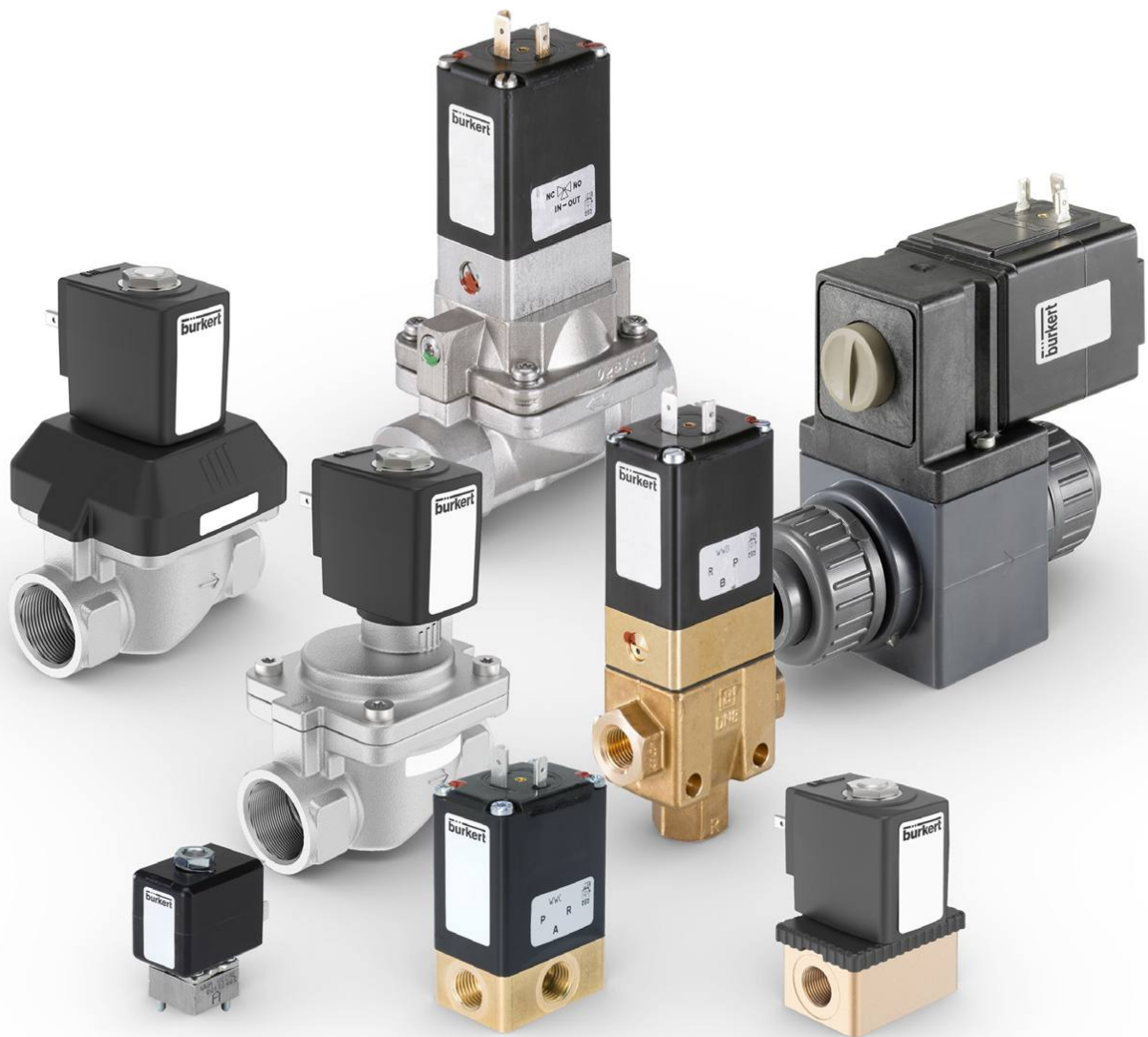




Solenoid valves

Product range overview

Pioneers of Flow.

bürkert
FLUID CONTROL SYSTEMS

Contents

Complete range from a single source	4
Bürkert solution guide	6
Typical pressure profile during opening and closing processes	8
Approvals	9
Materials	10
Coil technology	11
Kick and Drop	14
Direct-acting valves	16
2/2-way plunger valve	18
3/2-way plunger valve	22
Toggle valve	26
Pivoted armature valve	28
High-pressure valves for hydrogen applications	31
Servo-assisted valves	32
Diaphragm valve with plunger pilot control	34
Coupled diaphragm valve with plunger pilot control	36
Servo-piston valve with plunger pilot control	40
Fixed coupled piston valve with plunger pilot control	42
Diaphragm/piston valve with armature pilot control	46
Fuel gas approvals	49
Solenoid valves at a glance	50
Explosion protection approvals	52
Customisation & development	54
Automation & digitalisation	56
Accessories	58



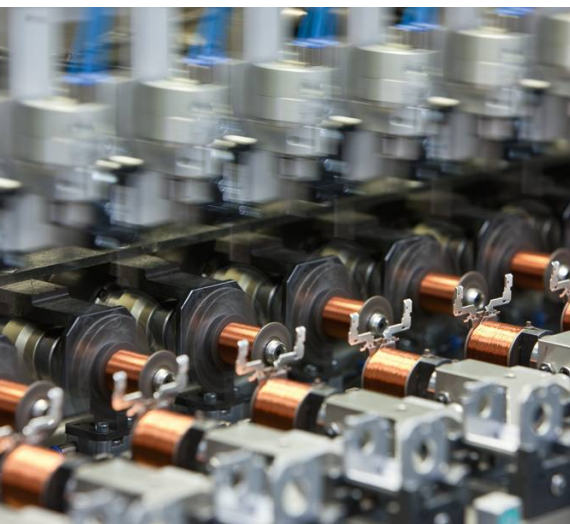
Why Bürkert is your partner

When liquids or gases need to be measured, controlled, and regulated with precision, Bürkert is by your side. For decades, our solenoid valves have been used wherever reliability matters – from media control in laboratory devices and liquid dosing in the pharmaceutical industry to mixing and filling in the beverage industry. What sets us apart: technological expertise, innovative concepts, intelligent design and flexible material combinations. This allows us to tailor every valve and every combination precisely to your requirements – for durable, efficient and perfectly fitting solutions you can rely on.

Complete range from a single source

Vertical integration with know-how

We offer you the complete range of services – from selecting the right product to consulting, design and completion, right through to commissioning. Benefit from our expertise in production and development. Our qualified engineers are continuously working on optimising fluidics. Thanks to our high level of vertical integration, we can respond flexibly to specific customer requirements and produce components quickly and independently.



Coil manufacturing

Reliable quality through in-house production

In Gerabronn, we manufacture our coils ourselves – from winding to testing. This ensures consistently high quality and traceability. Our machines process wires thinner than a hair, with windings up to 4 km in length. Depending on requirements, various encapsulating materials are used. Each step is followed by an automatic test. We also produce custom designs in terms of power and voltage – tailored precisely to your valve.

Mechanical production

Precision in metal and plastic – directly at Bürkert

At our Criesbach location, we process metals and plastics by milling, turning, welding, forming and injection moulding. For applications in medicine and analytics, we use suitable materials to ensure surface quality and durability. Complex shapes are created directly in our own tool shop – quickly, flexibly and precisely tailored to your requirements.



Guaranteed quality

Every component tested – every valve ready for use

Before series production begins, we test products intensively – according to standards and specific requirements. Our UL laboratory has been accredited since 2014. Production begins after approval. Coils and fully assembled valves undergo complete electrical and mechanical testing. This ensures that every valve delivered is ready for immediate use.



Dust-free environment

Clean installation for sensitive applications

Sensitive applications require clean conditions. We assemble in separate, filtered areas with minimal particle contamination. Specialised workplaces and cleaning procedures are available for additional requirements such as oil or grease-free surfaces. This is how we ensure the reliable functioning of our valves – even under special purity requirements.

Competent consultation

Individual performance – even beyond the product

Whether you need a single valve or a complex application, we provide personalised advice tailored to your specific needs. Thanks to our experience, modular product range and close coordination between development and production, we'll find the right solution together. We also support you with comprehensive services to make your processes more efficient in the long term.



Bürkert solution guide

Solenoid coils

Single coil
P. 12



Double coil
P. 13



Impulse coil
P. 12

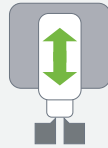


Impulse double coil
P. 13

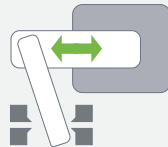


Direct-acting valves

2/2- and 3/2-way plunger valves
P. 18, P. 22



2/2- and 3/2-way rocker arm valves
P. 26



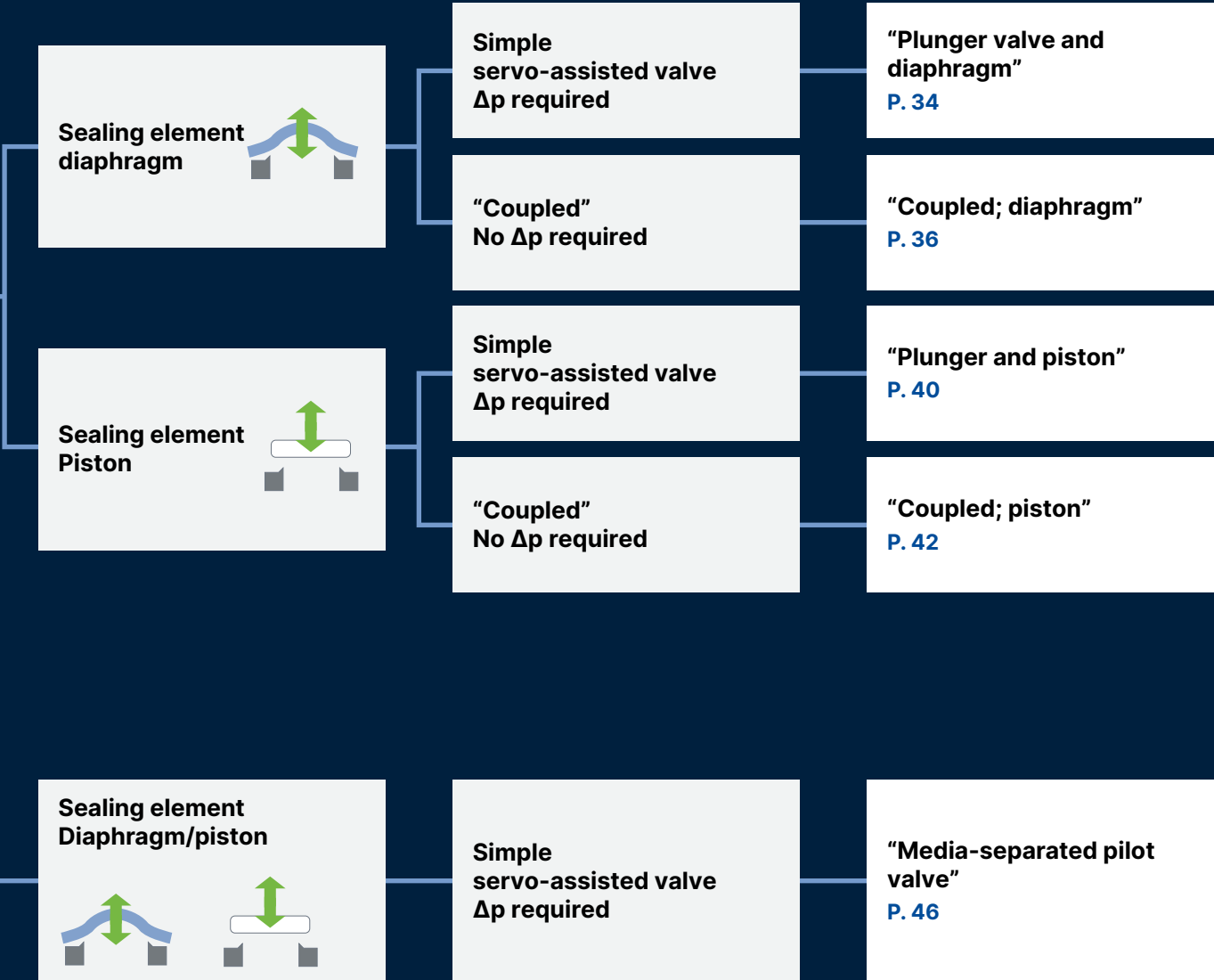
Pivoted armature valves
2/2-way and 3/2-way
P. 28



