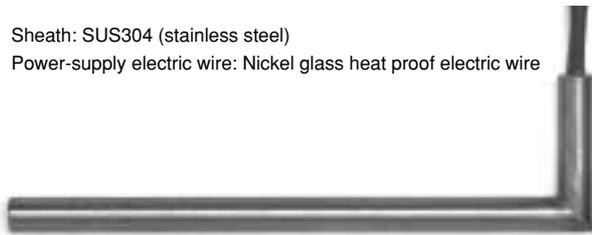


# L type cartridge heater / Cartridge heater with T/C

## L type cartridge heater (for metal mold)

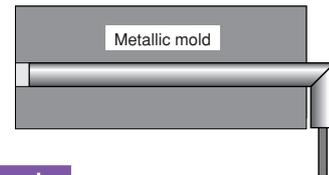
Sheath: SUS304 (stainless steel)  
Power-supply electric wire: Nickel glass heat proof electric wire



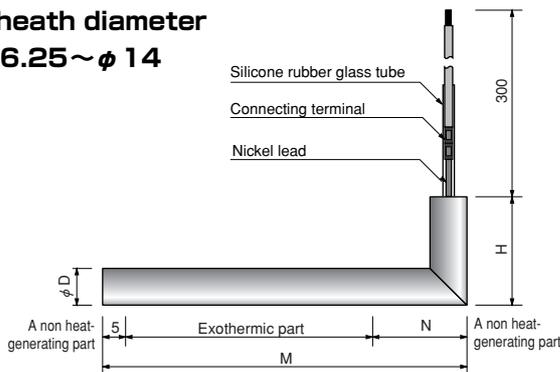
It is kind of ULTRA FIVE HL cartridge heater of which terminal part is attached in right angle(90°). It can be adaptable in small space.

- Short delivery time is promised with same specification of elements as HL type cartridge heater.
- The hermetic type is also available in a vacuum condition use.
- Please specify the part number and H size of standardized goods like "HLL3153, L type, and H size:25" at the time of an order of L type standard goods

Attaching to a metallic mold



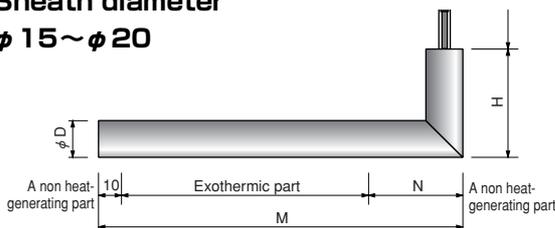
### ● Sheath diameter $\phi 6.25 \sim \phi 14$



### Order- made goods

Sheath diameter $\phi D$	M Size			N Size non heat-generating part	H Size	
	min	max	Max for HL type		min	max
$\phi 6.25$	38.4	165.4	M = L + 13	18	20	35
$\phi 6.5$	63	113				
$\phi 8$	67	317	M = L + 17	22	20	35
$\phi 9.42$	45.4	324.8	M = L + 20	25	25	40
$\phi 10$	70	320				
$\phi 12$	75	325	M = L + 25	30	25	40
$\phi 12.6$	56.8	482.2				
$\phi 14$	80	330	M = L + 30	35	30	50

### ● Sheath diameter $\phi 15 \sim \phi 20$

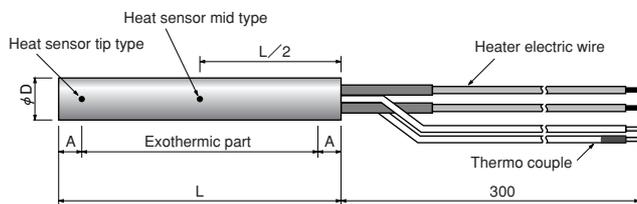


### Order- made goods

Sheath diameter $\phi D$	M Size			N Size non heat-generating part	H Size	
	min	max	Max for HL type		min	max
$\phi 15$	75	325	M = L + 25	35	30	50
$\phi 15.77$	63.1	634.6				
$\phi 16$	75	325	M = L + 30	40	40	50
$\phi 18$	80	330				
$\phi 18.95$	87.2	634.6				
$\phi 20$	80	330				

## The cartridge heater with T/C

It is the cartridge heater which contains K type thermo couple in HL type. Since a heater and a temperature sensor can be installed together with, it is the best for heating control of a very small volume.



Heater sheath: SUS304 (stainless steel)  
Thermo Couple : K type phi 0.5 (a lead part is covered of glass tube and + pole is red colored)

- Products are manufactured that heaters with same specification as HL type standard goods of a sheath diameter  $\phi 6.25 - \phi 20$  contain a thermo couple.
- Two(2)positions of mid type and tip type are standard for heat sensor.
- As for special specification, it can be manufactured that a position of heat sensor is changed.

### Order- made goods

Sheath diameter $\phi D$	L size (min)	L size (max)	A size Non- heat generating part
$\phi 6.25$	25.4	152.4	5
$\phi 6.5$	50	100	
$\phi 8$	50	300	
$\phi 9.42$	25.4	304.8	
$\phi 10$	50	300	
$\phi 12$		300	
$\phi 12.6$	31.8	355.6	10
$\phi 14$	50	300	
$\phi 15$	50	300	
$\phi 15.77$	38.1	381	
$\phi 16$	50	300	
$\phi 18$		300	
$\phi 18.95$	57.2	381	
$\phi 20$	50	300	

### \* Your order is \*

Please specify an part number and position of heat sensor of HL type cartridge heater like "the cartridge heater with T/C, HLL3153, and an heat sensor tip" at placing order of an cartridge heater with T/C of standard goods.