

# Selas Superflame™ Burners

## Superflame™ 2000

Capacity: 2,000,000 Btu/hr (528kW)

| Parameter                                                                               | Burner Velocity                                                                                                                         |             | Superflame™<br>2000 |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|
| <b>Maximum Input, Btu/hr (kW)<sup>1</sup></b>                                           | Medium and High Velocity                                                                                                                |             | 2,000,000 (528)     |
| <b>Minimum Input, Btu/hr (kW)<sup>1</sup></b><br><i>For lower inputs, contact Selas</i> | Medium and High Velocity                                                                                                                |             | 200,000 (53)        |
| <b>Minimum Input Fixed Air, Btu/hr (kW)<sup>1</sup></b>                                 | Medium and High Velocity                                                                                                                |             | 40,000 (11)         |
| <b>Main Gas Inlet Pressure, "w.c. (mbar)</b>                                            | High Velocity                                                                                                                           | Natural Gas | 17 (42)             |
|                                                                                         | Medium Velocity                                                                                                                         | Natural Gas | 17 (42)             |
| <b>Air Inlet Pressure, "w.c. (mbar)</b>                                                 | High Velocity                                                                                                                           | Natural Gas | 23 (57)             |
|                                                                                         | Medium Velocity                                                                                                                         | Natural Gas | 19.5 (49)           |
| <b>High Fire Visible Flame Length, inches (mm)</b>                                      | High Velocity                                                                                                                           | Natural Gas | 40 (1016)           |
|                                                                                         | Medium Velocity                                                                                                                         | Natural Gas | 44 (1118)           |
| <b>Approximate Flame Velocity, ft/s (m/s)</b>                                           | High Velocity                                                                                                                           |             | 330 (101)           |
|                                                                                         | Medium Velocity                                                                                                                         |             | 260 (79)            |
| <b>Maximum Combustion Air Temperature</b>                                               | 700°F (371°C)                                                                                                                           |             |                     |
| <b>Flame Detection</b>                                                                  | Flame rods or UV scanners can be used with all combustors, any gaseous fuel <sup>2</sup> , and up to the maximum operating temperature. |             |                     |
| <b>Fuels</b>                                                                            | Natural Gas <sup>2</sup>                                                                                                                |             |                     |

1. All imperial inputs based upon gross calorific values (HHV). All metric inputs based upon net calorific values (LHV).
2. Consult Selas for other fuels.
3. Other notes:
  - All information is based on laboratory testing in neutral (0 "w.c., 0 mbar) pressure chamber. Different chamber conditions may affect emissions and pressure.
  - All information is based on standard outer tube design. Changes in combustor will alter performance and pressures.
  - All inputs based upon standard conditions; 1 atmosphere, 70°F (21°C).
  - Selas reserves the right to change the construction and/or configuration of our products at any time without being obliged to adjust earlier supplies accordingly.
  - Plumbing of air and gas will affect accuracy of orifice readings. All information is based on generally acceptable air and gas piping practices.