Servo-assisted valves

2/2-way plunger pilot valve

3/2-way media-separated pilot valve



Typical pressure profile during opening and closing processes

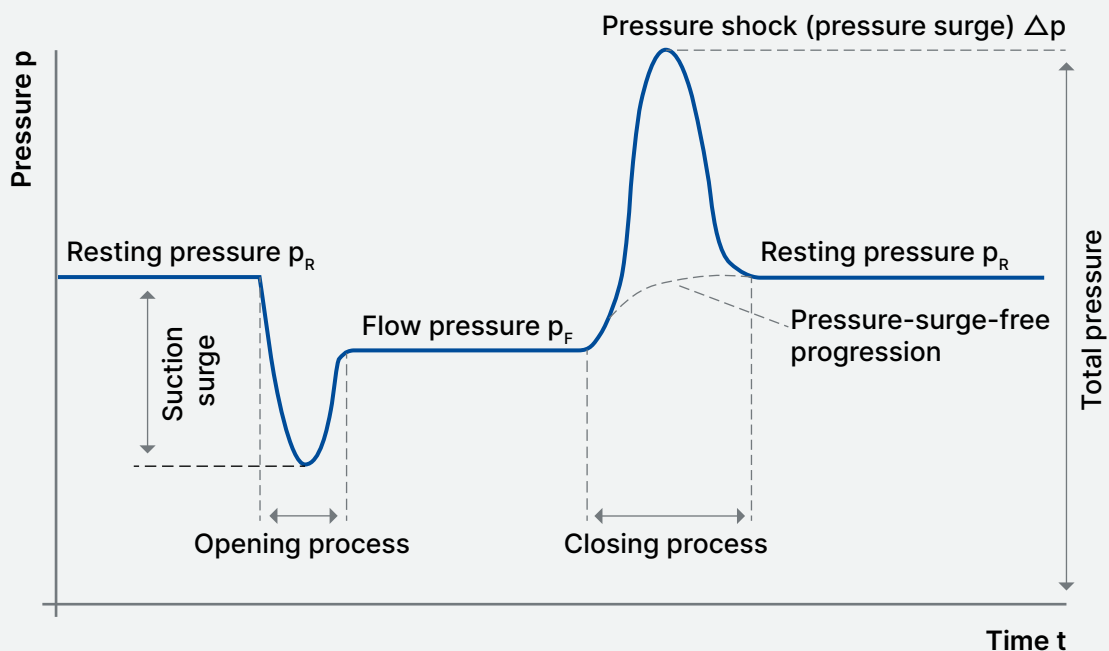
Opening or closing a valve always has a brief dynamic effect on the pressure conditions within a piping system. The extent of the change in pressure amplitude largely depends on the physical parameters of static system pressure, hydrostatic pressure, pipe cross-section, temperature, mass of the medium, and the opening or closing behaviour of the valve. While the physical facts are widely known, the opening and closing behaviour of a valve is a variable that is difficult to calculate. However, the effects of excessive pressure amplitudes (pressure surges) within a system can be serious. Sound effects and vibrating pipelines are the most harmless phenomena in this context. Pressure surges can cause up to 36 times the nominal pressure, thereby damaging measurement technology, pipelines, or other shut-off devices. The required plant availability can be increased by closing-damping valves with reduced pressure amplitude during closing. At Bürkert, this is taken into account in the fluidic design of the valve interior design.

Vacuum shock

A vacuum impact occurs when a valve is opened quickly. Due to the inertia of the mass, the flow force builds up with a time delay. The pressure can drop to as low as 0 bar. The vacuum shock causes less noise and has little impact on the system, as it cannot exceed the actual operating or static pressure.

Pressure impact

A pressure surge occurs when a valve is closed quickly, as the liquid is abruptly decelerated. This causes pressure changes. This can result in pressures many times higher than the operating pressure, which can put strain on the system. Measurement technology such as pressure sensors is particularly sensitive to pressure surges. The optimised valve geometry of our valves, which we test in our laboratory, ensures low-impact operation and thus protects your system without restricting the flow rate.



Approvals

National and international approvals

Our valves have a wide range of national and international approvals in various areas from explosion protection and gas to pharmaceuticals and food, as well as shipping or fire protection in rail vehicles.

The QR code provides convenient access to an overview of our approvals.



→ [Solenoid valve approval overview](#)

Materials

Materials and resistance: the Bürkert resistApp

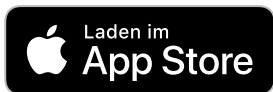
A wide range of materials is available to help you find the solenoid valve that best suits your requirements. These are divided into body and diaphragm/piston materials.

The convenient way to find the right media-material combination is via our resistApp. As an electronic resistance chart, it helps you search for compatible materials for a wide range of media and facilitates the selection of suitable materials when using Bürkert products.

The QR code takes you to the resistApp on our website as well as to the mobile app.



Bürkert resistApp



→ **Bürkert resistApp**

Coil technology

Electromagnets have been simple and reliable actuators for valves for decades. As actuators, they move the cores or magnetic cores in the valves without contact. Depending on the available main voltages, they are designed as direct current (DC) or alternating current (AC) coils. A distinction is also often made between 50 Hz and 60 Hz coils (for the North American market).

Increased performance through electronics

Pulse-width modulation

When actuating, the coil requires a large amount of force, as it must overcome the force of the return spring and the valve stroke (gap between armature and plunger). However, the more the gap is reduced by the movement of the core, the more excess force is generated. This excess force is dissipated as heat to the environment and costs valuable energy. Pulse-width modulation is used to avoid this effect. After a short inrush time, the coil is only supplied with a pulsed direct current that is just high enough to let the valve remain in the switched state. This saves energy and protects the coil from overheating.

Targeted overexcitation of a coil (Kick and Drop)

The magnetic flux (Φ Phi) and thus the force of a coil is proportional to the current flowing within the coil. During overexcitation, the coil is briefly energised beyond its continuous load limit. This causes an extreme increase in the magnetic field and force. The force is then often sufficient to switch twice the nominal pressure or twice the nominal diameter. Electronics ensure that the brief overexcitation lasts no longer than 500 ms and that the coil is not damaged. The switching cycles are approximately 6–10 switches per minute.

Difference between direct current and alternating current coils

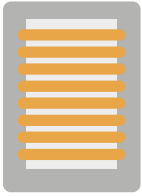
Direct (DC) and alternating current coils (AC) differ in terms of their performance data and behaviour due to the influence of frequency.

DC coil

- No humming
- No shading ring required
- Lower inrush power than AC coil
- Lower switching

AC coil

- Valve tends to hum
- Shading ring required
- More inrush power than DC coil
- High switching frequency leads to more self-heating
- A mechanically blocked core can lead to overheating and failure



Single coil

Setup

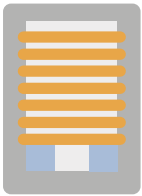
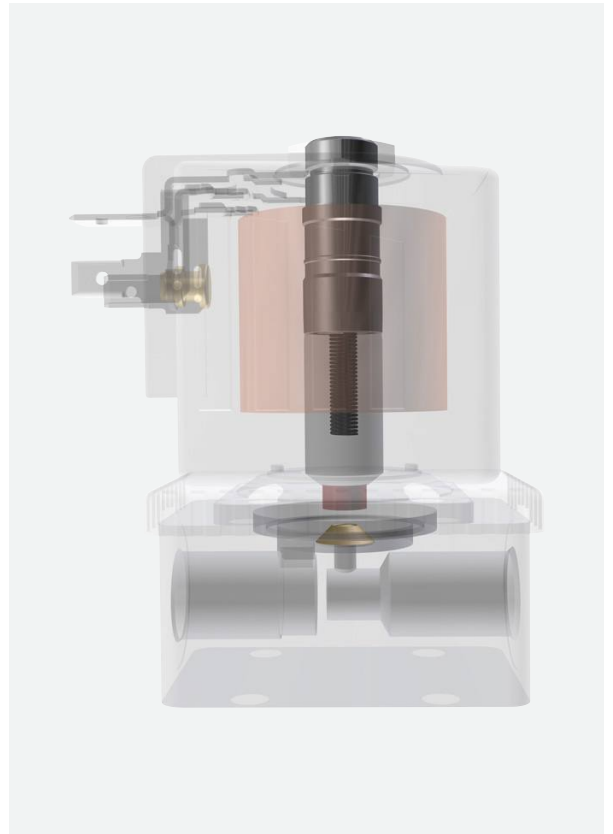
An enamelled copper wire wound around a coil reel is the simplest type of coil. Bürkert coils are always encapsulated with an insulating compound to ensure a high level of electrical and mechanical protection. The coils are wound with different wire thicknesses and numbers of turns depending on the required power (force) and frequency. The coils are designed for continuous operation (100% duty cycle).

Usage

90% of all solenoid valves are equipped with single coils.

Specifics

In addition to classic enamelled copper wire, anodised enamelled copper wires are also used for high temperatures up to 250 °C ambient temperature.



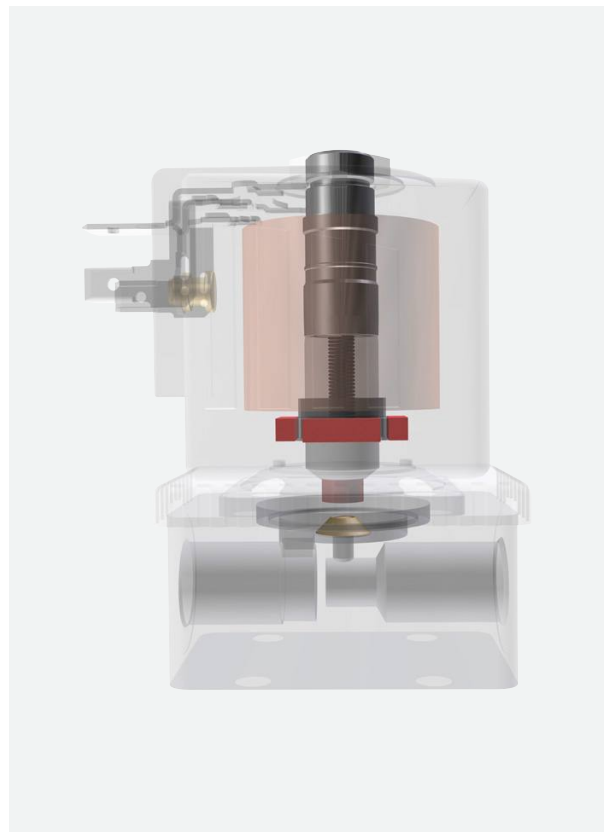
Single impulse coil

Setup

The structure of the single impulse coil is similar to that of the single coil. Impulse coils receive only a short impulse for control purposes to move the core to its end position. A permanent magnet ensures that the core remains in the end position after the coil is switched off. To switch the valve back, another pulse is required, which passes through the coil in the opposite direction, thereby releasing the core from the permanent magnet. The control unit must switch the polarity in this version.

Usage

Applications with low electrical power.





Dual coil

Kick and Drop

Setup

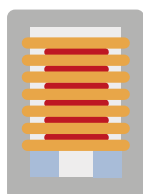
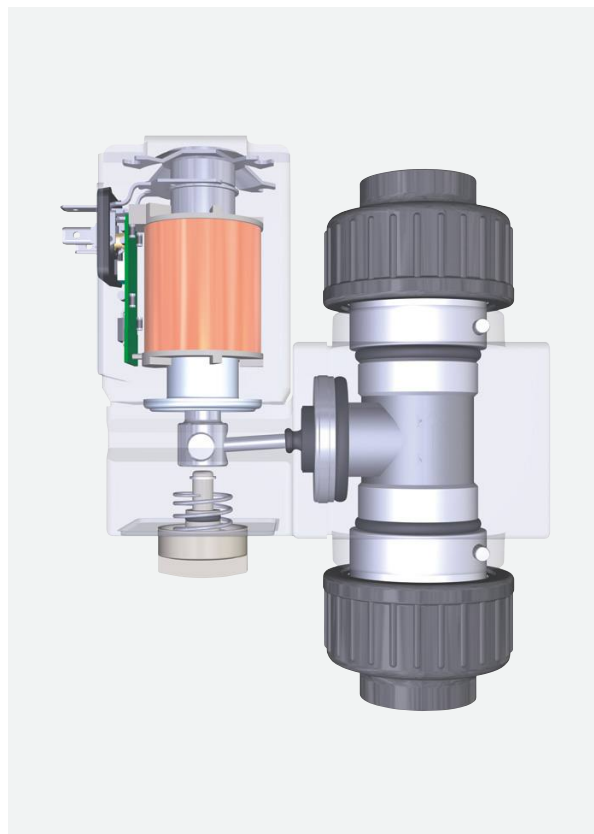
In this coil, two independent windings (inrush and holding windings) are wound according to the principle of a single magnetic coil. After a brief tightening torque, the electronics integrated into the encapsulating compound switch the holding winding in series with the inrush winding.

Usage

Direct-acting and hard-coupled pilot operated valves with large nominal diameter or high inrush power.

Specifics

Low power consumption, built-in rectifier for AC and DC operation, low self-heating, maximum 6 to 10 switching cycles per minute.



Double impulse coil

Setup

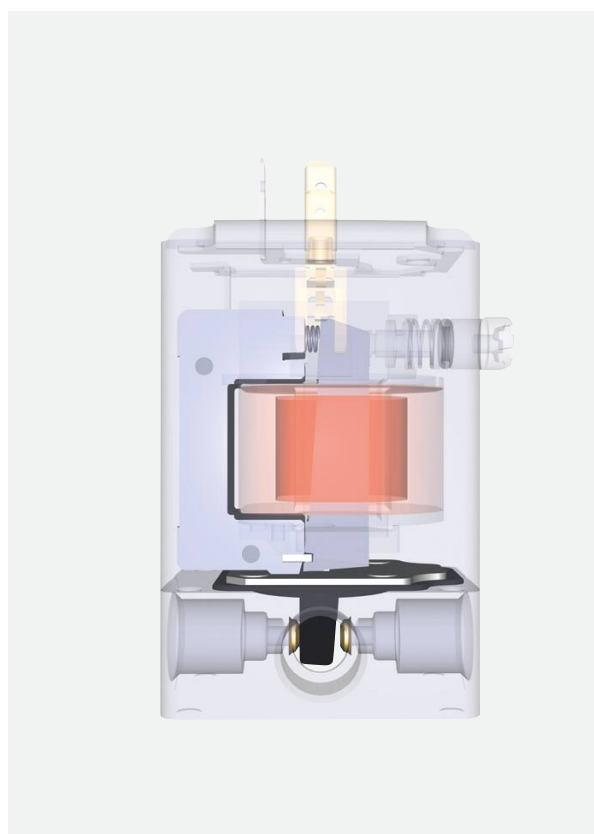
The two impulse coils are wound independently on top of each other according to the principle of the single coil. When a current pulse is applied, the first coil takes over the movement of the core and the magnetisation of the yoke. The residual magnetism (remanence) in the iron circuit holds the core in position when the coil is switched off. A pulse on the second winding counteracts the remanence and the core is moved to its original position.

