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Proposal

HES Pilot and Ignition System For Client Built Flare Stack

Do you build flares or need to retrofit an existing flare stack? HERO Flare can supply the same pilot and ignition system that we use on our own flares. It works for us and it will work for you.

This pilot and ignition system is well proven in hundreds of applications. A number of large users have standardized on this high quality ignition system. When the power is on, the pilot sparks every 3 seconds, even if a flame is present. When fuel gas is on, the spark lights the pilot flame. If the wind blows out the flame, the continuous spark relights the pilot flame. A thermocouple monitors the pilot status for EPA compliance. A solar panel keeps the 12V battery charged for days of constant spark ignition.

There are many advantages to HERO flare ignition systems including:

- The flare pilot meets EPA regulations.
- The flare pilot is fully automatic, electric spark design with battery backup and a solar panel charging system. No auxiliary power is required.
- The pilot and ignition systems are stock items. We normally ship within days of an order.

We look forward to working with you as this project progresses.

Best regards,

HERO Flare
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Data Sheet

Utilities

Pilot Gas (per pilot)	Natural Gas: 78 scfh at 5 psig. Clean, dry gas.
Ignition Gas	None required.
Plant Air	None required.
Electricity	None required. Solar powered 12VDC ignition system.
Electrical Area	non-classified area
Control Panel Type	Nema 4X (Corrosion resistant FRP)

HES High Energy Spark Ignited Pilot

- Stainless steel construction for long life and corrosion resistance.
- Wind bonnet on pilot tip for improved flame stability.
- A thermocouple continuously monitors the pilot flame status.
- Common junction box on the pilot for the thermocouple and low voltage wiring.
- 1/4" connection for fuel gas supply.
- Approx 8'6" long x 32 lb.
- Fisher regulator and gauge set for natural gas pilot fuel.

SOL Ignition System

- Automatic spark ignition module. The module sends a low voltage current to the exciter mounted on the pilot.
- Pilot flame monitoring system. The temperature monitor provides dry contacts for remote indication of pilot status. 4-20 mA signal pass-through is available.
- Battery backup for continuous sparking of pilot in the event of a power failure. 5 day continuous sparking capacity.
- 30 W solar panel with mounting bracket suitable for your 2" pipe support.
- 100ft of Type K thermocouple wire.
- Power regulator and battery charger.
- Nema 4X (fiberglass) control panel with On/Off switch and Pilot On light.
- Domestic packaging and shipping within continental USA (FedEx Freight or equal).
- Drawings and operating manual (electronic form).

Client Responsibility

- Fuel gas supply, normally 3/8" stainless tubing.
- 14ga wire and associated conduit between pilot and control panel.
- 2" pipe to mount the ignition and solar panel.
- Mounting brackets and U-bolts. Weld brackets to flare tip. Attach pilot with U-bolts. Hero Flare to supply sample drawing.
- And, of course, the flare stack and tip.

Pricing and Commercial Terms

Pricing

One HES High Energy Spark ignited pilot with thermocouple (drilled for natural gas). One SOL 12VDC automatic ignition system for client flares, solar powered.	Texas jobsite: \$6,600 Other USA jobsite: \$6,750 Difference is freight cost.
Fuel gas pressure regulator	included
100ft of thermocouple wire	included
Domestic crating and delivery within continental USA	included

Terms & Conditions

- We normally accept the standard terms and conditions contained with our client's purchase order. We can not accept unlimited liability or consequential damages.
- Prices are quoted in US funds, FOB Bastrop Texas.
- Texas clients must supply a sales tax exemption form. Pollution control equipment is sales tax exempt. We must add Texas sales tax to the invoice if we do not receive a signed exemption form.
- Terms of payment: We send an invoice. You send a check. Life is simple.

Schedule

Standard Delivery

Shipment	0-2 week depending on availability. Units are normally stock items and ship within 1 week.
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Warranty

We warrant all equipment to be free from material or workmanship defects for 18 months after shipment or 12 months after first operation, whichever occurs first. We shall require all equipment vendors to pass through their standard warranty to the end user. The equipment warranty covers replacement parts, but excludes freight, field labor or backcharges. We can supply the formal warranty statement upon request.

Contact Information

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