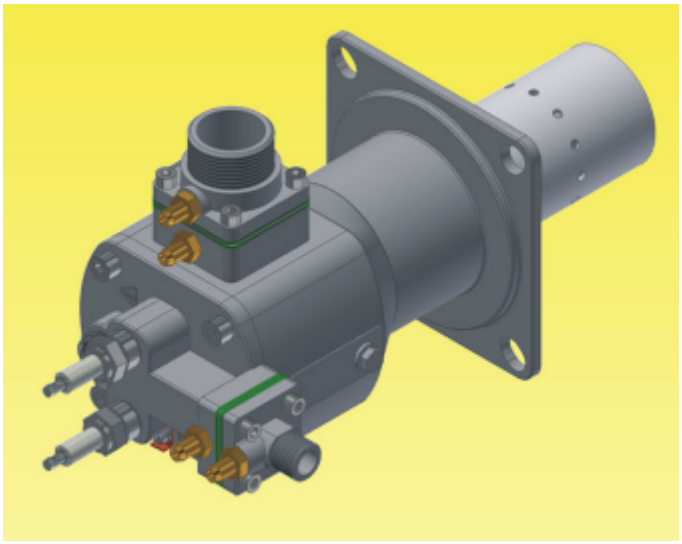
ASF

Double Orifice Plate Burner



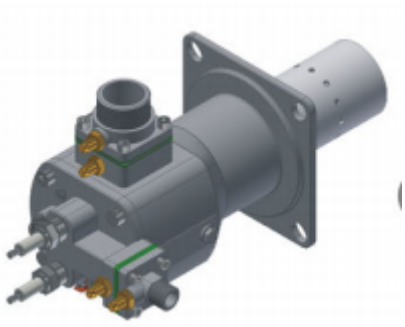
Foshan NUOE Combustion Control Technology Co., Ltd.
Tel: 4000-8397-18 Web: http: //www. astechnic.net E-mail: Astechnic @ 163.com

ASF Double Orifice Plate Burner

High performance, oxygen-poor combustion, coking-free, low energy consumption, high precision regulation

Features

Compared with other burners, SF Double Orifice Plate Burner has a wider air-fuel ratio operating area, lower air excess coefficient, lower energy consumption and better flame stability.



ASF double-orifice plate oxygen-poor burner can burn under wind to consume excess oxygen in flue gas and reduce flue gas emission. It is widely used in ceramic kilns and other application scenes that need to maintain a certain flame shape and rigidity.

ASF Double Orifice Plate Burner can work normally at a very low air excess coefficient. When the burner works in the state of maximum power 60KW, the combustion air flow rate can be adjusted to 18 square meters, and the air excess coefficient can be as low as 0.3. Not only that, its flame can still maintain a certain outlet velocity, flame rigidity, do not take off, flameout, which is other burners do not have excellent performance.

Generally, the flue gas of the high temperature section upstream of the ceramic roller kiln contains a lot of unconsumed oxygen, while the application of ASF Double Orifice Plate Burner in the preheating section is oxygen-poor combustion, which can consume the excess oxygen in the flue gas and reduce the flue gas emission, so as to achieve the purpose of reducing energy consumption.

The burner head is made of heat-resistant stainless steel, and the burner has the function of automatic ignition and detection, which can be used with the ignition controller to realize the kiln temperature self-control and flameout alarm.

ASF Aeries Burner can also be assembled with silicon carbide and preheated air can be used.

Applications

● Ceramics Roller Kiln ● Tunnel Kiln

Product Description

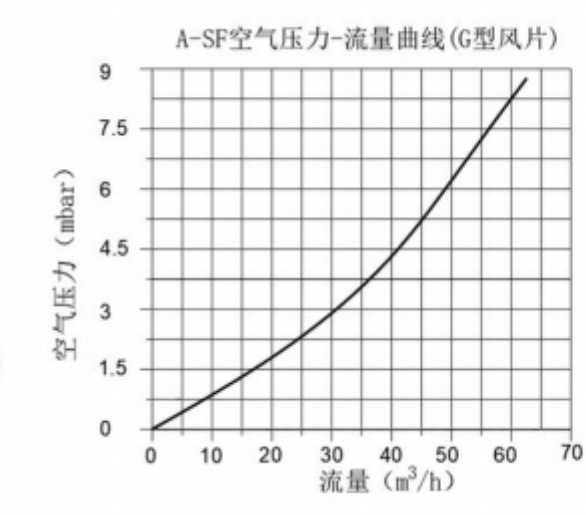
- Air shell: Cast aluminum
- Applied maximum furnace temperature: 1200° C
- Fire pipe material: SUS 304
- Combustion head: SUS 321
- Fixed flange: N/A
- Preheat the air: 200℃
- Power: 5~60KW
- Air inlet pressure1- 10mbar
- Gas inlet pressure: 1-1 8mbar
- Fuel: NG
- Adjustment ratio: 1:15

Ignition and Flame Monitoring

● The ignition of the burner can be realized by the ignition electrode, and the flame detection can be realized by ion detection.

