

FlowControl

In-Line Sampler

FlowControl



In-Line Sampler
for Powders

A Labocontrole® Product



Pneumatic FlowControl



Manual FlowControl

APPLICATION

The **FlowControl** sampler is designed to take samples of powders and granules **from pressurized pneumatic lines**, admitted maximum pressure being 6 bar.

The **FlowControl** sampler provides a simple, compact and reliable way to safely collect a representative sample.

Available for diluted or dense process phasis, in pneumatic or manual version, the design of the **FlowControl** sampler makes its handling and maintenance very easy.

The materials from which the **FlowControl** sampler is made off meet the sanitary requirements of food industries: SS 316L , PTFE seat for manual valve, pneumatic valve with EPDM sleeve compliant with food contact with FDA and EC 1935/2004 agreement.

PRINCIPLE

The **FlowControl** sampler operates through the action of a pneumatic pinch valve or a valve straight handle according to the model of sampler.

Opening the valve allows the passage of pressurized fluid from the pneumatic conveying line to the bottle previously installed at the output of the sampler.

To make the sampling possible, the adapter on which the bottle is screwed has a vent : it can be either fitted with a regenerable stainless Steel filter or connected directly to the dust exhaust circuit of the plant.

The **FlowControl** sampler is virtually maintenance free as self-cleaning is ensured at the end of transfert cycle with the ducted air.

DESCRIPTION (pneumatic)

Ref	Description
1	Sampler Purging connection with check valve 1/4"
2	Pinch valve air inlet 1/4"
3	Stainless steel Air pinch valve DN25 with EPDM sleeve food compliant
4	SS 316L fitting 1" (DN25) to be welded to the pipe of the pressurized line
5	Vent
6	SS 316L Bottle adapter
7	Optional: regenerable 304 SS filter 25µm with polyamid airhose connection
8	Optional: HDPE or PP bottle



Important : The **FlowControl** sampler complies with following standards : **EN ISO 12100:2010** concerning the safety of machinery and **EN 1672-2+A1 2009** concerning hygiene requirements for foodstuff processing machines.

The **FlowControl** sampler is not targeted by the **CE** Marking for following facts:

- According to the **Directive 2006/42/CE-Machinery** : the sampler can't be considered as a "machine" as described in the second article paragraph a) of the EC Directive
- According to the **Pressure Equipment Directive PED 97/23/CE** : the valve being \leq DN 25, all technical characteristics are under the targeted limits defined in the third article paragraphs 1.1, 1.2, 1.3 and in the table 6 of the annexe II

Nota : This equipment is not adapted to sampling out of a vacuum or depressurized transfer line.

IMPLEMENTATION

The **FlowControl** sampler has to be connected to the process via a unique fitting DN25 to be welded directly on the transfer line.

This device facilitates various operations even if the **FlowControl** sampler requires rare maintenance operations.

CONTROL UNIT (optional)

The **FlowControl** sampler is driven with an electropneumatic control unit made of stainless steel ; it is supplied with 24VCC electric power and the compressed air supplying should vary between 2 and 10 bar maxi. The usual recommended pressure will be 2 bars.

A touch screen allows the operator to set all the operating parameters. A modifiable delay allows to defer the start of sampling thus avoiding idling.

In automatic mode, the starting cycle can be induced by an external signal : sampling sequences are then managed by the control program.

When used in manual mode, the operator will be able to drive and completely control the sample collection process via the touch screen.



**Control Unit
with touch screen**