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.
- Cost saving due to automatic monitoring which enables survey of more plants by one person.
- High productivity while avoiding production stops due to early detection of irreversible membrane failures with an online analysis system.
- High water quality due to early warning of membrane breakage via trend analysis. Data were logged and compared periodically.
- High process reliability due to an automated sample collection and related to this a consistent monitoring of the water quality.
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.

What to expect from our system:

- **Communication**
  Flexibility according to the customer’s given communication system (Profibus-DP, Profinet, CAN open, Device net, Fieldbus AS Interface and Interbus)

- **Parameterization**
  Adjustable sampling routines for setting up measuring and flushing times according to customer’s requirements.

- **Data logging**
  Digital documentation of the measured values for trend analysis.

- **Different designs**
  Stand-alone unit with control module (plug & play) or hardware bundle (integration by the customer) available.

Valve island
Type 8640
Modular set up enables a high number of pressure vessels.

Conductivity meter
Type 8222
Measured values:
- conductivity
- sample flow
Options:
- turbidity, chlorine, pH, SAC254 ....