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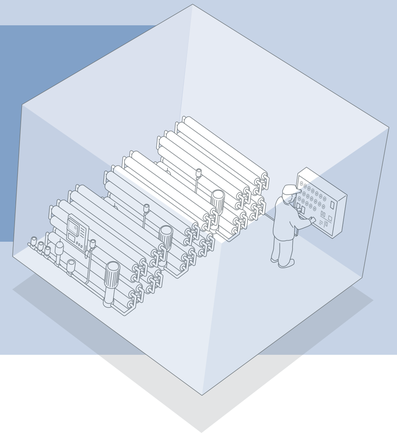
Bürkert Fluid Control Systems
Christian-Bürkert-Straße 13-17
74653 Ingelfingen
Germany

Tel. +49 (0) 7940/10-0
Fax +49 (0) 7940/10-91-204

info@burkert.com
www.burkert.com

Water Treatment
Reverse Osmosis Systems

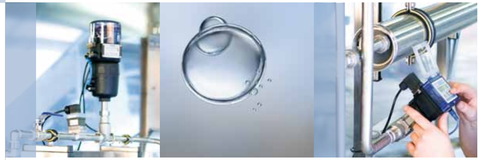


bürkert
FLUID CONTROL SYSTEMS

Fast forward to Reverse Osmosis

In the competitive field of reverse osmosis, purity is expected. Customers are concerned about life-cycle costs and strategies for monitoring percentage reject and ratio efficiency. In solutions from dialysis water and laboratory water to power generation boiler supply we are known for supplying the highest quality isolated solenoid valves, precise and reliable flow meters and accurate conductivity and pH instrumentation. We supply our reverse osmosis clients with more than just components. We cooperate to produce cost effective control subsystems.

Our regional Systemhaus teams can provide rapid prototypes and our global clients trust us to supply the right stuff, fast.



More than the Sum of its Parts: Individual System Solutions by Bürkert.

In reverse osmosis processes different process values are having an influence to the production volume and the life time of the membranes. Modular measuring concepts can help to optimise the design according to the customer needs. Bürkert provides individual solutions for maximum of customer benefit.

Local display needed?

1 **Type 8619 multiCELL (with sensors 8200, 8220, 8030, 8314)**
Multichannel transmitter with PID control as option. Measurement of pH, ORP, conductivity, flow and pressure. All major process values in RO skids–including %reject, flow rates–can be displayed and transmitted via 4-20 mA or free programmable switches for warning, maintenance, alarm. At the big backlit grafic display up to four textlines each page or process value diagrams can be indicated based on customised setting.

2 **Type 8175 Level transmitter**
Ultrasonic level transmitter with local display. Available as compact or remote solution with output 4-20 mA and optional 2 alarm switches.

Real blind transmitters preferred?

3 **Type 8202**
pH or ORP measurement with output 4-20 mA with temperature compensation and 1 or 2 point calibration.

4 **Type 8222**
Conductivity transmitter with output 4-20 mA and integrated temperature compensation (adjustable compensation rate).

