

# Chromalox®

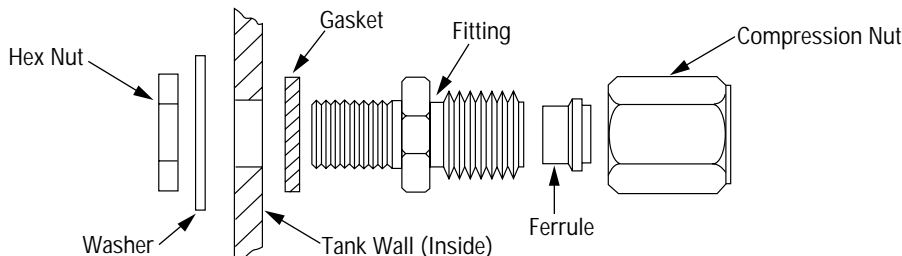
## Installation, Operation and

### RENEWAL PARTS IDENTIFICATION

#### SERVICE REFERENCE

DIVISION 4	SECTION T	
SALES REFERENCE	(Supersedes PB403-2)	PB403-3
161-053345-001		
DATE	JULY, 1997	

## Installation of Tubular Element with Fittings



### INSTALLATION

**WARNING:** Hazard of electric shock. Disconnect all power before equipping tubular heating element with compression fittings.

**WARNING:** Care must be taken to insure the heated portion does not extend into the compression fittings.

1. Slide compression nut, ferrule and fitting onto sheath of tubular element.
2. Place gasket on fitting and insert fitting with element thru tank wall.
3. Assemble washer and nut, and tighten to suit.
4. Check position of element and tighten compression nut to produce desired seal.

**IMPORTANT:** When mounting the heater in a tank containing liquid, mount the heater in the tank so the liquid level will always be above the effective heated portion of the heater. If the heater is not properly submerged, it may overheat and damage the heating elements and create a possible fire hazard due to excessive sheath temperatures.

**WARNING:** It is the responsibility of the purchaser of the heater to make the ultimate choice of sheath material based upon his knowledge of the chemical composition of the corrosive solution, character of the materials entering the solution, and controls which he maintains on the process. Chromalox cannot warrant any electric immersion heater against failure by sheath corrosion. Corrosion failure is the result of operating conditions beyond our control.

**WARNING:** Hazard of electric shock. Any installation involving electric heaters must be grounded to earth to eliminate shock hazard.

#### Specifications —

Part Number*	Unit Dia.	Material	Mtg. Hole Dia.	Maximum Wall Thickness
168-047782-017	0.475	Brass	21/32"	5/16"
168-047782-018	0.315	Brass	15/32"	5/16"
168-047782-019	0.475	Steel	21/32"	5/16"
168-047782-020	0.315	Steel	15/32"	5/16"
168-047782-021	0.475	Stainless Steel	21/32"	5/16"
168-047782-022	0.315	Stainless Steel	15/32"	5/16"
168-047782-023	0.246	Brass	13/32"	7/32"
168-047782-024	0.246	Steel	13/32"	7/32"
168-047782-025	0.246	Stainless Steel	13/32"	7/32"

\*NOTE: Each package contains parts for 2 complete fitting assemblies including compression nuts, ferrules, threaded fittings, gaskets, washers, hex nuts.

**DANGER:** Hazard of Fire — Since the heaters are capable of developing high temperatures, extreme care should be taken to:

- a. Avoid contact between heater and combustible materials.
- b. Keep combustible materials far enough away to be free of the effects of high temperatures.

#### WARRANTY AND LIMITATION OF REMEDY AND LIABILITY

Chromalox warrants only that the Products and parts manufactured by Chromalox, when shipped, and the work performed by Chromalox when performed, will meet all applicable specification and other specific product and work requirements (including those of performance), if any, and will be free from defects in material and workmanship under normal conditions of use. All claims for defective or nonconforming (both hereinafter called defective) Products, parts or work under this warranty must be made in writing immediately upon discovery, and in any event, within one (1) year from delivery, provided, however all claims for defective Products and parts must be made in writing no later than eighteen (18) months after shipment by Chromalox. Defective and nonconforming items must be held for Chromalox's inspections and returned to the original f.o.b. point upon request. THE FOREGOING IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER, EXPRESS, IMPLIED AND STATUTORY, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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cost and expenses therefor, including but not limited to attorney's fees, and indemnifies Chromalox against any liability to Chromalox's vendors arising out of such litigation.

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