Usage

Direct-acting pivoted armature valves.

Specifics

Low power consumption, no polarity switching by control, the coil has three connections (P1/N/P2).



Technology innovation

Kick and Drop

Energy-efficient coil technology

Kick and Drop is a concept developed by Bürkert for solenoid valve coils that combines high switching power with significantly reduced energy consumption in continuous operation.

In the first step, a short, powerful current pulse delivers the full inrush power to open the valve – this is the “Kick”. After approximately 0.5 seconds, a second winding takes over the holding current – with greatly reduced power consumption (“Drop”). This leads to a 200% increase in switching power.

The Kick and Drop technology supports both AC and DC voltage (50/60 Hz) and helps reduce the number of variants – ideal for warehousing, retrofitting and system integration.

- In operation: up to 93% energy savings thanks to reduced holding current
- In application: surface temperature up to 45 °C lower – safer, less calcification
- During installation: AC/DC compatibility reduces the variety of variants and simplifies planning
- For the life cycle: low noise and longer service life thanks to reduced internal heat generation



→ Solenoid valves with energy-saving solenoid with Kick and Drop electronics

Kick and Drop



Did you know?

The entire control unit – including rectifier and switching logic – is already integrated into Bürkert coils with Kick and Drop. Additional control components are eliminated. This saves space, simplifies installation, and increases operational safety.



**Extremely
energy-efficient**



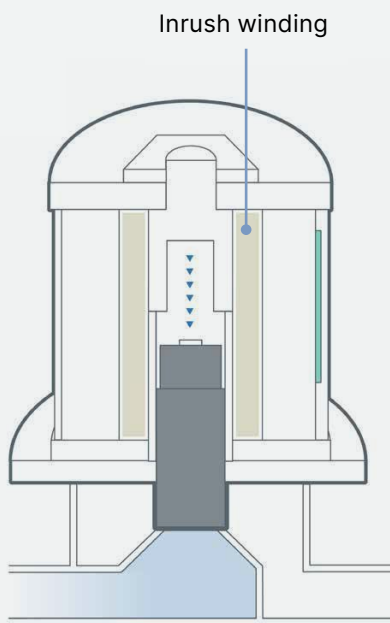
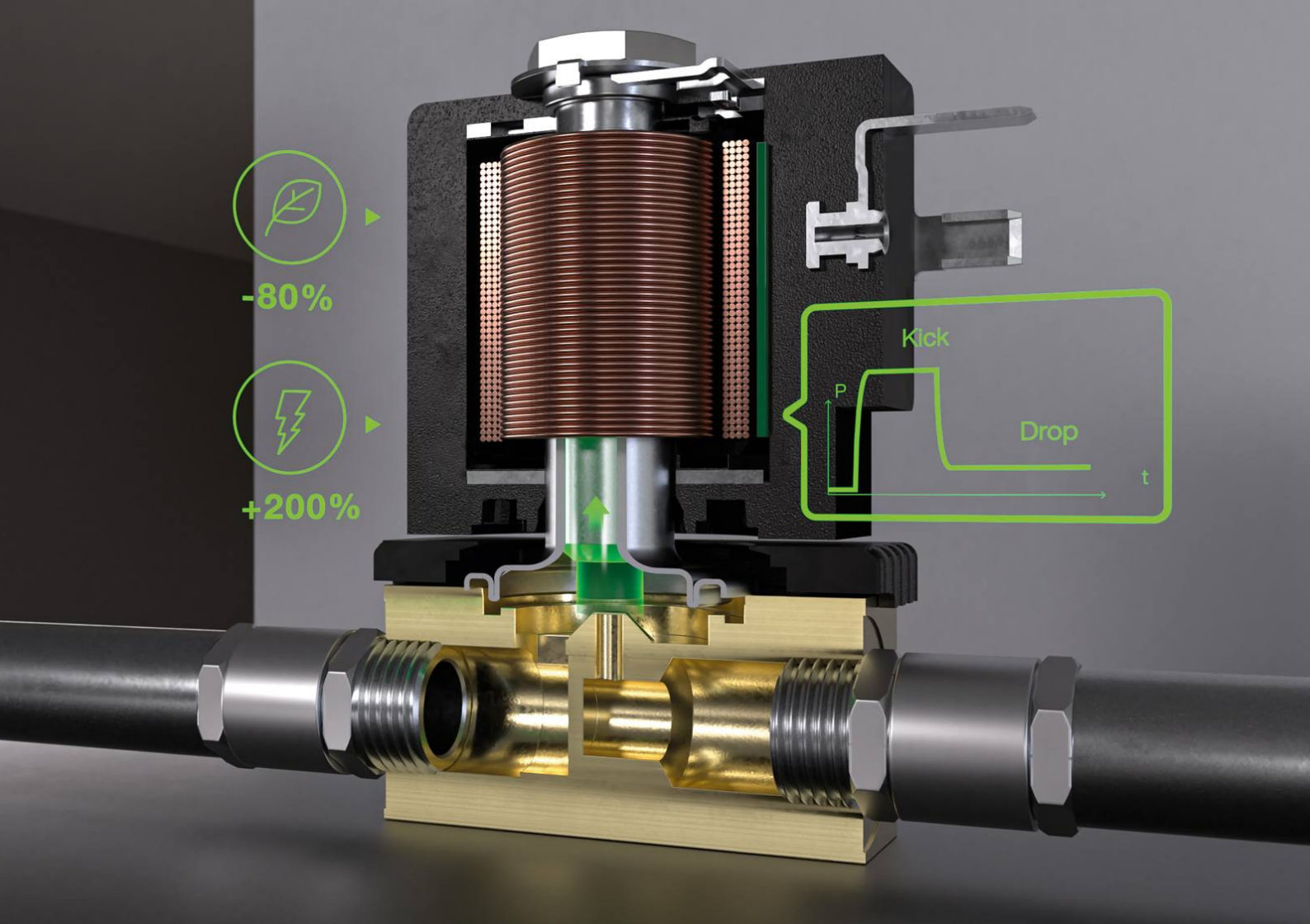
**Simplifies
planning
and
commissioning**



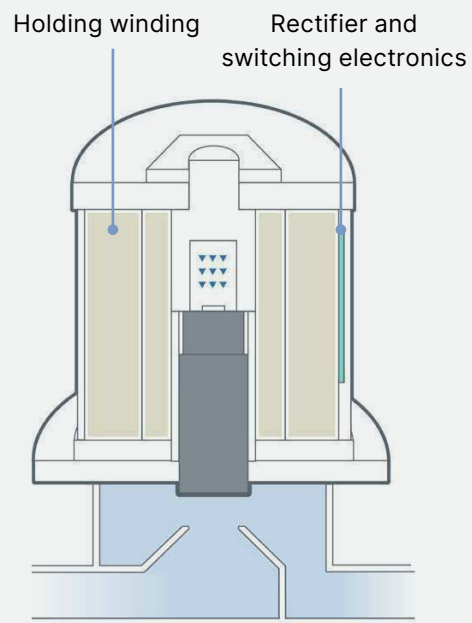
**High compatibility
and space savings**



Low noise



- 1 The overexcited inrush winding generates a very high starting power for about half a second.



- 2 The holding winding is then connected in series with the inrush winding. This drastically reduces the energy demand.

Direct-acting valves

Direct-acting solenoid valves provide a simple and effective solution for controlling liquids and gases. The magnetic field of the coil acts directly on the movable core to open and close the valve. The individual components work together perfectly at Bürkert, resulting in reliable, compact and fast-acting valves.

Coil

The coil forms the actuator system of the solenoid valve. Electrical energy is converted into guided magnetic force.

Core

The core is a precision turned part made of magnetic steel. It is moved by the magnetic field generated in the coil.

Return spring

The return spring presses the core onto the valve seat and seals it.

Electrical connection

A wide range of electrical connections is available. Many solenoid actuators are designed for degree of protection IP65.

Core guide tube

Precisely machined tube made of non-magnetic steel, in which the core is guided.

Shading ring

Only required for alternating current coils. The shading ring represents a coil with one turn that induces enough residual magnetism at the zero crossing of the alternating voltage to prevent the core from falling off.

Air gap and stopper

The stopper is part of the magnetic circuit and is firmly connected to the core guide tube. The air gap is the distance between the stopper and the core. It should not be present when the core is pulled in to generate an optimum magnetic force.

Encapsulation

The coil is encapsulated in polyamide or epoxy for protection against damage and humidity. Coil temperature and environmental influences determine the encapsulation.

Nominal diameter

The nominal diameter describes the inner diameter of the valve seat. It is the determining size for the flow rate calculation.

Process connection

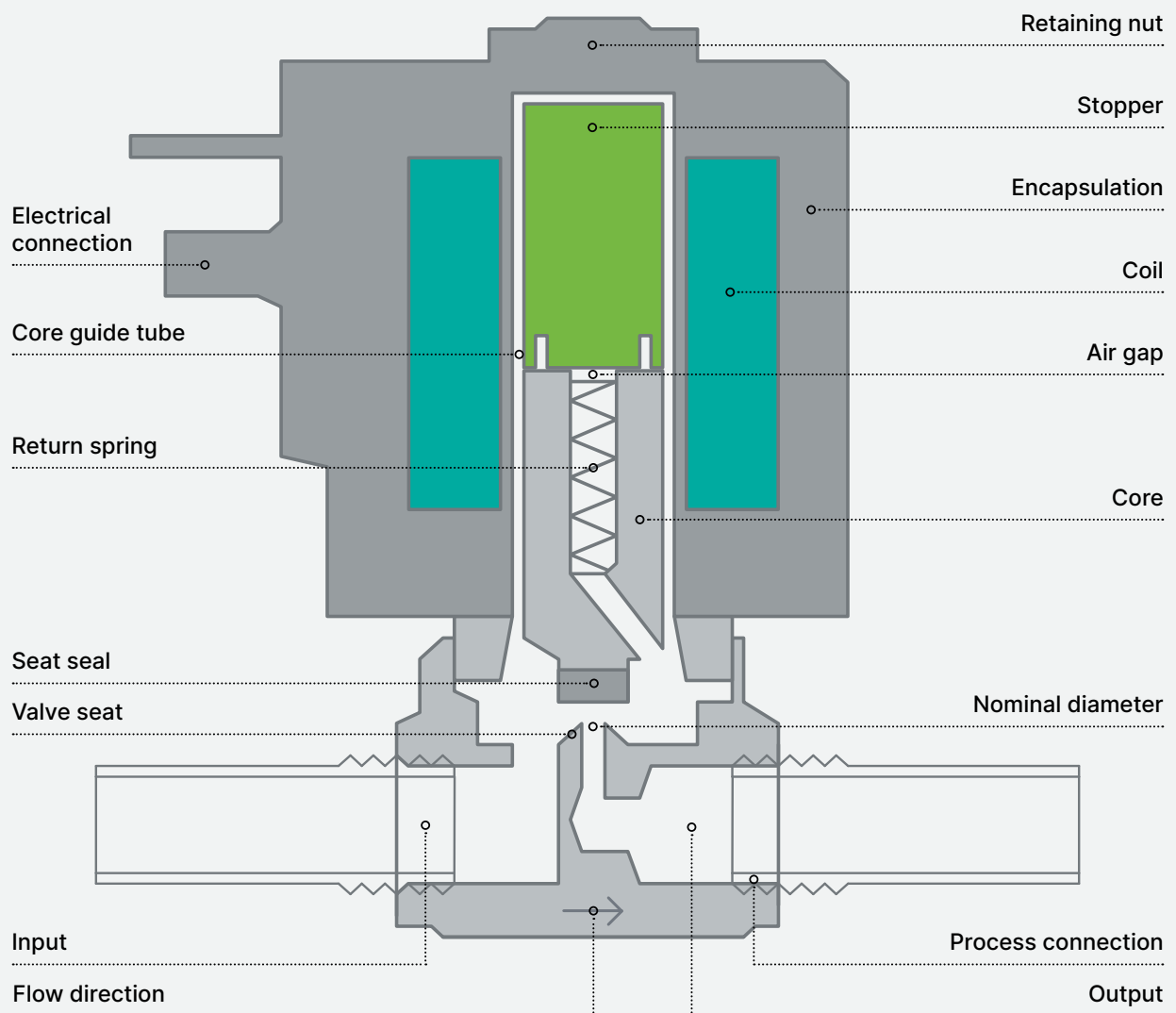
The process connection is used to connect the valve to the piping system. Standard DIN and ANSI connections as well as special variants are available.

Valve seat

The valve seat is the core of fluidics. It is precisely produced and shaped according to the sealing principle.

Seal

The seat seal is the heart of fluidics. It is always tailor-made for valve pressure, media temperature and chemical resistance.