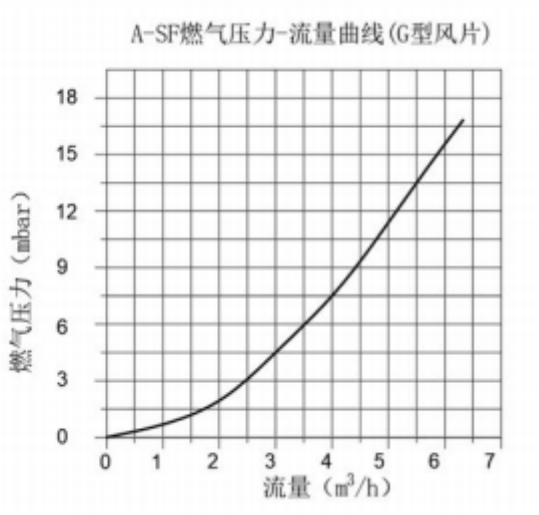
Air Pressure- Traffic Characteristics

A-SF Air Pressure-Flow Curve(type-G wind plate)



Gas Pressure-Flow characteristics

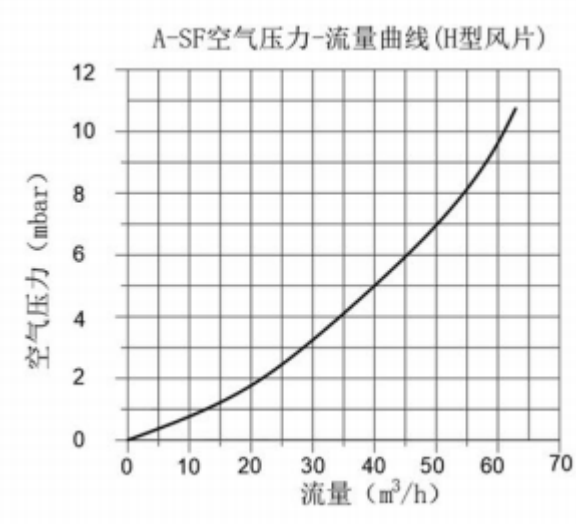
A-SF Gas Pressure-Flow Curve(type-G wind plate)



Test data of A-SF burner (Wind film: type-G wind plate, Test condition: air excess coefficient 1.0, Air temperature: Normal temperature)

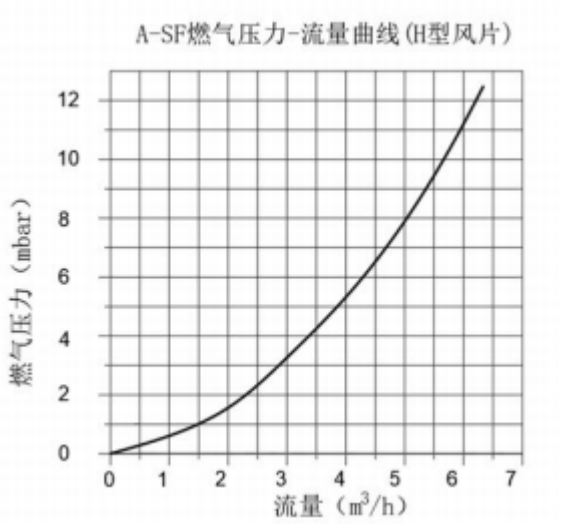
Air Pressure- Traffic Characteristics

A- SF Air Pressure-Flow Curve(Type-H wind film)



Gas Pressure-Flow characteristics

A-SF Gas Pressure-Flow Curve(Type-H wind film)



Test data of A-SR burner(Wind film: type-G wind plate, test condition: air excess coefficient 1.0, Air temperature: Normal temperature)

Installation

The ASF Double Orifice Plate Burner is recommended to be installed horizontally and may cause water vapor condensation and ignition problems on the electrodes if vertical installation is required.

ASF Double Orifice Plate Burner can be used in furnaces with refractory fiber lining, refractory brick or refractory castable masonry.

Specific installation requirements:

The burner is fixed horizontally on the furnace wall with bolts, and thermal insulation cotton needs to be installed between the burner and the furnace wall.

