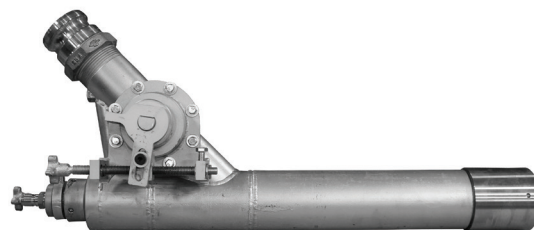


Data Sheet

Selas Adjustable Gas Burners

The Selas Adjustable Gas Burner (SAGB) is designed for regenerative glass furnaces, with an adjustable mechanism for the flame length and energy release position.

Size 3.0, with a heat input range of 5.0 to 17.0 mm BTU and 1.5-5.0 MW, is suitable for end-port and cross-fired furnaces, for side-of-port or under-port firing positions.



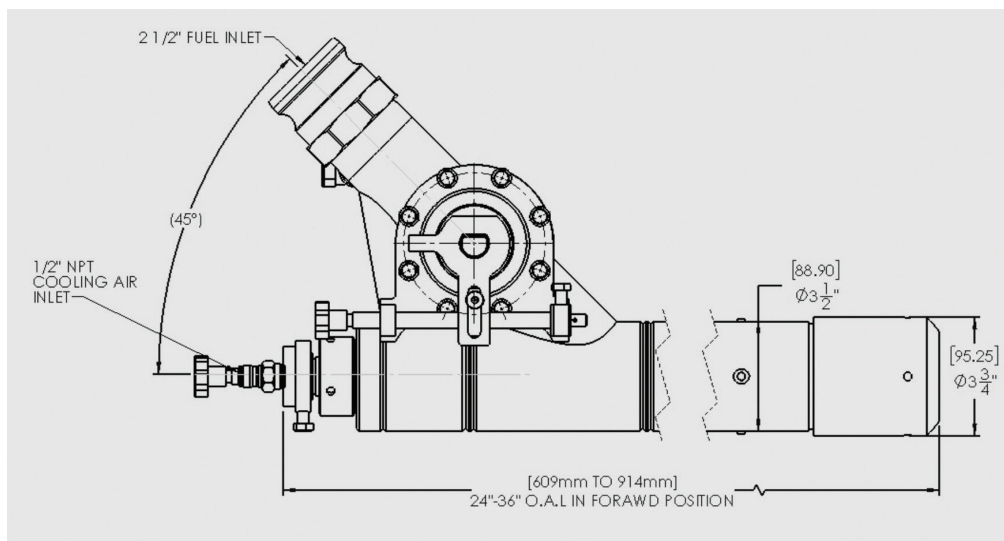
SAG Burner Specifications

Burner Capacity MW mm BTU		Gas Flow Nm ³ /hr SCFH		Gas Pressure @ Burner mBar PSIG		Off-Side Cooling Air NCMH SCFH		Off-Side Cooling Air mBar PSIG	
Min.	Max.	Min	Max.	Min	Max.	Min	Max.	Min	Max.
1.5	5.0	135	455	20	500	10	20	138	413
5.0	17.0	5,000	17,000	0.3	7.2	370	740	2	6

Note:

- Above data is based on net heat value (LHV)
- Normal condition: 1 atmosphere, 0°C.
- Actual data varies by each application condition.
- Available velocity: 175 FPS, 250 FPS & 400 FPS baseline velocity.

Typical Burner Length and Dimensions



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Selas Adjustable Gas Burners