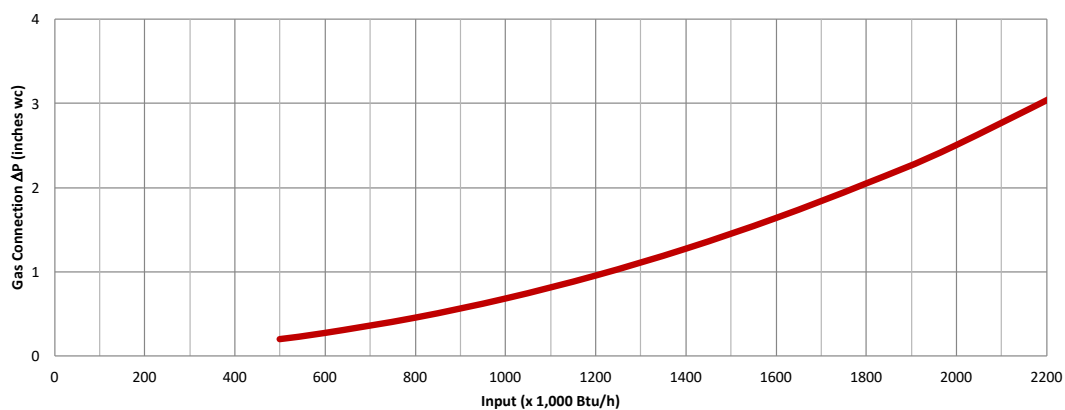


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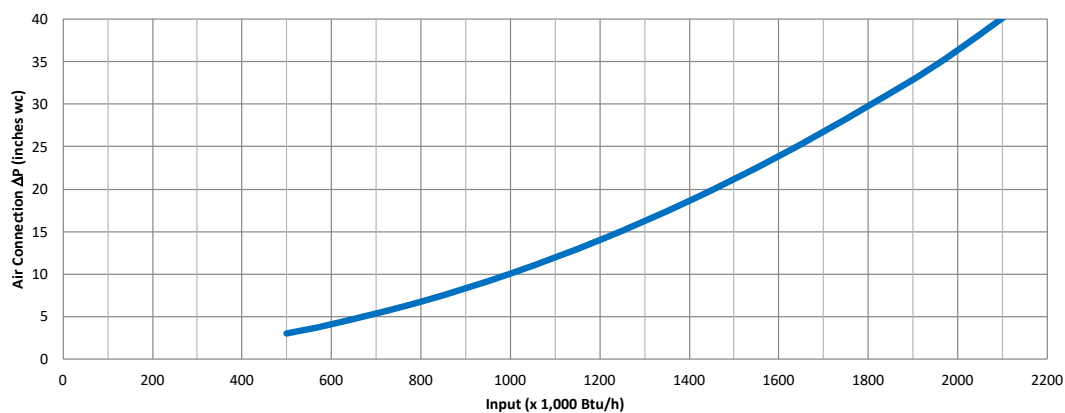
# Selas Superflame™ Burners

