


# From idea to reality



# Welcome to our exciting world

Today, customers all over the world view Bürkert as a valued partner when it comes to working with fluids and gases. Why? Well, probably because we always think one step ahead, and that's not something we just started doing yesterday. Not only do we think ahead, we also think outside the box. For this reason, we have established ourselves as a provider of integrated system solutions, a dedicated consultant, and a manufacturer of leading technology products. Our bundled expertise is truly unique in the market — just as unique as the experience we've accumulated in more than 60 years of passionate work.



## **What we build on:**

# EXPERIENCE


We bring together over 60 years of applied knowledge, theoretical expertise and all-round experience in the field of Fluid Control Systems. We at Bürkert have always taken care to ensure that the insights gained in working on innumerable products and projects are passed on, not only among our over 2,100 employees in various locations and divisions, but also from one Bürkert generation to the next. We focus all our curiosity, passion and commitment on one goal: to provide solutions that take your company that essential step forward.



## **What sets us apart:**

# CLOSENESS

To engineer expert solutions with added value, you need to be close to your customers and their problems — as we are. For us at Bürkert, closeness means personal closeness. We listen to your every word and do everything in our power to devise and implement the best solution for your needs. Closeness also applies in a technical sense. We know exactly what role our products play in your complex processes. Last but not least, we understand closeness in a geographical sense: Our global presence with over 35 branches and seven production sites allows our customers to draw on technological innovations from all over the world.



## **What drives us forward:**

# COURAGE

We aim to surpass your expectations. To make it happen, one quality is vital: courage. The courage not just to look forward but to move forward, to challenge conventional wisdom, to do things differently, to tackle problems others think are impossible and to never give up when the going gets tough. We demonstrate this courage time and again. Our wealth of experience is the solid platform on which our courage is based. It allows us to turn courage into creativity, convert off-beat ideas into surprising innovations and put together individual components to create completely new systems that open up unexpected possibilities.



# Bürkert's products achieve distinction in more senses than one

Processes involving fluids and gases are fascinating and are constantly leading us to develop new products that can handle tasks even better. We are one of the few suppliers in the market who can supply the entire loop. Our product range extends from solenoid valves and pneumatically controlled process valves to sensors for level, flow, pressure, pH, conductivity and temperature.

We work constantly in a goal-oriented manner to meet market requirements and specifications to be at the leading edge of product development, so that you can safely rely on us as a supplier.

## **Innovative solutions and added value for you**

You can think of Bürkert as a supplier that simply delivers good products. We are pleased to be able to live up to this role, but what makes us really proud is when you think of us as a partner, so that we can achieve better solutions and results together, no matter how complex the application. Even if your problem appears insurmountable, why not challenge us to find a solution?

