Data Sheet

Selas Superflame™ Burners

Superflame™ 1000

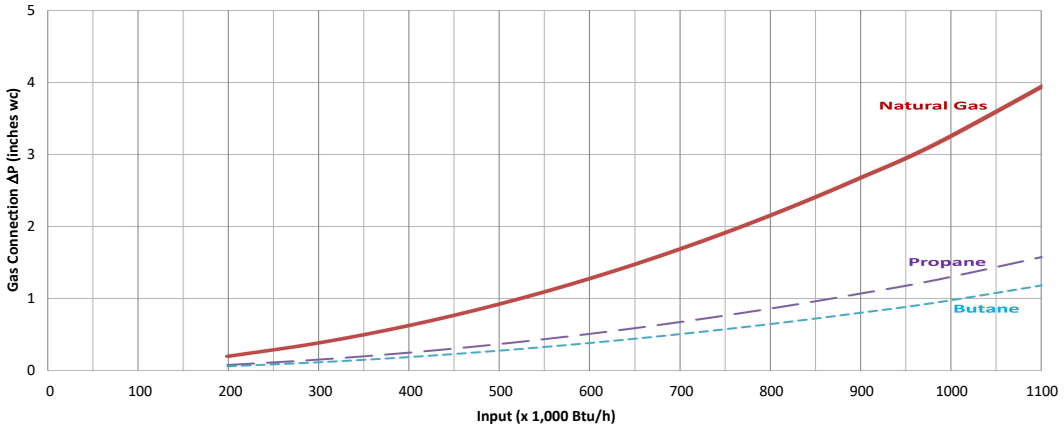
Capacity: 1,000,000 Btu/hr (264kW)

Parameter	Burner Velocity		Superflame™ 1000
Maximum Input, Btu/hr (kW)[1]	Medium and High Velocity		1,000,000 (264)
Minimum Input, Btu/hr (kW)[1] *For lower inputs, contact Selas*	Medium and High Velocity		100,000 (26)
Minimum Input Fixed Air, Btu/hr (kW)[1]	Medium and High Velocity		20,000 (5)
Main Gas Inlet Pressure, "w.c. (mbar)	High Velocity	Natural Gas	11 (27)
	Medium Velocity	Natural Gas	9 (22)
Air Inlet Pressure, "w.c. (mbar)	High Velocity	Natural Gas	15 (37)
	Medium Velocity	Natural Gas	13 (32)
High Fire Visible Flame Length, inches (mm)	High Velocity	Natural Gas	34 (864)
	Medium Velocity	Natural Gas	38 (965)
Approximate Flame Velocity, ft/s (m/s)	High Velocity		400 (122)
	Medium Velocity		280 (85)
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]		

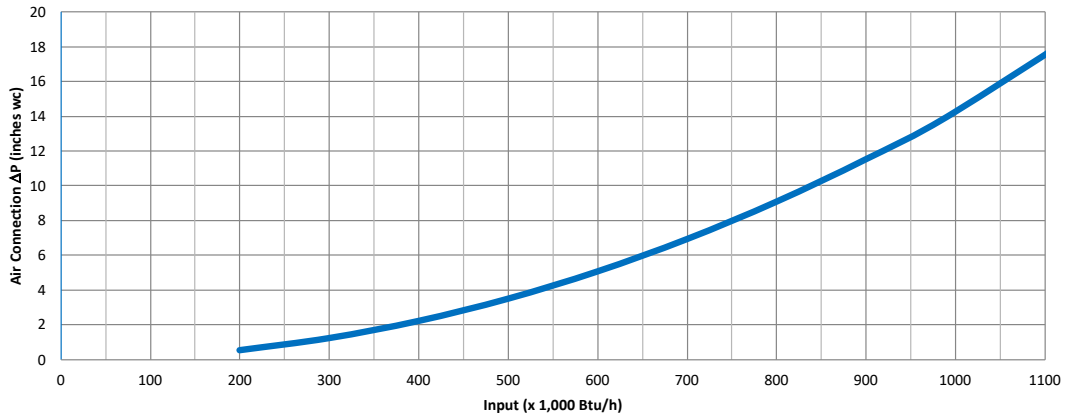
1. All imperial inputs based upon gross calorific values (HHV). All metric inputs based upon net calorific values (LHV).
2. Consult Selas for other fuels.
3. Other notes:
   - All information is based on laboratory testing in neutral (0 "w.c., 0 mbar) pressure chamber. Different chamber conditions may 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.