2/2-way plunger valve

Function

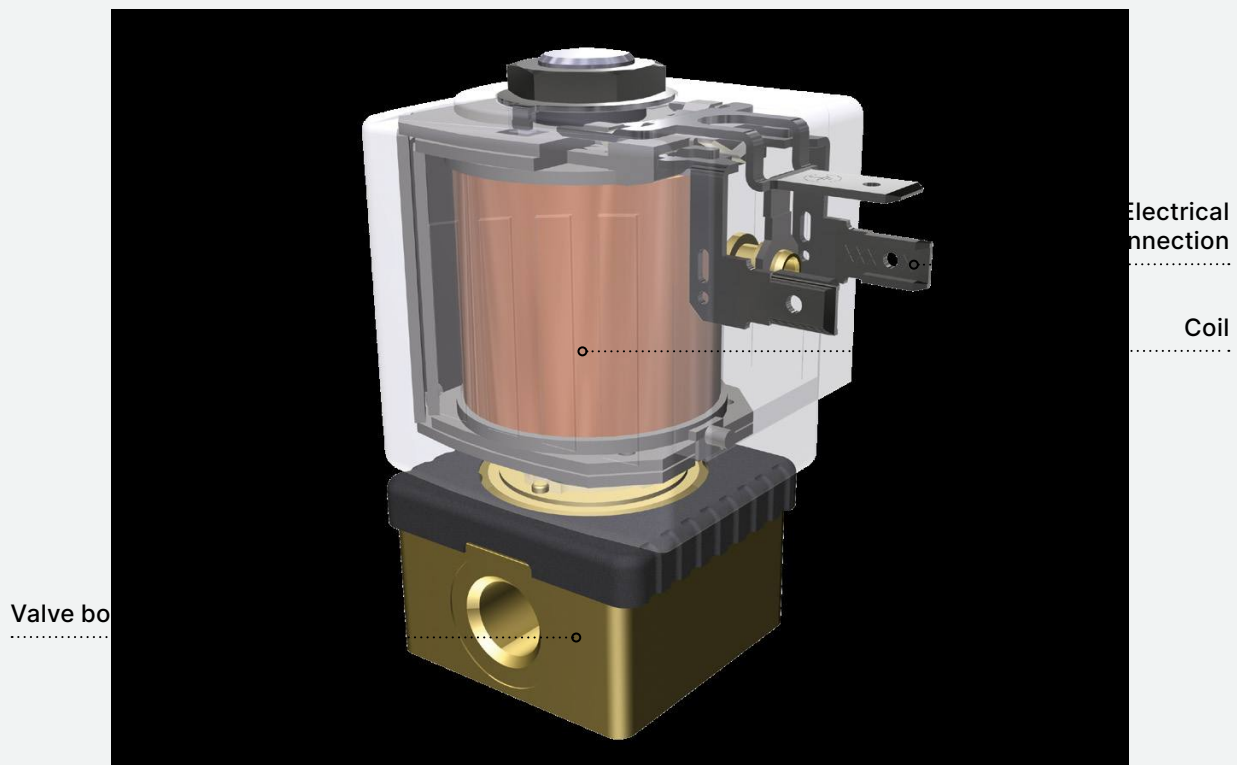
This valve type consists of the following main components: coil, valve core (plunger valve), a return spring, a valve body with valve seat, and a valve body cover. When de-energised, the flow remains blocked (normally closed) because the spring, assisted by the pressure of the medium, pushes the valve core onto the valve seat. When current flows through the coil, it generates a magnetic field that lifts the core along with the seal against the spring force. This opens the flow path, allowing the medium to flow.

Usage

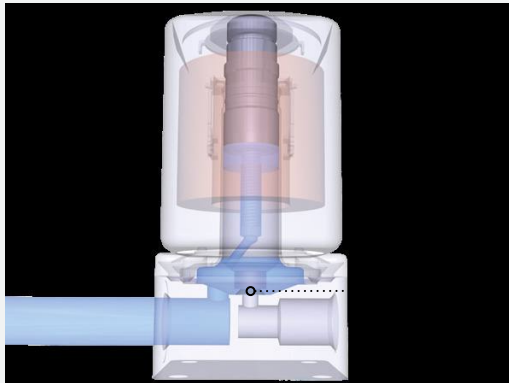
Ideal for blocking, dosing, filling, and venting neutral and clean liquids, gases and vapours. Variants made from particularly high-quality materials enable use with mild alkalis and acids.

Specifics

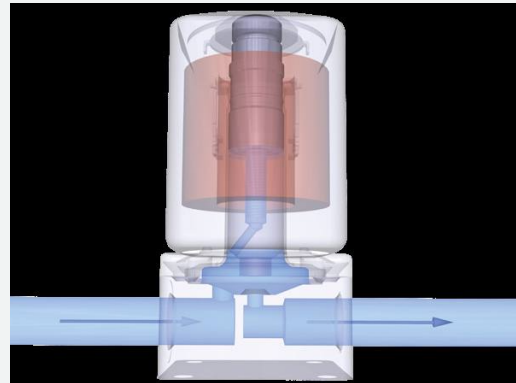
The use of a slide ring bearing and a spring-damped seat seal enables increased switching cycles, thus leading to a longer service life. Furthermore, these valves are suitable for high pressure and temperature ranges.



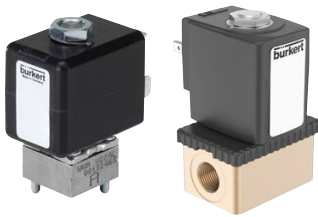
2/2-way plunger valve, Type 6013



Rest position



Switch position



Type 7011 / Type 6013

- Nominal diameter:
Type 7011: DN 1.2 ... 2.4 mm
Type 6013: DN 2.0 ... 6.0 mm
- Valve materials: brass, polyamide, stainless steel
- Seal materials: FKM, PTFE/graphite, EPDM
- Pressure range:
Type 7011: 0 ... 45 bar
Type 6013: 0 ... 25 bar
- Connection: thread, flange



TYPE 7011 / TYPE 6013

Direct-acting 2/2-way plunger valve

Both valves offer high pressure and leakage safety thanks to welded stopper and core guide tube. Various body and seal material combinations are available according to requirements. The Bürkert flange version (SFB) enables the space-saving arrangement of valves on a multiple manifold. Push-in fittings as well as variants according to DVGW EN 161 and explosion-proof variants are available. With suitable plugs, Types 7011 and 6013 meet the degree of protection IP65. Solenoids with Kick and Drop electronics are available to reduce electrical power consumption during operation of Type 6013.



**Energy-saving
Kick and Drop variant**



**Wide range of
variants for
individual customer
solutions**



**High pressure and
leakage safety**



**Numerous different
approvals, e.g.
explosion protection**



Type 6027

- Nominal diameter:
DN 1.0 ... 13.0 mm
- Valve materials: brass or stainless steel
- Seal materials: FKM, EPDM, NBR, PTFE, PEEK
- Pressure range:
0 ... 100 bar (standard)
0 ... 250 bar (high pressure)
- Connection: thread, flange



TYPE 6027

Direct-acting 2/2-way plunger valve

Type 6027 offers high pressure and leakage safety thanks to welded stopper and core guide tube. Various material combinations are available to meet specific requirements. The optional slide ring bearing ensures durability when using dry gases. Special sealing techniques are used in high-pressure applications. Coils with integrated Kick and Drop electronics improve efficiency. Degree of protection IP65 is possible, NEMA 4X available on request.



Numerous different approvals, e.g. explosion protection



Energy-saving Kick and Drop variant



High-pressure variant available up to 250 bar



Slide ring bearing for extended service life when using dry gases



Type 6026

- Nominal diameter:
DN 3.0 ... 12.0 mm
- Valve materials: brass, stainless steel
- Seal material: PTFE
- Pressure range: 1 ... 10 bar
- Connection: thread



TYPE 6026

Direct-acting 2/2-way plunger valve

The valve is particularly suitable for critical media and extreme media temperatures. The coils are encapsulated with chemically highly resistant epoxy, and the bodies and seal materials are highly resistant. In addition, the coil and body are thermally and hermetically decoupled. Condensation between the fluid part and the coil as well as impermissible heating or freezing is prevented. Coils with efficient Kick and Drop electronics are available. Degree of protection IP65 is possible.



Suitable for high and low temperature ranges (-200 °C...+180 °C)



Media separation – use with critical media



Energy-saving Kick and Drop variant



Durable materials suitable for critical media



Type 7015

- Nominal diameter:
DN 1.6 ... 2.7 mm
- Valve material: PPS
- Seal materials FKM, EPDM
- Pressure range: 0 ... 14 bar
- Connection: push-in, flange



TYPE 7015

Direct-acting 2/2-way plunger valve

Type 7015 is ideal for filling and dosing neutral liquids and gases. It also works with hot water and steam and is durable. The bayonet catch allows the valve to be inspected and maintained without tools. The coil can be loosened and aligned in any position. Flange and push-in variants are available as port connections. The valve can be fastened and maintained quickly thanks to the optionally available quick clip brackets and/or screw fittings. Approved/compliant according to EC 1935/2004, FDA and NSF 169. Degree of protection IP20 is met.



**Innovative service
concept – tool-free
maintenance**



**Approval/
conformities for use
in the food sector**



**Suitable for
applications with hot
water and steam**



**Push-in
and flange
variants available**

3/2-way plunger valve

Function

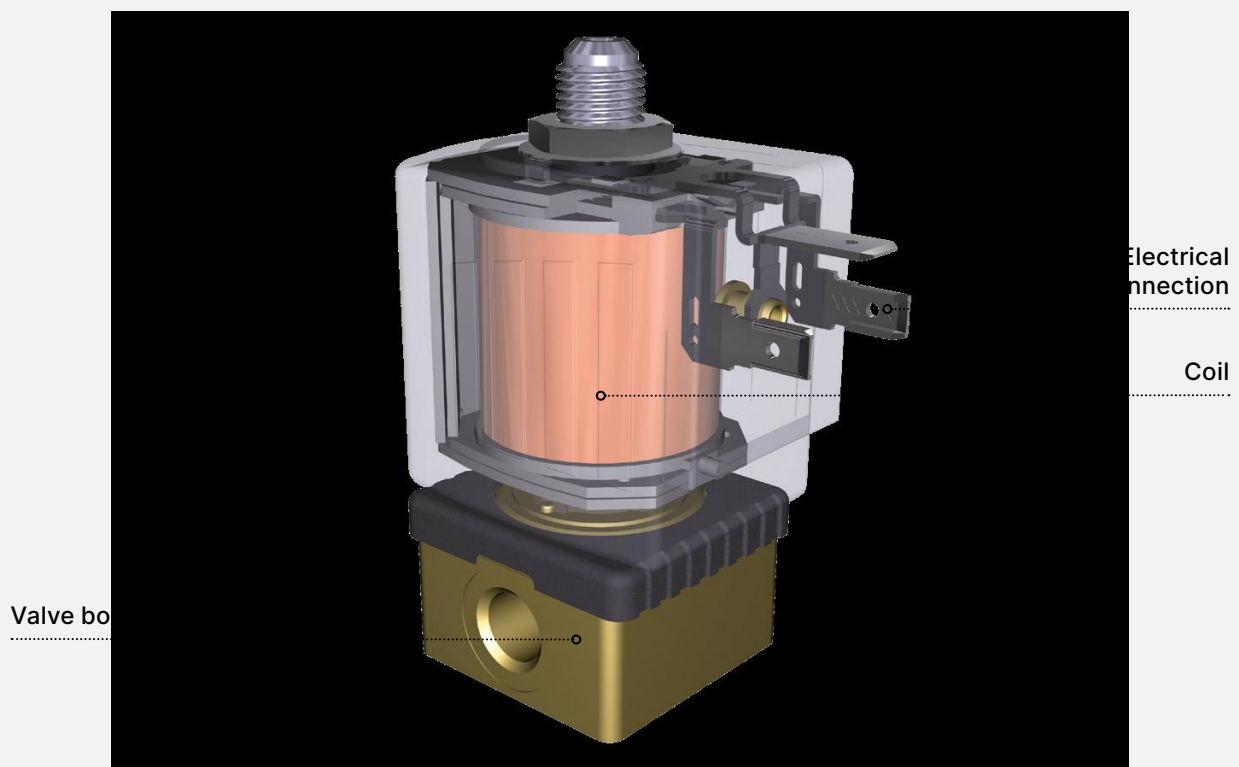
Unlike the 2-way plunger valve, the 3-way valve has two valve seats and a return (R). The function depends on how the connections are linked to the fluid system. If no electrical voltage is present, a normally closed 3/2-way plunger valve does not allow flow from pressure port (P) to output (A), as a conical spring pushes the core onto valve seat 1. At the same time, A is connected to return (R) and valve seat 2 is open. When powered, the magnetic field attracts the core, closing valve seat 2 and opening valve seat 1 – the medium flows from P to A.

Usage

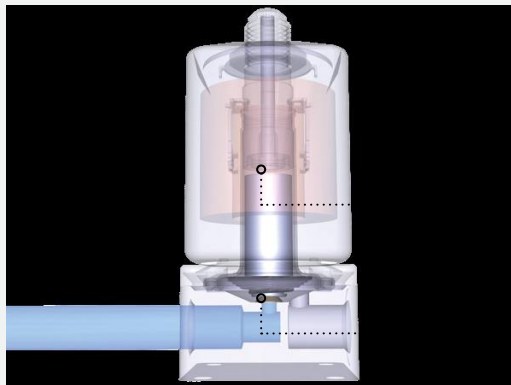
Suitable for mixing, distributing, venting, and dosing neutral, gaseous or liquid media. Often used as a pilot valve for larger pneumatically actuated valves.

Specifics

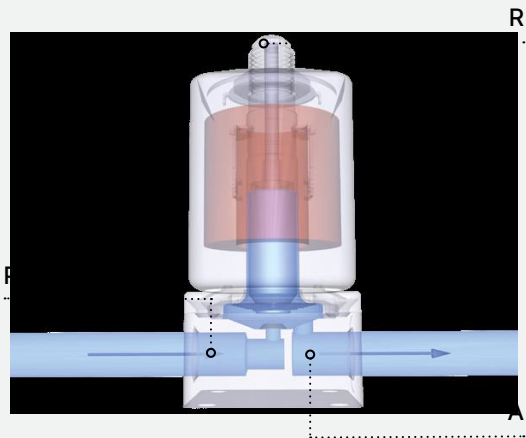
Variants with manual override or an energy-saving impulse version are available. Use in areas at risk of explosion is also possible. Variants for hot water, hot air, and steam are also available.



