

LIQUID ZONE sampler



Operation

The basic plan of the zone sampler is to allow the product to pass through the sampler as it descends through the liquid. The top and bottom valves opening with the pressure of the liquid against the descending sampler allows the liquid to pass through the sampler. When the instrument is brought to a stop, the valves close.

This independent sample may be used as a zone sample or may be added to other samples at other levels for a composite sample.

Maintenance

The zone sampler may be readily dismantled for cleaning. It is suggested that the sampler be cleaned after each use either by using detergent, solvent, or steam, depending on the product that was sampled. Immediate cleaning will prevent any build-up of contaminants.

Sampling Methods

Figures #1 and #2 illustrate the various levels at which independent samples may be taken. First, in figure #1, an illustration of a storage tank:

The tank is sectioned or divided into levels equal to the length of the zone sampler. A sample may be taken from any level.

To obtain a representative sample it would be necessary to obtain a "core" sample, of the contents of the tank from the bottom to the top.

This is obtained by starting at the bottom (this would give an indication of any contamination at the beginning of sampling) and taking a sample from each foot level (length of zone sampler) to the surface.



Specifications for ZS-S Sampler	
Construction	Stainless Steel
Capacity	800mL // 1.69 Pints
Cylinder Height	12"
Overall Height	15"
Diameter	3"
Net Weight	3lbs

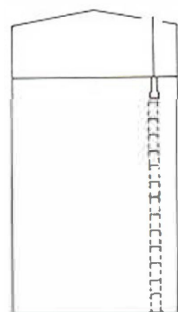


Figure 1

In Figure 2, a rail car or tank truck:

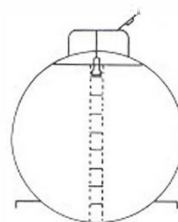


Figure 2

Approved for use in American oil Chemists' society methods.

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