TROUBLE-FREE OPERATION

FLARE GAS PROBE

ANALYTICAL SOLUTIONS AND PRODUCTS

The ASaP Flare Gas Probe ensures that your analyzer system remains protected from unexpected fouling ensuring uninterrupted and trouble-free plant operation.

FLARE GAS PROBE

ANALYTICAL SOLUTIONS AND PRODUCTS

Inclined Stokes Law separator

THE CHALLENGE

The most common challenge of flare gas sampling is that nobody knows what the exact composition is at any given time. It is dependent of the operation of the units upstream.

Principle of operation validated by VSL, Dutch Metrology Institute

"A burning desire to reduce flare emissions"

One of the launching customers provided

"Guys, back to office right now from inspection. Filters absolutely clean. Photos will follow in the next days. Seems everything works perfectly"

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Prior to installation → ***With ASaP Flare Gas Probe***

- ***Principle of operation by mother nature, always works and is free of charge***
- ***Tested against and proven in extreme conditions***
- ***Including blow-back and optional manual rodding***
- ***No moving parts***
- ***Simple and easy maintenance***

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THE NEED

The flaw of most existing probes and sample conditioning systems is that they are designed to specifications which are typical snap-shots of a laboratory analysis and most often not based on excessive conditions when the measurements are needed most.

EXCESSIVE PROCESS CONDITIONS

The special ASaP Flare Gas Probe has been developed taking excessive process conditions into consideration.

- ***Pipe line velocities > 100 m/s***
- ***High fouling and particle load***

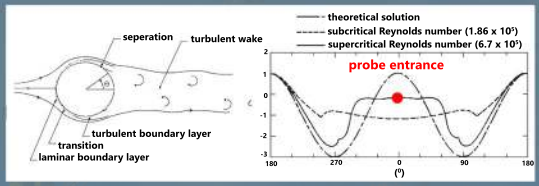
COMPLIANCE

As per November 2015, USA flares should comply with Subpart Ja 40CFR60 Subpart Ja – Total Sulfur / Hydrogen Sulfide (H2S) Measurements and 40CFR60.18 – Net Heating Value

FIRST STAGE

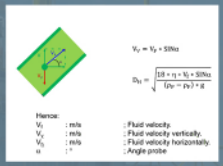
Virtually maintenance free due to multi-stage operation

Prevent contamination entering the probe by using d'Alembert's Paradox. Using thermodynamic laws preventing fouling and particles entering the system.



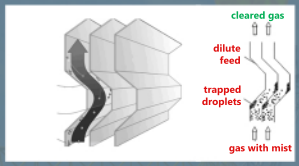
SECOND STAGE

Sample and contamination separation by gravity by using Inclined Stokes-Law seperation.



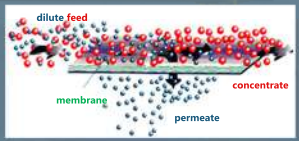
THIRD STAGE

Demister pads



FOURTH STAGE

Traditional filtering by using an external membrane filter.



FIFTH STAGE

Enhanced and extended maintenance interval by using hot condensate or wet steam back flush for removal of Heat Stable Salts.