Performance Graphs, Imperial

SuperFlame 1000 Natural Gas Pressure

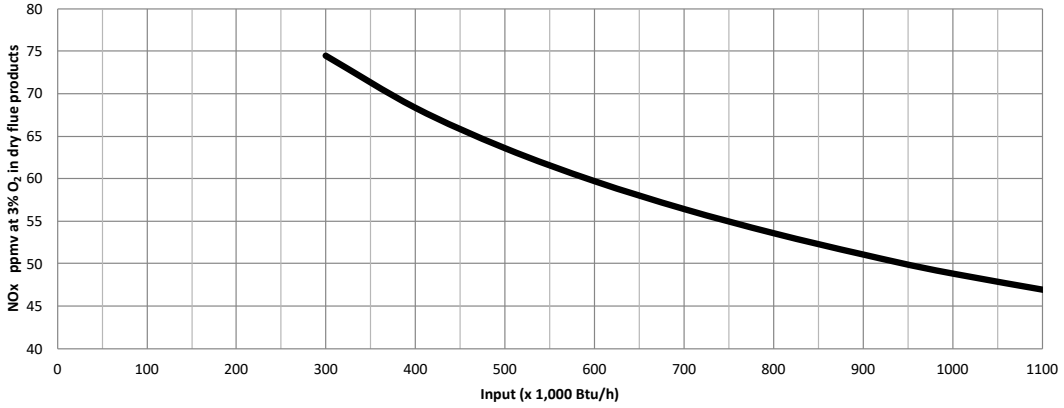


SuperFlame 1000 Air Pressure



SuperFlame 1000 NOx Emissions

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



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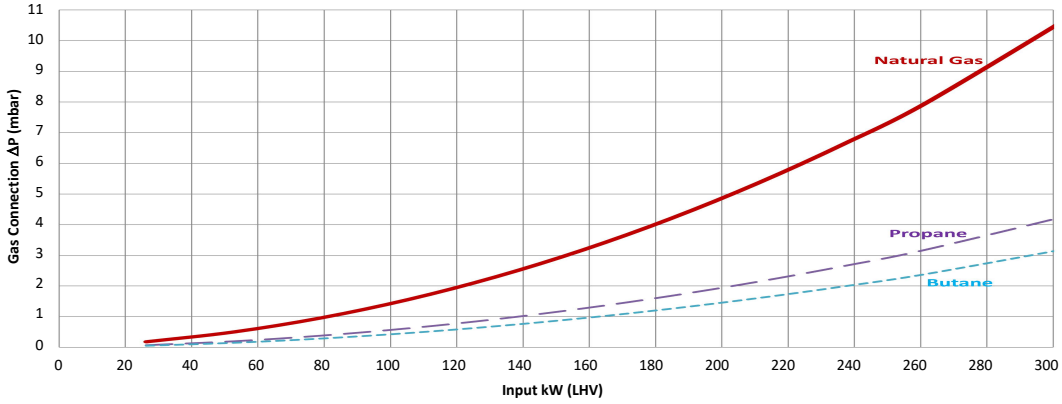
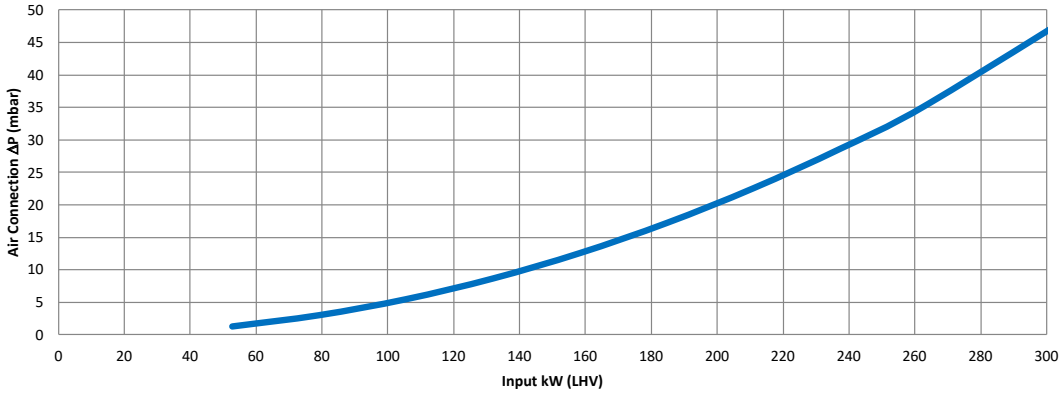
Performance Graphs, Metric

