

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L

Dimension Specifications:

ASTM A269 - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service

ASTM A213 - Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

Material Specifications:

TP316
TP316L

Finishing:

Annealed and Pickled (AP)
Polished, 320 Grit
Bright Annealed (BA)

Recommended Bend Radius

A bend radius of 3x the external tube diameter is recommended for cold bending of tubes with tube benders or by hand. (As per Figure 1)

Welding Suitability

Tubes made of TP316 & TP316L are suitable for arc welding according to usual techniques. The welding filler should be selected in accordance with DIN EN 1600 and DIN EN 12072 part 1 taking into account the type of application and the welding technique.

Chemical Composition:

SS316/SS316L	Chemical Composition in %							
	C	Mn	P	S	Si	Ni	Cr	Mo
Min.						10.0	16.0	2.00
Max.	0.030	2.000	0.045	0.030	1.000	14.0	18.0	3.00

Mechanical Properties of the tubes at room temperature:

SS316/SS316L	Tensile Strength R_m N/mm ²	Upper Yield Point R_{eH} N/mm ² min.	Elongation at rupture A_5 % min.	Hardness Test HRB
Min.	515	205	35	
Max.				80

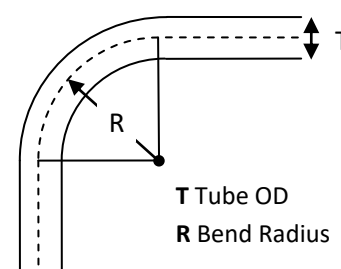


Figure 1 Recommended Bend Radius

2.5% Minimum Molybdenum Tubes (Mo > 2.5%) :

2.5% minimum Molybdenum specifications is used to enhance the corrosion resistance of seamless tubes. At Chuan Kok Hardware & Machinery Pte Ltd, we keep stock of a large range of Mo > 2.5% tubes.

Elevated Temperature Factor

Elevated Temperature Rating Factor is calculated using as per ASME B31.3. Dual Grades such as TP316/316L meet the requirements for the lower maximum carbon content of the L grades and the higher minimum yield and tensile strength of the non-L grades.

°F	-76	200	400	600	800	1000
°C	-60	93	204	315	426	537
Rating Factor	1.00	1.00	0.96	0.85	0.79	0.76

Ordering Information:

TS - 01 - AP - MM - 6 X 1.5
 I II III IV V VI

- I Type of Item** : TS Stainless Steel Tubes
- II Material Grade** : 01 SS316/SS316L
 02 SS316/SS316L MO>2.5%
- III Item Finish** : AP Annealed & Pickled
 BA Bright Annealed
 PO Polished Grit 320
- IV Size Designator** : MM Metric Size
 IN Inches Size
 NB Nominal Bore Size
- V OD for tube** :

For tubes in Metric OD Sizes

Size	6MM	12MM	20MM	35MM	38MM	42MM
Code	6	12	20		35	38	42

For Inch OD Sizes

Size	1/8"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"
Code	02	04	05	06	08	10	12
Size	1"	1 1/4"	1 1/2"	2"			
Code	16	20	24	32			

VI Tube Thickness :

For Metric OD Sizes

Size	1.0MM	1.5MM	2.0MM	4MM	5MM	10.0MM
Code	1.0	1.5	2.0		4.0	5.0	10.0

For Inch OD Sizes

Size	0.035"	0.049"	0.065"	0.083"	0.095"
Code	035	049	065	083	095
Size	0.109"	0.120"	0.134"	0.156"	0.188"
Code	109	120	134	156	188

