

Cartridge heaters



- surface loading: up to 62W/cm²
- temperature range: up to 870°C
- power supply: from 12V to 480V
- hermetic system
- diameters tolerated in accuracy class H7: from 5 up to 70 mm
- possibility of using a temperature sensor
- sheath: carbon steel, brass, Cr-Ni steel

Cartridge heaters are modern, highly proficient heating elements with a special construction enabling significant heat emission from a small surface. Relatively small size and single-sided connection enable the heater installation within a small space. The cartridge heaters are primarily used for warming solid bodies. Most frequently, the heaters are inserted within metal elements, however they are equally suitable for warming fluids (water, oil, emulsion) or even gases.

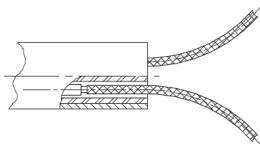
Application:

- plastic industry: hot runner molds, mouthpieces and injection molding nozzles, stamps for embossing, sealing in packaging machines,
- footwear industry: vulcanizing presses, mold heaters, extruder
- foundry: core and die heaters, vacuum furnaces,
- medical and laboratory technology: distilling devices, oil heaters, solder baths, inhalation devices and sterilization,
- wood industry: punches for burning, lacquer and paint atomizers,
- general machine construction,
- automotive industry.

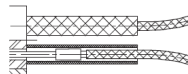
TECHNICAL DATA

Parameters	GP / GPT	GPN	GPF
Heater diameter	metric [mm]: ø6,5; 8; 10; 12,5; 16; 20 inch: ¼, ½, ¾ custom [mm]: ø6 up to ø50		metric [mm]: ø6,5; 8; 10; 12,5; 16; 20 inch: ¼, ½, ¾; 1
Diameter tolerance	-0,02 / -0,08 mm	+0,2 mm	-0,02 / -0,08 mm
Range of length	20 ÷ 1000 mm		up to 2300 mm
Length tolerance	±1,5%		±2% (min. 2,4 mm)
Supply voltage	12V ÷ 380V		12V ÷ 480V
Surface loading	35 W/cm ²	5 W/cm ²	up to 62 W/cm ²
Operating temperature	up to 500°C (on the sheath)		up to 870°C (on the sheath)
Power	50 ÷ 3000 W		5000 W
Power tolerance	+5% / -10%		
Sheath material	Cr-Ni steel (AISI-321)		Incoloy 800

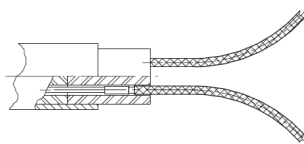
TERMINATION TYPES



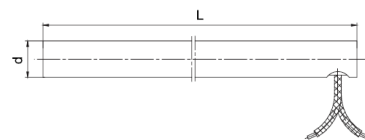
A type: straight, inner contact



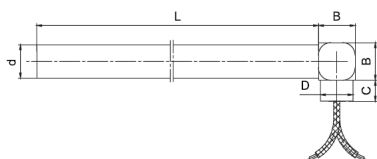
B type: straight, outer contact



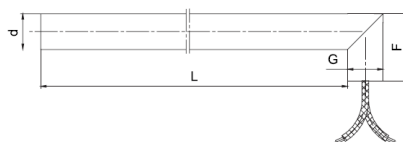
C type: straight, contact in ceramic block



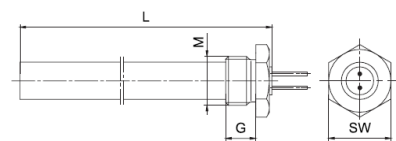
D type: angular, cables routed directly from the side of the heater



E type: angular, corner heater connected with ankle



F type: angular, with sleeve



G type: with threaded sleeve (x-thread)

