

OUR PARTNERSHIP:



FLARES



PT. DWIJAYA SELARAS

An ISO 9001:2008 Certified Company

- OPEN FLARES
- ENCLOSED FLARES
- COMPACT FLARES
- MOBILE FLARES



FLARES

The waste gases/vapours from petrochemical, WWTP, chemical plants if allowed to be released unburned into atmosphere has very high potential for environmental hazards. CRA has developed FLARES for safe disposal of gases by flaring with high efficiency and reliability. CRA designs and develop the systems meeting the API 521/537 norms.

WHY CRA FLARES

- Every product has to pass our regress testing before it is release for despatch
- High efficiency aspirated Burners to achieve 99% thermal destruction
- Safe disposal of gas during equipment failures and other emergencies
- Eliminates potential ground- level Hazards
- Design as per API 521/537 standard
- Modular Derrick , guy wired and self supported structure with accessories
- Many options for material of construction
- Meets quality requirement of a country
- Reduce effect of Noise, Smoke, Odors etc
- Fully Customized & Cost effective solutions as per Projects requirements
- 20 years of wide experience with many working installations of various types of Flares

TO MEET THE REQUIREMENT OF THE VARIOUS APPLICATIONS CRA OFFERS DIFFERENT SOLUTIONS

1. OPEN ELEVATED FLARES
2. ENCLOSED FLARES/ THERMAL OXIDIZERS
3. COMPACT FLARES
4. MOBILE FLARES

About Open Flare: Elevated open flares are mainly designed to eliminate potential ground level fire hazards. In elevated system combustion takes place at the top of the discharge stack. The gases are vented through an elevated stack from a gas collection system. CRA manufactures high efficiency flares for Petrochemical, WWTP, Landfills etc.

FLARES FOR PETROCHEMICAL, OIL & GAS SECTOR, REFINERIES

CRA manufacture customized flares to meet the client requirement. Safety gets the top priority in the design of the flares. The elevated structure of all types viz. self-supported, derrick/guy-wired are also provided. CRA undertakes complete project on turnkey basis.

*Petrochemical flares are customized & are offered, based on client requirement.

Special features	Applications:
Smokeless flaring with high turn-down	Petrochemical gases/ vapours
Continuous or intermittent pilot as per the process requirement	Oil and gas sector/ refineries
The flare facilitates complete and clean combustion	Other waste gases / vapours
Proprietary aspirated burner design for specific process gases.	



BIOGAS/ WASTE GAS FLARES

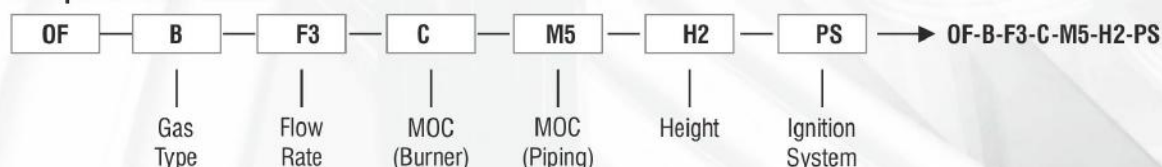
CRA has vast experience in Biogas, SYN gas, Producer gas, CBM flares. Successfully supplied and commissioned in numerous projects in many countries. Flares with ATEX/UL/FM or any other norms can be provided and designed as per API-521/537 standards.

High efficiency combustion is achieved by aspirated burners attaining 99% destruction.

Flare selection and ordering chart for Biogas/ Waste gas flares

Model	Gas Type	Flow Rate Nm3/Hr	MOC (Burner)	MOC (Piping)	Height (H)	Ignition System
Open Flare- OF	Biogas- A Syn Gas/ Producer Gas- B VOCs- C	Up to 100 - F1 Up to 250 - F2 Up to 700 - F3 Up to 1500 - F4 Up to 2500 - F5 Up to 5000 - F6 Others - F7	Stainless Steel - S Cast Iron - C	SS-316 - M1 Carbon Steel- M5 Cast Iron - M7	7.5 m - H1 9 m - H2 12 m- H3 Other- HX	Direct Ignited- PB Pilot Ignited- PS

Example for Model Selection



COMPACT FLARE

About Compact Flare: For small budget projects CRA has developed a very efficient, robust and low cost flaring system for small and medium scale biogas installations with integrated structure and accessories i.e. Compact Flare.

