



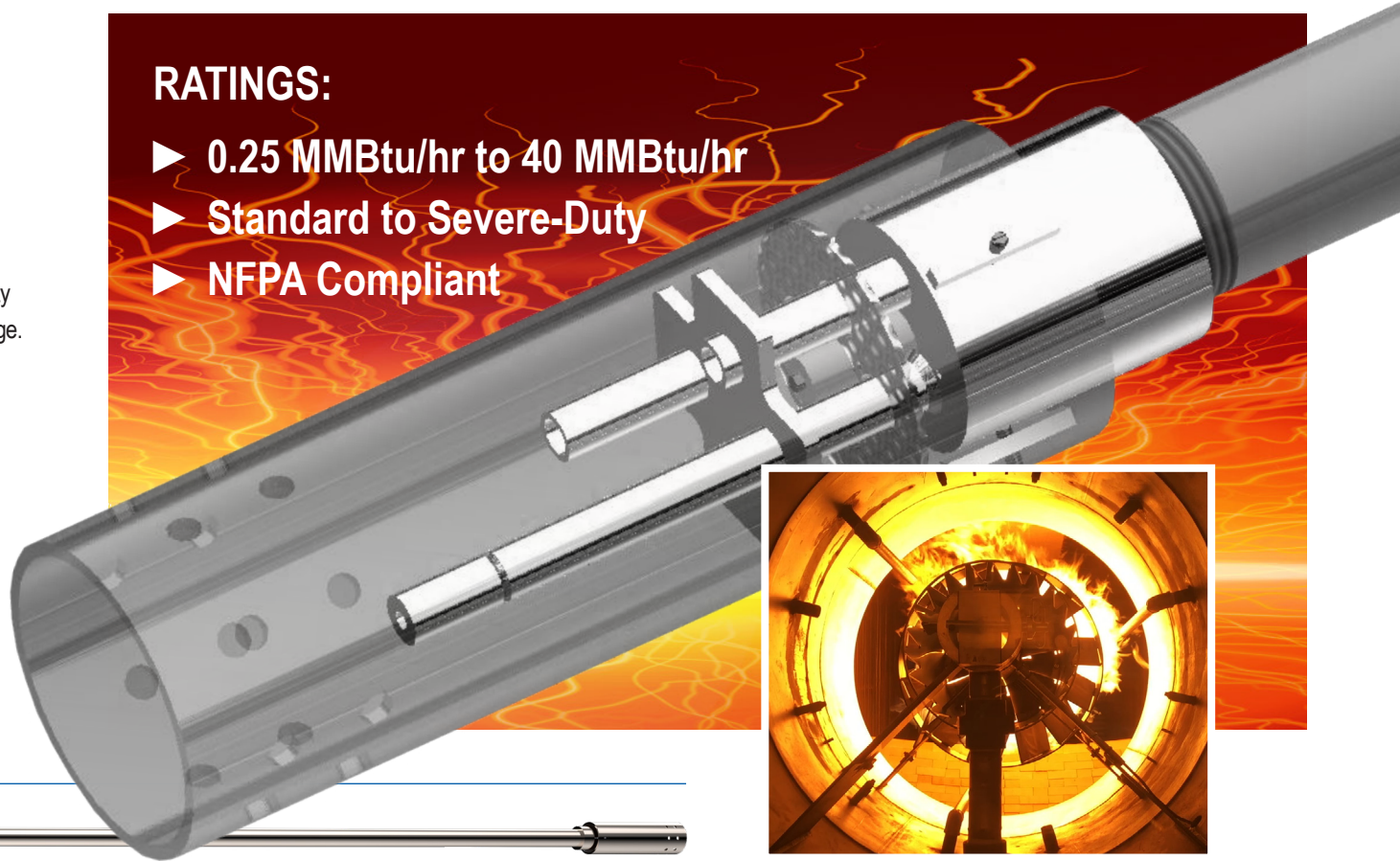
**SPARKMAX HIGH STABILITY  
GAS IGNITER**

The VISION<sup>®</sup> SparkMax<sup>™</sup> Igniter provides maximum reliability and repeatable performance in a cost-effective ignition package. The design of the igniter offers significant end-user benefits.

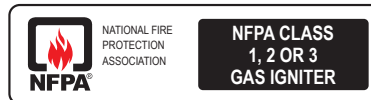
- ▶ Reliable light-off
- ▶ Rugged design with stainless steel head
- ▶ Stable combustion enhanced with fresh air quick Premix design
- ▶ Proven performance in adverse, contaminant-rich environments
- ▶ Electrodes easily replaced without removing the igniter
- ▶ Easily retrofit with new mounting plate Durable spark electrode
- ▶ Durable spark electrode

**RATINGS:**

- ▶ 0.25 MMBtu/hr to 40 MMBtu/hr
- ▶ Standard to Severe-Duty
- ▶ NFPA Compliant



**AVAILABLE LENGTHS  
- 24 TO 120 INCHES**



**APPLICATIONS**

SparkMax Igniters provide reliable and consistent operation for demanding applications, including Watertube Boilers, HTHW Generators, Firetube Boilers, Hot Water Heaters, Duct Burners Dryers and Process Applications.





