



ZEECO HIGH PRESSURE BALLISTIC IGNITION SYSTEM

On Demand Ignition Solutions.

We understand the costly consequences of downtime and the pressure to reduce overall emissions. The advanced ZEECO® High Pressure Ballistic Ignition System offers a safe, reliable, and flexible “on demand” flare system ignition solution that minimizes emissions, operates effectively under challenging weather conditions, and can eliminate the need for continuous pilot fuel gas supply.

Zeeco is the only combustion and environmental equipment supplier in the world to provide flaring systems, flare gas recovery units, and ballistic ignition systems. From concept to commissioning, rely on one partner to deliver a multitude of technologies and services – from engineering and manufacturing to the design and installation of your equipment. No matter how complex your system requirements, rest assured Zeeco will equip you with the people, products, and services you need for seamless execution, every time.

How It Works.

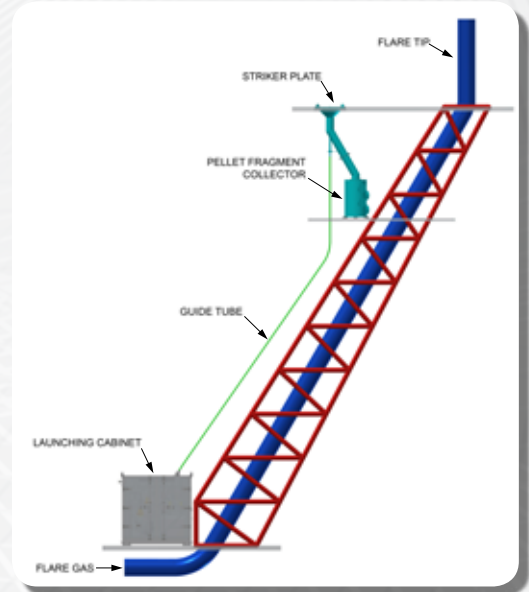
The ZEECO High Pressure Ballistic Ignition System utilizes a compressed nitrogen launching system to propel zirconium-filled pellets through a guide tube to the flare tip. Upon exiting the guide tube at a high velocity, the pellet impacts a striker plate, showering the flare tip exit with sparks and igniting the flare gas stream. Because Zeeco high pressure pellets require a minimum impact velocity for ignition and have no internal explosive materials, they will not detonate if dropped during loading or fragment collecting – creating a safer alternative to low pressure systems on the market. Pellets are regularly tested to ensure safety, reliability, and quality.

To reduce maintenance and provide a reliable spark, all electronics and movable parts are mounted in the launching cabinet located a considerable distance away from the flare tip. The launching cabinet includes the following items:

- **Moving parts**
 - Pellet carousel
 - Charge system
 - Launching system
 - 2 or 4 stage nitrogen booster system as required
- **Electronics**
 - Automatic initiation sequence
 - System status monitoring
 - Integration with flaring system and flame monitoring

Design Features.

- Nitrogen booster system arrangement eliminates potential overheating and enhances equipment life
- High pressure fittings and tight tolerances increase the overall system reliability
- Can meet local and international standards, including NORSOK, INMETRO, ATEX, PED, and ASME
- Can be applied to all types of flares (elevated, offshore, burn pits, etc.)





BURNERS



FLARES



INCINERATORS



PARTS & SERVICE

Safety Features.

- Minimum impact velocity for ignition
- Provides direct feedback into DCS
- Launch is only permitted after unit is pressurized and charge valve is closed
- High integrity self-contained enclosure for launching system



The Zeeco Difference.

As a privately held company with thousands of installations to our name, Zeeco leads the industry in providing innovative combustion and environmental solutions for complex applications in the refinery, production, petrochemical, power, and marine and offshore industries. By concentrating on what we do best for more than 40 years, Zeeco has grown into the worldwide leader with more than 20 global locations, comprehensive aftermarket service and support, and a team of engineers dedicated to your mission. We work where you work, worldwide. Put Zeeco’s decades of experience to work on your most challenging flaring applications today. Call or email us today to learn more about our full line of flaring and flare gas recovery solutions.

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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