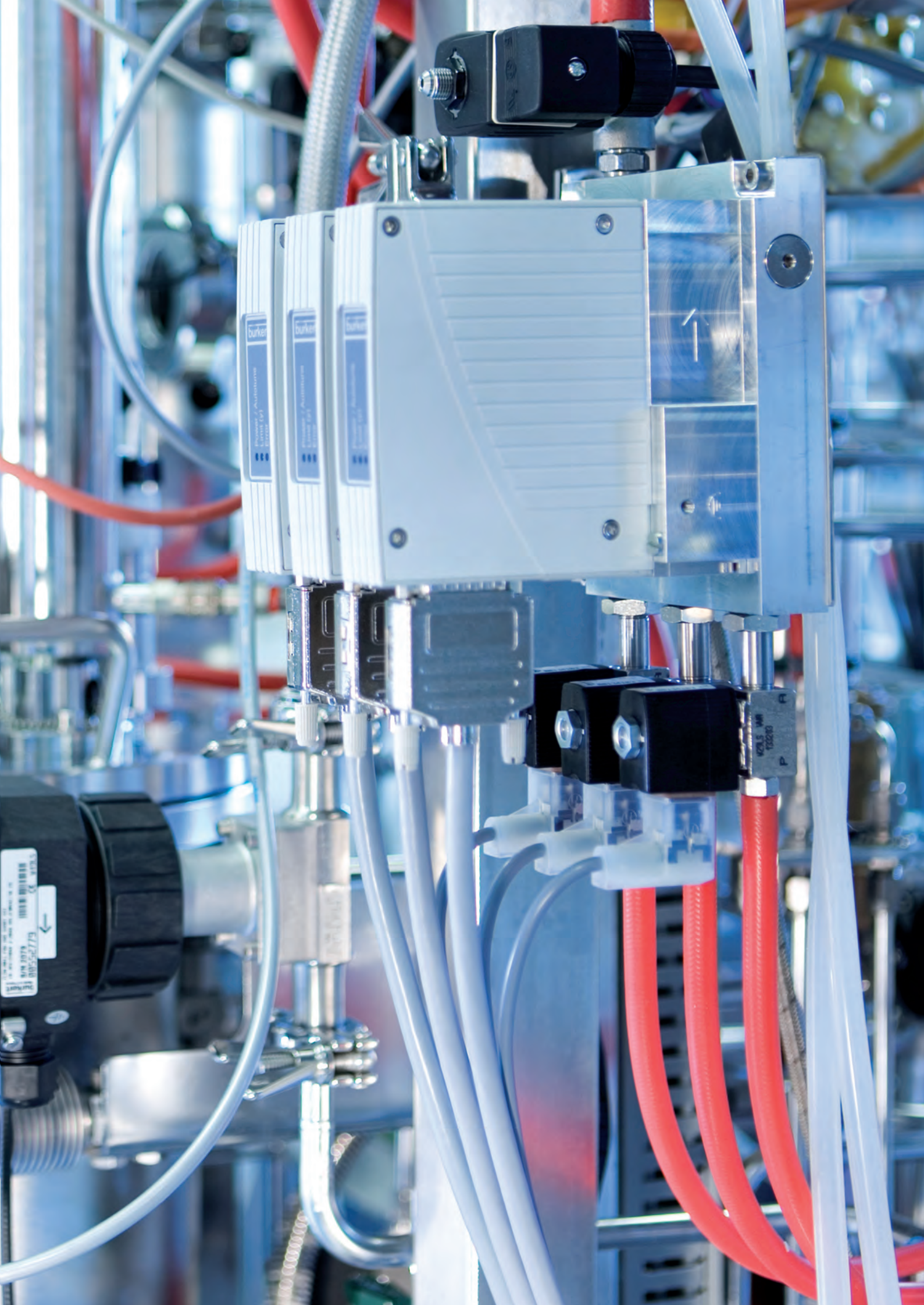
Set our courage and experience to the test: it is the hard challenges that drive us and move both you and us forward. Regardless of whether we are looking at a single component or a pioneering new system for a complete monitoring and regulation project, we are always at your side with an extensive range of services, from consultancy and the engineering of products or complex systems to installation, testing and after sales service.

**In short: Bürkert is with you all the way.**



The image shows a laboratory environment. In the background, two scientists wearing white lab coats and safety glasses are working. The foreground is dominated by a complex, industrial-grade fluid control system. This system includes a prominent stainless steel vertical cylinder with a black top cap, connected to various pipes, valves, and a black solenoid valve. A white tube is connected to the bottom of the stainless steel cylinder. The overall scene is brightly lit, with a blue-tinted background.

SINGLE COMPONENTS TO  
COMPLETE SOLUTIONS



## Solenoid valves, universal



### Modes of operation

#### Direct acting

DN 0.2-25 mm  
PN VAK-25 bar  
FKM, EPDM, NBR  
Brass, stainless steel  
6-400 V, AC/DC

#### Servo-assisted

DN 8-50 mm  
PN 0.2-16 bar  
FKM, EPDM, NBR  
Brass, stainless steel  
6-400 V, AC/DC

#### Linked servo operated

DN 8-50 mm  
PN VAK-16 bar  
FKM, EPDM, NBR  
Brass, stainless steel  
24-230 V, AC/DC

### Type

**6011**  
**6013**  
**6027**  
**0330**

**5281**  
**5282**  
**6211**

**6213 EV**  
**0290 EV**  
**6240**

## Solenoid valves, specific



### Application areas

#### Compressed air and gases

DN 6-50  
PN 1-50  
PTFE, FKM, EPDM, NBR  
Brass, stainless steel  
12-230 V, AC/DC

#### Steam 160°C (250°C)

DN 2-50  
PN 0.5-10 (16)  
PTFE, steel, FKM, EPDM  
Brass, stainless steel  
24-230 V, AC/DC

