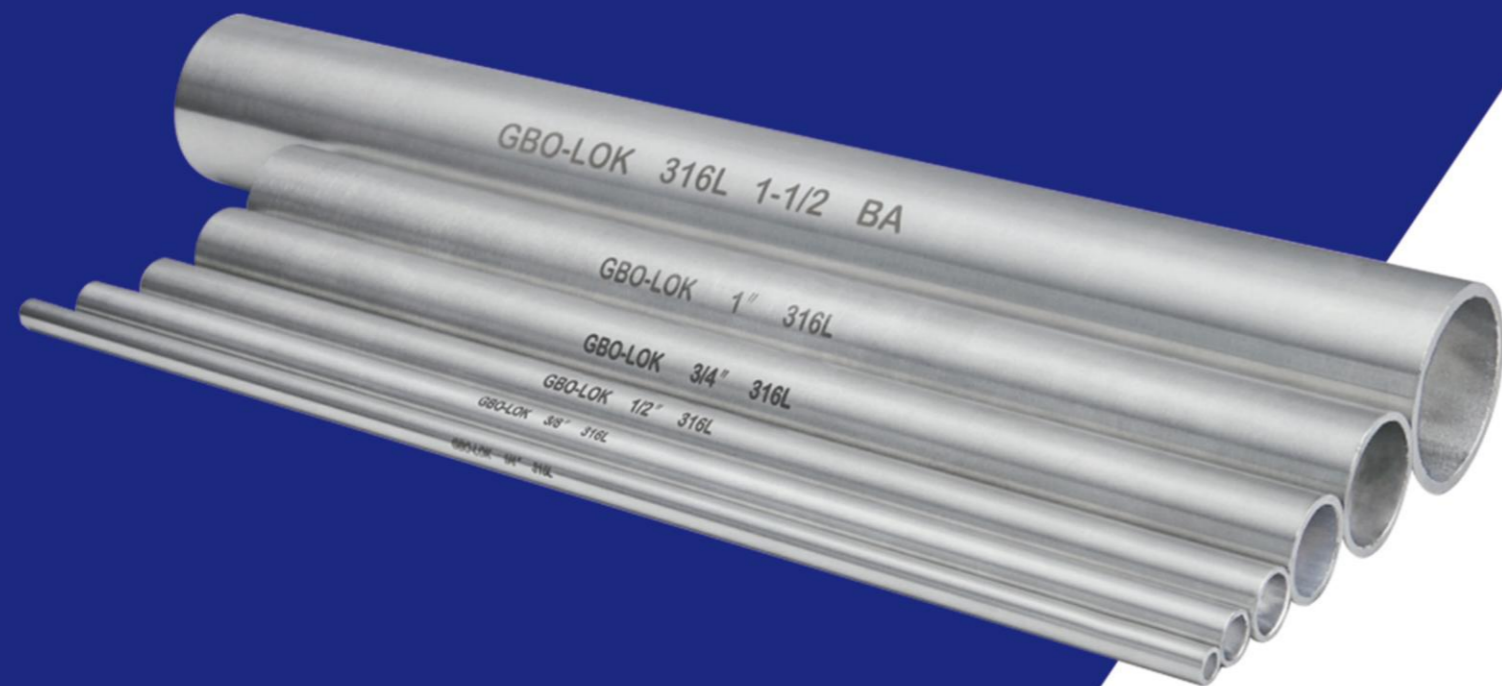


Stainless Steel Pipe

GBO.LOK®



Conventional Instrument Tube (TBA)

feature

1. Made of 316/316L stainless steel material;
2. Execution standards: ASTM A213, ASTM A269
3. Outer Diameter Size(mm): 1/8 "to 2", 3mm to 50mm;
4. Acid pickling, bright annealing or precision machining followed by bright annealing, inner surface roughness: Ra0.3 μm or Ra0.6 μm, outer surface mechanically polished;
5. Can be connected and used with GBO-LOK card sleeve connectors;
6. Regular supply lengths: 4m, 6m, and 20ft, with customizable lengths according to customer needs.

