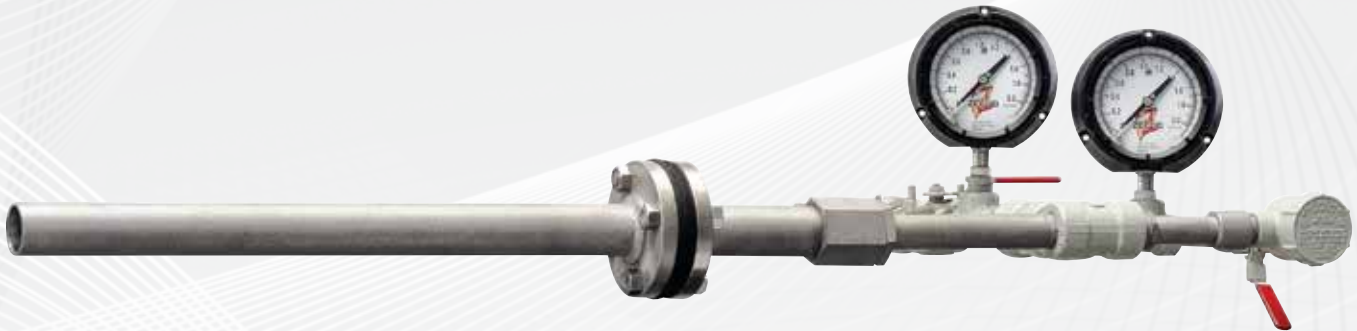


# ZEECO® AR/GS HIGH ENERGY IGNITION SYSTEM

## AR/GS Series Electric Pilot



### Robust ignition with reliable performance.

As the world leader in combustion solutions, Zeeco understands that reliability, durability, and safety are essential for profitable plant operations. The ZEECO® AR/GS High Energy Ignition (HEI) System is superior to traditional systems in that it will operate under the most adverse process conditions to eliminate expensive downtime. The AR/GS uses a compressed air supply to ensure the pilot stays lit, even when the furnace operating pressure fluctuates unpredictably. Our high energy capacitive discharge technology provides robust ignition with dependable performance, and is the same technology used by the aerospace industry to ignite jet aircraft engines.

Zeeco's AR/GS HEI System can be installed in new or existing applications and is available in multiple sizes up to 2 MMBtu/hr. Our high energy spark tip is suitable for vessel operating pressures up to 90 psig and can be used in both oxidizing and reducing service. A design-specific flammability chart is supplied with each pilot to ensure field personnel set the appropriate fuel gas and compressed air ratios for consistent and dependable pilot light-off. Available stainless steel construction minimizes corrosion and costly repairs due to chemical attack. Every AR/GS Ignition System includes integral gauges to monitor fuel gas and compressed air pressures to ensure accurate measurement and reliable ignition. An optional pneumatic retraction system is also available.



To view underwater demo visit <https://www.zeeco.com/burners/burners-pilots-ar-gs-1-hei.php>

### The Zeeco difference.

**Combustion and environmental product solutions are our only business.**

Zeeco is a privately held company that attracts the best and brightest engineers around the world. From our debt-free headquarters campus, we operate the largest industrial-scale research and test facility in the world and the first of its kind to become ISO certified. With offices on virtually every continent, Zeeco combines its global experience with local expertise to demonstrate a higher standard of excellence in our people, products, and processes.



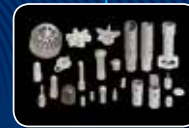
BURNERS



FLARES



INCINERATORS



PARTS & SERVICE

# AR/GS High Energy Ignition System

## Design Features

- Integral gauges to monitor fuel gas and compressed air pressures
- Available in multiple sizes up to 2 MMBtu/hr (0.5 MMkcal/hr)
- High energy spark tip suitable for vessel operating pressures up to 90 psig
- Recommended for both oxidizing and reducing service
- Available in carbon or stainless steel construction
- Optional pneumatic retraction system



## Design Information

Pilot Model: .....	AR/GS-1 HEI
Pilot Ignition Method: .....	High energy electric ignition
Standard Pilot Heat Release: .....	162,000 Btu/hr at 10 psig with natural gas
Maximum Pilot Heat Release: .....	Up to 2 MMBtu/hr
Pilot Operating Pressure Range: .....	5 to 15 psig
Pilot Fuel Range with Single Tip: .....	100% propane to 90% hydrogen
Pilot Tip Material: .....	HK or 310 SS
Pilot Flame Shield: .....	HK or 310 SS
Pilot Mixer Material: .....	Carbon steel (Optional 304SS or 316L SS)
Pilot Riser Material: .....	Carbon steel (Optional 304SS or 316L SS)
Ignition Rod Material: .....	310 SS
Operating Range: .....	Atmospheric to 90 psig internal pressure

ZEECO® combustion and environmental solutions are designed and manufactured to comply with applicable local and international standards as defined by our customers.



REGISTERED  
ISO 9001: 2015

CERTIFICATION APPLIES TO ZEECO HEADQUARTERS ONLY.

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