#### Analysis

DN 0.1-3 mm  
PN VAK-10 bar  
FFKM, EPDM, FKM  
PEEK, PVDF, PP  
12-24 V DC

#### Chemicals

DN 1-25  
PN VAK-16 bar  
FKM, EPDM, PTFE  
PVC, PP, PVDF  
12-230 V, AC/DC

#### Special valves

Vacuum  
Low temperature  
High pressure

#### Cable plugs

With LED  
With varistor  
With timer

### Type

**5404**  
**6240**

**0255**  
**0407**  
**6240**

**6624**  
**6626**  
**6627**  
**6126**  
**6128**

**0117**  
**0121**  
**0124**  
**0131**

**0344**  
**2610**  
**5404**  
**2400**

**2506**  
**2507**  
**2508**  
**1077**

## Process valves



### Valve types

#### Pneumatic

##### angle seat valve

DN 8-65  
PN 0-16  
PFTE, bronze, 316 L  
Threaded, flange,  
welded connection

##### Pneumatic globe valve

DN 8-100  
PN 0-16  
PTFE, 316 L  
Threaded, flange,  
welded connection

#### Pneumatic

##### control valve

– angle seat valves  
– globe valves  
– diaphragm valves

#### Diaphragm valves

– manual valves  
– pneumatic valves  
– T-valves  
– tank bottom valves  
– block valves

#### Robolux

– diaphragm valves  
– manual valves  
– pneumatic valves  
– block valves

#### BBS

Hoses  
Non-return valves  
Couplings

#### TopControl

For fitting on angle seat,  
globe and diaphragm valves  
On/off top with pilot valve  
with inductive sensors  
for digital/ASi-bus

#### TopControl

For fitting on control,  
angle seat, globe and  
diaphragm valves  
Positioner  
Positioner with PID  
4-20 mA/field bus

#### SideControl

Positioner  
Positioner with PID  
4-20 mA/field bus

#### Quarter Turn

Butterfly valves  
Ball check valves  
Manual valves  
Automatic valves  
Motor actuators

#### Plastic valves

Diaphragm valves  
Ball check valves  
Butterfly valves  
Manual valves  
Automatic valves

### Type

**2000**  
**2100**  
**2000 INOX**  
**2002**

**2012**  
**2101**

**23XX**  
**27XX**

**3233**  
**2031**  
**2032**  
**2033**  
**2034**

**2035**  
**2036**  
**3236**

**BBS 4**  
**BBS 10**  
**BBS 25**

**1062**  
**8690**  
**8691**  
**8695**

**8692**  
**8693**  
**8694**

**8792**  
**8793**  
**8794**  
**8635**

**2671**  
**2651**  
**2654**  
**2051**  
**3003**

**2030**  
**2657**

## Pneumatics



### Valve types

#### Singular valves

M5-G 1,1/2"

#### Banjo valves

Ø6 push in

G 1/8"

G 1/4"

#### Namur valves

Ø6 push in

G 1/4"

#### Valve units

Bus systems

I/O systems

### Type

6012  
6014  
0330  
0340  
6518/19

6012  
6014

5470  
6519

8640  
8644  
8650

## Mass flow/proportional valves



### Valve types

#### MFC/MFM

Gas/air flow controller

Gas/air flow meter

#### LFC/LFM

Liquid flow controller

Liquid flow meter

#### Proportional valves

DN 0.02-25

#### Driver for proportional valves

Compact controller

PWM

PID

### Type

8700  
8702  
8712  
8626  
8006

8708  
8709  
8718  
8719

2822  
2824  
2835  
6223

8605  
8611

## Flow sensors and controllers



### Measuring methods

#### Paddle-wheel

DN 2-100 (400)  
PN 0-16 bar  
FKM, EPDM  
PVC, PP, brass, 316 L  
4-20 mA, pulse, counter, batch

#### Gearwheel

DN 0.5- 100  
PN 0-16 bar  
FKM, EPDM  
Aluminium, 316 L  
4-20 mA, pulse, counter, batch

#### Magnetic inductive

DN 2-100 (400)  
PN 0-16 bar  
FKM, EPDM  
304, 316 L  
4-20 mA, pulse, counter, batch