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
1	TS-01-AP-IN-04X035	1/4"OD x 0.035" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	464	1336	0.73
2	TS-01-AP-IN-04X049	1/4"OD x 0.049" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	647	1863	0.95
3	TS-01-AP-IN-04X065	1/4"OD x 0.065" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	840	2419	1.14
4	TS-01-AP-IN-05X049	5/16"OD x 0.049" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	517	1490	1.24
5	TS-01-AP-IN-06X035	3/8"OD x 0.035" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	309	890	1.15
6	TS-01-AP-IN-06X049	3/8"OD x 0.049" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	431	1241	1.54
7	TS-01-AP-IN-06X065	3/8"OD x 0.065" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	560	1612	1.91
8	TS-01-AP-IN-08X035	1/2"OD x 0.035" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	232	668	1.57
9	TS-01-AP-IN-08X049	1/2"OD x 0.049" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	323	931	2.12
10	TS-01-AP-IN-08X065	1/2"OD x 0.065" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	420	1209	2.67
11	TS-01-AP-IN-08X083	1/2"OD x 0.083" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	550	1585	3.34
12	TS-01-AP-IN-08X120	1/2"OD x 0.120" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	795	2290	4.40
13	TS-01-AP-IN-12X049	3/4"OD x 0.049" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	216	621	3.30
14	TS-01-AP-IN-12X065	3/4"OD x 0.065" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	280	806	4.20
15	TS-01-AP-IN-12X083	3/4"OD x 0.083" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	367	1057	5.34
16	TS-01-AP-IN-12X109	3/4"OD x 0.109" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	482	1387	6.74
17	TS-01-AP-IN-16X049	1"OD x 0.049" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	162	466	4.48
18	TS-01-AP-IN-16X065	1"OD x 0.065" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	210	605	5.72
19	TS-01-AP-IN-16X083	1"OD x 0.083" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	275	792	7.34
20	TS-01-AP-IN-16X109	1"OD x 0.109" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	361	1040	9.37
21	TS-01-AP-IN-16X120	1"OD x 0.120" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	398	1146	10.19
22	TS-01-AP-IN-20X083	1 1/4"OD x 0.083" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	220	634	9.35
23	TS-01-AP-IN-20X109	1 1/4"OD x 0.109" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	289	832	12.00
24	TS-01-AP-IN-20X120	1 1/4"OD x 0.120" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	318	916	13.08

Note: Working Pressure Calculation: Calculated from ASME B31.1, with values from AMSE B31.3

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
25	TS-01-AP-IN-24X120	1 1/2"OD x 0.120" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	265	764	15.98
26	TS-01-AP-IN-24X184	1 1/2"OD x 0.184" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	406	1169	23.33
27	TS-01-AP-IN-24X188	1 1/2"OD x 0.188" THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	415	1196	23.78
28	TS-01-AP-MM-4X1.0	4MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	828	2385	0.45
29	TS-01-AP-MM-5X1.0	5MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	662	1908	0.60
30	TS-01-AP-MM-6X1.0	6MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	552	1590	0.75
31	TS-01-AP-MM-6X1.5	6MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	828	2385	1.01
32	TS-01-AP-MM-8X1.0	8MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	414	1193	1.05
33	TS-01-AP-MM-8X1.5	8MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	621	1789	1.46
34	TS-01-AP-MM-8X2.0	8MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	828	2385	1.79
35	TS-01-AP-MM-8X2.5	8MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	1035	2981	2.06
36	TS-01-AP-MM-10X1.0	10MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	331	954	1.35
37	TS-01-AP-MM-10X1.2	10MM OD x 1.2MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	397	1145	1.58
38	TS-01-AP-MM-10X1.5	10MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	497	1431	1.91
39	TS-01-AP-MM-10X2.0	10MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	662	1908	2.39
40	TS-01-AP-MM-10X2.5	10MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	828	2385	2.80
41	TS-01-AP-MM-12X1.0	12MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	276	795	1.64
42	TS-01-AP-MM-12X1.2	12MM OD x 1.2MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	331	954	1.94
43	TS-01-AP-MM-12X1.5	12MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	414	1193	2.35
44	TS-01-AP-MM-12X2.0	12MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	552	1590	2.99
45	TS-01-AP-MM-12X2.5	12MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	690	1988	3.55
46	TS-01-AP-MM-14X1.5	14MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	355	1022	2.80
47	TS-01-AP-MM-14X2.0	14MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	473	1363	3.59
48	TS-01-AP-MM-14X2.5	14MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	591	1704	4.30

Note: Working Pressure Calculation: Calculated from ASME B31.1, with values from AMSE B31.3

