

ACR Fitting Data Sheet



Lawton Capillary Refrigeration Fittings	1/4" - 4.1/8" (6.35 mm - 104.775 mm)
Applications	Air Conditioning, Refrigeration Piping Systems, CO ₂
Market Segment	Domestic and Commercial
Material	CW024A Copper
Joining Method	Soldering, Brazing
Maximum Operating Pressure	See Table on Page 2
Dimensions and Catalogue	See webpage
Product Marking	Permanent marking, Lawton Logo, Size
Warranty	75 Years (See website for T&Cs)
Electrical Continuity	Yes
Form of Supply	Bags, Boxes
Inner Surface Quality	Clean and Smooth, Carbon Content ≤ 0.38 mg/dm ²
Compatible Refrigerants	R32, R134a, R410A, R404A, R407C, R407F, R1234yf, R1234ze, R744/CO ₂ and more
Thread Specification	Male - ASME B1.20.1 (NPTE) Female - ASME B1.20.1 (NPTI)
Assembly Instruction	See webpage
Standard	ASME B16.22, Compliant Component in Pressure Equipment Directive Assemblies

Material Composition and Other Properties

Copper Content Including Silver	99.90 %
Phosphorus	0.015 - 0.040 %
Total Impurities Excluding Phosphorus and Silver	0.060 %
Melting Point	1083 °C
Density	8.96 g/cm ³

Maximum Operating Pressure as per BS EN 378-2

Size	Burst Pressure	Up to 55°C	Up to 100°C	Up to 150°C
1/4"	500 bar	150 bar	150 bar	131 bar
3/8"	360 bar	120 bar	120 bar	105 bar
1/2"	320 bar	100 bar	100 bar	87 bar
5/8"	300 bar	100 bar	100 bar	87 bar
3/4"	280 bar	90 bar	90 bar	79 bar
7/8"	240 bar	80 bar	80 bar	70 bar
1 1/8"	220 bar	75 bar	75 bar	66 bar
1 3/8"	220 bar	65 bar	65 bar	57 bar
1 5/8"	180 bar	55 bar	55 bar	48 bar
2 1/8"	100 bar	33 bar	33 bar	29 bar
2 5/8"	93 bar	31 bar	31 bar	27 bar
3 1/8"	87 bar	29 bar	29 bar	25 bar
3 5/8"	84 bar	28 bar	28 bar	24.5 bar
4 1/8"	81 bar	27 bar	27 bar	23.5 bar

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