

304 Stainless Steel Plumbing Press Tube Data Sheet



The Lawton 304 Stainless Steel Tube range is available in sizes 15mm - 108mm. Manufactured to EN 10312 and WRAS approved, the range is suitable for heating, cooling, and fuel gas applications. Designed for use with Lawton M-Profile press fittings for a fast, flame-free, permanent connection.



Lawton Stainless Steel Tube	15mm - 108mm
Applications	Heating, Cooling and Chilled Water
Market Segment	Domestic, Industrial and Commercial
Materials	1.4301 (AISI 304) Stainless Steel
Material Standards	EN 10312, EN 10088
Delivery Lengths	3m and 6m straight lengths, capped with black cap
Surface Finish	Bright, smooth and clean external surfaces
Dimensions and Tolerances	See Webpage
Product Marking	Size, LTC Logo, Material, MFG Date
Minimum Bending Radius	3.5 x Outside Diameter
Warranty	50 Years (See website for T&Cs)
Suitable for heating, cooling, chilled water, compressed air, vacuum, rainwater harvesting. Suitable for Family 2 and Family 3 fuel gas systems (with Lawton gas press fittings)	

Compatible Lawton Press Fittings

- 316L Plumbing Press Fittings (EPDM, PN16, 15-108mm)
- 304 Plumbing Press Fittings (EPDM, PN16, 15-108mm)
- 316L Gas Press Fittings (HNBR, PN5, 15-108mm)
- 304 Gas Press Fittings (HNBR, PN5, 15-108mm)

Note: While fittings and tubes of material grades 304 and 316L can be mixed, the corrosion resistance of the system shall be determined by the least resistant component. 304 fittings and tube are not recommended for potable water applications due to risk of chlorine-induced corrosion, but are safe for contact with water.

Dissimilar metals:

Installations containing mixed metals are generally to be avoided. Metals that are not close to each other on the galvanic scale can corrode when connected directly together.

If dissimilar metals are required in the same system, we recommend the Water Regulations Guide is adhered to.

Technical Data

OD (mm)	Wall (mm)	ID (mm)	Weight (kg/m)	Water capacity (l/m)	EN 10312 Series
15	0.6	13.8	0.217	0.150	1
18	0.7	16.6	0.304	0.216	1
22	0.7	20.6	0.375	0.333	1
28	0.8	26.4	0.547	0.547	1
35	1.0	33.0	0.855	0.855	1
42	1.1	39.8	1.131	1.244	1
54	1.2	51.6	1.592	2.091	1
66.7	1.2	64.3	1.975	3.247	1
76.1	2.0	72.1	3.725	4.083	2
88.9	2.0	84.9	4.368	5.661	2
108	2.0	104.0	5.328	8.495	2

Physical Properties

Property	Value
Density	8.0 kg/dm ³
Thermal expansion coefficient α (20–100°C)	0.016 mm/(m·K)
Thermal conductivity λ (20°C)	15 W/(m·K)
Specific heat capacity c (20°C)	500 J/(kg·K)
Surface roughness k	≤ 1.5 μ m
Electrical resistivity (20°C)	0.73 Ω ·mm ² /m
Building material class	A1 per EN 13501-1

Mechanical Properties — 1.4301 (AISI 304) per EN 10088

Property	Value
Tensile strength Rm	500–700 N/mm ²
0.2% proof stress Rp0.2	≥ 220 N/mm ²
Elongation at break A5	> 40%
Delivery condition	As-welded

Water quality

304 stainless steel is suitable for closed circuit systems with treated water. The dissolved chloride content should not exceed 250 mg/l. Ensure water treatment inhibitors are compatible with stainless steel.

For more details, please refer to our website or contact us by e-mail at technical@lawtontubes.co.uk