Compact Flare are budget packaged flare with capacity of up to 80 m³/hr. Higher flow rates flare are also available on request. They are pre-piped and pre-wired with necessary automation.



Special features	Applications:
Small modular flare Can be easily installed in 2-4 hours at site Prepiped & pre-wired Low cost efficient system Safe disposal of hazardous/wastes gases Reduce effect of Noise, Smoke, Odors etc.	Biogas/ coal gas Small plants & projects Chemical plants Waste gas burning Low flow flare application Petrochemical gases/ vapours

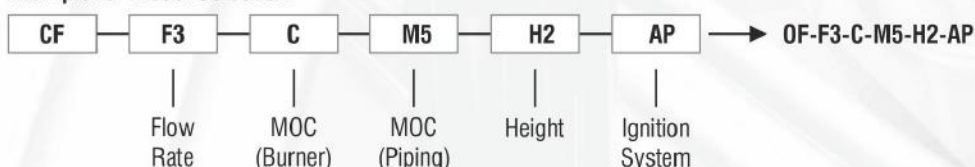
Special Features

Operation :	Automatic.
Safety :	Flame Arrester flash back Prevention, Pressure sensing.
Capacity :	up to 80 Nm ³ /hr. Higher capacity can be designed on request.
Accessories :	Flame Arrester, Pilot Igniters, Control Valve, Thermal Pressure sensors, Control Panels etc.
Materials:	The Materials normally selected on the basis of compatibility with the fluid/fuel and process temperature. Normally used materials are SS316, Carbon Steel or any other compatible material to meet project requirements.

Selection & Ordering table of COMPACT FLARE

Model	Flow Rate Nm ³ /Hr	MOC (Burner)	MOC (Piping)	Height (H)	Ignition System
Compact Flare - CF	Up to 10- F1 Up to 30- F2 Up to 60- F3 Up to 100- F4	Stainless Steel - S Cast Iron - C	SS-316 - M1 Carbon-Steel - M5 Cast Iron - M7	2.5 - H1 3.8 - H2 5.3 - H3	Direct Ignited-PB Pilot Ignited- PS

Example for Model Selection



About Mobile Flare: For temporary installation of a flare, needed for only a short time in one place to handle localized waste gas disposal problem. CRA offers skid-mounted Mobile Flares Units to allow mobility. Such types of systems are useful for Gas pipe line/ Gas distribution network within a large plant (Petrochemical & Refineries) & Landfills. CRA design & manufacture Mobile Flare for Oil and Gas industry, Waste gases, LFG operations and tank Cleaning operations. The Flares have inbuilt capabilities to handle wide variety of gas with full safety and precaution as per API Standards.



Why CRA Flare

- Every product has to pass our regress testing before it is release for despatch
- Fully customize and cost effective solution as per project requirement
- Customized to suit the application design.
- Modular Compact design for flare on wheels.
- Utilized Flare at multi locate.
- Designed for long life and least maintenance.
- Total integrated system.

Applications

- Oil & Gas Industry
- Waste gas/ LFG
- Tank Cleaning Operation
- Skid or trailer mounted for ease of movement around site
- Biogas/ Coal gas

Advantages

- Easy to use
- Portable
- Less maintenance
- Complete destruction
- Cost effectiveness

Products from

- Gas Scrubbers ■ Enclosed Flare/Thermal Oxidizers ■ Incinerators ■ Flame Arrestors ■ Open Elevated Flares ■ Biogas Upgrading
- LFG/Biogas to CNG (Natural Gas) ■ Pressure Vacuum Relief Valves (PVRV) ■ Biogas to Power ■ Moisture Traps
- Gas Conditioners ■ Gas Dehumidifier ■ Digesters ■ Gas Holders and etc.



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