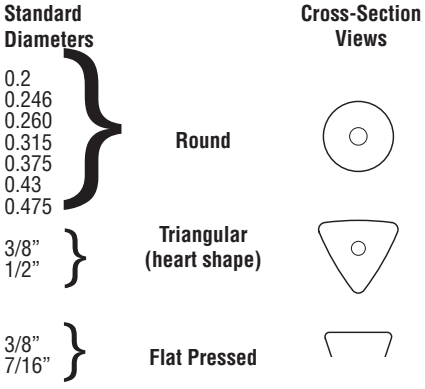
Tubular Heaters

Modifications

World Leader in the Manufacture of Electric Heating Elements — Chromalox offers the most complete line of tubular heaters available. Standard diameters are:



Round Cross Section — Highly adaptable where elements must be bent — particularly if bending is performed in the field.

Triangular Cross Section — Patented process produces elements with the closest possible dimensional control.

Triangulated Cross Section — Flat pressed. Patented process provides large contact area for clamp-on applications. This means more efficient heat transfer, fewer elements since higher element ratings may be employed.

Voltage or Wattage — Heaters can be made for operation on any voltage and rated at any wattage suitable for the application within practical limits. For voltages higher than 480V, specify high voltage terminal construction. See Component section Tubular Heater (0.475 or 1/2" diameter only).

Special Wattage Distribution — Heaters can be made with higher wattages toward the end of the heated section to help offset losses in certain applications. Check with your Local Chromalox Sales office for additional information.

Tubing — Standard industrial grade wall thickness:

Repressed Bends — Tubulars can be bent to tighter radii at the factory. Bends are then repressed to ensure re-compaction of insulation for long life. Customer bending on larger radii does not require repressing. (See Factory Bending Guidelines in this section).

Sheath Length — Larger diameter heaters can be made in unspliced lengths up to 51 feet.

This eliminates the need for a spliced joint which is always a possible weak point that might cause premature heater failure.

Element Dia. (In.)	Max. Heater Length (Ft. ± 1%)
0.2	10
0.246	40
0.375	40
0.315	40
0.43	40
0.475	51
3/8	17±1/8"
1/2	17±1/8

Note — Single-end elements have a maximum sheath length of 10 feet.

Terminal Construction — Many choices to suit your application. Tubular elements generally have a terminal for electrical connection at each end. Single end construction has both terminals at the same end.

UL and CSA — Chromalox tubular heaters can be furnished as UL Recognized and CSA Certified components with the addition of a terminal end seal. Terminal end seals can be added to stock elements and shipped in one week. (UL File E198480, Guide UBJY2, CSA File 40859). Use "end seal/moisture barrier" in place of end seal.

VDE and CE — Chromalox tubular heaters can be furnished as VDE Certified and CE certified. Contact your Local Chromalox Sales office.

Wide Choice of Sheath Materials — Available to meet a wide variety of applications. Standard sheath materials are: INCOLOY®, steel, type 304 and 316 stainless steel, copper, INCONEL® and MONEL®.

In addition, titanium and other 300 series stainless steel sheaths are available upon request. For applications requiring other materials, contact your Local Chromalox Sales office.

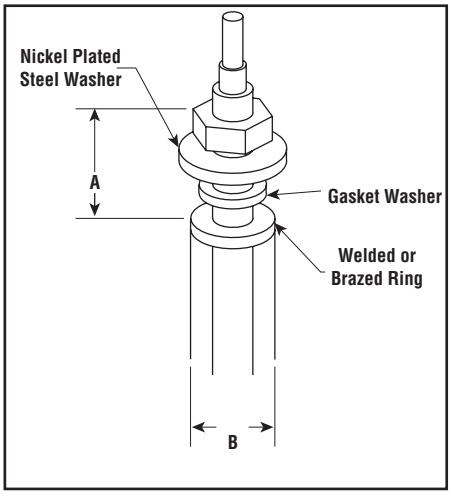
Cold Section — Longer cold ends can be supplied, as required, up to 20 inches. For longer cold ends, contact your Local Chromalox Sales office.

Factory Bending — Tighter bends can be made at the factory.

Tubular heaters can be formed to many different shapes to suit your application. This is done by specially designed bending tools and repressing dies for bending on many different radii.

Additional Features — Many additional features are available for the difficult jobs which require custom designed elements employing Chromalox's vast engineering experience.

Threaded Fittings



Element Dia. (In.)	Fitting Material	Mtg. Hole Dia. (In.)	Max. Wall Thickness (In.)	Thrd. Size F	Dimensions (In.)	
					A	B
0.246	Brass	13/32	7/32	3/8 - 24	15/32	7/8
0.315	Brass	15/32	5/16	7/16 - 28	13/16	7/8
3/8	Brass	17/32	5/16	1/2 - 28	13/16	7/8
1/2-0.475	Brass	21/32	5/16	5/8 - 24	13/16	1
0.246	Steel	13/32	7/32	3/8 - 24	15/32	7/8
0.315	Steel	15/32	5/16	7/16 - 28	13/16	7/8
3/8	Steel	17/32	5/16	1/2 - 28	13/16	7/8
1/2-0.475	Steel	21/32	5/16	5/8 - 24	13/16	1
0.246	Stainless Steel	13/32	7/32	3/8 - 24	15/32	7/8
0.315	Stainless Steel	15/32	5/16	7/16 - 28	13/16	7/8
3/8	Stainless Steel	17/32	5/16	1/2 - 28	13/16	7/8
1/2-0.475	Stainless Steel	21/32	5/16	5/8 - 24	13/16	1