing in the production of stainless steel welded pipe, stainless steel tube, stainless steel U type pipe, stainless steel bellows tube, stainless steel coil, stainless steel coil for 11 years, from the storage of raw materials, production and processing, finished product outbound cengcengbaguan, to ensure that the environmental protection, e and reliable.

Ratings for standard seamless stainless steel pipes, temperatures ranging 100oF to 750oF. All ratings in psig based on ANSI/ASME B 31.1

Pressure Rating (psig)										
Pipe Size (inches)	Pipe Schedule	Temperature (oF)								
		100	200	300	400	500	600	650	700	750
1"	40	3048	2629	2362	2171	2019	1924	1867	1824	1810
	80	4213	3634	3265	3002	2791	2659	2580	2528	2501
	160	6140	5296	4759	4375	4068	3876	3761	3684	3646
1 1/2"	40	2257	1947	1750	1608	1496	1425	1383	1354	1340
	80	3182	2744	2466	2267	2108	2009	1949	1909	1889
	160	4619	3984	3580	3291	3060	2916	2829	2772	2743
2"	40	1902	1640	1474	1355	1260	1201	1165	1141	1129
	80	2747	2369	2129	1957	1820	1734	1682	1648	1631
	160	4499	3880	3486	3205	2980	2840	2755	2699	2671
3"	40	1806	1558	1400	1287	1196	1140	1106	1084	1072
	80	2553	2202	1979	1819	1691	1612	1564	1532	1516
	160	3840	3312	2976	2736	2544	2424	2352	2304	2280

Our product show :



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