



## Permeate Monitoring System

Continuous individual pressure pipe monitoring of diaphragm defects in nanofiltration and reverse osmosis systems

**burkert**  
FLUID CONTROL SYSTEMS

The sampling system uses sensors to measure the water quality of individual pressure pipes. The water sample is extracted through valves and conveyed automatically to the sensors. Parameters such as conductivity, turbidity and chlorine are measured at this point. The measured values are subsequently compared with limit values and logged. Afterwards the data is available for further evaluations.

### Your advantages



Installation and commissioning is easy and accurate due to preassembled cabinets and defined interfaces.



High water quality due to early warning of membrane breakage via trend analysis. Data were logged and compared periodically.



Cost saving due to automatic monitoring which enables survey of more plants by one person.



High process reliability due to an automated sample collection and related to this a consistent monitoring of the water quality.



High productivity while avoiding production stops due to early detection of irreversible membrane failures with an online analysis system.

# Simple and safe solutions for your water quality

Water treatment with the purpose of detecting or avoiding undesirable passage of contaminants thru the membrane

A well-working diaphragm system is the prerequisite for treating drinking water and water for industrial applications. In this respect, Bürkert has developed a monitoring system for reverse osmosis and nanofiltration. The system measures quality-related data automatically and periodically. The process minimises the risk of diaphragm breaks at an early stage and ensures permanently high water quality.

