

IsoControl MLK-MLKT

Volumetric In-Line Sampler

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Volumetric
In-Line Sampler
for liquids in food
processes

A Labocontrole® Product



MLK



MLKT

APPLICATION

Mounted directly on piping transfer either pressurized or vacuum line, **IsoControl MLK** pneumatic sampler is designed to perform volumetric samples of liquids up to 15cPs viscosity.

Containment of the sampled product ensures the representativeness of the sample without the risk of external contamination. Moreover, the integration of the sampler into the process line enables the drying of the body during "air pushing". Easy to implement, the sampler **IsoControl MLK** offers a simple, compact and reliable device to collect a sample.

CE **IsoControl MLK** design and the choice of materials meet the hygienic and safety requirements of the European Machinery Directive 2006/42/EC.

An optional electro-pneumatic control unit may program the sampling cycles.

PRINCIPLE

IsoControl MLK sampler works as a single-acting piston. The piston located in the heart of the pipe has at its end a throat which enables to eject at each stroke of the piston a fixed amount of liquid from the process into the sample flask.

Each 0.5cc drop of sampled liquid flows directly into the sample flask ; this last one is mounted very close to the output of the sampler : the sample is thus confined which limits the risk of contaminations.

An adapter for specific bottles is optional.

An appropriate programming ensures the collection of a representative sample of a given transferred volume unit



Drip sampling

SPECIFICATIONS AND BENEFITS



FDA & CE 1935/2004 materials : 316L stainless steel, silicone seals, (optional Viton), PP sample bottles.

SMS connections for easy dismantling and cleaning of the wet parts

BENEFITS

- Easy and economical maintenance
- Easy cleaning
- Drying is possible at the same time as the pipe

CIP Cleaning unit (Optional)



This stainless steel CIP unit can simply be mounted on the sampling flask adapter before the start of the cleaning process.

It has internal ducting which causes the cleaning liquid to pass vertically in the wetted areas, thus providing hygienic cleaning.

Used water is discharged through a drain at the bottom of the unit.

As an option, the solenoid valve of the CIP cleaning unit can be operated by our control unit.



Each process situation is a special case, our engineering department is at your disposal to study any configuration for your application .

CONTROL UNIT (Optional)

The **IsoControl MLK** sampler is operated by an electro-pneumatic control unit 24 VDC power supply and 2-10 bar (15-150 psi) compressed air supply. The recommended operating pressure for the sampler is 2 bar.

The control unit enables 3 different sampling modes and 1 Clean in Place mode (CIP). The volume of the bottle, the pump speed and the volume to be transferred are fully configurable data.

A touch screen allows the operator to set all the parameters. A variable delay allows to defer beginning of the sampling cycle not to run the operation dry. The CIP cycle and the start can be induced by external signals (as pump, controller) or via the touch screen.



Control Unit with touch screen

