

System Description

Flare Stack is used to burn excess gas during land operations. Mobile flare system, consisting modular elements for quick build-up and mobilization. Flare Stack allows gas to be burned at a safe distance from the work area, protecting workers and the environment. Also, used in hazardous environments as H₂S.

Applications

- Land locations
- Gas flaring at land locations
- Production Well Testing
- Well Testing gas disposal
- Relief line vent flare

Dimensions

Skid dimension during rig up:

L 18.45 x W 12.55 x H 18.05 meter.

Skid dimension during lay down or Transportation:

L: 10 x W: 1.9 x H: 2.69 meter.

Skid weight:

W: 4500 kg



- 60' mobile flare stack skid has a remote ignition and LPG pilot line & burner.
- Flare stack supported by 3 guided wires which is connected to 2 side support and 1 main skid.
- Gas Pilot Ignition system supported by industrial propane tube. Pilot gas controlled by manual valve.
- Bottom part of flare stack has mechanic fluid dump system, fluid level indicator and manual drain valve.
- 6" Inlet piping equipped with 6" Flame Arrestor.
- 4" flare tip made by SS 304 & 316.
- Automatic ignition panel sense the presence of a flame.
- Thermal sensor/reignite the pilot when the flameouts occur.
- The flare stack contains 16" section for fluid accumulation.
- The rig up & rig down can be performed by hydraulic lifting system according the client's request.

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TROYA Flare Design Spreatsheets

General Specifications

Service	Standard and H ₂ S
Capacity	8,000,000 MMSCF/d
Wind speed	3 m/sec
Exposure Type	C
Size of Flare Tip	8"x4"
Overall Height of Flare Stack	18 meters
Gas Barrier Section	1 meter
Length of Flare Tip	2 meters

Note: Various sizes and configurations available.



Flare Tip

Stainless Steel

70 cm wind shield is 316 SS

Pilot Nozzle: 316 SS

Pilot Pipe: 304 SS

Thermocouple Sensor: One (1) @ Pilot

Type of Thermocouple: Chromel

High Intensity Spark Unit equipped with:

High Intensity Igniter Assembly

High Intensity Exciter Assembly



Ignition Control Panel

Automatic/Manual Ignition/Re-ignition for a total of One (1) pilot weatherproof, Ignition Control Panel is equipped with the following components:

- Solid State Temperature Controller
- Automatic/Alarm Timer
- Ignition Timer
- Manual Reset Pushbutton



Extension Wire

Extension wire is equipped with high temperature insulation and proper radiation shielding to prevent heat damage to the cable. This is important, since the flare burner flame heat radiation will provide elevated temperatures at/near the flare burner and higher stack elevations. Normal temperature cable insulation is not sufficient to prevent damage, which would render control and monitoring equipment useless. Extension wire will protect against this type of failure and provide efficient and trouble free electronic pilot operation.

Painting of Flare Stack

The points where the steel exposed to heat is painted with heat resistant paint. Where the skid is painted with a special coating which is resisting to outer condition.

