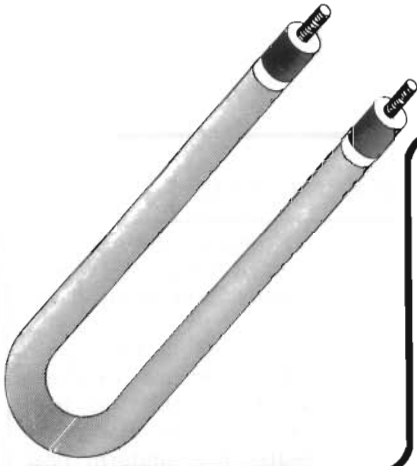


# HELIOS TUBULAR HEATERS



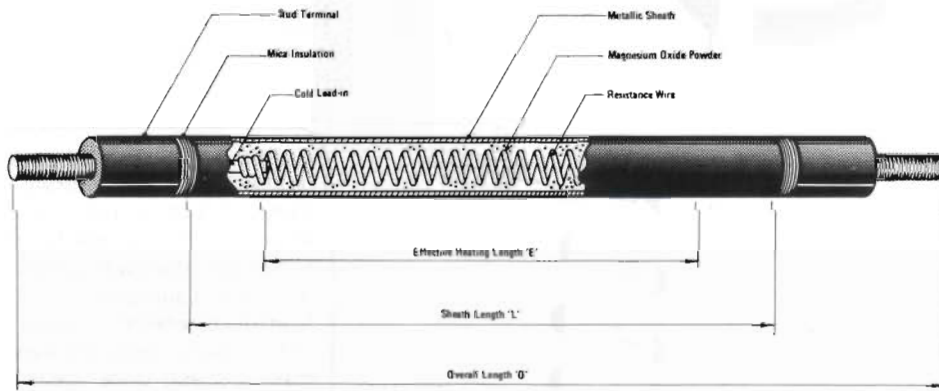
## TUBULAR HEATERS

The tubular heater is the most versatile of all electric heaters offering a wide range of ratings, sheath materials and forms that can be applied to almost any temperature requirement, whether for heating of solids, liquids, or gases.

The structure of the tubular heater lends itself readily to forming in various shapes, offering the advantages of improved heat distribution, greater compactness, and simple installation in many industrial applications.

## CONSTRUCTION

A metal tubular sheath of material selected to suit application, surrounds a helical coil of nickel-chrome resistance wire, centred and tightly compacted by an electrical insulator and heat transfer medium of magnesium oxide. This gives a resistance spiral that can be varied in heat concentration and cold length sections, protected from atmospheric corrosion and mechanical abuse. Mounting bushes, header bosses, flanges etc. can be fitted to suit all installation situations.



## SPECIFICATIONS

### DIAMETERS

4.2 mm (.165"), 6.3 mm (.250"), 7.9 mm (.312"), 10.7 mm (.420"), 13.2 mm (.520").

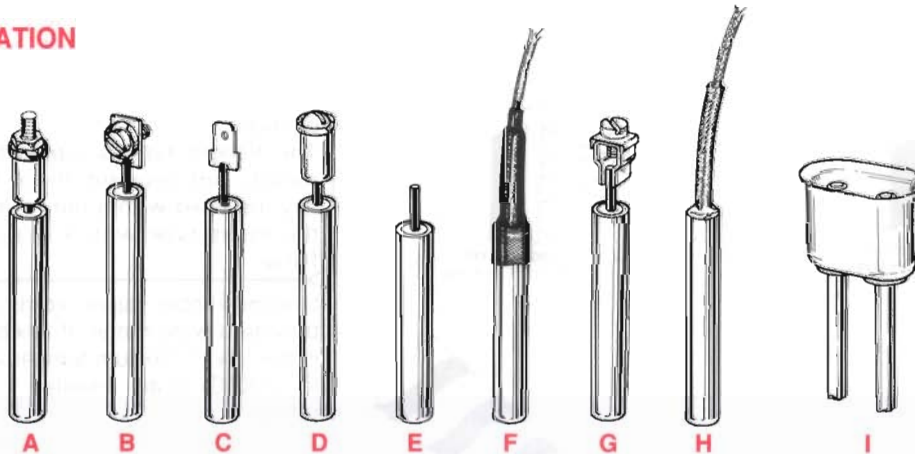
### SHEATH MATERIALS

Copper, Steel, Stainless Steel Types 304 and 316, incoloy 800, incoloy 825 and titanium. (See technical section for recommendations in corrosive situations)

### THREADED BOSSES

- 1" BSP brass
- 1 1/4" BSP brass, steel, stainless steel
- 2" BSP brass, steel, bronze, stainless steel
- 2 1/2" BSP bronze, steel, brass
- 3" BSP steel

## TERMINATION



- A STUD TERMINAL
- B UTILUX H1858
- C UTILUX H947
- D POST TERMINAL

- E PLAIN PIN
- F MOISTUREPROOF LEAD
- G UTILUX H1243
- H FIBREGLASS NICKEL LEAD

- I PLUGALL EARTHED SHROUD

# HELIOS TUBULAR HEATERS

## TYPICAL TUBULAR HEATER FORMS

Shown below are typical bending forms showing the versatility of tubular heaters. These forms can be used as a guide to give assistance in determining the heater shape best suited for any given application.

