

Selas Superflame™ Burners

Superflame™ 500

Capacity: 500,000 Btu/hr (132kW)

Parameter	Burner Velocity		Superflame™ 500
Maximum Input, Btu/hr (kW)¹	Medium and High Velocity		500,000 (132)
Minimum Input, Btu/hr (kW)¹ <i>For lower inputs, contact Selas</i>	Medium and High Velocity		50,000 (13)
Minimum Input Fixed Air, Btu/hr (kW)¹	Medium and High Velocity		10,000 (3)
Main Gas Inlet Pressure, "w.c. (mbar)	High Velocity	Natural Gas	9 (22)
	Medium Velocity	Natural Gas	7 (17)
Air Inlet Pressure, "w.c. (mbar)	High Velocity	Natural Gas	11 (27)
	Medium Velocity	Natural Gas	10 (25)
High Fire Visible Flame Length, inches (mm)	High Velocity	Natural Gas	26 (660)
	Medium Velocity	Natural Gas	30 (762)
Approximate Flame Velocity, ft/s (m/s)	High Velocity		315 (96)
	Medium Velocity		250 (76)
Maximum Combustion Air Temperature	700°F (371°C)		
Flame Detection	Flame rods or UV scanners can be used with all combustors, any gaseous fuel ² , and up to the maximum operating temperature.		
Fuels	Natural Gas ²		

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.

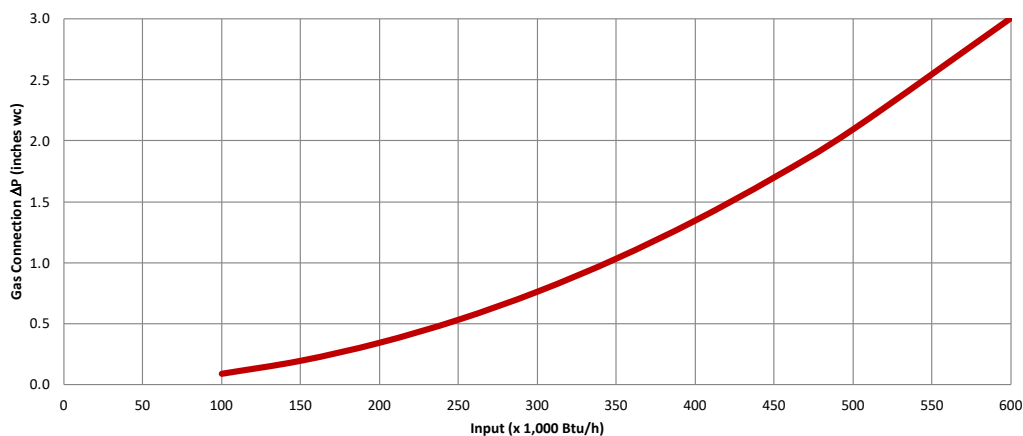


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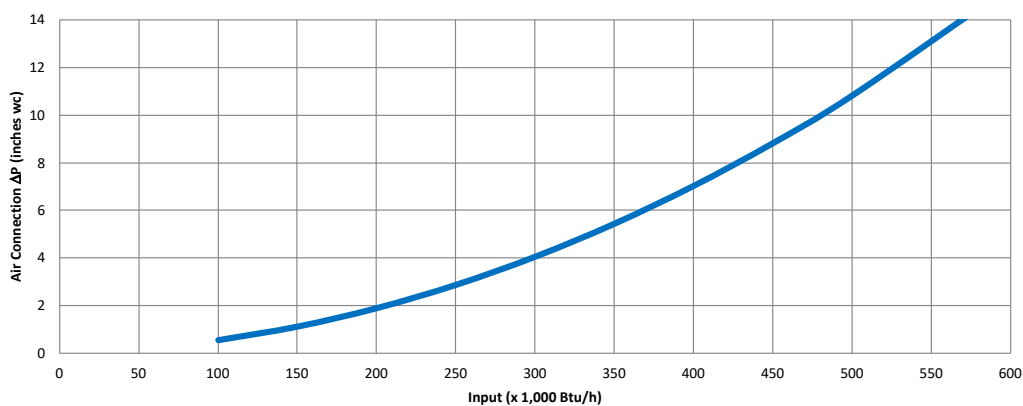
Selas Superflame™ Burners