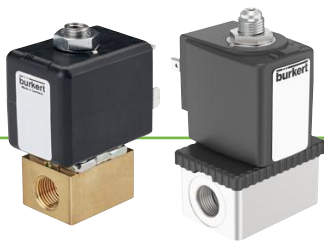
3/2-way plunger valve, Type 6014



Rest position



Switch position



Type 7012 / Type 6014

- Nominal diameter:
Type 7012: DN 1.2 ... 2.0 mm
Type 6014: DN 1.5 ... 2.5 mm
- Valve materials: brass or stainless steel, polyamide (flange)
- Seal materials FKM, EPDM
- Pressure range:
Type 7012: 0 ... 13 bar
Type 6014: 0 ... 16 bar
- Connection: thread, flange, push-in, banjo



TYPE 7012 / TYPE 6014

Direct-acting 3/2-way solenoid valve

The compact Type 7012 and Type 6014 plunger valve offer high pressure and leakage safety thanks to the welded stopper and core guide tube. The Bürkert-specific flange version (SFB) enables the space-saving arrangement on multiple manifolds. Various material combinations, energy-efficient solenoids with Kick and Drop electronics (Type 6014), push-in fittings (Type 7012), banjo connection, degree of protection IP65, as well as explosion-proof variants complete the portfolio.



High pressure and leakage safety



Wide range of variants for individual customer solutions



Push-in and flange versions available



Energy-saving kick and drop variant



Type 7016

- Nominal diameter: DN 1.6 ... 2.7 mm
- Valve material: PPS
- Seal materials FKM, EPDM
- Pressure range: 0 ... 14 bar
- Connection: push-in, flange



TYPE 7016

Direct-acting 3/2-way solenoid valve

Type 7016 is ideal for precise filling and dosing of neutral liquids and gases. It also works durably with hot water and steam. The valve can be inspected without tools via a bayonet catch. The coil can be loosened and aligned in any position. Flange and push-in variants are available as port connections. Screw connections or optional quick-clip holders simplify attachment and maintenance. Approved/compliant according to EC 1935/2004, FDA and NSF 169. Degree of protection IP20 is met.



Innovative service concept – tool-free maintenance



Approval/ conformities for use in the food sector



Suitable for applications with hot water and steam



Push-in and flange variants available



Type 7017

- Nominal diameter: DN 3.0 mm and DN 4.0 mm
- Valve material: PPS
- Seal materials FKM, EPDM
- Pressure range: -0.5 ... 1.5 bar
- Connection: push-in, flange



TYPE 7017

Direct-acting 3/2-way rocker solenoid valve with media separation

This media-separated valve is ideal for dosing, filling, mixing and distributing neutral and aggressive liquids and gases. With rocker technology, it offers full back pressure tightness and low internal volume and is easy to flush. It can be opened without tools using a bayonet catch. The coil can be aligned flexibly. Body options enable perfect adaptation to the fluidic application. Approved/compliant according to EC 1935/2004, FDA, NSF 169 and degree of protection IP20.



Isolating diaphragms for chemical resistance



Full back pressure tightness achieved by rocker principle



Innovative service concept – tool-free maintenance



Approval/ conformities for use in the food sector



Toggle valve

Function

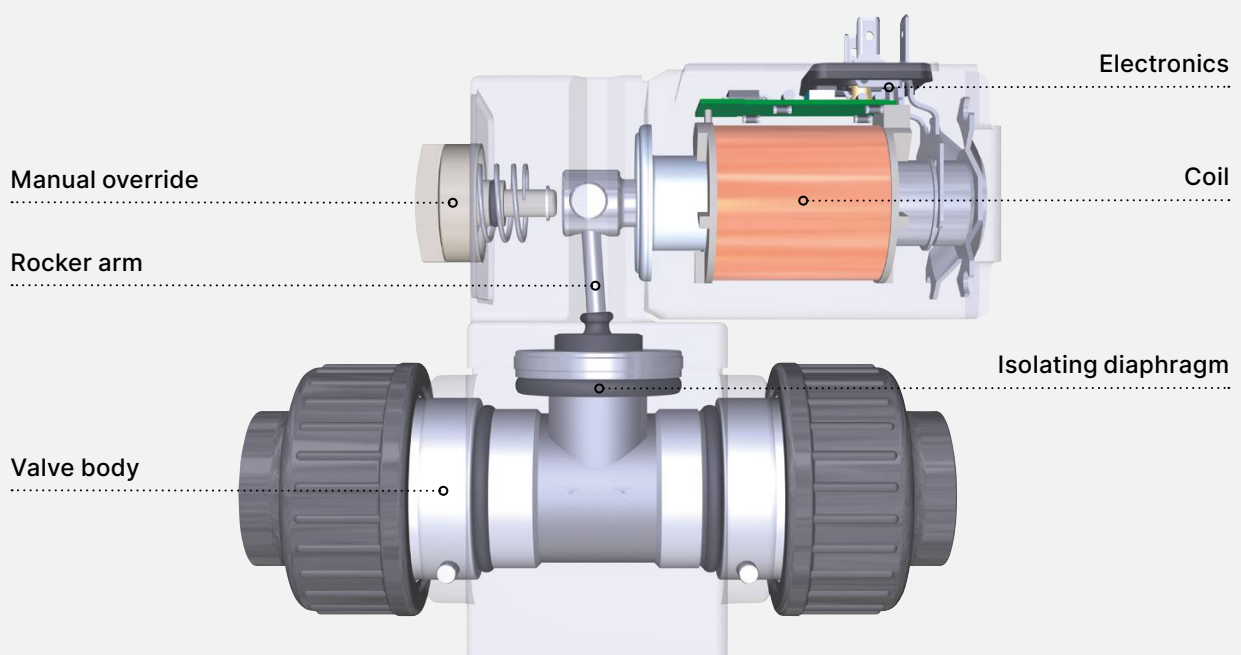
The valve operates according to the lever principle and can therefore also directly switch large nominal diameters. It is available in both 2/2-way and 3/2-way valve variants. The core acts horizontally on a force pilot operated rocker arm. The sealing cylinder located on the lower lever is pressed onto the valve seats by the horizontal movement. The plastic-coated metal lever forms a unit with the gas-tight lead-through. This construction ensures that the actuator is media-separated from the fluid housing.

Usage

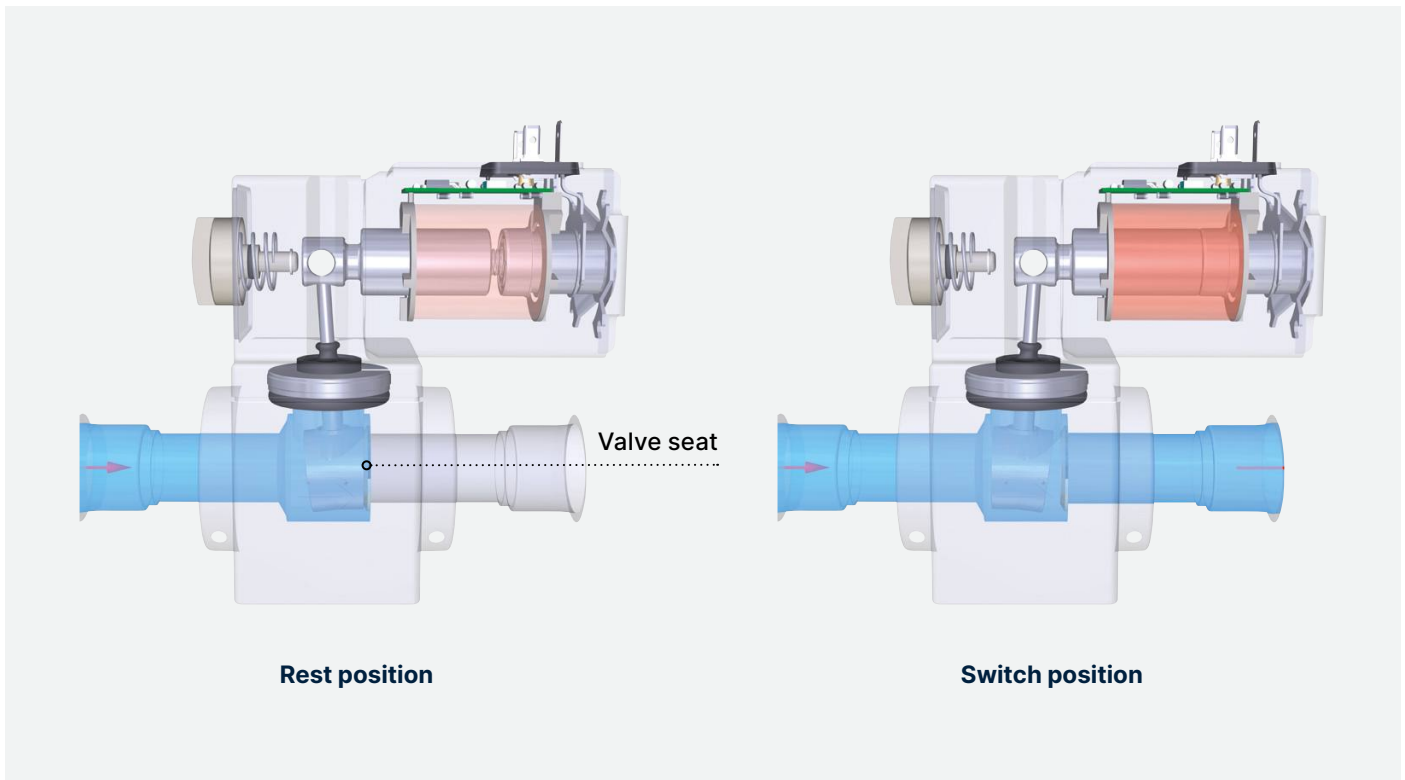
Thanks to media separation, the valve is particularly suitable for critical alkalis and acids as well as media containing particles. Due to the large nominal diameters, it is often used as a drain or mixing valve.

Specifics

For energy-saving operation, all DC variants have Kick and Drop electronics encapsulated in the coil. The toggle valves are equipped with a lockable manual override and offer the possibility of electrical feedback of the switching position.



2/2-way toggle valve, Type 0131



Type 0131

- Nominal diameter:
DN 10.0 ... 20.0 mm
- Valve materials: PVC,
brass (on request)
- Seal materials: NBR, EPDM, FKM
- Pressure range: 0 ... 3 bar
- Connection: thread, union nut and
connection fitting



TYPE 0131

Direct-acting 2/2-way and 3/2-way toggle valve

With different seal material combinations, Type 0131 can be used for various applications. Diaphragm separation also allows aggressive media to be controlled safely. In all DC variants, Kick and Drop electronics reduce the electrical power consumption. An electrical position feedback indicator is optional.

Variants are available in accordance with the German Ordinance on the Quality of Water Intended for Human Consumption (UBA) and DIN EN 45545:2016 (Parts 2 and 5) – Fire protection on railway vehicles.

 Energy-saving Kick and Drop variant	 Conformity according to the Ordinance on the Quality of Water Intended for Human Consumption (UBA)
 Conformity for fire protection on railway vehicles	 Media separation – use with critical media

Pivoted armature valve

Function

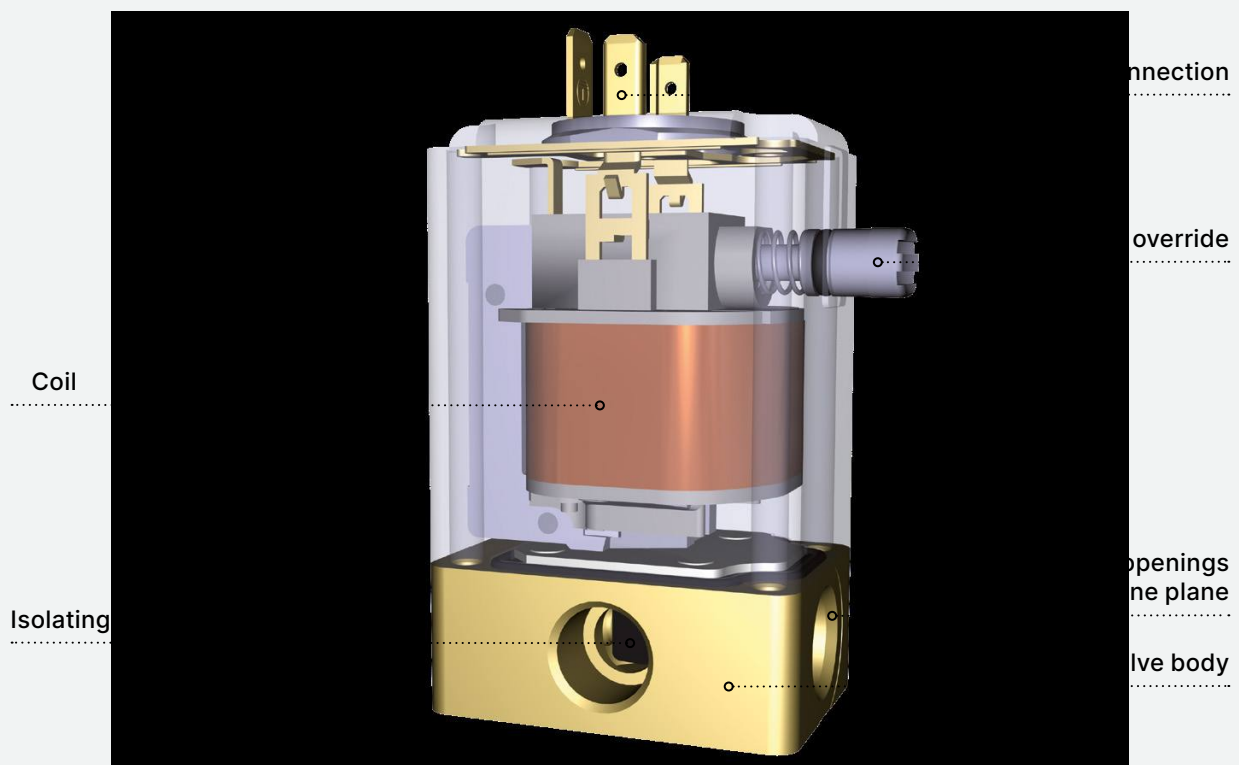
This type of valve uses a pivoted armature, a flexible isolating diaphragm, two valve seats and a coil. They can be used as both 3/2-way and 2/2-way variants. When energised, the pivoted armature is pulled against the force of the spring and the passage between P and A (output) is opened. At the same time, the path between P and B is closed. Without power, the pivoted armature closes valve seat 1 and the medium can flow between connection P and B.