#### Ultrasonic

DN 15-25  
PN 0-16 bar  
Brass  
4-20 mA, pulse

### Type

**8025**  
**8035**  
**8030**  
**8326**  
**8036**

**8071**  
**8076**

**8045**  
**8056**

**8081**

## Sensors and transmitters



### Measuring parameters

#### Pressure

0-100 bar

#### Temperature

-40--+125°C

#### Level

– tuning fork  
– ultrasonic  
– radar  
– microwave

#### Analysis

– pH  
– conductivity  
– Redox

#### Transmitters and controllers

Single channel  
Multi-channel  
PID

#### Special meters

– pH  
– conductivity  
– Redox

### Type

**8311**  
**8314**  
**8323**  
**8327**  
**8326**

**8400**  
**TST001**

**8110**  
**8181**  
**8176**  
**8137**  
**8185**

**8202**  
**8220**  
**8222**  
**8206**

**8611**  
**8619**  
**8620**

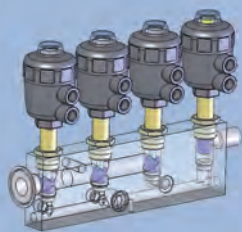
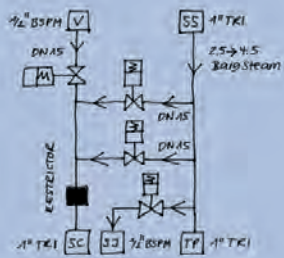
**8221**  
**8201**

# Customised system solutions

## Compact, modular and failsafe

Bürkert's system solutions offer our customers significant synergy advantages. If you can't find a valve that is suitable, or if you are thinking of integrating several valves and other functions into one unit or system, our system department can offer support to solve the problem.

The system department can design unique valves and units, adapted to your project. Our system department in the UK has great experience and works closely with our system house in Germany, so that together we can solve even very complex tasks as well as being able to offer simple, elegant solutions.



# Control boxes, valve panels I/O boxes, electrical cabinets, valve casings...

**We have many names for the things we love**, but what is common to all of them is that Bürkert knows and understands them. Bürkert offers to fit both single valves and complete units and valve systems in panels and boxes.

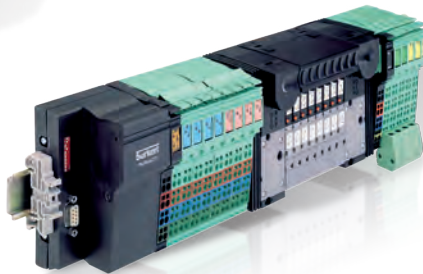
We have our own workshop and extensive experience of design, assembly, fitting and testing of both small and simple, to large and complex systems. A common feature of all of these is that we are on hand throughout and can support and advise our customers on the optimum solution.

We work with all the known suppliers and distributed I/O systems, and our valve modules can be integrated directly into the I/O systems, giving great flexibility and also the possibility of direct connection to a bus system. The valve modules can also be installed in a classic hard-wired system, and we are also able to deliver modules for installation in hazardous areas.

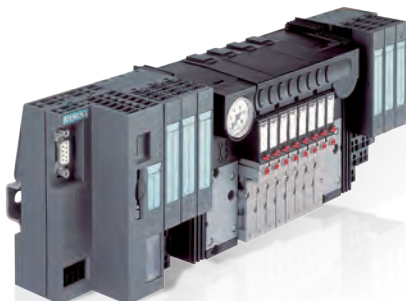
Try us next time a process installation requires a pilot valve control in a control box, valve panel, I/O box or...