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
49	TS-01-AP-MM-14X3.0	14MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	710	2044	4.93
50	TS-01-AP-MM-15X1.5	15MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	331	954	3.03
51	TS-01-AP-MM-15X2.0	15MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	442	1272	3.89
52	TS-01-AP-MM-15X2.5	15MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	552	1590	4.67
53	TS-01-AP-MM-15X3.0	15MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	552	1590	4.67
54	TS-01-AP-MM-16X1.5	16MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	311	894	3.25
55	TS-01-AP-MM-16X2.0	16MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	414	1193	4.18
56	TS-01-AP-MM-16X2.5	16MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	518	1491	5.04
57	TS-01-AP-MM-16X3.0	16MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	621	1789	5.83
58	TS-01-AP-MM-18X1.5	18MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	276	795	3.70
59	TS-01-AP-MM-18X2.0	18MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	368	1060	4.78
60	TS-01-AP-MM-20X1.5	20MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	248	716	4.15
61	TS-01-AP-MM-20X2.0	20MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	331	954	5.38
62	TS-01-AP-MM-20X2.5	20MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	414	1193	6.54
63	TS-01-AP-MM-20X3.0	20MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	497	1431	7.62
64	TS-01-AP-MM-22X1.5	22MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	226	650	4.60
65	TS-01-AP-MM-22X2.0	22MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	301	867	5.98
66	TS-01-AP-MM-22X2.5	22MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	376	1084	7.29
67	TS-01-AP-MM-22X3.0	22MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	452	1301	8.52
68	TS-01-AP-MM-25X1.5	25MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	199	572	5.27
69	TS-01-AP-MM-25X2.0	25MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	265	763	6.88
70	TS-01-AP-MM-25X2.5	25MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	331	954	8.41
71	TS-01-AP-MM-25X3.0	25MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	397	1145	9.86
72	TS-01-AP-MM-25X4.0	25MM OD x 4.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	530	1526	12.55

Note: Working Pressure Calculation: Calculated from ASME B31.1, with values from AMSE B31.3

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
73	TS-01-AP-MM-28X2.5	28MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	296	852	9.53
74	TS-01-AP-MM-28X3.0	28MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	355	1022	11.21
75	TS-01-AP-MM-30X2.0	30MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	221	636	8.37
76	TS-01-AP-MM-30X3.0	30MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	331	954	12.11
77	TS-01-AP-MM-30X4.0	30MM OD x 4.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	442	1272	15.54
78	TS-01-AP-MM-35X2.0	35MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	189	545	9.86
79	TS-01-AP-MM-35X3.0	35MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	284	818	14.35
80	TS-01-AP-MM-38X3.0	38MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	261	753	15.69
81	TS-01-AP-MM-38X4.0	38MM OD x 4.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	349	1004	20.33
82	TS-01-AP-MM-38X5.0	38MM OD x 5.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	436	1255	24.66
83	TS-01-AP-MM-42X2.0	42MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	158	454	11.96
84	TS-01-AP-MM-42X3.0	42MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	237	681	17.49
85	TS-01-AP-MM-42X4.0	42MM OD x 4.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	315	909	22.72
86	TS-01-AP-MM-50X3.0	50MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	199	572	21.07
87	TS-01-AP-MM-50X5.0	50MM OD x 5.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	331	954	33.63
88	TS-01-AP-MM-50X6.0	50MM OD x 6.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	397	1145	39.46
89	TS-01-AP-MM-60X3.0	60MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	166	477	25.56
90	TS-01-AP-MM-60X5.0	60MM OD x 5.0MM THK x 6 MTR SS316/316L TUBE (ANNEALED & PICKLED)	276	795	41.10

Note: Working Pressure Calculation: Calculated from ASME B31.1, with values from AMSE B31.3