Performance Graphs, Imperial

SuperFlame 500 Natural Gas Pressure

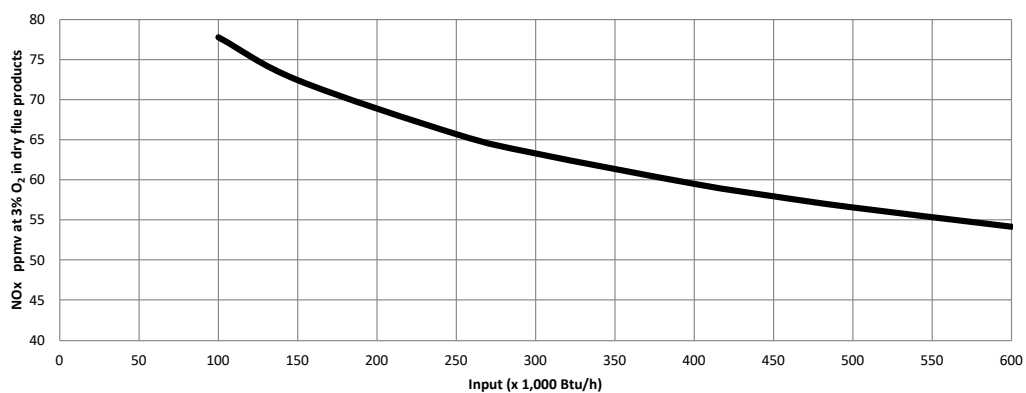


SuperFlame 500 Air Pressure



SuperFlame 500 NOx Emissions

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

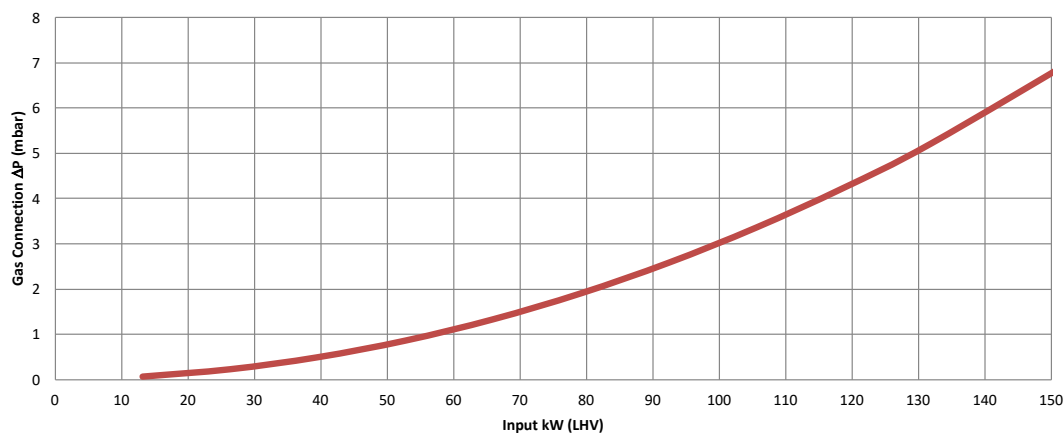


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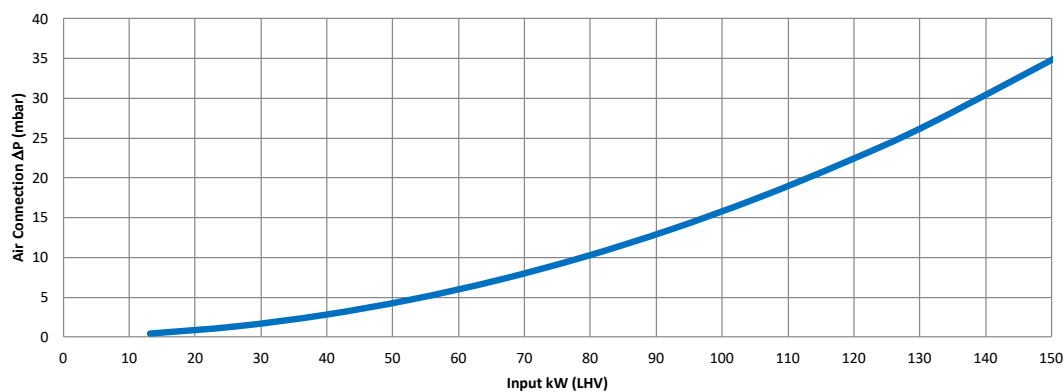