## Performance Graphs, Imperial

### SuperFlame 2000 Natural Gas Pressure

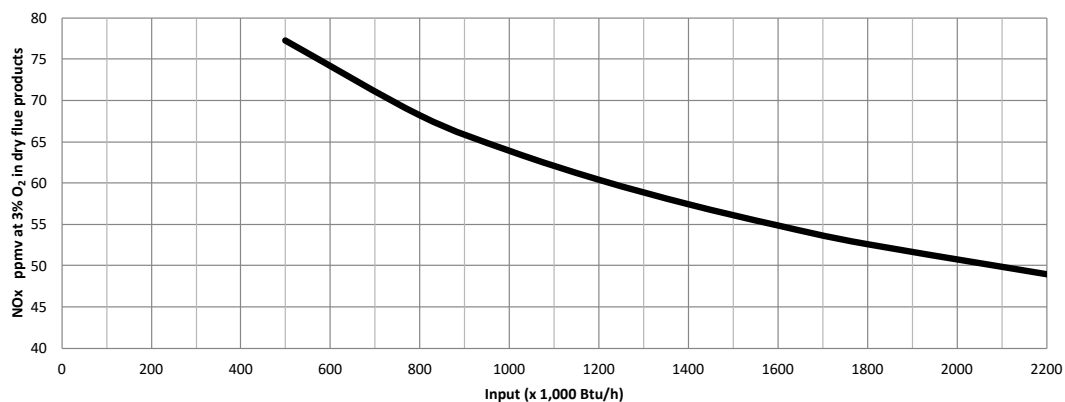


### SuperFlame 2000 Air Pressure



### SuperFlame 2000 NOx Emissions

Furnace at 1600°F; Burner at 10% Excess Air

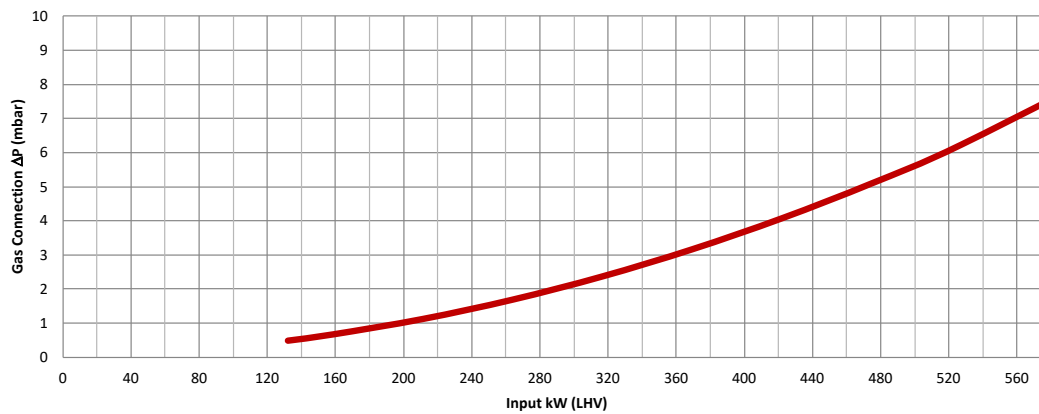


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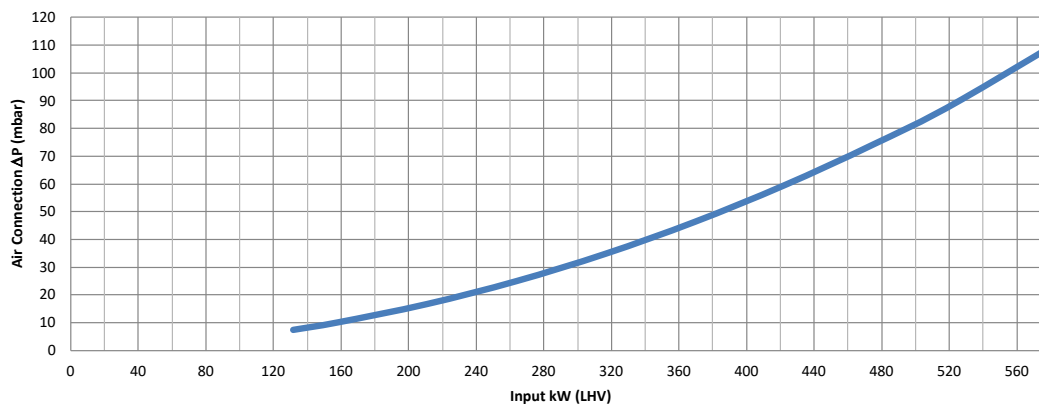
# Selas Superflame™ Burners