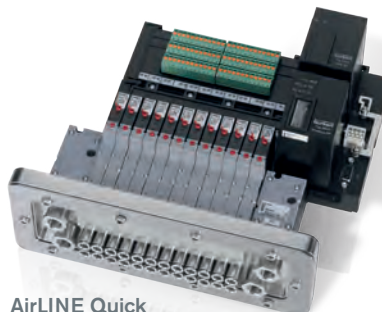
Wago 750 System



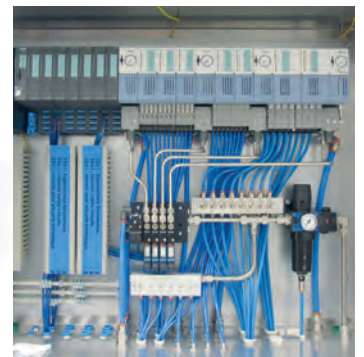
Phoenix Contact Inline System



Siemens ET-200 S



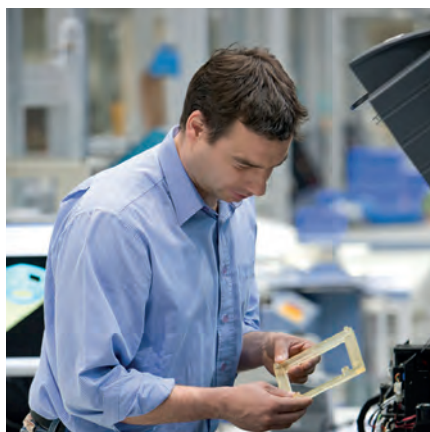
AirLINE Quick





**bürkert**  
FLUID CONTROL SYSTEMS

## Total solutions are many things

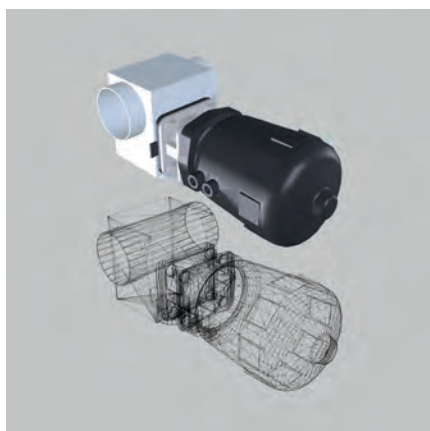


### Added value for our customers

At Bürkert we take the overall view and want to give our customers the complete optimum solution. As well as offering our extensive experience in the choice of product or solution for your task, we can also offer assistance with your logistics, e.g. marking your delivery with your own label, packing it in your own packaging, or possibly carrying out partial assembly.

### Service

We can provide support for commissioning, maintenance and service, and are happy to assist with user instruction in our products. In short, we can contribute to your process at all stages, so that you receive the optimal overall solution.



### Get 3D CAD drawings of your Bürkert products

As an extra service, we offer our customers direct access to 3D CAD drawings via our PARTserver. The PARTserver can generate a large number of CAD formats, for example AutoCAD, Catia 2D/3D, Intergraph EMS 3D, Mechanical Desktop 3D, Pro/Engineer 3D, SolidWorks 2D/3D and many neutral formats, for example DWG 2D/3D, DXF 2D, IGES 2D/3D MI3D, SAT 3D, STEP AP203/214 3D.

Access to the PARTserver is via [www.burkert.co.uk](http://www.burkert.co.uk).

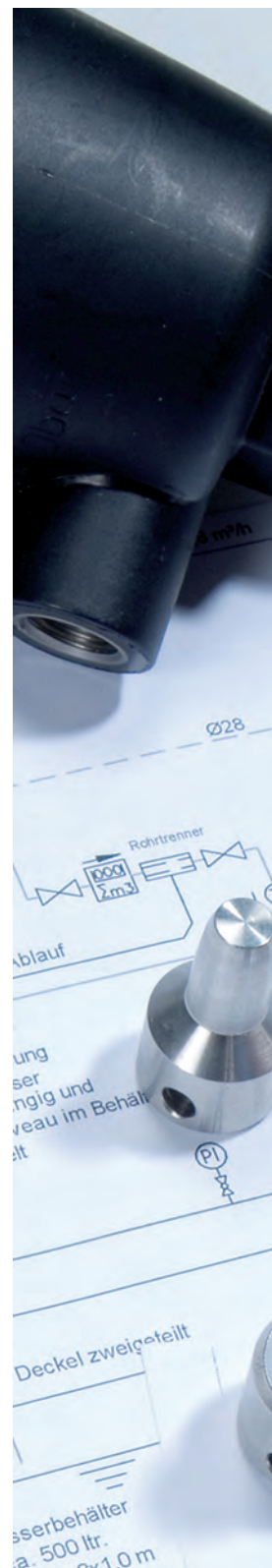
If you can't find what you're looking for or if you have any questions about 3D drawings on our PARTserver, you are welcome to contact our sales department on tel +44 (0) 1285 648 720.



### Licences, standards and certificates

Bürkert is an international company with customers all over the world. We have a comprehensive range of approvals and can satisfy a long list of the norms and standards that our customers demand. This applies both to customers selling products on the domestic market and to those customers with major exports worldwide.

We also offer certificates for materials and surfaces as well as test certificates, including customer-specific calibration, test and quality certificates.



Bürkert Fluid Control Systems  
Fluid Control Centre, 1 Bridge End, Cirencester  
Gloucestershire, GL7 1QY United Kingdom

Tel: +44 (0) 1285 648 720  
Fax: +44 (0) 1285 648 721

[sales.uk@burkert.com](mailto:sales.uk@burkert.com)  
[www.burkert.co.uk](http://www.burkert.co.uk)