



Kotaminyak proudly presents our brand of flare system, **FLARE INTERNUSA**. Since its launch in 2006, we have accumulated numerous references in upstream and downstream oil and gas facilities for onshore & offshore applications for domestic and global market. We are committed to uphold our track record with our offer that encompasses quality flare systems and comprehensive services to provide the best solution.

## QUALITY DESIGN

Our highly capable engineers are equipped with state-of-the-art software: Flaresim, Flarenet, Hysys, Stackdesk and CFD for accurate and customized design.

No one-solution-fits-all and eliminating guesswork, different scenarios are taken into account. Covering all parameters, our system is pre-engineered to address all site requirements.

## QUALITY MANUFACTURING

Having ISO 9001:2015 ensures our manufacturing process conforms to various international standards and codes, such as

- API 521
- API 537
- ASME sec VIII
- ASME STS-1-2011
- NEMA/IEC

## TYPES OF FLARE

- Steam Assisted Flares
- Air Assisted Flares
- Gas Assisted Flares
- Offshore Flares
- Pit Flares
- Enclosed Ground Flares
- Multipoint Ground Flares
- Low BTU Flares
- Portable Flares
- Combined High Pressure & Low Pressure Flare
- Vent System
- Combined Flare & Vent



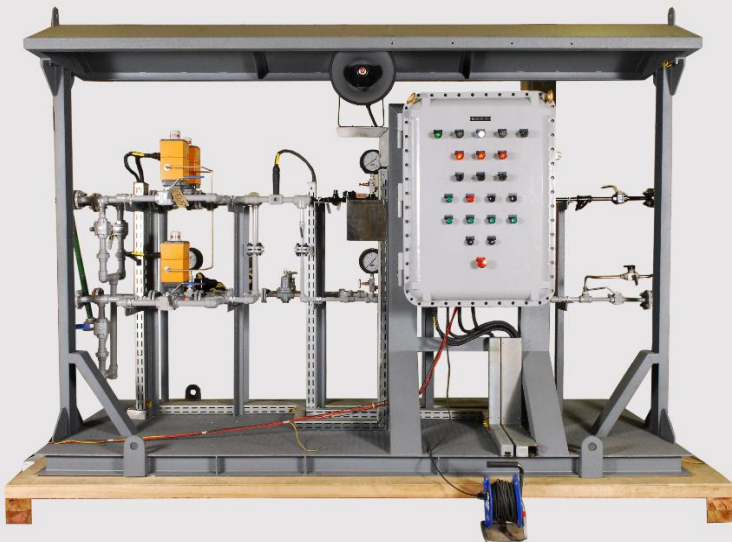
---

Your Partner In Reliability

## FLARE ACCESSORIES

We also provide a wide array of accessories to complete our solution packages:

- High Stability Pilot
- Velocity Seal
- Density Seal
- Knock-Out Drum
- Liquid Seal Drum
- Custom Manual/Automatic Ignition Control System
- Aircraft Warning Light
- Flame/Smoke Monitor
- CCTV
- Emission Monitoring System



## VALUE ADDED SERVICES

Flare Internusa also includes the following packages for a complete solution:

### ▪ SPARE PARTS

Carrying ample inventory to supply a wide array of flare components such as flare tips, ignition system, valves, cables, and others with guaranteed availability.

### ▪ INSTALLATION

With strong management capabilities, supervision & commissioning, we are confident in delivering smooth and timely project execution.

Installation capability includes:

Guy-Wired Support, Self-Support, Offshore Application, and others.



# FLARE INTERNUSA®



## ■ RENTAL:

Offering a selection of stand-by, portable flares of various sizes. Particularly useful during emergency/shutdown situations, temporary replacements, or one-time flaring needs.

## ■ MAINTENANCE/RECONDITIONING

Providing preventive maintenance, corrective maintenance as well as comprehensive repair/reconditioning into as-new condition, our service expertise includes:

Analysis and troubleshooting, feasibility studies, inspection report, dismantling/installation, transport, inspection/testing, major/minor repairs, on-call emergency, and others.

## ■ CONSULTING/ANALYSIS

Performing in-depth system analysis in addition to identifying design improvements/upgrades in order to optimize flare system operation.

## ■ DESIGN/COMPUTING

Using computer-aided engineering software, accurate and customized designs are produced along with various scenarios that can be generated to simulate the perfect flare system design.



---

Your Partner In Reliability





## ENCLOSED GROUND FLARE

- 99% Destruction Efficiency
- Controlled Emission
- Insulated Design for Lower Heat Radiation
- Minimum Noise Level
- Suitable for industries located adjacent to residential areas

Enclosed ground flare provides a very cost effective solution for the smokeless invisible flaring of many combustible gases.

Enclosed flare conceals fire in the enclosed wall which are lined up with refractory, which is definitely more beneficial than open flare. Due to its insulated design, enclosed flare not only offers minimum noise but also reduces thermal radiation effectively.

Characterized by smokeless combustion, the enclosed flare is perfectly suitable for areas adjacent to residences or vital facilities and critical operation production facilities.

Enclosed flare burns unwanted gas by a configuration of burners which are placed at the ground section of the flare. Flames are hidden by the surrounding wall.

Ladder and service platforms may be constructed all the way to the top of the chamber for access to instrumentation and emissions sampling.

The enclosed flare can achieve higher destruction efficiencies due to the combustion reaction between excess air & gas, which takes place in the combustion chamber. Therefore, the design must accurately account for the height of flare and the supply of excess air for combustion. The supply of excess air can be either by natural draft or forced draft.

Natural draft is controlled by dampers or louvers. This type of enclosed flare normally uses wind fence to mitigate the potential of the wind to interfere with air and flue gas flows during the combustion process as well as to prevent unauthorized access. In addition, wind fence also offers safety protection for personnel from the radiation of flare flame and from external surfaces of the combustion chamber.

Meanwhile, forced draft utilizes the blowers. During the operation, the combustion temperature is monitored and controlled by means of louvers opening or blower speed.



### Headquarters:

PT. KOTAMINYAK INTERNUSA  
Jl. Bandengan Selatan no. 60A  
Jakarta 14450, Indonesia  
Ph: +62 21 662 1725  
Email: flare@kotaminyak.co.id

[www.kotaminyak.com](http://www.kotaminyak.com)