To ensure safe and reliable light-off of any burner, an igniter that is stable under adverse conditions is essential. The SparkMax Gas Igniter provides break-through in both stability and reliability. The igniter's Quick PreMix section ensures both fuel and air are rapidly mixed directly in front of durable spark electrode. This section provides a stable "base" flame for the remainder of the fuel.

Operation with external fresh air also allows the use of this igniter in severe applications such as very low O2 streams (Duct Burners) as well as areas of high moisture or particulate contamination (Dryers and Thermal Oxidizers). Additionally, the igniter incorporates sealed electrode design, making the system perfect for any burner application.

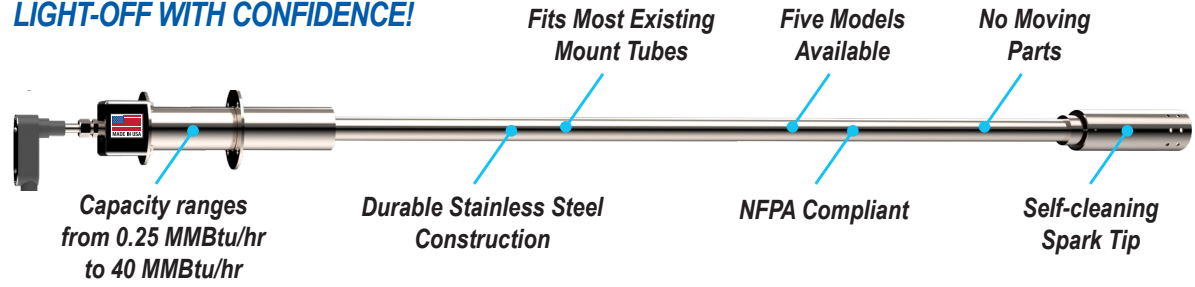
SparkMax gas igniters provide reliable operation over a wide range of heat release. They light immediately from the built-in spark electrode and remain stable after the sparking period in the light off sequence. SparkMax igniters comply with the latest NFPA standards.

These igniters are capable of reliably lighting off at rated conditions. They are capable of remaining stable in high velocity swirling air streams of 6,000 feet/min. For higher velocities, a special stabilizing hood is supplied. Once light off is established the igniter is stable up to twice its capacity.

The igniters are made of 310 stainless steel and designed for temperatures more than 1600° F., while actual operating temperatures, when firing with 70° air, do not exceed 1000° F.



### LIGHT-OFF WITH CONFIDENCE!



MODEL ID	LIGHT OFF CAPACITY (MMBTU/HR)	IGNITER OD (INCHES)	COOLING AIR REQUIREMENT (SCFM @ PSI ABOVE WINDBOX)	MAXIMUM CAPACITY (MMBTU/HR)
SM12	0.2 to 0.6	1.63	None	2.5
SM1	0.5 to 1.5	2.38	None	5.0
SM5	1.5 to 7.5	4.00	None	15.0
SMA	0.5 to 1.5	2.38	25 @ 2	3.0
SMP-S	7.5 to 40	5.0	AR	80

### HESI - NON-FOULING / STANDARD

Input Voltage:..... 120 to 240 VAC 50/60 HZ  
 Output Voltage:..... 2000 VDC  
 Output Energy: ..... 4 joules per spark  
 Spark Rate:..... 3 per second (approx.)  
 Duty Cycle: ..... 50% at – 18 to 57°C (0 to 135°F)

### HTSI - HIGH PERFORMANCE / UPGRADE

Amperage: ..... 20 mA  
 Input Voltage: ..... 20 to 240 VAC 50/60 HZ  
 Output Voltage: ..... 6000 VDC  
 Input Current: ..... 1.5 A (2-A fuse); 240 VAC @ 0.75A (1-A fuse)  
 Duty Cycle: ..... 100% at temperature rating

The removable electrode can be replaced without removing the igniter assembly or shutting down the burner. This feature is attractive on installations such as pressurized furnaces where it is not possible to remove the igniter without shutting the furnace or boiler down. As the electrode is the portion of the pilot subject to

maintenance, the ability to handle electrode change without igniter removal becomes important on applications where burners fire for extended periods

Specially designed sealed electrode comes with both high voltage (HTSI) design and high energy (HESI) options.