Selas Superflame™ Burners

Performance Graphs, Metric

SuperFlame 500 Natural Gas Pressure

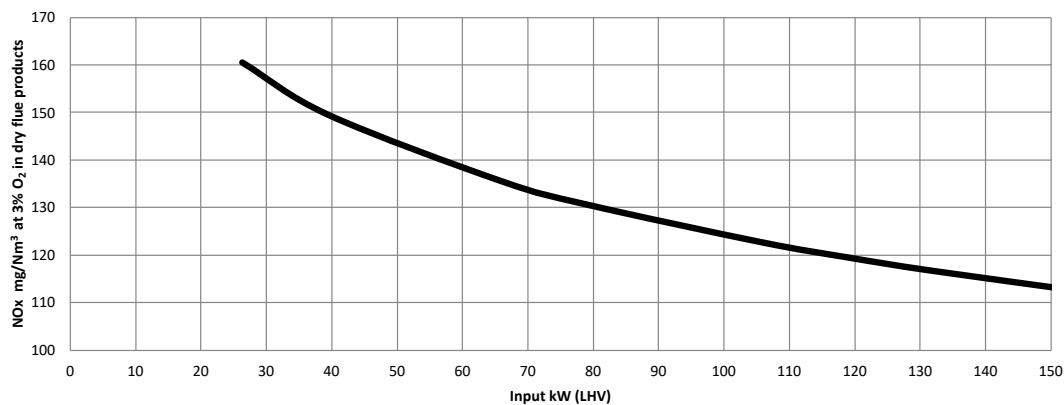


SuperFlame 500 Air Pressure



SuperFlame 500 NOx Emissions

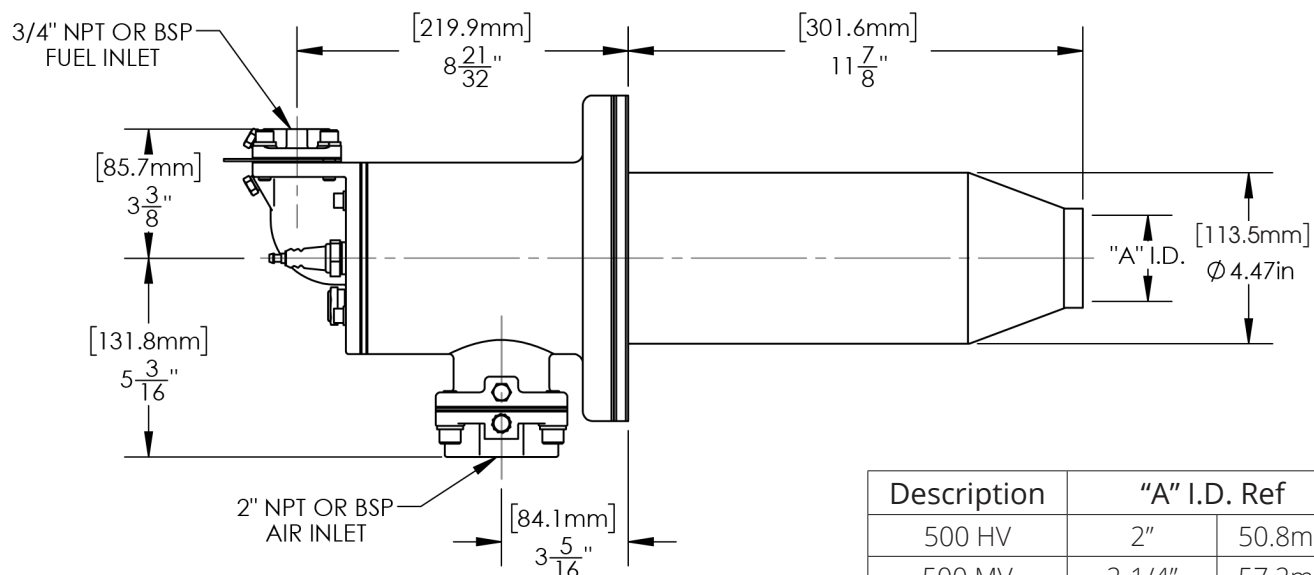
Furnace at 871°C; Burner at 10% Excess Air