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L MO>2.5% Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
90	TS-02-AP-IN-04X035	1/4"OD x 0.035" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	464	1336	0.73
91	TS-02-AP-IN-04X049	1/4"OD x 0.049" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	647	1863	0.95
92	TS-02-AP-IN-04X065	1/4"OD x 0.065" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	861	2480	1.16
93	TS-02-AP-IN-06X035	3/8"OD x 0.035" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	309	890	1.15
94	TS-02-AP-IN-06X049	3/8"OD x 0.049" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	431	1241	1.54
95	TS-02-AP-IN-06X065	3/8"OD x 0.065" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	574	1653	1.94
96	TS-02-AP-IN-06X083	3/8"OD x 0.083" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	733	2112	2.34
97	TS-02-AP-IN-08X035	1/2"OD x 0.035" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	232	668	1.57
98	TS-02-AP-IN-08X049	1/2"OD x 0.049" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	323	931	2.12
99	TS-02-AP-IN-08X065	1/2"OD x 0.065" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	431	1240	2.73
100	TS-02-AP-IN-08X083	1/2"OD x 0.083" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	550	1585	3.34
101	TS-02-AP-IN-12X049	3/4"OD x 0.049" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	216	621	3.30
102	TS-02-AP-IN-12X065	3/4"OD x 0.065" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	287	827	4.29
103	TS-02-AP-IN-12X083	3/4"OD x 0.083" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	367	1057	5.34
104	TS-02-AP-IN-12X109	3/4"OD x 0.109" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	482	1387	6.74
105	TS-02-AP-IN-16X049	1"OD x 0.049" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	162	466	4.48
106	TS-02-AP-IN-16X065	1"OD x 0.065" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	215	620	5.86
107	TS-02-AP-IN-16X083	1"OD x 0.083" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	275	792	7.34
108	TS-02-AP-IN-16X109	1"OD x 0.109" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	361	1040	9.37
109	TS-02-AP-IN-16X120	1"OD x 0.120" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	398	1146	10.19
110	TS-02-AP-IN-20X109	1 1/4"OD x 0.109" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	289	832	12.00
111	TS-02-AP-IN-20X120	1 1/4"OD x 0.120" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	318	916	13.08
112	TS-02-AP-IN-24X120	1 1/2"OD x 0.120" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	265	764	15.98
113	TS-02-AP-IN-24X188	1 1/2"OD x 0.188" THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	416	1197	23.80

Note: Working Pressure Calculation: DIN 2413 I Static Straight Pipe including manufacturing tolerance.

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L MO>2.5% Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
114	TS-02-AP-MM-6X1.0	6MM OD x 1.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	552	1590	0.75
115	TS-02-AP-MM-6X1.5	6MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	828	2385	1.01
116	TS-02-AP-MM-8X1.0	8MM OD x 1.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	414	1193	1.05
117	TS-02-AP-MM-8X1.5	8MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	621	1789	1.46
118	TS-02-AP-MM-8X2.0	8MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	828	2385	1.79
119	TS-02-AP-MM-8X2.5	8MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	1035	2981	2.06
120	TS-02-AP-MM-10X1.0	10MM OD x 1.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	331	954	1.35
121	TS-02-AP-MM-10X1.5	10MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	497	1431	1.91
122	TS-02-AP-MM-10X2.0	10MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	662	1908	2.39
123	TS-02-AP-MM-10X2.5	10MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	828	2385	2.80
124	TS-02-AP-MM-12X1.0	12MM OD x 1.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	276	795	1.64
125	TS-02-AP-MM-12X1.5	12MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	414	1193	2.35
126	TS-02-AP-MM-12X2.0	12MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	552	1590	2.99
127	TS-02-AP-MM-12X2.5	12MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	690	1988	3.55
128	TS-02-AP-MM-12X3.0	12MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	828	2385	4.04
129	TS-02-AP-MM-14X1.5	14MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	355	1022	2.80
130	TS-02-AP-MM-14X2.0	14MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	473	1363	3.59
131	TS-02-AP-MM-14X2.5	14MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	591	1704	4.30
132	TS-02-AP-MM-14X3.0	14MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	710	2044	4.93
133	TS-02-AP-MM-15X1.5	15MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	331	954	3.03
134	TS-02-AP-MM-15X2.0	15MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	442	1272	3.89
135	TS-02-AP-MM-15X2.5	15MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	552	1590	4.67
136	TS-02-AP-MM-15X3.0	15MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	662	1908	5.38
137	TS-02-AP-MM-16X1.5	16MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	311	894	3.25

Note: Working Pressure Calculation: DIN 2413 I Static Straight Pipe including manufacturing tolerance.

