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

Sample containers - Cylinders

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

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**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
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