Usage

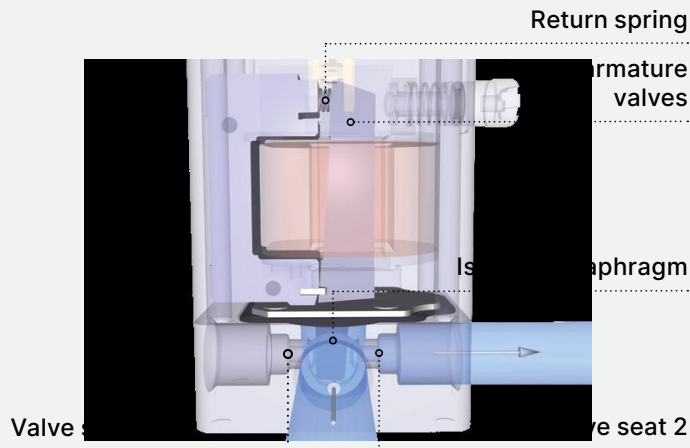
Due to the media-separated design, the valve is suitable for controlling corrosive, contaminated or aggressive liquids as well as vacuum.

Specifics

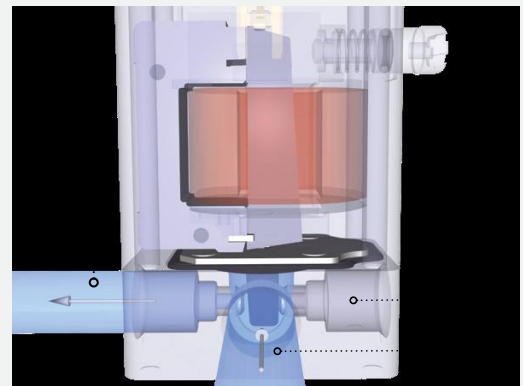
The valve offers a lockable manual override. Variants for potentially explosive atmospheres are available, as are different materials for components that come into contact with media. The proven design offers high reliability with low maintenance requirements.



Pivoted armature valve, Type 0330



**Function of the distributor
in rest position**



**Function of the distributor
in switching position**



Type 0330 / Type 0331

- Nominal diameter:
Type 0330: DN 2.0 ... 5.0 mm
Type 0331: DN 2.0 ... 4.0 mm
- Valve materials: brass, stainless steel, PP, PEEK
- Seal materials: EPDM, FKM, FFKM, NBR
- Pressure range: 0 ... 16 bar
- Connection: thread, flange



TYPE 0330 / TYPE 0331

Direct-acting 2/2-way or 3/2-way pivoted armature valve

Type 0330 has a threaded connection, Type 0331 has a flange connection. The media separation makes these valves ideal for aggressive acids and alkalis. Various body and seal material combinations are available according to requirements.

It has a manual override for commissioning and testing. The switching state can be fed back as a binary or NAMUR signal. The coils are available with electronic power reduction.



**Energy-saving
Kick and Drop variant**



**Media separation –
use with critical
media**



Manual override



**Position feedback
as binary or NAMUR
signal**



Type 0121

- Nominal diameter:
DN 2.0 ... 8.0 mm
- Valve materials: PTFE, PVC,
stainless steel
- Seal materials: EPDM, FKM, FFKM
- Pressure range: 0 ... 6 bar
- Connection: thread



TYPE 0121

Direct-acting 2/2-way and 3/2-way pivoted armature valve

Type 0121 is ideal for critical media such as aggressive acids and alkalis thanks to the media separation provided by a diaphragm. Various body and seal material combinations are available according to requirements. It has a manual override for commissioning and testing. The switching state can be fed back as a binary or NAMUR signal. The coils are available with electronic power reduction.



**Energy-saving
Kick and Drop variant**



**Media separation –
use with
critical media**



Manual override



**Position feedback
as binary or NAMUR
signal**

Product innovation

High-pressure valves for hydrogen applications

Bürkert presents high-pressure and ultra-high-pressure valves that are specially designed to meet the high requirements of modern hydrogen systems.

The solutions combine years of application know-how with innovative sealing technology – for maximum safety, durability and reliable function even under extreme pressure and temperature fluctuations. The valves are perfectly designed for scenarios typical in hydrogen environments.

They regulate the flow of hydrogen in electrolysis plants, secure storage units at pressures above 350 bar and control the delivery of H₂ in transport systems and filling stations – even at temperatures as low as -40 °C. Pneumatically or magnetically operated, they are suitable for fully automatic operation in demanding environments.

Advantages with Bürkert at a glance:

- High plant availability: up to 80,000 switching cycles reduce maintenance requirements
- Fast leakage detection: control holes at sealing points enable early detection
- Reliable tightness from -40 to +80 °C (Ex: up to +60 °C) – through dynamic sealing ring on the spindle (Dynamic Sealing Package)
- Certified according to international standards:
ISO 15848, ATEX, PED, ASME B16.34

Type 6080

Type 6480

Type 6481



Did you know?

For refuelling with hydrogen at up to 1,000 bar, the hydrogen is actively cooled down to -40 °C. Bürkert high-pressure valves are designed to withstand these extreme temperature conditions over the long term – for maximum safety and reliability in operation.



Reliable under extreme conditions



Flexible system integration



Reduced maintenance costs



Future-proof and conforming to standards



→ Hydrogen valves for your H₂ applications

Servo-assisted valves

The anatomy of a servo-assisted valve shows how all components work together perfectly at Bürkert to efficiently switch large nominal diameters. Instead of using large coils for direct-acting valves, servo-assisted variants utilise the pressure of the medium: a small pilot channel is actuated to specifically influence the forces on the main seal and thus open the flow channel.

Pilot valves

All of the operating principles described for direct-acting valves can be applied to pilot valves (plunger and pivoted armature valves).

Chamber (space above the diaphragm)

In this area, the diaphragm or piston moves to allow the flow.

Pilot channels

These allow the medium to leave the chamber and flow to the output side via the pilot valve. The medium can then open the main seal by means of pressure.

Equalisation hole

Ensures that the inlet pressure and the pressure in the chamber above the diaphragm or piston slowly equalise to close the valve.

Media flow above the valve seat

In all servo-assisted valves, the flow direction occurs above the valve seat.

Spring

The spring in the chamber supports the media pressure when closing the valve as soon as the pilot valve is closed. The spring is avoided in valves that are exposed to aggressive chemical liquids. Then the media pressure alone closes the valve.

Nominal diameter

This is the area on which the media pressure acts and the opening through which the medium flows when the valve is switched. It determines not only the contours of the valve, but also the pressure drop and flow rate of the valve.

Process connections

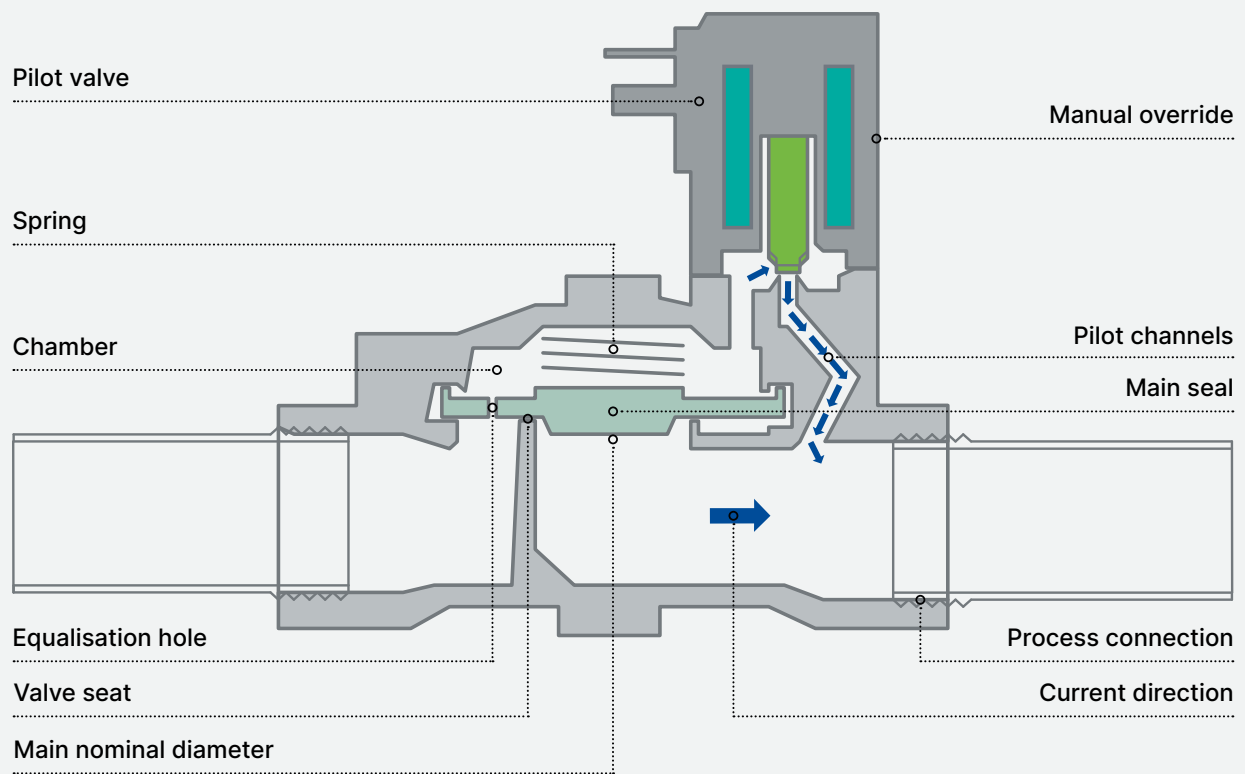
Numerous connections and sizes are available to meet country-specific or industry-specific standards.

Seal

A soft material, either a diaphragm or a flat seal at the bottom of a solid piston or core, that shuts off the media flow at the valve seat.

Valve seat

A raised area on the nominal diameter that concentrates the pressure of the seal. Stainless steel press-fit seats are used in cases of possible abrasion or cavitation.



Diaphragm valve with plunger pilot control

Function

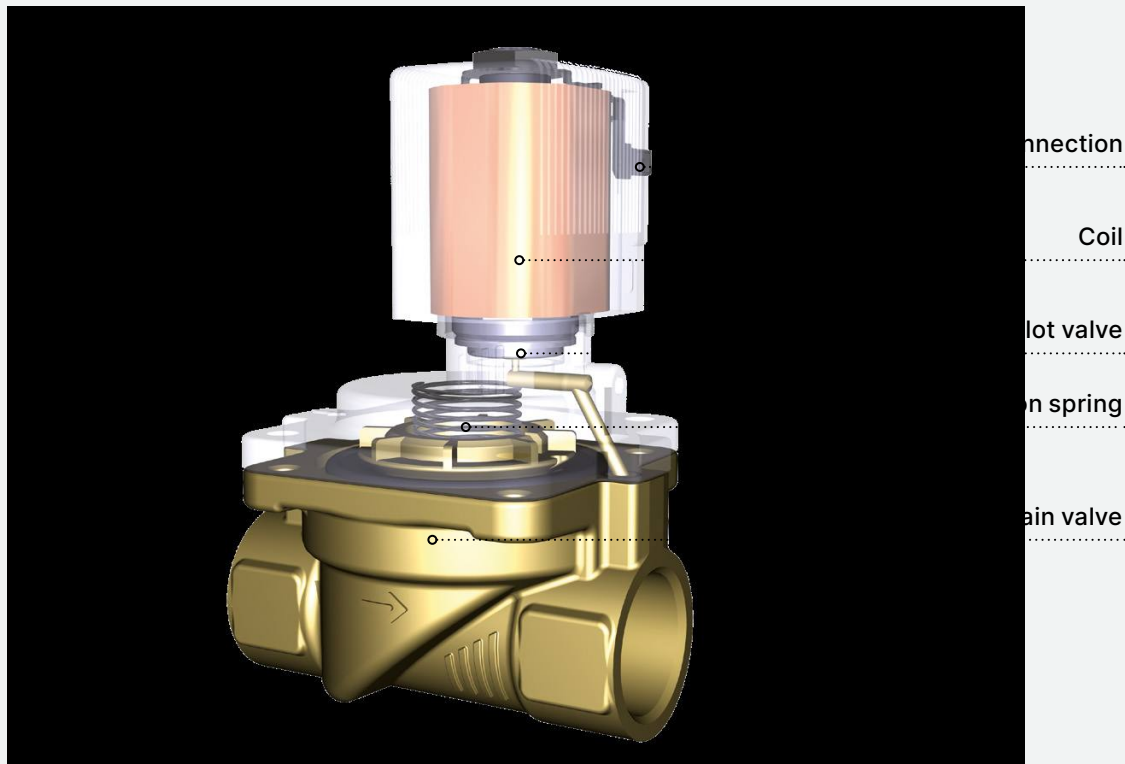
A direct-acting plunger valve controls a flexible diaphragm. When the pilot valve opens, the chamber above the diaphragm empties and the pressure below lifts it up – the medium flows. When closing, pressure builds up again via a compensation opening, supported by a spring. A minimum pressure differential is required.