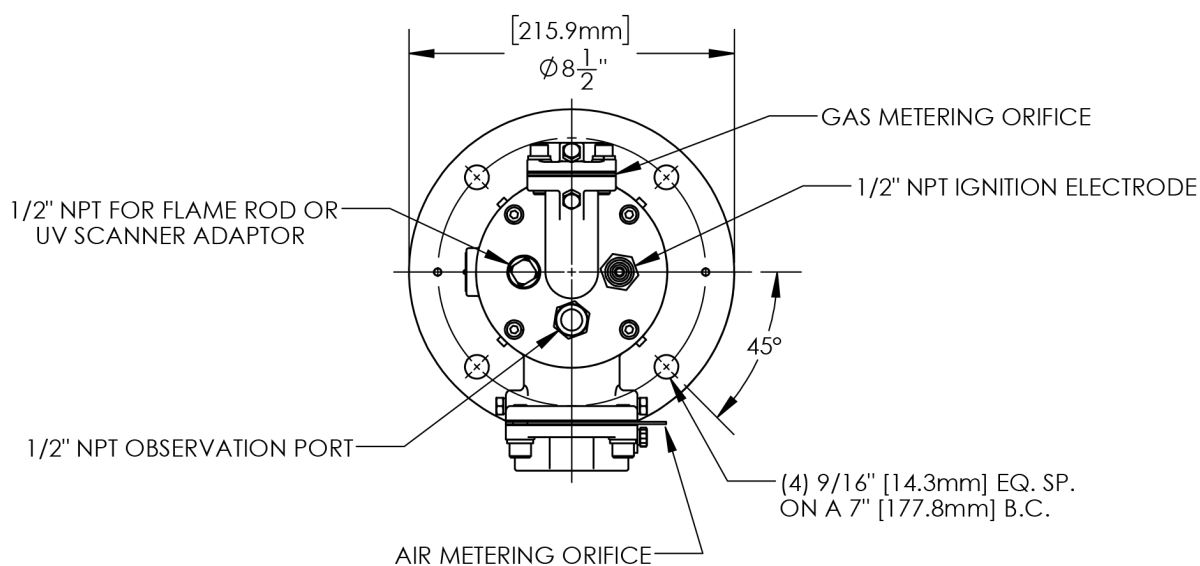
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Data Sheet

Selas Superflame™ Burners



Description	"A" I.D. Ref	
500 HV	2"	50.8mm
500 MV	2-1/4"	57.2mm
Weight	30 lbs (13.6 kg)	



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

11012 Aurora Hudson Rd • Streetsboro, OH 44241
1-800-523-6500 • sales@selas.com
www.selas.com

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