DYNATEST™

THE RESTORATIVE MEMBRANE FOR BIOLOGICAL SAMPLING

For in-situ dynamic and sterile sampling of Ultrapure water

OVIVO

Worldwide Experts in Water Treatment

DYNATEST

The Dynatest sampling system is an effective tool especially developed for the in-situ biological sampling of Ultrapure water. It enables water to be sampled directly in the pipe (in-line sampling) without interruption of the process or disturbing the process flow. This method avoids the introduction of unwanted bacteria or contamination into the sampled water.

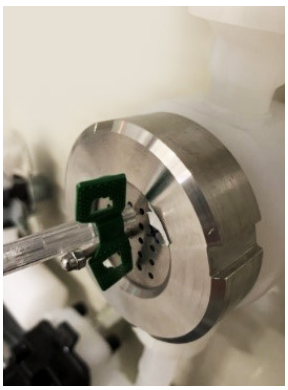
In contrast, conventional sample valves are easily contaminated by bacteria due to stagnate water and ineffective sample valve preparation prior to sampling. The Dynatest membrane is located in a PVDF housing and has been prepared with 24 sample sites.

A sterile butterfly needle is used to collect samples directly from the Ultrapure Water stream by piercing the prepared sample sites within the membrane. Once penetrated, the "memory" properties of the Dynatest membrane allow the membrane to be restored to its original form. It is this unique "memory" that ensures the integrity of the sampling procedure.

ASEPTIC PROCESS

A fast and reliable in-line sample in only few steps:

1. Prepare all the material.
   Clean the bacterial test surface to be pierced.



2. Pierce the Dynatest membrane with a sterile butterfly needle and let the line purge 10 minutes
   Optional: sampling can be done under inert atmosphere using a glove box connected to a nitrogen line in order to avoid any contamination of UPW with air.

3. Sample the required volume in a sterile bottle. Write down the parameters of the sampled water (date, time, sample site, location, temperature and conductivity).
4. Keep the sample refrigerated until shipping to laboratory for analysis and discard the used butterfly needle.

Sample sites can only be used one time. Once all prepared sample sites have been used, the Dynatest membrane must be replaced by trained personnel.

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Ovivo is a global leader in water solutions for the semiconductor industry and stands as a founding member of the Semiconductor Climate Consortium (SCC), a pioneering initiative dedicated to fostering climate progress within the industry.

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KEY FEATURES

READY TO USE
Especially designed to monitor minute contamination

CONTINUOUS IN-LINE SAMPLING
Direct sampling of the UPW stream

MAXIMAL PURITY
Superior quality materials for Ultrapure water plants

NO EXTERNAL CONTAMINATION
Restorative membrane with 24 prepared sample sites

SAMPLING VOLUME & ANALYSIS
Increased sample sensitivity to ensure representative and reliable test results

STERILE PACKAGING
To protect the membrane from any contamination prior to use