Usage

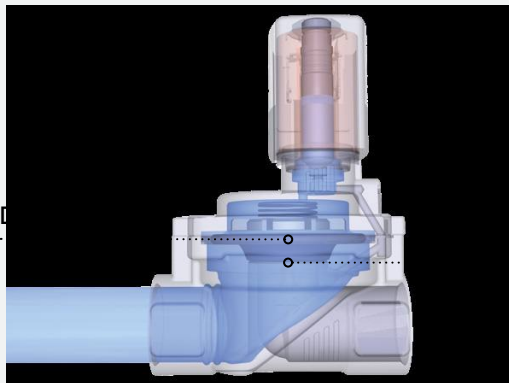
Suitable for clean, liquid or gaseous media such as compressed air, water or hydraulic oil. Often more economical than direct-acting valves at higher pressures and nominal diameters.

Specifics

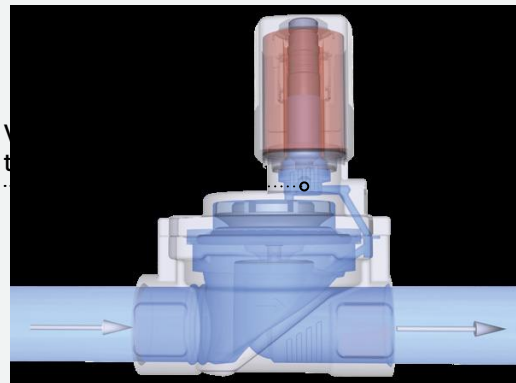
The small equalisation hole makes this type of valve sensitive to particles or crystallising media. Bürkert valves are particularly damping due to their internal design. Ex- or low-power variants pose hardly any problems compared to direct-acting valves, as the pilot valve has a low power consumption.



Servo-assisted solenoid diaphragm valve, Type 6281



Rest position



Switch position



Type 6281

- Nominal diameter:
DN 10.0 ... 50.0 mm
- Valve materials: brass, brass
resistant to dezincification,
stainless steel
- Seal materials: NBR, FKM, EPDM
- Pressure range: 0.2 ... 16 bar
- Connection: thread



TYPE 6281

Servo-assisted 2/2-way diaphragm valve

A minimum differential pressure is essential for the reliable operation of valve 6281. Various material combinations and modes of action are available to meet specific requirements. The standard brass body meets European drinking water requirements. Dezincification-resistant brass and stainless steel are available for other markets. Equipped with manual override and optionally with efficient Kick and Drop electronics.



**Energy-saving
Kick and Drop
variant**



**Explosion-proof
variants
available**



**Manual override
optional**



**Damped design
for quiet closing**

Coupled diaphragm valve with plunger pilot control

Function

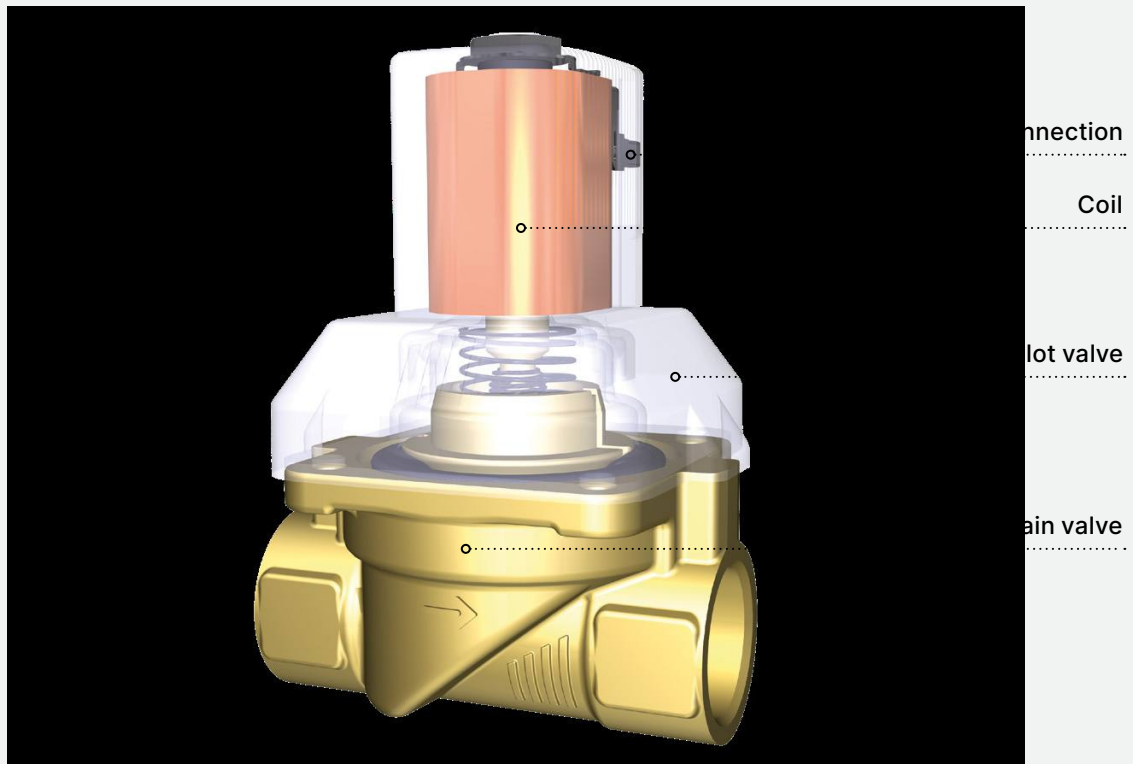
A plunger valve serves as a pilot stage, with the main seal being provided by a flexible diaphragm. When the pilot valve opens, the chamber above the diaphragm empties – the pressure below lifts it and opens the valve. When the pilot valve closes, the pressure builds up again via the equalisation opening; a spring supports the closing process. This valve type also works without differential pressure, as the diaphragm holder is rigidly or spring-coupled to the core.

Usage

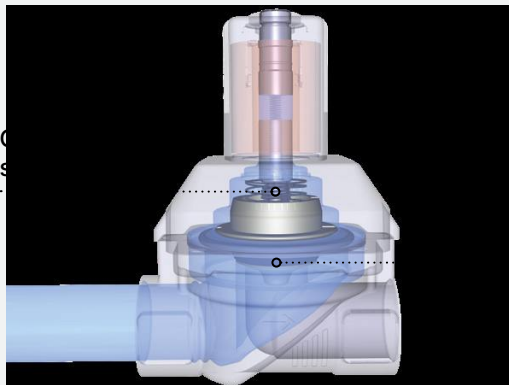
Areas of application include liquid or gaseous media such as water, compressed air or hydraulic oil in circuits with no or only slight differential pressure.

Specifics

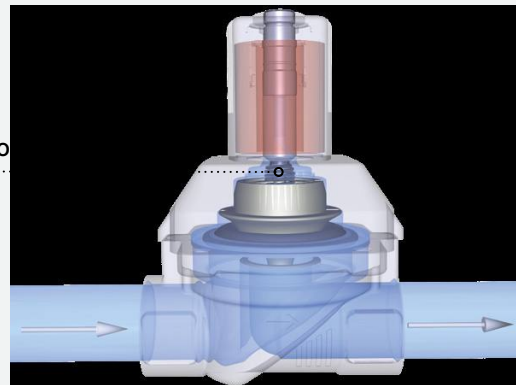
In Type 6213, a spring protects the diaphragm during frequent switching.



Servo-assisted 2/2-way solenoid valve, with spring coupling, Type 6213



Rest position



Switch position



Type 6213

- Nominal diameter (standard version): DN 10.0 ... 40.0 mm
- Valve materials: brass, brass resistant to dezincification, stainless steel, gunmetal
- Seal materials: NBR, FKM, EPDM
- Pressure range: 0 ... 10 bar
- Connection: thread



TYPE 6213

Servo-assisted 2/2-way diaphragm valve

In valve 6213, the spring coupling of the diaphragm supports opening. It is designed for liquids as standard and requires a minimum differential pressure to open fully. Depending on the application, various diaphragm materials and bodies made of brass, stainless steel or gunmetal are available. Optionally, coils with integrated Kick and Drop electronics ensure reduced power consumption during operation.



**Energy-saving
Kick and Drop variant**



**For use
with liquids**



**Diverse materials for
diaphragm and body**



**Damped design for
quiet closing**





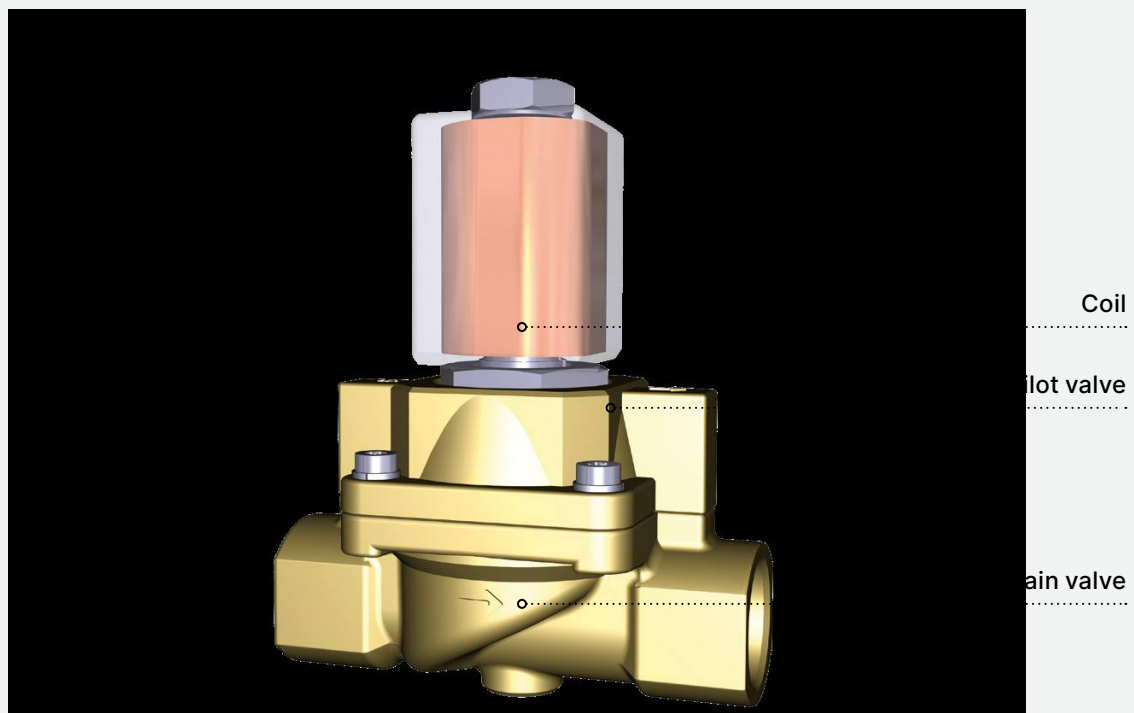
Servo-piston valve with plunger pilot control

Function

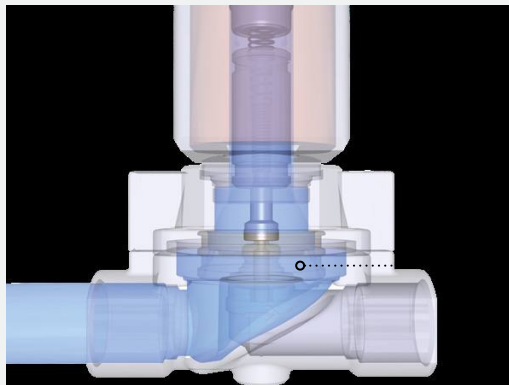
This function principle uses a direct-acting plunger valve as a pilot valve. The main valve seal is located on the underside of a solid piston that moves vertically in a cylinder chamber. The liquid chamber above the piston is emptied when the pilot valve opens. The media pressure below the piston lifts it and opens the valve, allowing the medium to flow. When the pilot valve is closed, the media pressure above the piston builds up again through the small equalisation opening in the piston. The closing process is also supported by the compression spring. With these valves, there must be a certain minimum pressure difference between the inlet port and the outlet port; in addition, they can only regulate the same clean medium as the non-media-separated plunger valve.

Usage

The main application area of these servo-assisted solenoid piston valves is the reliable switching of compressed air, neutral gases and steam up to 180 °C with high stroke rates in nominal diameters DN 12 to 50 mm. Piston valves are particularly notable for their robustness when switching compressible media such as gas and steam.

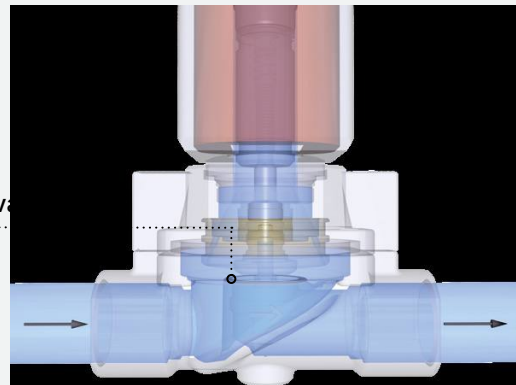


Servo-assisted 2/2-way solenoid piston valve, Type 5404



Rest position

Main v



Switch position



Type 5404

- Nominal diameter: DN 12.0 ... 50.0 mm
- Valve material: brass
- Seal materials: PTFE/FKM, PTFE/graphite, PTFE/EPDM
- Pressure range: 1 ... 50 bar
High-pressure variant: 1 ... 80 bar
- Connection: thread, flange



TYPE 5404

Servo-assisted 2/2-way piston valve

The servo-assisted piston valve Type 5404 is available in NC (= normally closed, in rest position closed) and NO (= normally open, in rest position opened) variants. A minimum differential pressure is required to switch the valve safely. The solenoid coils are encapsulated with high-quality epoxy resin. To reduce electrical power consumption during operation, coils with integrated Kick and Drop electronics are available. In combination with a plug according to DIN EN 175301-803 Form A, the valves fulfil protection class IP65.