## Performance Graphs, Metric

### SuperFlame 2000 Natural Gas Pressure

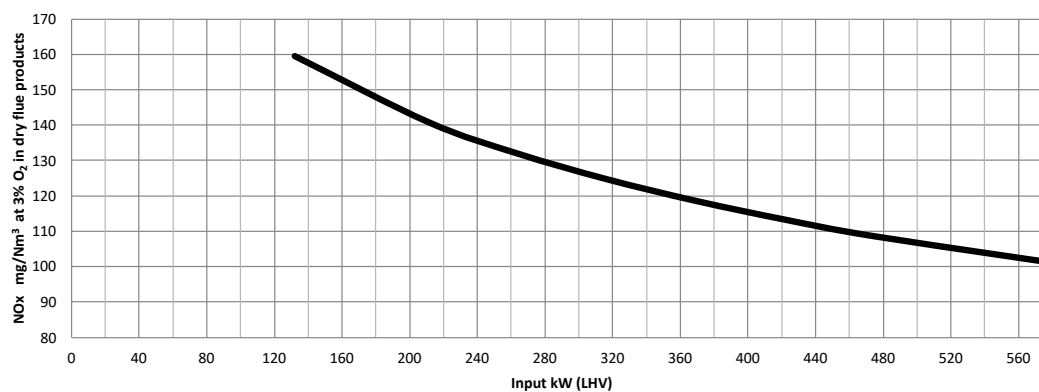


### SuperFlame 2000 Air Pressure



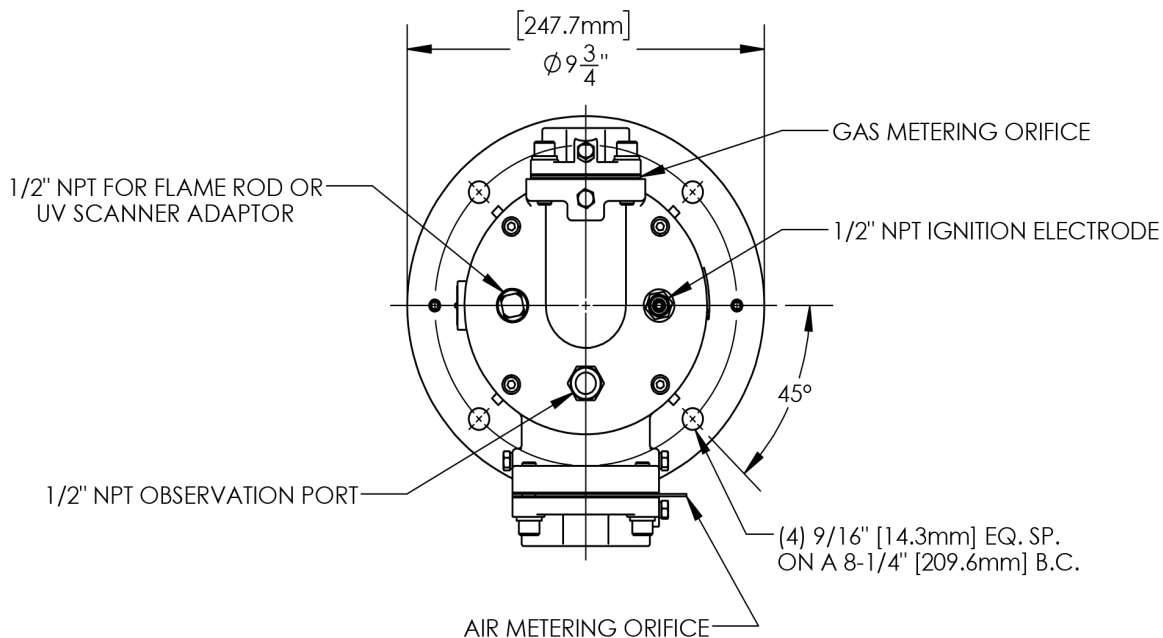
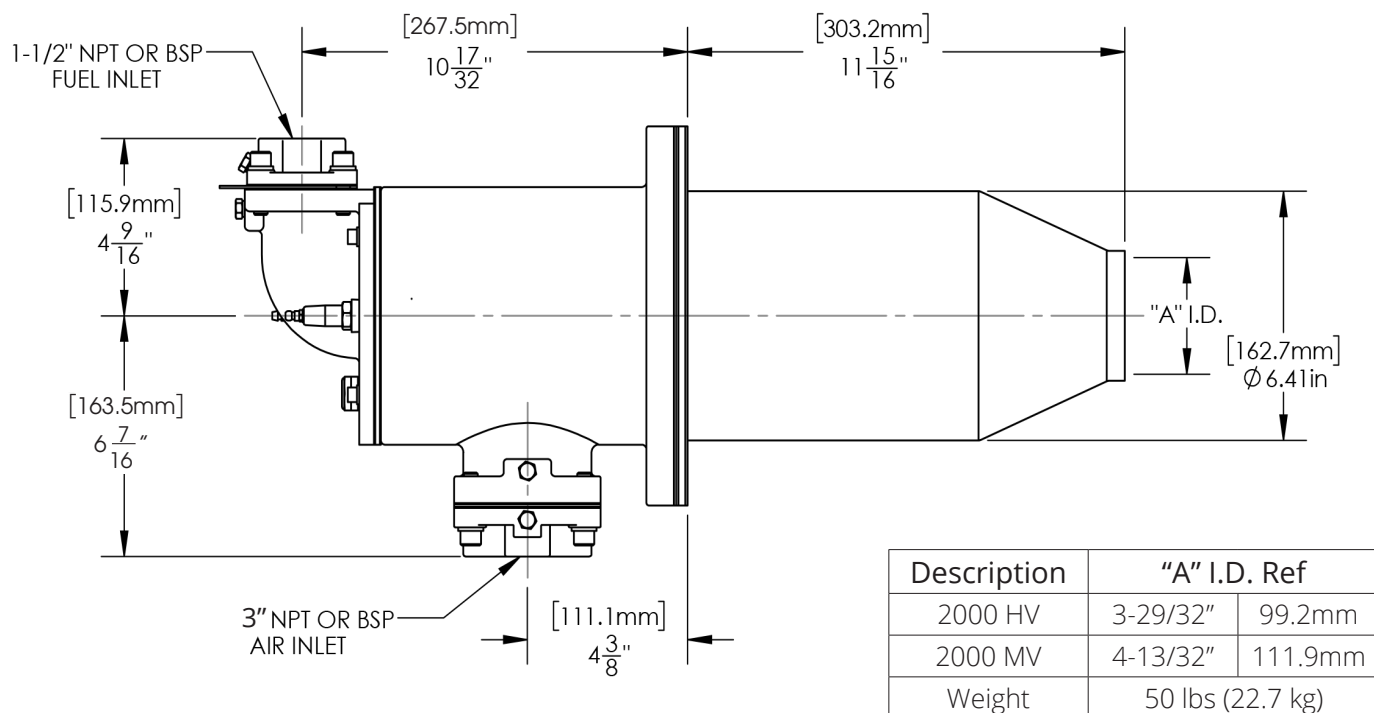
### SuperFlame 2000 NO<sub>x</sub> Emissions

Furnace at 871°C; Burner at 10% Excess Air



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NOTE: Gas connection can be repositioned in 90° increments.

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