

304 Stainless Steel Plumbing Press Fittings Data Sheet



The Lawton 304 Stainless Steel Press range is available in sizes 15mm - 168.3mm. Perfect for heat-free installation in 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	Heating, Cooling and Chilled Water
Market Segment	Domestic, Industrial and Commercial
Materials	1.4301 (AISI 304) Stainless Steel
Sealing	EPDM O-Ring - Black
Press Configuration	M-Profile
Maximum Operating Pressure (Liquid)	16 bar
Minimum Operating Pressure (Negative Pressure)	-0.8 bar (gauge)
Ambient Temperature Range	-20°C to 110°C
Dimensions	See Webpage
Product Marking	Size, LTC Logo, Material, MFG Date
Warranty	50 Years (See website for T&Cs)
Electrical Continuity	Yes
Thread Specification	Male - ISO 7/EN10226-1 Female - BS EN ISO 228
Assembly Instructions	See Webpage
Features	Leak Before Press O-Ring (up to and including 54mm) Press Indicator (Black) No solder required No hot works permits needed
Material Standards	Fitting - EN 10088 O-Ring - EN 681-1 WRAS Material Approved
Suitable for heating, cooling, chilled water, compressed air, vacuum.	

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		EN 10312 Series 2	
	Wall (mm)		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 316L and 304 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 susceptibility to 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 BS EN 14336 and good engineering practice is adhered to.

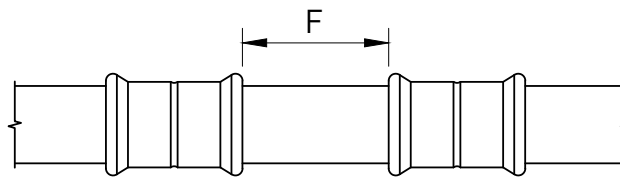
System water treatment

304 stainless steel is suitable for closed circuit systems with treated water. Ensure water treatment inhibitors are compatible with stainless steel - consult the treatment chemical manufacturer. The dissolved chloride content in the system water should not exceed 250 mg/L. Where chlorine-based biocide dosing is used, the application duration and concentration must be strictly controlled to avoid localised corrosion.

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 PSL M108
	ACO403	139.7 - 168.3	—	Integrated	PSL 139.7 - 168.3
Geberit	ACO103plus	15 - 35	Comp. [1] 15 - 35	—	—
	ACO203plus	15 - 35	Comp. [2] 15 - 35	—	—
		42 - 66.7	—	ZB203A	Comp. [2] 42 - 66.7
	ACO203XLplus	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