

316L Stainless Steel Plumbing Press Fittings Data Sheet



The Lawton 316L Stainless Steel Press range is available in sizes 15mm - 168.3mm. Perfect for heat-free installation in potable water, heating, and cooling applications; this innovative product comes with an unbeatable 50-year warranty, showcasing our commitment to quality and reliability.



Lawton Press Fittings	15mm - 168.3mm
Applications	Potable water, Heating, Cooling Oil-free Compressed Air
Market Segment	Domestic, Industrial and Commercial
Materials	1.4404 (AISI 316L) Stainless Steel
Sealing	EPDM O-Ring - Black
Press Configuration	M-Profile
Maximum Operating Parameters (Liquid)	16 bar (-20°C - 110°C)
Minimum Operating Pressure (Negative Pressure)	-0.8 bar (gauge, -20°C - 110°C)
Maximum Operating Parameters (Oil-free compressed air)	10 bar (5°C - 35°C)
Dimensions	See Webpage
Product Marking	Size, LTC Logo, Material, MFG Date, DVGW
Guarantee	50 Years (See website for full T&Cs)
Electrical Continuity	Yes
Thread Specification	Male - ISO 7/EN 10226-1 Female - BS EN ISO 228
Assembly Instructions	See Webpage
Features	Leak Before Press O-Ring (up to and including 54mm) Press Indicator (Blue) No solder required No hot works permits needed
Material Standards	Fitting - EN 10088 O-Ring - EN 681-1 WRAS Material Approved
Suitable for potable water, heating, cooling, chilled water, oil-free compressed air, vacuum, rainwater harvesting.	

Tube Compatibility

Compatible with stainless steel tubes to EN 10312. Fittings accept both Series 1 and Series 2 tubes.

Tube OD (mm)	EN 10312 Series 1 Wall (mm)		EN 10312 Series 2 Wall (mm)	
15	0.6	✓	1.0	✓
18	0.7	✓	1.0	✓
22	0.7	✓	1.2	✓
28	0.8	✓	1.2	✓
35	1.0	✓	1.5	✓
42	1.1	✓	1.5	✓
54	1.2	✓	1.5	✓
66.7	1.2	✓	—	—
76.1	1.5	✓	2.0	✓
88.9	—	—	2.0	✓
108	1.5	✓	2.0	✓
139.7 ¹	2.0	✓	2.6	✓
168.3 ¹	2.0	✓	2.6	✓

¹ Tubes manufactured with compliance with EN 10312 and EN 10217-7

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.

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.

Water quality

The chloride ion content in potable water must not exceed 250 mg/l to avoid localised corrosion. Where chlorine-based disinfection is used, the application duration and concentration must be strictly observed. 316L (1.4404) can tolerate chloride levels up to 1000 mg/l, but sustained exposure to excessive concentrations - particularly at elevated temperatures - may cause pitting or crevice corrosion.

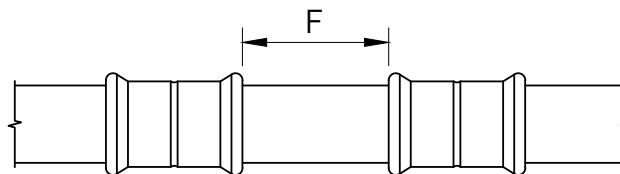
Tools approved for use with Lawton Tube Press Fittings

It is imperative that matching tools, adaptors, pressing jaws and sling from a single manufacturer are used during installation.

Manufacturer	Model	Diameters (mm)	Pressing Jaws	Adaptors	Sling
Novopress	ACO103	15 - 35	PB1 M15 - M35	—	—
	ACO203	15 - 35	PB2 M15 - M35	—	—
		42 - 54	—	ZB203	PSL M42 - M54
	ACO203XL	15 - 35	PB2 M15 - M35	—	—
		42 - 54	—	ZB203	PSL M42 - M54
		66.7 - 76.1	—	ZB221	PSL M67 - M76
		108	—	ZB221 + ZB222	PSL 108 Copper only
Geberit	ACO403	139.7 - 168.3	—	Integrated	PSL 139.7 - 168.3
	ACO103plus	15 - 35	Comp. [1] 15 - 35	—	—
	ACO203plus	15 - 35	Comp. [2] 15 - 35	—	—
		42 - 66.7	—	ZB203A	Comp. [2] 42 - 66.7
		15 - 35	Comp. [2] 15 - 35	—	—
		42 - 66.7	—	ZB203A	Comp. [2] 42 - 66.7
		76.1 - 88.9	—	ZB221	Comp. [2XL] - 76.1 - 88.9
Rothenberger	Compact TT	15 - 28	Compact M15 - M28	—	—
	Compact 3	15 - 35	Compact M15 - M35	—	—
	Romax 4000	15 - 35	Standard M15 - M35	—	—
		42 - 54	—	ZBS1	M42 - M54
Rems	Mini-Press	15 - 28	M15 - M28	—	—
	Akku-Press	15 - 28	M15 - M28	—	—

Distance between fittings:

It is recommended to maintain a minimum distance between each fitting to account for the deformation of the tube profile when pressed. This also applies to localised annealing.



Tube Size	Minimum Clearance F (mm)
15mm	13
18mm	13
22mm	13
28mm	13
35mm	13
42mm	16
54mm	20
66.7mm	30
76.1mm	40
88.9mm	45
108mm	50
139.7mm	60
168.3mm	70

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