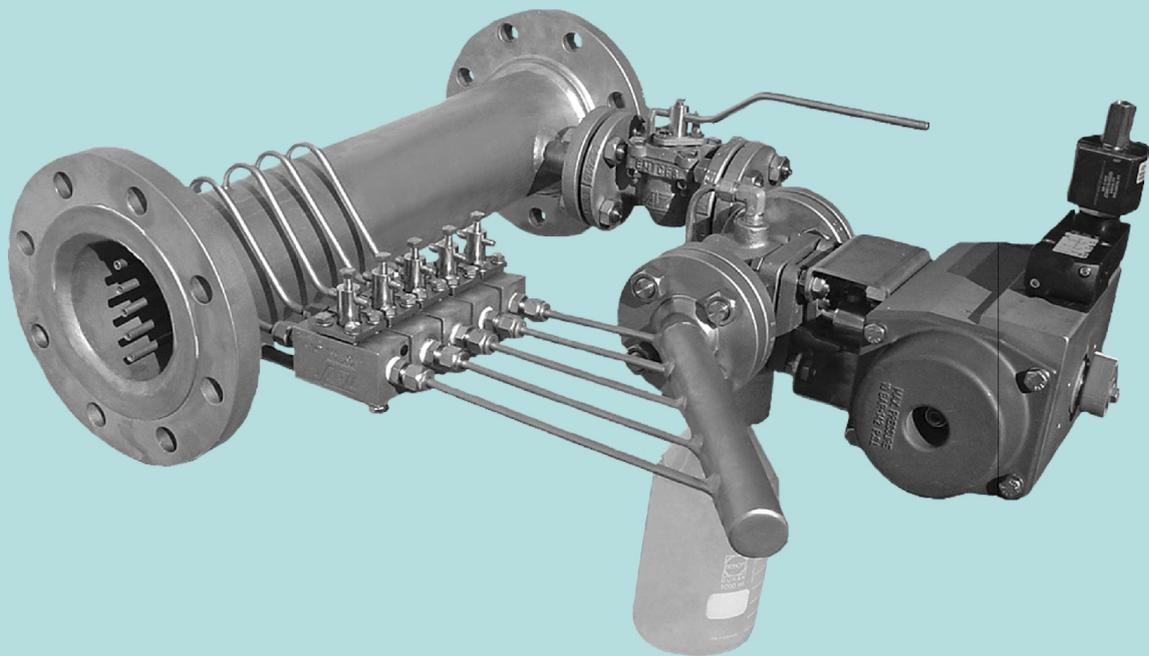


## TYPE “SAMPLING SIC”

### Isokinetic Sampling System for Two-Phase Liquids



5.3.4

- drawing of sample proportional to flow rate or in time intervals
- manual or automatic operation
- pressure free sampling
- defined sample quantity
- sizes: DN50 to DN600 (ANSI 2” to 20”)
- rates: PN16 to PN100 (150 to 600 lbs)
- sampling container customized
- operation simple and safe
- dimension for installation customized
- horizontal or vertical installation



## Type "SAMPLING SIC"

### Isokinetic Sampling System

The isokinetic AZ sampling system type "SIC" consists of a multiple pipe for two-phase liquids. The system was developed in co-operation with a considerable petrochemical company in Brazil and AZ Armaturen do Brasil. It applies to oil platforms and in plants e.g. for the production of petroleum.

#### **Funktion:**

The small pipes, which are arranged in the diameter of the main line, against the flow, lead a cross section of the main product stream isokinetic over a bypass to the sampling system. Thus develops a representative sample of the two-phase liquid. There is no need of an additional mixer or a centrifugal plant.

The sampling frequency can be directed by an optional control unit proportional to the flow rate or in time intervals.

#### **The sampling:**

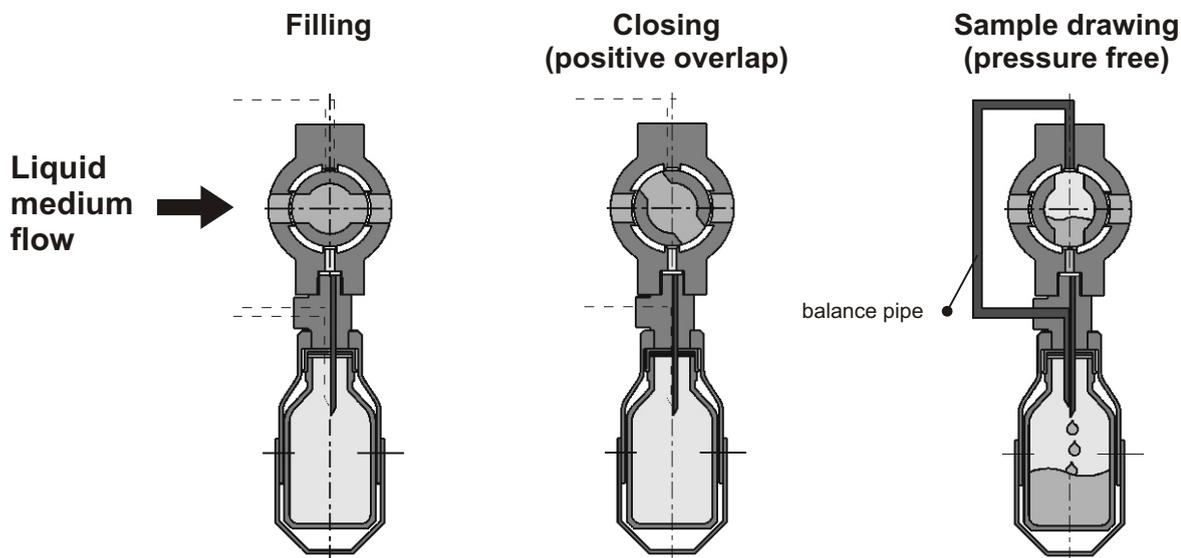
The AZ-Sampling system can be installed directly into the process pipe or in a bypass.

During the production process, the plug of the sampling system is in open position, which means that the balance pipe and the sampling port are closed.

For drawing a sample the plug must be turned 90° by means of the lever. Because of the **positive overlap**, the intersection of the process pipe is guaranteed. During the switchover a specific defined sample quantity (30-50 ml or more) is contained in the plug.

After reaching the 90° lever position, which is exactly restricted by limit stops on the cover, the sample quantity is transferred through the process needle into the sample container.

The air in the bottle, which can be mixed with gas or steam, can escape through the balance pipe into the closed system.



#### **Maintenance:**

- due to the conical plug the sealing of the sampling system can be easily adjusted.
- the sampler can be removed without stopping the production.

#### **Appliance:**

liquid transfer:

- from container to container
- from container to tanker
- in the pipeline
- at purchase and selling
- etc.



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