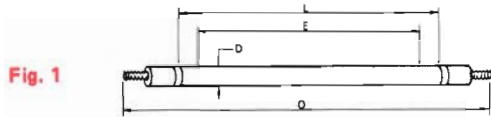


Fig. 1

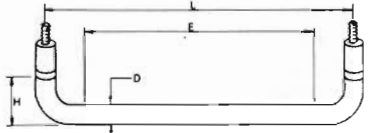


Fig. 2

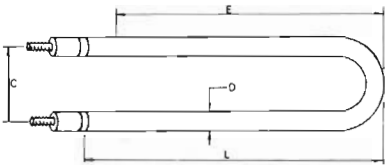


Fig. 3

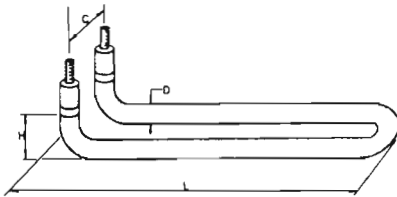


Fig. 4

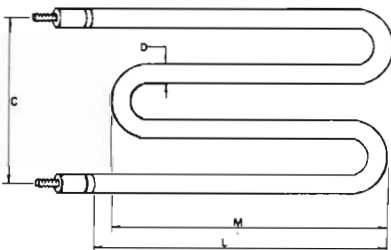


Fig. 5

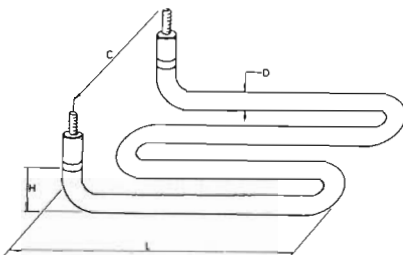


Fig. 6

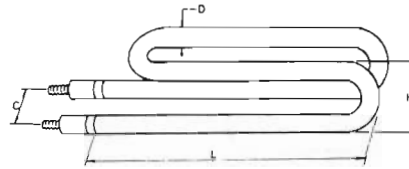


Fig. 7

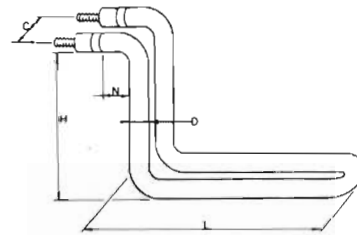


Fig. 8

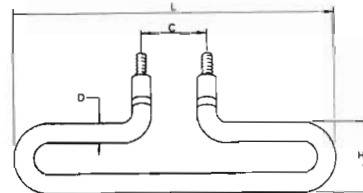


Fig. 9

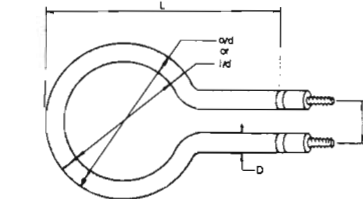


Fig. 10

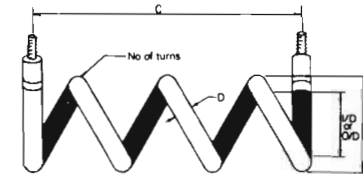


Fig. 11

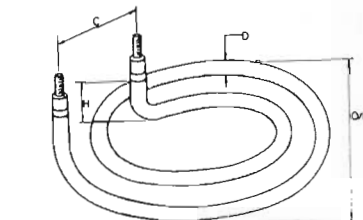
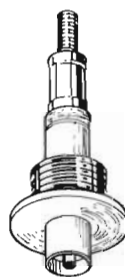


Fig. 12

## MOUNTING GLANDS



**CRIMP-ON TYPE**  
 Note – not liquid tight, steel only.  
 3/8" BSP, 15 and 25mm long for heater diameters 7.9 mm and 10.7 mm.  
 1/2" BSP, 13 and 25 mm long for heater diameter 13.2 mm.



**WELD-ON TYPE**  
 1/2" BSP, – 13 and 25 mm long for heater diameters 10.7 and 13.2 mm.  
 1/2" 26 TPI, – 15 and 25 mm long for heater diameter 6.3 and 7.9 mm.  
 3/8" BSP, – 13 and 25 mm long for heater diameters 6.3, 7.9 and 10.7 mm.