

## GAZ / GPL SAMPLER

ASTM D667.1



### PRINCIPLE

#### *Automatic Sampler of Gas / LPG samples*

2 valves (6 ways / 2 positions) allow the sampling of GAS or LPG samples in calibrated loops for injection on Sulphur and/or on Nitrogen analyser

## EQUIPMENT

A box to associate with our Sulphur and/or Nitrogen analyser.

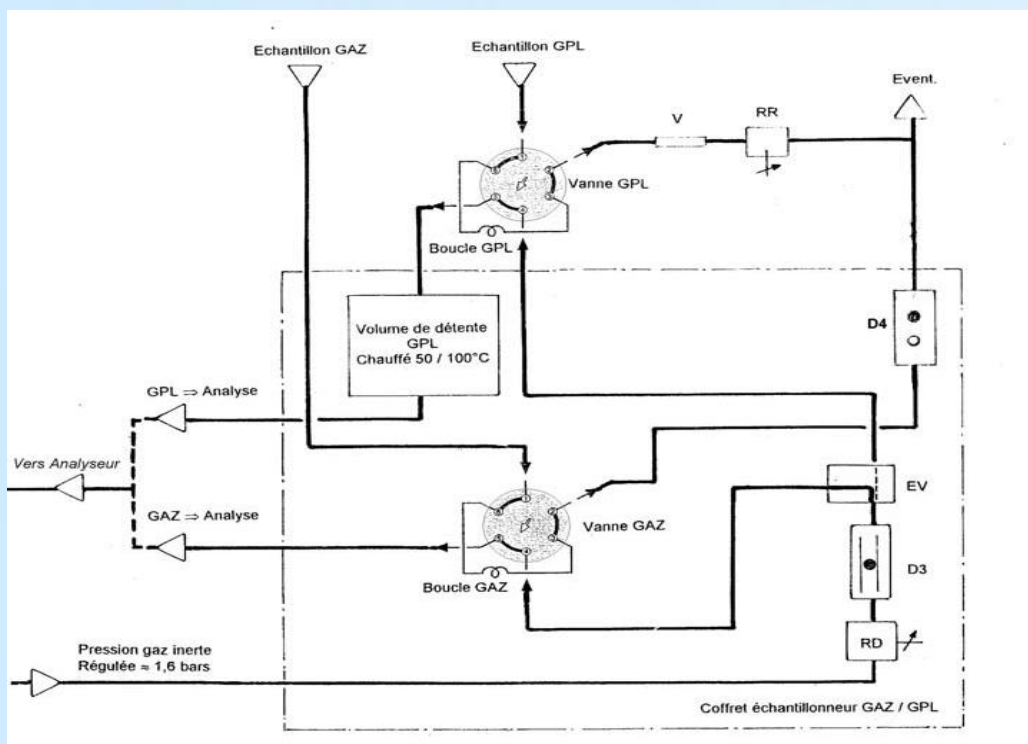
It is composed with:

- 2 sampling lines : one for GAZ, the other for LPG
- Each is composed with a 6 ways / 2 positions valve, with sampling loop
- A flow regulator (RD) and a ball flowmeter (D3) for control and adjustment of carrier inert gas flow
- A ball flowmeter for control of GAS loop filling (D4)
- A fine adjustment valve (RR) with visual control (V) of LPG filling
- A heated buffer volume for LPG vaporization before on analyser
- A 3 ways electrovalve (EV) for selection of carrier gas to GAS or LPG valve.

## TECHNICAL CHARACTERISTICS

- Carrier inert gas flow 20 cc / min
- GAS sampling loop 10 ml
- LPG sampling loop 10  $\mu$ l
- LPG Buffer volume 15 ml
- Temperature of LPG buffer volume adjustable between 50 et 150°C (nominal 80°C).
- GAS input / output connections with SS steel connector double ring Swagelok 1/8".
- Input pressure for inert gas on SULF UV analyser –1,6 bars
- Dimensions of the box (mm): Length 250 x depth 230 x height 300.
- Weight 5.5 kg
- Electric power 230 V 50 Hz 200 W

Developed and adjusted with “Institut Français du Pétrole” (IFP)  
according to partnership agreemen



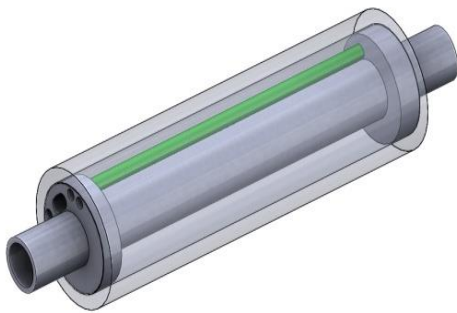
## DIFFERENTS FURNACES



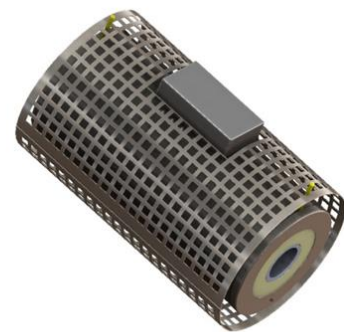
*Opening Furnaces*



*Oven with reactor and cooling system*



*Oven with special insulation*



*Oven with special insulation*



*Tubular furnace « well »*



*We made also :*

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***Wickbold / Sulfur***

ASTM D2784 / ASTM D2785 -  
AFNOR M41-009 / ISO 4260 -  
IP243 / DIN 51408 NF. EN  
24260 / EN41



***Tubular furnace with  
temperature controller for  
laboratory***



***Chlorine Analyzer***

AOX - Pox - Eox according to  
ISO 9562



***Nitrogen Analyzer***

ASTM D4629 / ASTM D6069 /  
ASTM D5176 / ASTM D7184 /  
NF EN 12260 / NF M 07-058



***Tri-four pyrolysis for***

Tritium, Carbon 14, Chlorine 36,  
Iodine 129

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