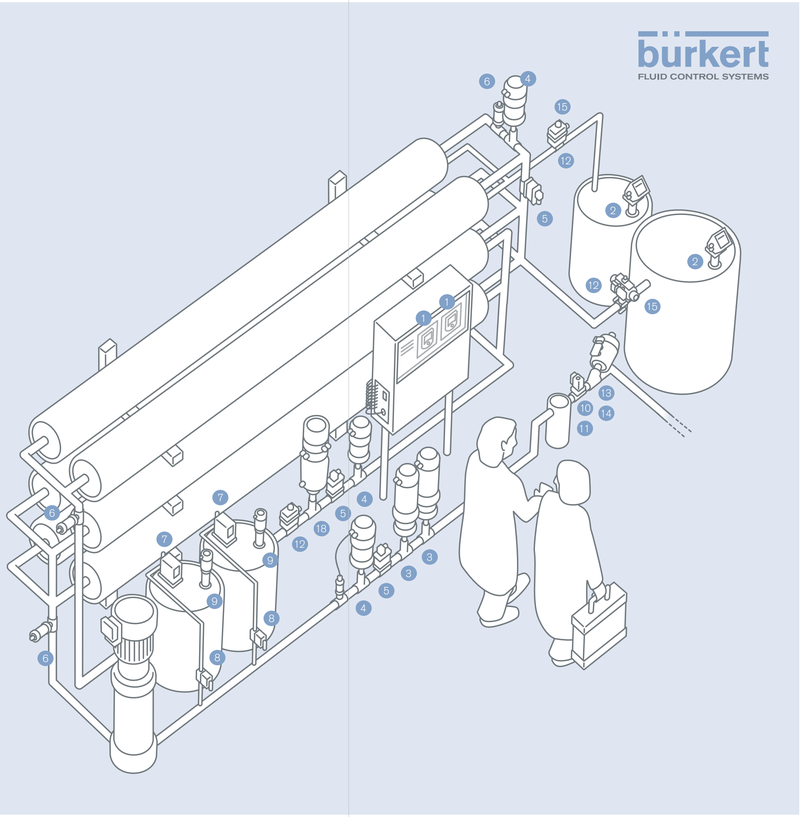
5 **Type 8020/8030 Flow transmitter**
Paddle wheel flow transmitter with pulse output for continuous flow measurement. Fitting materials made of PVC, PP, PVDF, SS and brass ranging in sizes from DN15-350/DN8-50.

6 **Type 8314**
Pressure transmitter with ceramic pressure cell with output 4-20 mA.

7 **Type 7800 Dosing pump**
Digital dosing pump for continuous dosing through a microprocessor-controlled stepper motor. Works at the maximum stroke length with a high degree of accuracy. Multi language menu.

8 **Type 0124 Solenoid valve**
Direct-acting 2/2 or 3/2 way solenoid valve with a wide range of circuit functions. The magnetics and the medium are separated by a diaphragm system. The valve is fast acting and a long service life, even in non-lube conditions and also works under vacuum conditions. The perfect solution for dosing of aggressive chemicals.

9 **Type 8110**
Tuning fork level switch with transistor output without any moving parts.



Electricity is your power source only?

10 **Type 2672 Butterfly valve**
Butterfly valve with electrical actuation DN50-300. Available as cast or PVC version. Actuation with adjustable limit switches. Actuator as ON/OFF or continous control.

11 **Type 6213 Solenoid valve**
Servo assisted 2/2 way solenoid valve allows partial opening of the diaphragm with 0 psi. Differential pressure perfect for standard potable water applications. Brass or SS body with sizes ranging from DN10-40 and 0-10 bar.

12 **Type 8804 Ball valve**
Ball valve with electrical actuation DN10-50. Available as SS or PVC version in 2/2 or 3/2 way versions. Actuator as ON/OFF or continous control.

Pneumatic actuation is your choice?

13 **Type 2000 Angle seat**
2/2 way process valve maintenance free nearly with „unlimited" lifetime. Housing in SS or brass from DN8-65.

14 **Type 2671 Butterfly valves**
Butterfly valve with pneumatical actuation DN50-300. Available as cast or PVC version. Suitable as ON/OFF or–with SideControl–as control valve.

15 **Type 8805 Ball valves**
Ball valves with pneumatical actuation DN10-50 as versions 2/2 or 3/2 way. Available as cast or PVC version. Suitable as ON/OFF or–with SideControl–as control valve.

16 **Type 6519 Pilot valve**
Pilot valve with NAMUR flange plate 3/2 or 5/2 way. Easy installation via NAMUR connection.

17 **Type 8640 Airline quick**
Automation solution for pneumatics. Valve island easy to integrate directly in cabinets with special cabinet flange.

18 **Type 8802GB Control valve**
Automated solution for concentrate/permeate flow ratio control. Also available with integrated PID process controller.