Steel pipe size

British

Outer Diameter Size in.(mm)	Wall Thickness in.(mm)	Outer Diameter Size in.(mm)	Wall Thickness in.(mm)
1/8 (3.175)	0.028 (0.711)	5/8 (15.88)	0.049 (1.24)
	0.035 (0.89)		0.065 (1.65)
1/4 (6.35)	0.049 (1.24)	3/4 (19.05)	0.049 (1.24)
	0.065 (1.65)		0.065 (1.65)
	0.035 (0.89)		0.083 (2.11)
3/8 (9.535)	0.049 (1.24)	1 (25.4)	0.049 (1.24)
	0.065 (1.65)		0.065 (1.65)
	0.083 (2.11)		0.083 (2.11)
	0.035 (0.89)		0.065 (1.65)
1/2 (12.7)	0.049 (1.24)	1 1/4 (31.75)	0.065 (1.65)
	0.065 (1.65)	1 1/2 (38.1)	0.065 (1.65)
	0.083 (2.11)	2 (50.8)	0.065 (1.65)

Metric

Outer Diameter Size(mm)	Wall Thickness (mm)	Outer Diameter Size(mm)	Wall Thickness (mm)
6	1.0	16	1.0
	1.0		1.5
8	1.5	18	2.0
	1.0		1.0
10	1.5	19	1.5
	2.0		2.0
	1.0		1.5
12	1.5	20	2.0
	2.0		1.5
	1.0		2.0
14	1.5	22	1.5
	2.0		2.0
	1.0		2.0
15	1.5	25	2.0
	2.0	28	1.5

Allowable working pressure of 316/316L stainless steel pipe at room temperature

British

Outer Diameter Size(in.)	Wall Thickness (in.)											
	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.156	0.188	
	Test work pressure,psig											
1/8	8500	10900										
3/16	5400	7000	10200									
1/4	4000	5100	7500	10200								
5/16		4000	5800	8000								
3/8		3300	4800	6500	7500							
1/2		2600	3700	5100	6700							
5/8			2900	4000	5200	6000						
3/4			2400	3300	4200	4900	5800					
7/8			2000	2800	3600	4200	4800					
1				2400	3100	3600	4200	4700				
1 1/4					2400	2800	3300	3600	4100	4900		
1 1/2						2300	2700	3000	3400	4000	4900	
2							2000	2200	2500	2900	3600	

Metric

Outer Diameter Size(mm)	Wall Thickness (mm)														
	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	3.5	4.0	4.5	5.0	
	Test work pressure,psig														
3	670														
6	310	420	540	710											
8		310	390	520											
10		240	300	400	510	580									
12		200	250	330	410	470									
14		160	200	270	340	380	430								
15		150	190	250	310	360	400								
16			170	230	290	330	370	400							
18			150	200	260	290	320	370							
20			140	180	230	260	290	330	380						
22			140	160	200	230	260	300	340						
25					180	200	230	260	290	320					
28						180	200	230	260	280	330				
30						170	180	210	240	260	310				
32						160	170	200	220	240	290	330			
38							140	160	190	200	240	270	310		
50										150	180	210	240	270	

High temperature coefficient

Temperature		High temperature coefficient
°C	°F	Material:316/316L
93	200	1.00
204	400	0.93
315	600	0.82
426	800	0.76
537	1000	0.69

If you want to obtain the maximum working pressure of steel pipes at high temperatures, multiply the maximum working pressure at its ambient temperature by the corresponding high temperature coefficient in the table above..

Clean Tube EP (TEP)

feature

1. Made of 316/316L stainless steel material;
2. Execution standards: ASTM A213,ASTM A269
3. Outer Diameter Size (mm): 1/8 "to 2", 3mm to 50mm;
4. Internal surface electrolytic polishing, roughness: Ra0.25µm, External surface: Ra0.50µm;
5. Regular supply lengths: 4m, 6m, and 20ft, customizable lengths according to customer needs.

T-tube size

Outer Diameter Size (in.)	Wall Thickness (in.)	Outer diameter tolerance mm(in.)	Wall thickness tolerance
1/4	0.035	±0.10 (0.004)	±10%
	0.039		
3/8	0.035		
	0.039		
	0.049		
1/2	0.035		
	0.039		
	0.049		
3/4	0.049		
	0.065		
1	0.049		
	0.065		
1-1/2	0.065	±0.20 (0.008)	
2	0.065	±0.25 (0.01)	

Allowable working pressure of 316/316L stainless steel pipe at room temperature

British

Outer Diameter Size(in.)	Wall Thickness (in.)			
	0.035	0.039	0.049	0.065
	Test work pressure,psig			
1/4	5100	5700		
3/8	3300	3700	4800	
1/2	2600	3000	3700	
3/4			2400	3300
1			1800	2400
1-1/2				1600
2				1200

High temperature coefficient

Temperature		High temperature coefficient
°C	°F	Material:316/316L
93	200	1.00
204	400	0.96
315	600	0.85
426	800	0.79
537	1000	0.76

If you want to obtain the maximum working pressure of steel pipes at high temperatures, multiply the maximum working pressure at its ambient temperature by the corresponding high temperature coefficient in the table above.