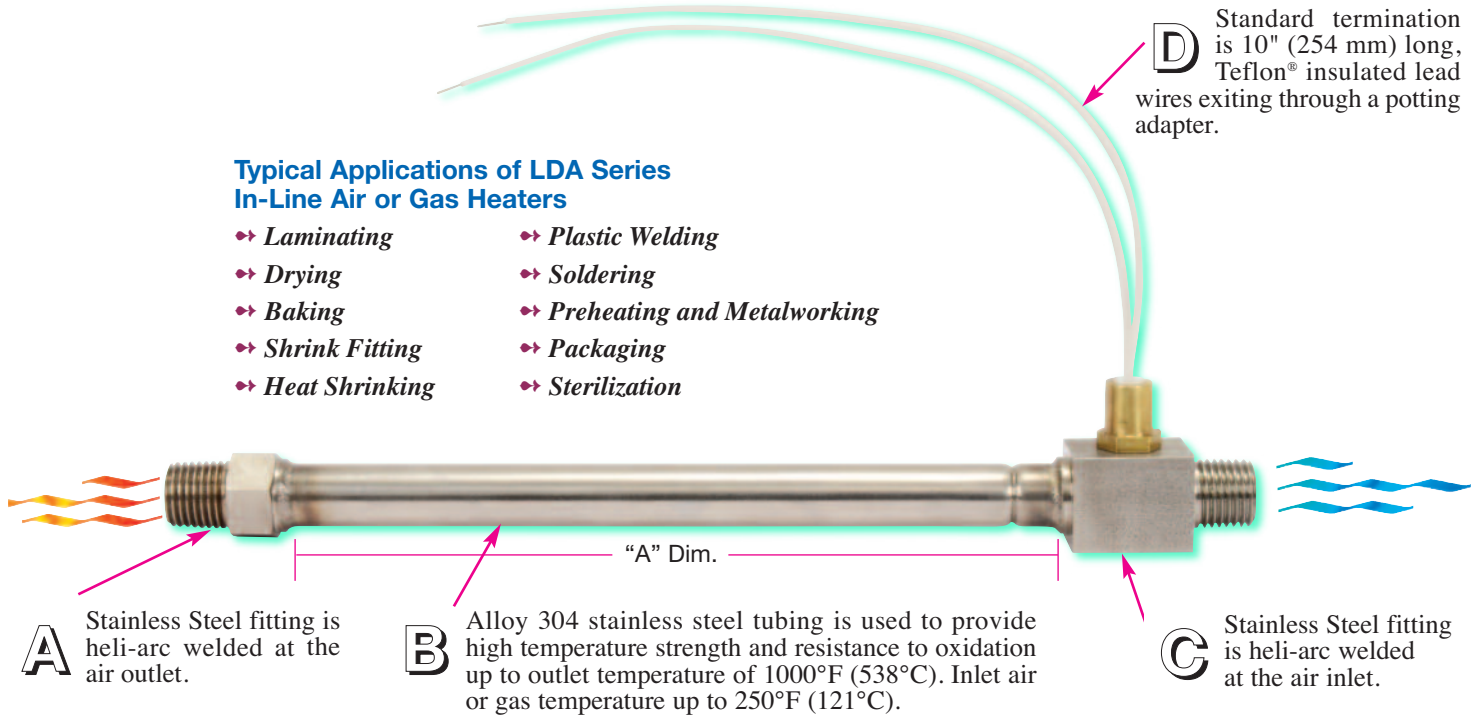


### LDA In-Line Forced Air & Gas Heating — Stainless Steel Inlet Fitting



#### LDA In-Line Air Process Heater Specifications

Heater Diameter (in)	Maximum Amperage	Cross Sectional Flow Area (in <sup>2</sup> )	Maximum SCFM (ft <sup>3</sup> )	Maximum Wattage/Linear Inch Of Heated Length
3/8	6	.030	8	200
1/2	8	.040	10	250
3/4	15	.120	20	500

#### Heater Selection

To ensure maximum heater life, heater wattage must be calculated so that it is suitable for the desired air flow. To calculate wattage, determine the air flow and temperature rise required. The following relationship can be used to determine the wattage.

$$\text{Wattage} = \frac{\text{SCFM} \times \text{Temperature rise } (^\circ\text{F})}{3}$$

Table below shows the relationship between standard cubic feet per minute versus maximum watts per linear inch of heated length on different heater diameters.

SCFM	Maximum Watts per Linear Inch of Heated Length		
	3/8" Dia.	1/2" Dia.	3/4" Dia.
2	80	80	120
4	100	100	120
6	150	150	150
8	200	200	200
10	—	250	250
15	—	—	375
20	—	—	500



Air heaters must always have air flowing through them and must operate in a horizontal position to balance the internal resistance coil. Air Heaters can be made in any practical length. These sizes can be adapted with many types of fittings.

