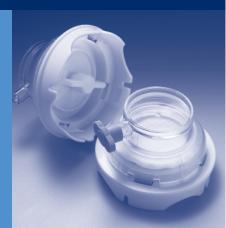
MILLIPORE



- Fast and reliable in-process collection
- Closed design for accurate sampling
- Less equipment to handle
- Sampling and filtration in one step
- Convenient, in-process microbiological analysis

MicropreSure® On-Line Filtration Samplers

Ready-to-use devices sample and test in-process bottled water

QC procedures in water bottling production environments keep water standards high. Traditional multi-step sampling methods are often inconvenient and a potential problem for time-pressed QC employees. The routine of setting up lab equipment, then performing delicate manipulations to process samples can be rushed, sometimes at the expense of proper aseptic procedures.

By reducing the sampling process to a few simple steps performed within a closed system, the MicropreSure On-Line Filtration Sampler improves in-process microbiological testing for bottled water producers.

Saves Steps, Speeds In-Process Sampling

The MicropreSure On-Line Filtration Sampler saves steps and speeds sampling, providing an easy tool to track the cleanliness of bottled water production lines. It uses the pressure in tanks or pressurized lines to process and collect samples through a microporous membrane within an enclosed chamber. And because the MicropreSure On-Line Filtration Samplers are securely locked together, sampling pressurized water lines will not create water leaks.

No Risk of External Contamination

MicropreSure On-Line Filtration Samplers are closed throughout the entire test, so there's no risk of adventitious contamination while sampling in a production environment. Organisms are captured on the membrane right at the collection site, ensuring a representative sample and reliable test results. Membrane handling is minimal, so operator skill and environmental control are less critical.

Less Equipment to Handle

MicropreSure On-Line Filtration Samplers are shipped ethylene oxide (ETO) sterilized and ready-to-use. Operators won't need to sterilize bulky sample containers and transport them back to the lab. After processing, microbes are contained and protected within the lightweight MicropreSure devices that are easily carried.

Continuous On-Line Sampling

A limited 100 mL sample may not reveal all microbial contaminants in a water sample. The MicropreSure On-Line Filtration Sampler processes any volume sample through its enclosed housing. In addition, the strong fit between the Luer fitting and the sanitary sampling valve means you can continuously sample over an extended period of time. Results can then reflect the average contamination over a batch, a shift, or a day.

Convenient, In-Process Microbiological Analysis

MicropreSure is an innovative and convenient tool that allows water samples to be aseptically processed, right at the collection site. The membrane, enclosed in its own housing, is protected until it is ready to be processed in the laboratory.

MicropreSure On-Line Filtration Samplers Obsolete Traditional Multiple-step Methods:

- No assembly
- No sterilization
- No sample containers to transport
- No risk of external contamination

In-Process Water Analysis

Fast and easy preparation of in-process water samples using the MicropreSure device.



1. Sample directly through the MicropreSure On-Line Filtration Sampler via the sanitary sampling valve.



 Access the membrane by connecting the MSOpener[™] manifold to a vacuum source, and placing the MicropreSure On-Line Filtration Sampler on top of the MSOpener manifold.



3. Incubate the membrane by lifting the membrane and transferring it onto a media plate.

Specifications

Dimensions			
On-Line Filtration Sampler Height:	ation Sampler Height: 45 mm (1.75 in.)		
Filter Diameter:	47 mm		
Filter Area:	9.10 cm ²		
Filter Pore Size:	0.45 µm pore size		
Pressure Limit at 25 °C:	3 bar/liter/min.		
Pressure Limit at 90 °C:	1 bar/liter/min.		
Temperature Range:	5 °C – 90 °C		
Materials			
Filtration Chamber/Base:	Polycarbonate		
Membrane:	Mixed esters of cellulose, white or black, gridded		
Filtration Support:	High density polyethylene		

This Millipore product is manufactured in accordance with a Quality Management System that is approved by an accredited registering body to the appropriate ISO® 9000 Quality Systems Standard.

Ordering Information

MicropreSure On-Line Filtration Samplers, Sterilized

Gridded Membrane Color	Pore Size	Qty/Pk	Catalogue No.
White	0.45 µm	48	MSHA WGT 48
Black	0.45 µm	48	MSHA BGT 48

MSOpener Manifold

Description	Qty/Pk	Catalogue No.
Complete vacuum manifold for accessing membrane	1	MSOP ENR 01
MSOpener tulip for mounting on standard 3 or 6-place manifold	1	MSOP NMS 01
Sterile Sampling Tube with Luer Fitting	100	M000 000 01

Valves and Valve Adapters

Identifying the Sampling Port Outlet and Choosing the Valve Adapter

If the sampling port outlet is a male Luer port (such as an ESP or Milliflex®-P valve), use the MicropreSure On-Line Filtration Sampler without a sampling port adapter. If the sampling port outlet has a Tri-Clover® connection, install a MicropreSure sanitary sampling valve. Use the correct valve as follows:

Connection Size	Catalogue No.
1½ in.	MXPE SPT CL
1⁄4 in.	MXPE SP1 4N
⅓ in.	MXPE SP1 8N
Outer Diameter	Catalogue No.
3 mm	MSOS TO3 O3
6 mm	MSOS TO6 03
8 mm	MSOS TO8 O3
12 mm	MSOS T12 03
20 mm	MSOS T20 03
³ ⁄16 in.	MSST 316 03
1⁄4 in.	MSOS T14 03
3∕8 in.	MSOS T38 03
⅓ in. Gas	MSFM 18G 03
⅓ in. NPT	MSFM 18N 03
1⁄4 in. Gas	MSFM 14G 03
1⁄4 in. NPT	MSFM 14N 03
⅓ in. Gas	MSLM 18G 03
⅓ in. NPT	MSLM 18N 03
1/4 in. Gas	MSLM 14G 03
1⁄4 in. NPT	MSLM 14N 03
3⁄4 in.	MSOT C34 03
Mini Clamp	MSOT CMC 03
1½ in. '	MSOT C12 03
	1½ in. ¼ in. ½ in. 3 mm 6 mm 8 mm 12 mm 20 mm 3/16 in. ¼ in. 3/8 in. ½ in. Gas ½ in. NPT ¼ in. Gas ¼ in. NPT ½ in. NPT ¼ in. NPT ¼ in. NPT ¼ in. NPT ¼ in. NPT ¾ in. NPT ¾ in. NPT ¾ in. NPT ¾ in. ¾ in. Mini Clamp

To Place an Order or Receive Technical Assistance

For additional information call your nearest Millipore office: In the U.S. and Canada, call toll-free **1-800-MILLIPORE (1-800-645-5476)** In the U.S., Canada and Puerto Rico, fax orders to **1-800-MILLIFX (1-800-645-5439)** Outside of North America contact your local office. To find the office nearest you visit www.millipore.com/offices. Internet: www.millipore.com Technical Service: www.millipore.com/techservice

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