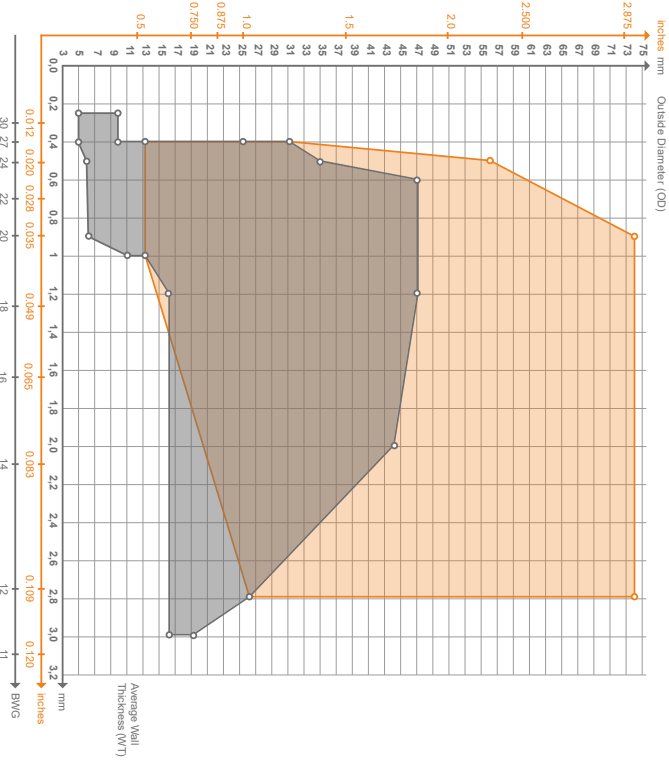


Most usual dimensions : thermal conductivity and metric weight

Material (ASTM / EN)	Thermal conductivity K	Wall thickness (WT) mm	Outside diameter (OD) mm	Metric weight kg / m	
					15 W/(m.°C)
Titanium grade 2 (B338 GR.2)	22 W/(m.°C)	0.5	30	0.21	
			25.4	0.18	
			19	0.13	
Austenitic (ex: 304, 316, 321) (1.4301) (1.4404 / 1.454)	15 W/(m.°C)	0.5	20	0.24	
				25	0.31
				15	0.35
Duplex (ex: 25-07) (1.4462, 1.4410)	15 W/(m.°C)	0.5	20	0.48	
				25	0.60
				19.5	0.23
Ferritic (TP439)	24 W/(m.°C)	1.2	25.4	0.31	
				15	0.40
				19	0.52
Super Ferritic S44735 (1.4592)	17 W/(m.°C)	0.5	25.4	0.30	
				19	0.95
				25.4	1.30
Nickel Alloy (ex: 625)	10 W/(m.°C)	2.1	19	0.52	
Brass (ex: CuZn30Ae)	121 W/(m.°C)	1	20	0.52	

Titanium and Stainless Steel Welded Tubes Diameter and wall thickness capabilities



Titanium Alloys
12.7 mm ≤ OD ≤ 73 mm (0.5") (2.875")
0.4 mm ≤ WT ≤ 2.77 mm (0.015") (0.11")

Stainless Steels
12.7mm ≤ OD ≤ 46.2 mm (0.5") (1.82")
0.4 mm ≤ WT ≤ 3.05 mm (0.015") (0.12")

Other dimensions can be considered upon request



NEOTISS
HIGH PERFORMANCE TUBE

www.neotiss.com

WT = Wall Thickness / BWG = Birmingham Wire Gauge

www.sevnyova.com

Pounds = kg x 2.2

Kilograms = lbs / 2.2

Kilograms / pounds

feet = meters x 3.281

meters = feet x 0.3048

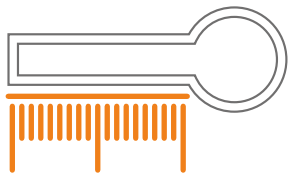
Meters / feet

Pressure

bar = 0.1 MPa (Megapascal) = 0.99 atm

(Atmosphere) = 14.5 psi (Pound Square Inch)

Formula
 ${}^{\circ}\text{F} = {}^{\circ}\text{C} \times \frac{9}{5} + 32$
 ${}^{\circ}\text{C} = \frac{{}^{\circ}\text{F} - 32}{1.8}$



Centigrade / fahrenheit

0.026515 (Nickel/Alloy 625)

0.02450 (Duplex)

0.02809 (Cu/Ni)

0.02420 (Ferritic)

0.02504 (Austenitic)

(OD-WT) x WT x 0.01414 (Titanium)

WT - mm, OD - mm, mass - kg

Metric mass

BWG
inches / mm

inches / mm

mm

1	1	4.25
2	0.016	0.4
3	0.020	0.5
4	0.028	0.7
5	0.035	0.89
6	0.050	1.24
7	0.059	1.47
8	0.063	1.65
9	0.072	1.83
10	0.079	2
11	0.083	2.11
12	0.095	2.41
13	0.109	2.77
14	0.120	3.05
15	0.134	3.40
16	0.20	5
17	0.25	6.35
18	0.3	7.62
19	0.39	10
20	0.5	12.7
21	0.59	15.1
22	0.65	16.5
23	0.75	19.05
24	0.89	22.6
25	1.06	26.9
26	1.31	33.3
27	1.65	41.9
28	2.0	50.8
29	2.41	61.3
30	2.875	73.0

Conversion tables