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L MO>2.5% Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
138	TS-02-AP-MM-16X2.0	16MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	414	1193	4.18
139	TS-02-AP-MM-16X3.0	16MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	621	1789	5.83
140	TS-02-AP-MM-18X1.5	18MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	276	795	3.70
141	TS-02-AP-MM-18X2.0	18MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	368	1060	4.78
142	TS-02-AP-MM-18X2.5	18MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	460	1325	5.79
143	TS-02-AP-MM-18X3.0	18MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	552	1590	6.73
144	TS-02-AP-MM-20X1.5	20MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	248	716	4.15
145	TS-02-AP-MM-20X2.0	20MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	331	954	5.38
146	TS-02-AP-MM-20X2.5	20MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	414	1193	6.54
147	TS-02-AP-MM-22X1.5	22MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	226	650	4.60
148	TS-02-AP-MM-22X2.0	22MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	301	867	5.98
149	TS-02-AP-MM-25X1.5	25MM OD x 1.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	199	572	5.27
150	TS-02-AP-MM-25X2.0	25MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	265	763	6.88
151	TS-02-AP-MM-25X2.5	25MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	331	954	8.41
152	TS-02-AP-MM-25X3.0	25MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	397	1145	9.86
153	TS-02-AP-MM-25X4.0	25MM OD x 4.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	530	1526	12.55
154	TS-02-AP-MM-28X2.0	28MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	237	681	7.77
155	TS-02-AP-MM-28X2.5	28MM OD x 2.5MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	296	852	9.53
156	TS-02-AP-MM-28X3.0	28MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	355	1022	11.21
157	TS-02-AP-MM-30X2.0	30MM OD x 2.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	221	636	8.37
158	TS-02-AP-MM-30X3.0	30MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	331	954	12.11
159	TS-02-AP-MM-30X4.0	30MM OD x 4.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	442	1272	15.54
160	TS-02-AP-MM-35X3.0	35MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	284	818	14.35
161	TS-02-AP-MM-38X3.0	38MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	261	753	15.69

Note: Working Pressure Calculation: DIN 2413 I Static Straight Pipe including manufacturing tolerance.

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L MO>2.5% Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
162	TS-02-AP-MM-38X4.0	38MM OD x 4.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	349	1004	20.33
163	TS-02-AP-MM-38X5.0	38MM OD x 5.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	436	1255	24.66
164	TS-02-AP-MM-42X3.0	42MM OD x 3.0MM THK x 6 MTR SS316/316L MO>2.5% TUBE (ANNEALED & PICKLED)	237	681	17.49
165	TS-02-PO-IN-06X035	3/8"OD x 0.035" THK x 6 MTR SS316/316L MO>2.5% TUBE (POLISHED 320 GRIT)	309	890	1.15
166	TS-02-PO-IN-08X083	1/2"OD x 0.083" THK x 6 MTR SS316/316L MO>2.5% TUBE (POLISHED 320 GRIT)	550	1585	3.34

Note: Working Pressure Calculation: DIN 2413 I Static Straight Pipe including manufacturing tolerance.

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L Polished Grit 320 Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
167	TS-01-PO-IN-04X035	1/4"OD x 0.035" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	464	1336	0.73
168	TS-01-PO-IN-04X049	1/4"OD x 0.049" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	647	1863	0.95
169	TS-01-PO-IN-04X065	1/4"OD x 0.065" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	840	2419	1.14
170	TS-01-PO-IN-05X065	5/16"OD x 0.065" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	688	1982	1.55
171	TS-01-PO-IN-06X035	3/8"OD x 0.035" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	309	890	1.15
172	TS-01-PO-IN-06X049	3/8"OD x 0.049" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	431	1241	1.54
173	TS-01-PO-IN-06X065	3/8"OD x 0.065" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	560	1612	1.91
174	TS-01-PO-IN-08X035	1/2"OD x 0.035" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	232	668	1.57
175	TS-01-PO-IN-08X049	1/2"OD x 0.049" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	323	931	2.12
176	TS-01-PO-IN-08X065	1/2"OD x 0.065" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	420	1209	2.67
177	TS-01-PO-IN-08X083	1/2"OD x 0.083" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	550	1585	3.34
178	TS-01-PO-IN-10X065	5/8"OD x 0.065" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	335	966	3.44
179	TS-01-PO-IN-12X065	3/4"OD x 0.065" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	280	806	4.20
180	TS-01-PO-IN-12X083	3/4"OD x 0.083" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	367	1057	5.34
181	TS-01-PO-IN-12X109	3/4"OD x 0.109" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	482	1387	6.74
182	TS-01-PO-IN-16X083	1"OD x 0.083" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	275	792	7.34
183	TS-01-PO-IN-20X083	1 1/4"OD x 0.083" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	220	634	9.35
184	TS-01-PO-IN-20X109	1 1/4"OD x 0.109" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	289	832	12.00
185	TS-01-PO-IN-20X120	1 1/4"OD x 0.120" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	318	916	13.08
186	TS-01-PO-IN-24X120	1 1/2"OD x 0.120" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	265	763	15.97
187	TS-01-PO-IN-24X184	1 1/2"OD x 0.184" THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	406	1170	23.35
188	TS-01-PO-MM-6X1.0	6MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	552	1590	0.75
189	TS-01-PO-MM-8X1.0	8MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	414	1193	1.05
190	TS-01-PO-MM-10X1.0	10MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	331	954	1.35

