

316L Stainless Steel Gas Press Fittings Data Sheet



The Lawton 316L Stainless Steel Press Gas range is available in sizes 15mm - 168mm. Perfect for heat-free installation in Family 2 and Family 3 fuel gas systems; this innovative product comes with an unbeatable 50-year warranty, showcasing our commitment to quality and reliability.



Lawton Press Fittings	15mm - 168.3mm
Applications	Family 2 and Family 3 Fuel Gas Systems Compressed Air
Market Segment	Domestic and Commercial
Materials	1.4404 (AISI 316L) Stainless Steel
Sealing	HNBR O-Ring - Yellow
Press Configuration	M-Profile
Maximum Operating Pressure (Fuel Gas)	5 bar - Outdoors, 1 bar - Indoors
Minimum Operating Pressure (Negative Pressure)	-0.8 bar (gauge)
Maximum Operating Parameters (Compressed Air)	10 bar (5°C - 35°C)
Operating Temperature Range	-20°C - 70°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/EN 10226-1 Female - BS EN ISO 228
Assembly Instructions	See Webpage
Features	For safety purposes - No leak before press O-ring Press Indicator (Yellow) No solder required No hot works permits needed
Material Standards	Fitting - EN 10088 O-Ring - EN 549
Suitable for installations to BS 6891 and IGEM/UP/2. Gas Safety (Installation and Use) Regulations 1998 must be adhered to.	

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	✓

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.

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, Gas Safety (Installation and Use) Regulations 1998 must be adhered to.

Fire resistance

Lawton 316L Gas Press fittings have been tested to demonstrate Higher Thermal Capacity (HTC) - proven gas-tight at 650°C for 30 minutes at PN5. This ensures the system will not leak and create an explosive gas-air mixture in the event of a fire, permitting installation within buildings subject to fire regulations.

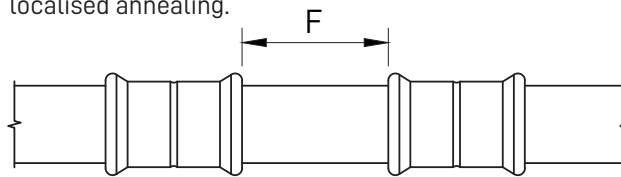
Tools approved for use with Lawton Tube Press fitting

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 PSL M108
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
		108	—	ZB221 + ZB222	Comp. [2XL] 108
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