

Sampler



The sampler is designed for volumetric sampling on granular and powdery lines. It is installed in a product flow to provide a representative sample. For instance, it can be mounted on a gravity pipe for products with a specific weight above 0.35 without air disturbance.

Equipped with a pneumatic actuated cylinder, our sampler can be supplied with a control box. The contained sample also guarantees the operator's safety.

Features:

- Robust design for industrial use and high flow rates : up to 600 samples in 24 hours – 365 days/year
- Made of blasted stainless steel AISI 304L
- Standard steel piston for a very long mechanical service life
- Guides provided by PET rings loaded with solid lubricant



Sampler

Options and principle

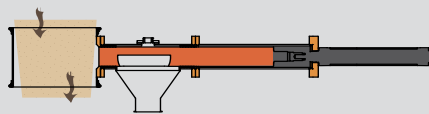
Cleaning :

Fast removal of the pneumatic actuator provides a direct access to the piston, enabling its extraction, cleaning and body cleaning. The body consists of two removable parts thus optimizing the accessibility for cleaning.

Compliances:

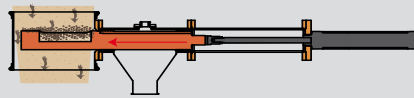
- 2006/42/EC machines directive
- Atex compliance 94/9/CE as an option
- EC regulation 1935/2004 on request

Operating principle



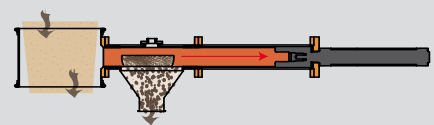
Before sample

The cylinder rod comes out while pushing the piston towards the product flow of outward. This movement is combined with the piston rotation to bring the cavity upward when sampling.



During sample

The product builds up inside the hole. Once the sample has been completed the cylinder retracts while pulling the piston loaded with the product sample with a reverse rotation movement.



After sample

The product flows into an outlet hopper that may be connected directly to the collecting pipe.



Operating piston



Sampling on gravity pipe

Control box

Our control box provides several operation modes :

- Manual mode: This mode enables you to start a sampling cycle when pressing a push button. After a configurable waiting time the sampler returns to initial position
- Automatic mode. This mode launches sampling cycles at regular intervals, adjustable for a total time which can also be set.

The available settings are provided to operate on :

- the sampler output time
- the sampling frequency
- the sampling cycle time