Note: Working Pressure Calculation: DIN 2413 I Static Straight Pipe including manufacturing tolerance.

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L Polished Grit 320 Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
191	TS-01-PO-MM-10X1.5	10MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	497	1431	1.91
192	TS-01-PO-MM-10X2.0	10MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	662	1908	2.39
193	TS-01-PO-MM-12X1.0	12MM OD x 1.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	276	795	1.64
194	TS-01-PO-MM-12X1.5	12MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	414	1193	2.35
195	TS-01-PO-MM-12X2.0	12MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	552	1590	2.99
196	TS-01-PO-MM-14X1.5	14MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	355	1022	2.80
197	TS-01-PO-MM-14X2.0	14MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	473	1363	3.59
198	TS-01-PO-MM-14X2.5	14MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	591	1704	4.30
199	TS-01-PO-MM-15X1.5	15MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	331	954	3.03
200	TS-01-PO-MM-15X2.0	15MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	442	1272	3.89
201	TS-01-PO-MM-15X3.0	15MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	662	1908	5.38
202	TS-01-PO-MM-16X1.5	16MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	311	894	3.25
203	TS-01-PO-MM-16X2.0	16MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	414	1193	4.18
204	TS-01-PO-MM-18X1.5	18MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	276	795	3.70
205	TS-01-PO-MM-18X2.0	18MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	368	1060	4.78
206	TS-01-PO-MM-20X1.5	20MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	248	716	4.15
207	TS-01-PO-MM-20X2.0	20MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	331	954	5.38
208	TS-01-PO-MM-20X2.5	20MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	414	1193	6.54
209	TS-01-PO-MM-20X3.0	20MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	497	1431	7.62
210	TS-01-PO-MM-22X1.5	22MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	226	650	4.60
211	TS-01-PO-MM-22X2.0	22MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	301	867	5.98
212	TS-01-PO-MM-22X2.5	22MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	376	1084	7.29
213	TS-01-PO-MM-25X1.5	25MM OD x 1.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	199	572	5.27
214	TS-01-PO-MM-25X2.0	25MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	265	763	6.88

Note: Working Pressure Calculation: DIN 2413 I Static Straight Pipe including manufacturing tolerance.

Seamless Stainless Steel Tube ASTM A269/A213 TP316/316L Polished Grit 320 Working Pressure Table

No.	Part Number	Description	Working Pressure (BAR)	Burst Pressure (BAR)	Weight /6MTR (KG)
215	TS-01-PO-MM-25X2.5	25MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	331	954	8.41
216	TS-01-PO-MM-25X3.0	25MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	397	1145	9.86
217	TS-01-PO-MM-28X2.0	28MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	237	681	7.77
218	TS-01-PO-MM-28X2.5	28MM OD x 2.5MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	296	852	9.53
219	TS-01-PO-MM-28X3.0	28MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	355	1022	11.21
220	TS-01-PO-MM-30X2.0	30MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	221	636	8.37
221	TS-01-PO-MM-30X3.0	30MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	331	954	12.11
222	TS-01-PO-MM-35X2.0	35MM OD x 2.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	189	545	9.86
223	TS-01-PO-MM-35X3.0	35MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	284	818	14.35
224	TS-01-PO-MM-38X3.0	38MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	261	753	15.69
225	TS-01-PO-MM-42X3.0	42MM OD x 3.0MM THK x 6 MTR SS316/316L TUBE (POLISHED 320 GRIT)	237	681	17.49

Note: Working Pressure Calculation: DIN 2413 I Static Straight Pipe including manufacturing tolerance.

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