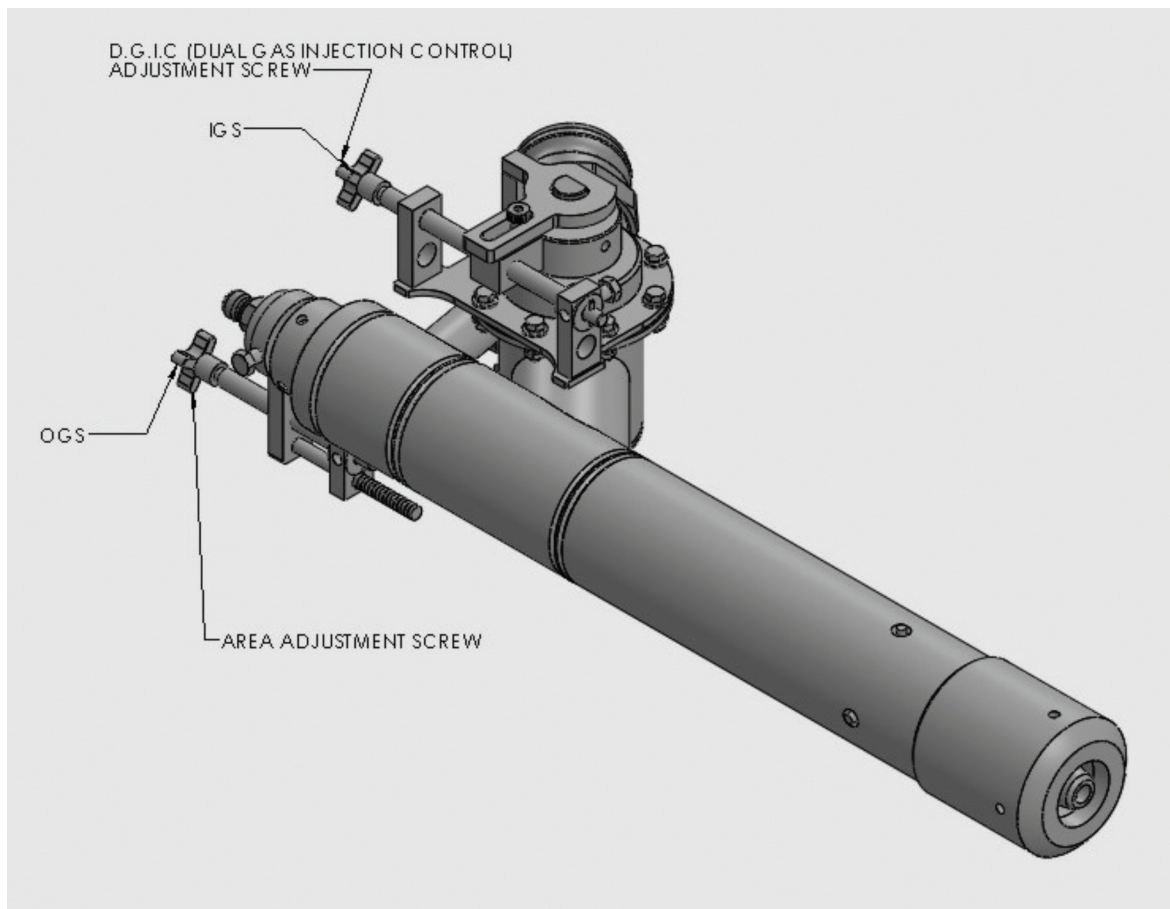
Burner Settings

Shown below, there are two adjustment mechanisms, one is for flame length, shown as OGS, Outer Gas Stream. To make the flame longer, rotate OGS, counterclockwise. To make the flame shorter, rotate the OGS clockwise. On the adjustment mechanism, there is a scale with engraved lines, the tip position is noted as 0 – 16 rings – position 0 being fully CCW, shortest flame, position 16 fully CW, longest flame.

The other adjustment mechanism is to change the energy release position, shown as IGS, Inner Gas Stream. There is an angle scale marked on the IGS disk, 0-100, when the IGS is rotated, the amount of gas flow into the OGS tube changes in relation to the IGS tube.

Rotating the IGS Adjustment knob (CCW) increases the gas flow to the Inner Gas Stream, rotating it (CW) decreases flow to the Inner Gas Stream.