The connection direction of air and gas inlet can be adjusted according to the field conditions.

ASF Double Orifice Plate Burner is easy to disassemble and belongs to split structure. If it needs to be replaced, just screw out the four screws on the gas cover to remove the core of the gun.

ASF Double Orifice Plate Burner gas and air have mounting orifice plates, which can accurately adjust the pressure and measure the pressure difference.

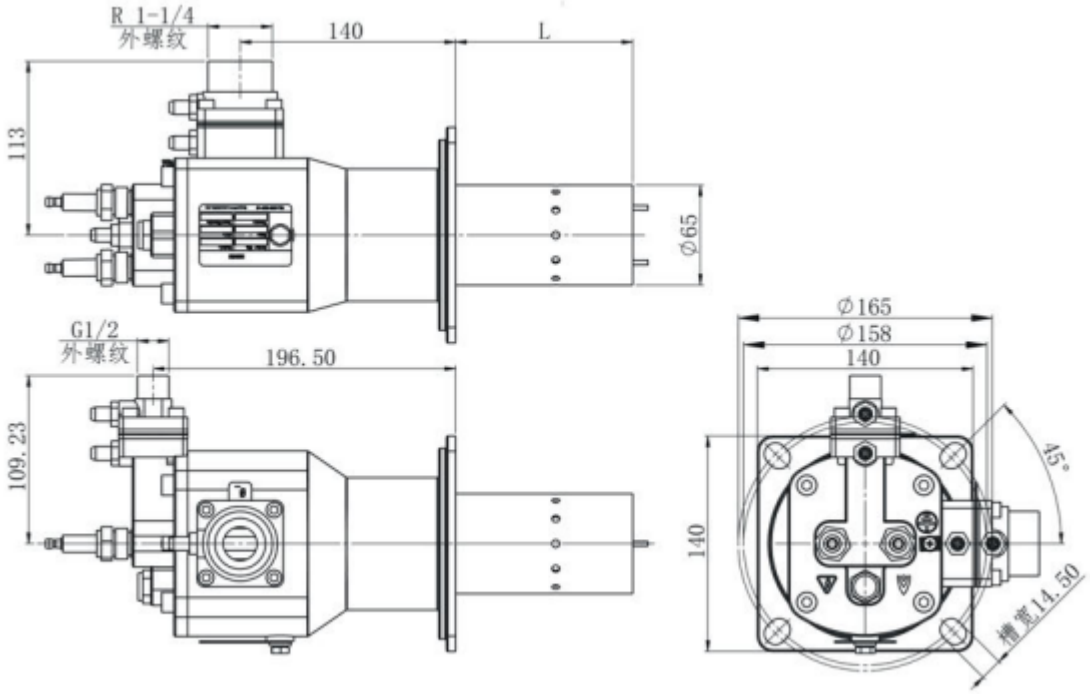
ASF Aeries Burner is often used with silicon carbide because of its high thermal conductivity, low thermal expansion coefficient, light weight, high strength and good energy saving effect.

Burner Specification

Product Code	Model	Power	Fire pipe diameter	Fire pipe length L	Wind film type	Fuel	Area
101904650001	ASF-65-G-85	5-60KW	65	85	Type-G	NG	Preheating section
101904650002	ASF-65-G-115	5-60KW	65	115	Type-G	NG	Preheating section
101904650003	ASF-65-G-125	5-60KW	65	125	Type-G	NG	Preheating section
101904650004	ASF-65-G-135	5-60KW	65	135	Type-G	NG	Preheating section
101904650005	ASF-65-G-165	5-60KW	65	165	Type-G	NG	Preheating section
101904650006	ASF-65-G-195	5-60KW	65	195	Type-G	NG	Preheating section
101904650007	ASF-65-G-215	5-60KW	65	215	Type-G	NG	Preheating section
101904650008	ASF-54-H-110	5-30KW	54	110	Type-H	NG	High temperature section
101904650009	ASF-54-H-140	5-30KW	54	140	Type-H	NG	High temperature section
101904650010	ASF-54-H-150	5-30KW	54	150	Type-H	NG	High temperature section
101904650011	ASF-54-H-160	5-30KW	54	160	Type-H	NG	High temperature section
101904650012	ASF-54-H-190	5-30KW	54	190	Type-H	NG	High temperature section
101904650013	ASF-54-H-220	5-30KW	54	220	Type-H	NG	High temperature section
101904650014	ASF-54-H-240	5-30KW	54	240	Type-H	NG	High temperature section

The specific installation dimension is shown in the following table:

Type-G wind plate



Type-H wind film