

Cartridge heaters **GP, GPT, GPN, GPF**

Technical description

Characteristic

- compact design
- high efficiency
- small dimensions
- easy assembly
- designed for heating solids, liquids and gases

Application

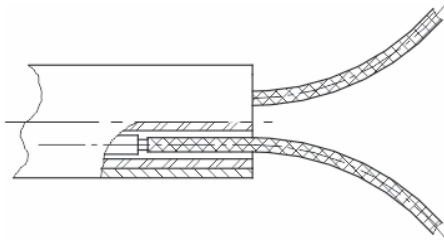
- plastic industry - hot runner molds, mouthpieces and injection molding nozzles, stamps for embossing, sealing in packaging machines
- footwear industry - vulcanizing presses, mold heaters, extruder
- foundry - core and die heaters, vacuum furnaces
- medical and laboratory technology - distilling devices,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



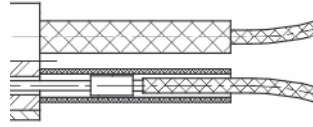
Parameters	GP/GPT	GPN	GPF
Heater diameter	standard [mm]: ø6,5; 8; 10; 12,5; 16; 20 inch: ¼, ⅜, ½, ⅝, ¾ custom [mm]: ø6 do ø50		metric [mm]: ø6,5; 8; 10; 12,5; 16; 20 inch: ¼, ⅜, ½, ⅝, ¾; 1
Diameter tolerance [mm]	-0,02 -0,08	+0,2	-0,02 -0,08
Range of length [mm]	20-1000		to 2300
Length tolerance	±1,5%		±2% (min. 2,4 mm)
Voltage	(12 ÷ 380) V		(12 ÷ 480) V
Surface loading	35 W/cm ²	5 W/cm ²	to 62 W/cm ²
Maximum operating temperature	500 °C (on the sheath)		870 °C (on the sheath)
Power	(50 ÷ 3000) W		5000 W
Power tolerance	+5% -10		+5% -10
Tube material	stal Cr-Ni 1H18N9T		Incoloy 800
Minimum lengths of dead zones	- from the bottom [mm]: 4 - from the insulator [mm]: 6		- from the bottom [mm]: 6 - from the insulator [mm]: 6

Non-standard constructions with mounting sleeves or special power distribution on request.

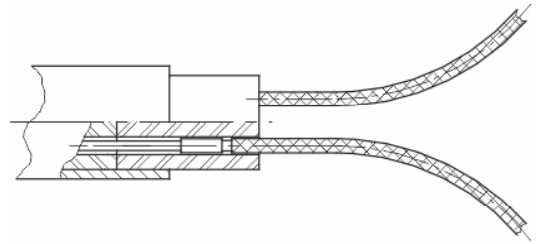
Type A



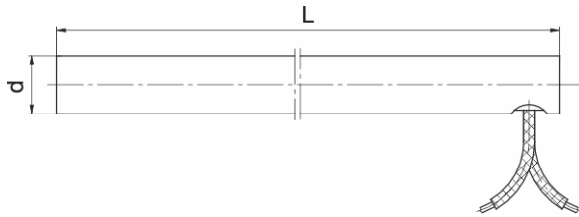
Type B



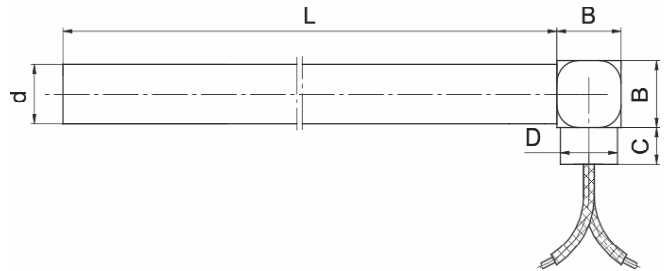
Type C



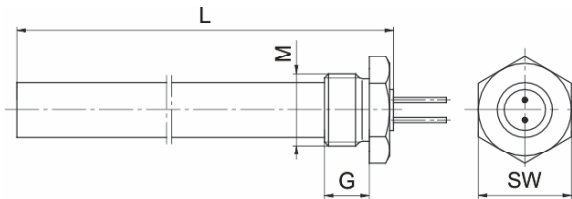
Type D



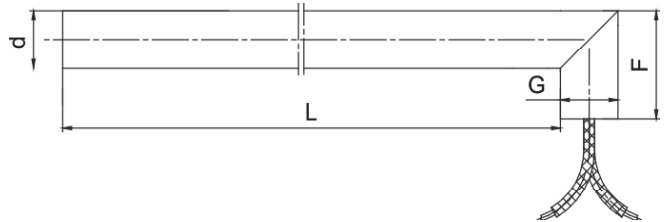
Type E



Type G



Type F



Ordering code

Patron heater		... - - - - - / ... - - - - -	
Type:			
max. surface loading 35 W/cm ²			
max. surface loading 35 W/cm ² + termopara			
max. surface loading 5 W/cm ²			
max. surface loading (36 ÷ 62) W/cm ²			
Diameter* [mm]			
Length* [mm]			
Power* [W]			
Voltage* [V]			
Termination type:			
straight, inner contact			
straight, outer contact			
straight, contact in ceramic block			
angular, directly form the heater			
angular, with steel block			
angular, with sleeve			
with threaded sleeve (x-thread)			
Lead wire protection:			
none			
corrugated pipe			
Lead wire length [m]			

GP
 GPT
 GPN
 GPF

A
 B
 C
 D
 E
 F
 G

0
 P

* Acc. to requirements

Ordering example

Cartridge heaters GP-ø20-500-300W/230V-A-0-1,5m