- Increasing gas flow through the IGS delays mixing, moving heat release away from firing port.
- Decreasing gas flow through the IGS speeds mixing, moving heat release closer to the firing port

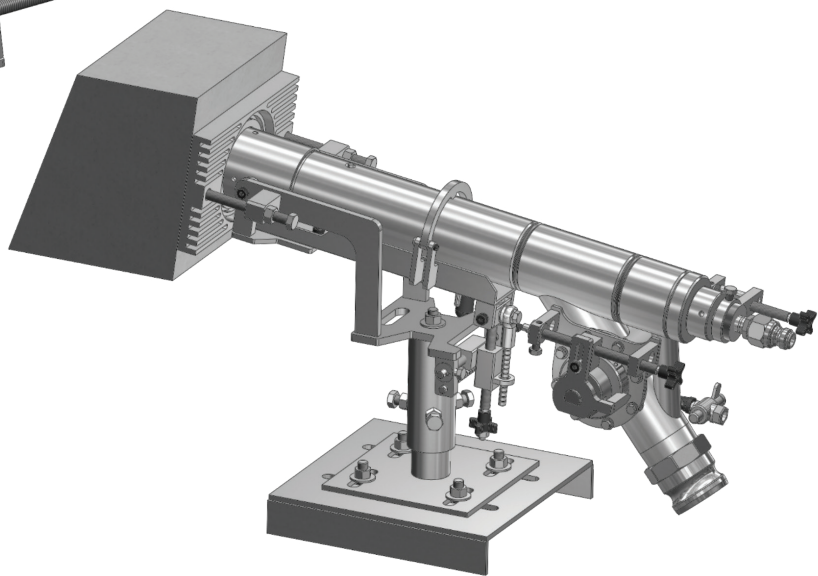
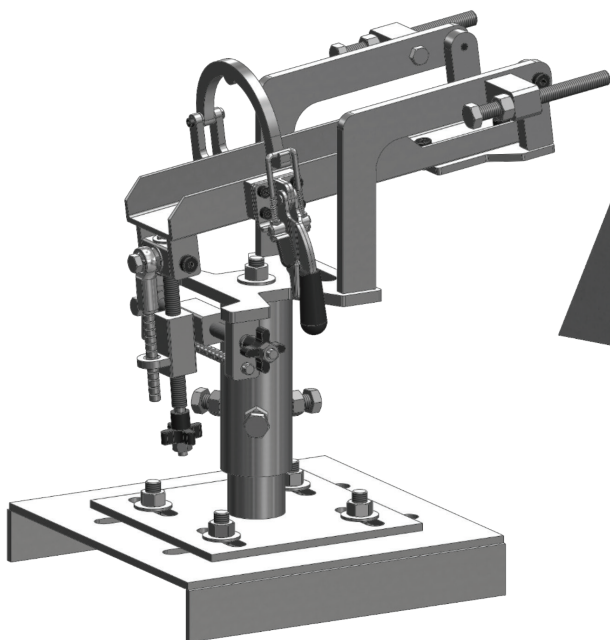
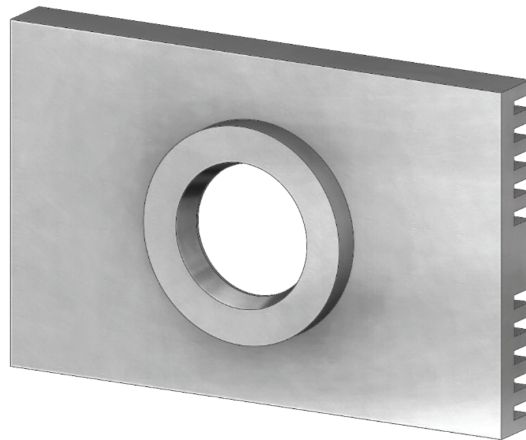
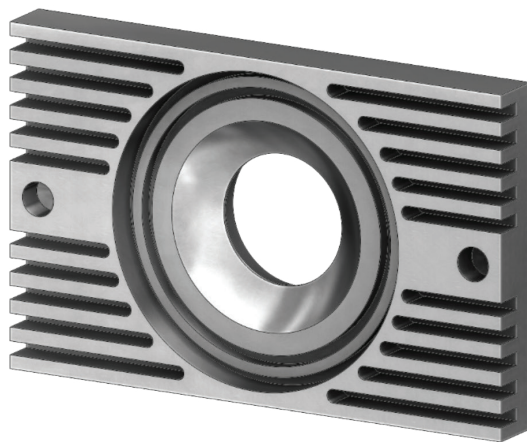


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Data Sheet

Selas Adjustable Gas Burners

Installation Accessories



SCAN FOR MORE INFORMATION



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