UL-/CAN/CSA Heating hoses





Many of our customers export to the US and Canada - a UL approval for the US or a CAN/CSA certificate for Canada is a prerequisite for this. In addition, the approvals simplify market access in many other countries, as the standards enjoy a high reputation worldwide and serve as a benchmark.

KLETTI is the only company in Europe authorized to manufacture and certify heating hoses according to UL and CAN/CSA specifications. The certification of our production processes and products is carried out by TÜV Süd.

TÜV Süd checks whether materials, components, systems, and the production process meet the specific requirements. Only if this is the case, our heating hoses are allowed to display the UL or CAN/CSA test mark, for which a fee is charged.

- Required for the export in the US and Canada
- Certification by TÜV Süd
- UL/CSA standards enjoy a high reputation worldwide
- Certificates available upon request



TECHNICAL DATA

Operating temperature	Max. 100 °C / 200 °C / 250 °C, Temperature individually adjustable
Nominal voltage	12 – 600 VAC, 1-phase
Amperage	Max. 16 A per heating circuit, several heating circuits with separate sensor possible
Nominal width	DN 3 – 150, from DN 40 only with stainless steel- or PTFE corrugated hose as pressure hose
Pressure hose* (see data sheet "pressure hoses")	PTFE-T1, -T2, -T3 Stainless steel corrugated hose PTFE corrugated hose PA hose (NY500)
Connection fittings	Customized
Test voltage	High voltage test up to 2500 VAC
Heating element	Manufactured in accordance with the DIN standard, insulated with PFA or PTFE depending on the version and covered with nickel-plated protective braid, moisture-proof (only up to 250 °C)
Temperature sensor	Pt-100, Pt-1000, Ni-120, NTC (-100K), or thermocouple (type K, type J), others on request
Limiter	Voltage < 42 VAC = Limiter is mandatory (overheating protection) Voltage > 42 VAC = Limiter is optional
Thermal insulation	Heat resistant aramid thermofleece, silicone foam (depending on version)
Outer protection	Polyamide braiding, corrugated tube (different versions), metal braiding (stainless steel or galvanized), others on request
Power supply line	1,5 m with 7-pin circular plug (standard), compatible with our temperature controlling devices, others on request
Control wires	According to customer request, cross sections from 0,5 to 2,5 mm ²
End caps	Silicone or hard cap with traction relief, clip fittings (only for corrugated tubes), Self-welding silicone tape (only in exceptional cases)
Manufactured length	Max. 100 m, depending on version
Certification	CE-mark, UL- CAN/CSA certification
Ordering data	See technical questionnaire
Protection class	IP 54, IP65 or IP66 (IP 66 not for all sizes and versions)

^{*} Pressure hoses used for the production of certified UL- CAN/CSA heated hoses are specified with 5 times safety against bursting. Example: If the hose burst pressure is 500 bar, we indicate the hose with a max. operating pressure of 100 bar.

Further information and suitable accessories can be found on our website: www.kletti-gmbh.com.

Do you have any questions or need an offer?

Contact us: sales@kletti-gmbh.com

