

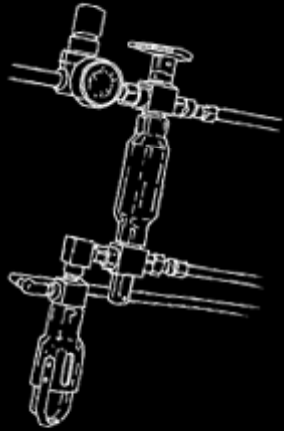


Closed Vent Sampling Systems for Liquids, Gases and Liquefied Gases

SulfurUnit.com

April 14-16, 2010 League City, TX

Vic DeFiori
vdefiori@dopak.com



Products

DOPAK CLOSED VENT
SAMPLING SYSTEMS
FOR LIQUIDS, GASES
AND LIQUIFIED GASES



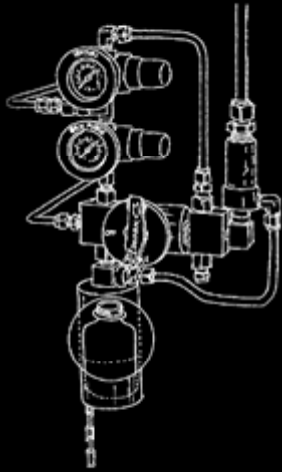
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Bergschenhoek
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OPEN VENT SAMPLING





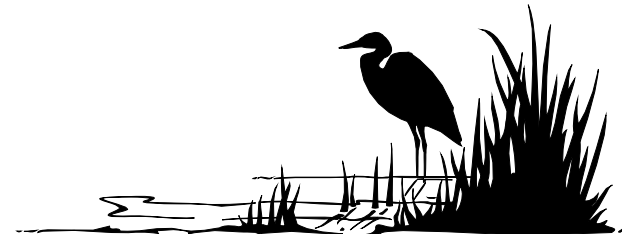
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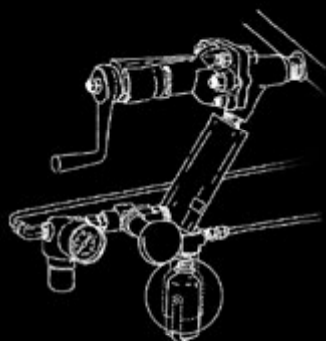
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Objectives of sampling system

- ✓ Provide safety for the operator
No contact with the product to be sampled
Easy (one handle) operation
- ✓ Provide safety for the environment
No spillage, no fumes
- ✓ Provide a 100% representative sample

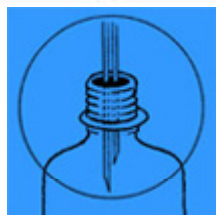




Sample containers - Bottles



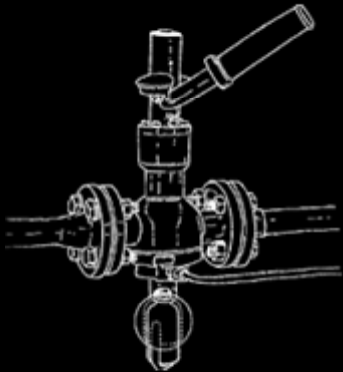
- ✓ Bottle closed with cap and septum
- ✓ Needle assembly/sleeve arrangement
- ✓ Closed vent
- ✓ Product at atmospheric pressure



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Sample containers - Cylinders



- ✓ Cylinder with valves and QC couplings
- ✓ Outage for liquids (external/internal)
- ✓ Closed vent / DESO QC
- ✓ Product at process pressure



Liquefied gas

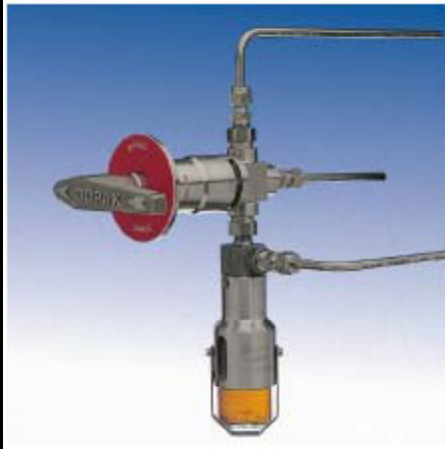


Gas

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DPM series

Applications

Liquids at lower pressure
Sampling with lower vapour pressures
Corrosive, hazardous liquids
Viscous fluids, slurries
Sampling from pipelines and tanks

Available Configurations

On/off
System purge
Back purge
Needle purge
Back/needle purge
System purge and continuous needle purge
In line, needle purge





S32-G series

Applications

Gas sampling

Available Configurations

[System purge](#)

[Bypass purge cylinder](#)

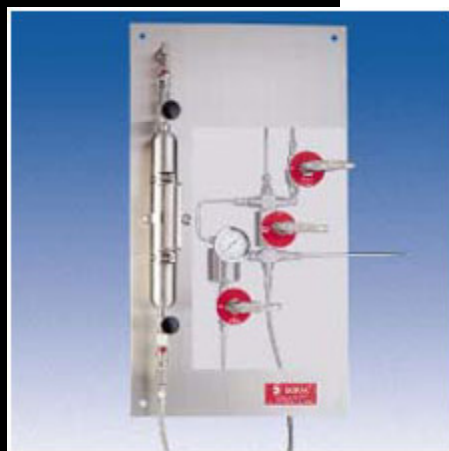
[Process to flare](#)

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S32-LG series

Applications

Liquefied gas sampling
Fixed external outage
High vapour pressure liquids
Zero quick connect vapour release

Available Configurations

[System purge](#)
[Vent to flare](#)
[Outage tube](#)
[Purge expansion](#)
[Bypass purge cylinder](#)

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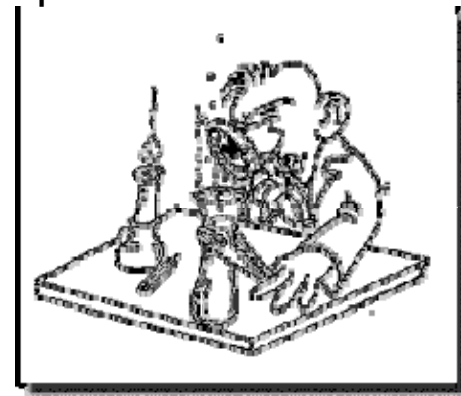


Liquefied gas

ENGINEERED PRODUCT

Design requirements

- ✓ Specification
Pipe or instrumentation specification
- ✓ Criteria
Design/operating pressure temperature, viscosity,
phase, particles. Product properties
- ✓ Representativity
Dead volume
System purge
External purge
Contamination
- ✓ Safety



SAFETY IMPROVEMENTS

