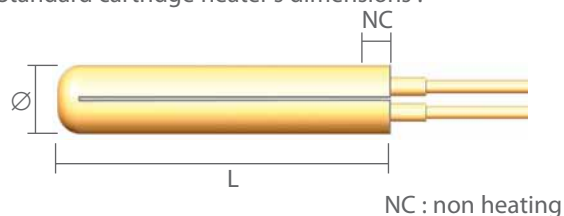


- This type of heater is made of two semicircular halves containing a continuous heating element. When energized, the heater expands to make wall-to-wall contact with the bore, maximizing heat transfer .
- After cooling, the heater will contract for ease of removal and elimination of bore seizure.
- Manufactured to suit customer requirements.
- Rated wattage : 500 to 5100 W.
- Rated voltage : 230 V single phase.
- Incoloy 800 external metal sheath.
- Leads : Woven PTFE-Glass-PTFE over stranded nickel wire - rated to 250°C. Length 12" (300 mm)
- Length tolerance : $L < 500 \text{ mm} : \pm 3\%$
 $L \geq 500 \text{ mm} : \pm 2\%$
- Diameter tolerance : $\pm 0.002'' (\pm 0.0051 \text{ mm})$
- Wattage tolerance : $\pm 10\%$

- Standard cartridge heater's dimensions :



Ø nominal - mm (equiv. inches)	Unheated lengths mm (equiv. inches)	Length. mini mm (equiv. inches)	Length. maxi mm (equiv. inches)
6.35 - (1/4")	7.9 (5/16")	31.75 (1"1/4)	559 (22")
8	8	38	660
9.52 - (3/8")	9.5 (3/8")	38.1 (1"1/2)	914 (36")
10	9.5	38	915
12	15.9	50	1140
12.5	15.9	50	1140
12.7 - (1/2")	15.9 (5/8")	51 (2")	1143 (45")
15	15.9	65	1250
15.87 - (5/8")	15.9 (5/8")	63.5 (2"1/2)	1524 (60")
16	15.9	65	1525
17.5 (11/16")	15.9 (5/8")	89 (3"1/2)	1625 (64")
19.05 - (3/4")	15.9 (5/8")	89 (3"1/2)	1829 (72")
20	15.9	100	1525
25.4 (1")	25.4 (1")	254 (10")	1524 (60")

TERMINATIONS

Leads (Guide leads)



Leads : possible angle to 0° or to 90°.

Flexible metal braid



Threaded post terminal



Flexible metal sheath - termination to 0° or to 90°



HOW TO DEFINE A CARTRIDGE HEATER, see p14.

ACCESSORIES

Flange



MANUFACTURING OPTIONS

- Thermocouple :
- Earth wire
- Distributed watt density.



OPTIONS

- Leads length made to suit customer requirements. High temperature resistant :
 - ceramic beads
 - mica insulated lead - fiberglass
- Hot tip , opposite end from termination.
- Non heating areas, to suit customer requirements.

BORE SIZING

The respect of an adjustment is necessary to improve the heat transmission to the metallic mass, the insertion and removal of the cartridge.

- mini bore : -0 mm
- maxi bore : +0.18 mm (+0.007")