SuperFlame 1000 Natural Gas Pressure

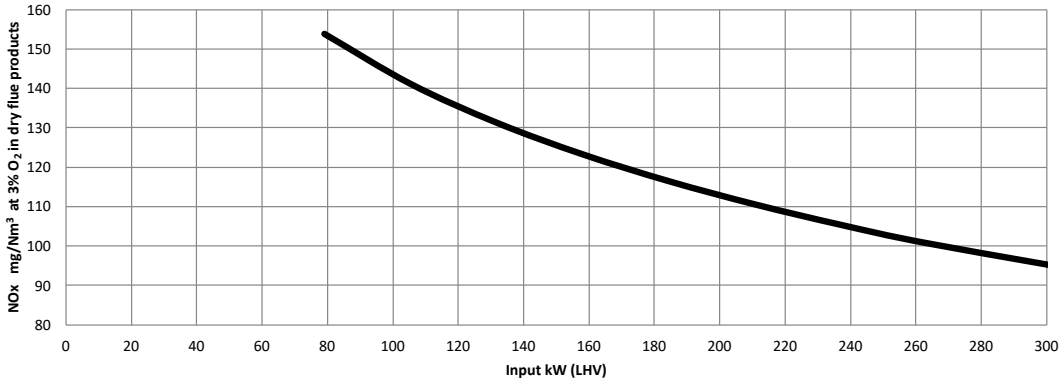


SuperFlame 1000 Air Pressure



SuperFlame 1000 NOx Emissions

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



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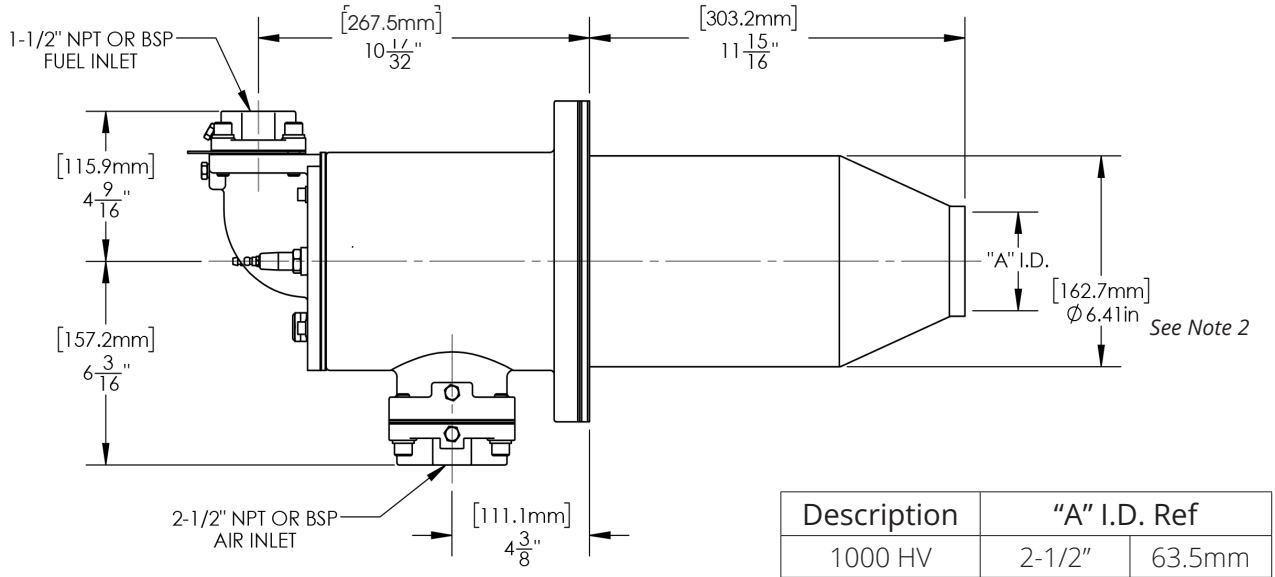
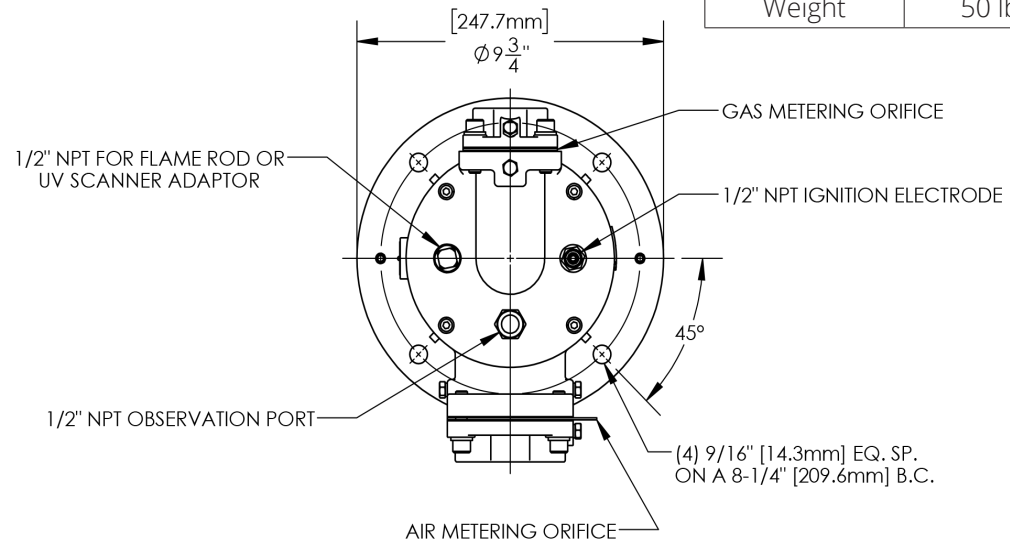


Description	"A" I.D. Ref	
1000 HV	2-1/2"	63.5mm
1000 MV	3"	76.2mm
Weight	50 lbs (22.7 kg)	



NOTES:

1. Gas connection can be repositioned in 90° increments
2. Allow 1/4" gap around discharge sleeve when cutting opening into the furnace shell.
3. Selas practices a policy of continuous improvement in the design of its products and so dimensions shown are subject to change. Please contact Selas to confirm critical dimensions.

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