**Suitable for
gas and steam
applications
up to 180 °C**



**Used as a
compressor
relief valve**



**Explosion-proof
variant for Cat. 2**



**Minimum differential
pressure required**

Fixed coupled servo-assisted piston valve with plunger pilot control

Function

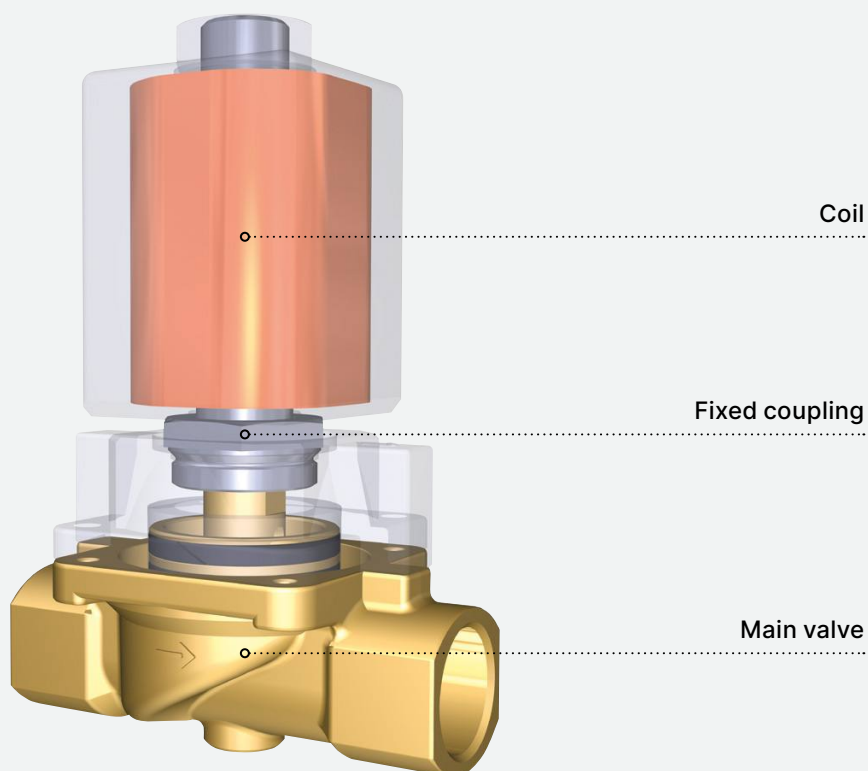
This function principle uses a direct-acting plunger valve as a pilot valve and a fixed coupled piston as the main seal. When closed, the piston seals the main valve seat. When the valve is energised, the pilot valve opens the pilot seat. The media pressure and the armature of the pilot valve cause the piston to move upwards and release the main valve seat. When the pilot valve is switched off, the design ensures that the valve closes slowly and without impact. Unlike other servo-assisted valve models, these valve types switch even without differential pressure, as the pilot valve alone partially opens the main valve seat.

Usage

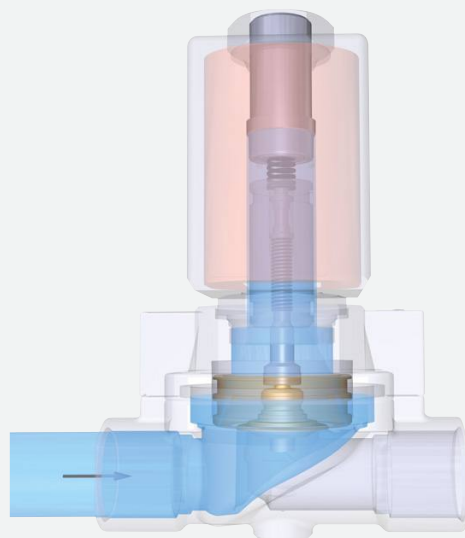
Used at low or non-existent differential pressures. Typical media are neutral gases and steam.

Specifics

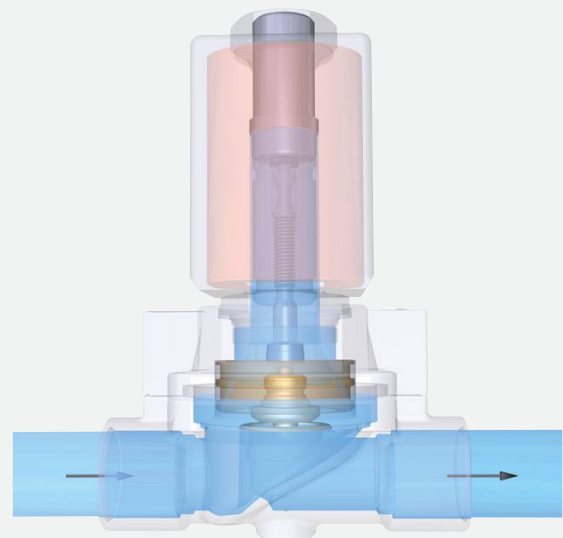
Type 6407 offers a long service life thanks to its slide ring bearing and power reduction. Type 6240 is compact, with a stainless steel valve body and plastic piston. Both types are also available in explosion-proof variants.



Servo-assisted piston valve, fixed coupled, Type 6407



Rest position



Switch position



Type 6407

- Nominal diameter: DN 13.0 ... 50 mm
- Valve material: brass
- Seal materials: PTFE/graphite
- Pressure range: 1 ... 10 bar
- Connection: thread, flange



TYPE 6407

Servo-assisted 2/2-way piston valve

Type 6407 is ideal for gas and steam as well as liquids with low operating temperatures below 0 °C. The valve opens without differential pressure. For increased pressure resistance and leak-tightness, the stopper and core guide tube are welded together. Various seal material combinations are available to meet specific requirements. As an alternative to the standard coil, coils with Kick and Drop electronics reduce electrical power consumption. With a suitable device plug, the valve meets the degree of protection IP65.



**Safe opening
without differential
pressure**



**Energy-saving kick
and drop variant**



**Explosion-proof
variant
available**



**For operating
temperatures
below 0 °C**



Type 6240

- Nominal diameter: DN 6.0 mm, 12 mm, 13.0 mm (steam version)
- Valve materials: brass, stainless steel
- Seal materials: NBR, FKM, PTFE, EPDM, PCTFE
- Pressure range:
Standard: 0 ... 40 bar
High pressure: 0 ... 250 bar
- Connection: thread



TYPE 6240

Servo-assisted 2/2-way piston valve

Type 6240 is highly pressure and leak-proof. Various seal material combinations are available to meet specific requirements. The particular shape and surface quality of the body allow maximal flow rates. An optional slide ring bearing increases the runtime when using dry gases. As an alternative to the standard coil, solenoids with Kick and Drop electronics reduce electrical power consumption during operation.



**Energy-saving
Kick and Drop
variant**



**Safe opening
using fixed coupled
piston system**



**High-pressure
variant
up to 250 bar**



**Optional slide ring
bearing for gas
applications**



Diaphragm/piston valve with armature pilot control

Function

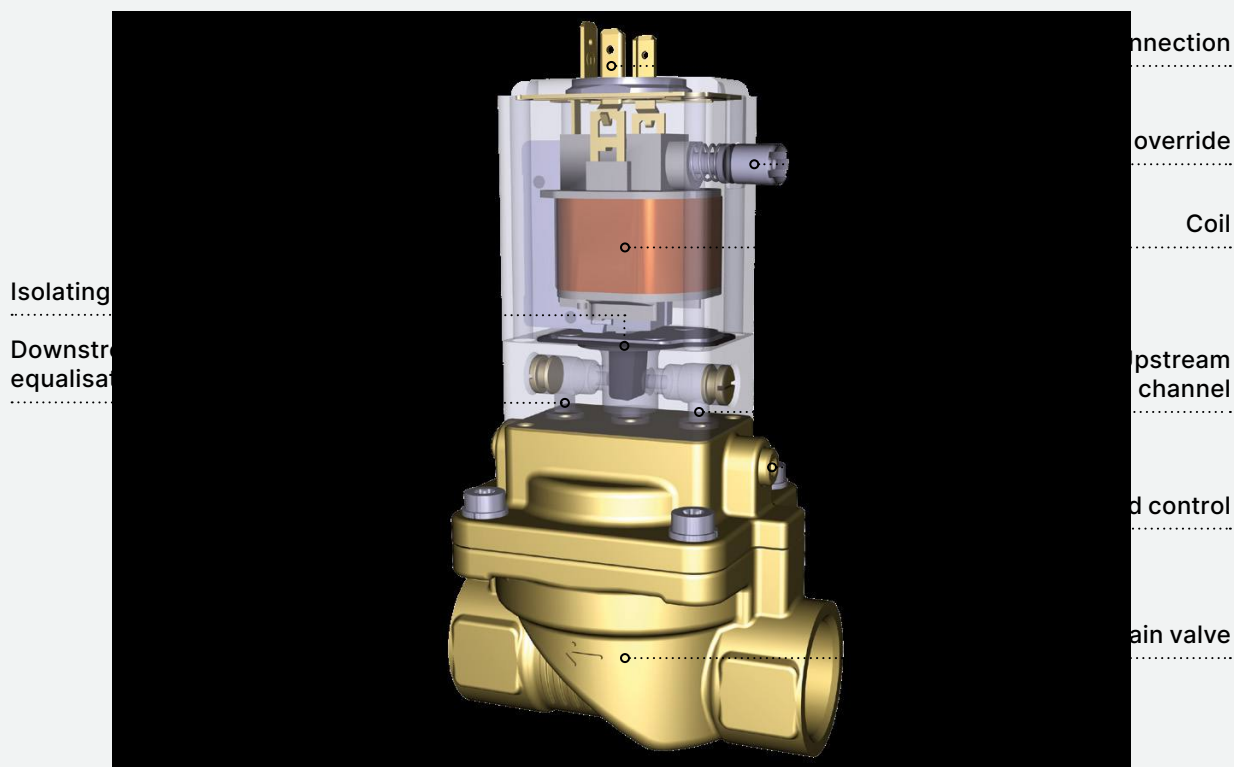
This unique function principle uses a media-separated, direct-acting 3/2-way valve as a pilot valve, while the seal of the main valve is a larger flexible diaphragm or piston. As soon as the pilot valve opens, the chamber above the piston opens, allowing the media pressure to lift the diaphragm and enable flow. When the pilot valve is closed, the channel to the output side is also closed, and the media pressure can build up again through the inlet-side pilot channel. The closing process is also supported by the compression spring. A minimum pressure difference between the inlet and outlet is required for complete opening and closing.

Usage

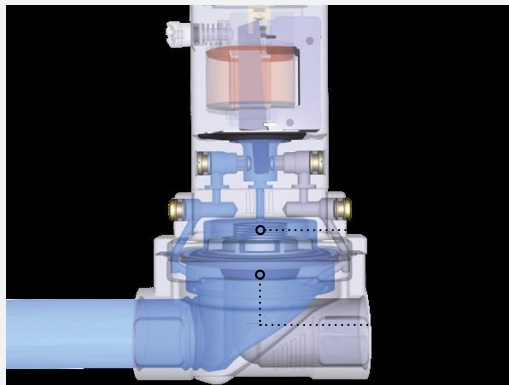
Ideal for slightly contaminated or aggressive gases and liquids in nominal diameters from DN 10 to 65 mm. The media-separated design enables trouble-free operation.

Specifics

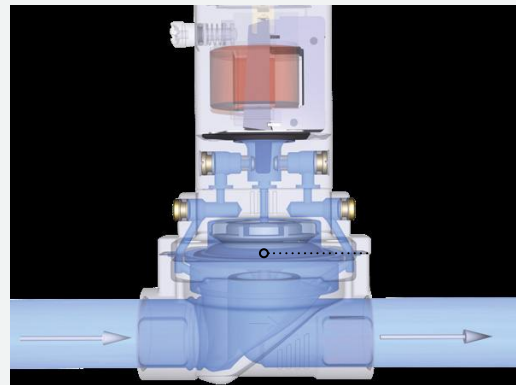
In certain variants, the opening and closing speed can be adjusted continuously.



Servo-assisted solenoid valve with 3/2-way pilot valve, Type 5282



Rest position



Switch position



Type 5282

- Nominal diameter:
DN 13.0 ... 65.0 mm
- Valve materials: brass, stainless steel
- Seal materials: NBR, FKM, EPDM
- Pressure range: 0.2 ... 16 bar
- Connection: thread, flange



TYPE 5282

Servo-assisted 2/2-way diaphragm valve

Valve 5282 operates with a minimum differential pressure. Various material combinations and circuit functions are available. The standard brass body meets all European drinking water requirements. Stainless steel versions are also available. Switching from NC to NO is done by turning the armature on the 3/2-way pilot valve 180 degrees. A manual override is available for commissioning and testing. NEMA 4X is available on request.



Closing and opening times individually adjustable



Media separation – use with critical media



Explosion protection



Circuit function can be changed from NC to NO



Type 0142

- Nominal diameter: DN 15.0 ... 50.0 mm
- Valve material: PVC
- Seal materials FKM, EPDM
- Pressure range: 0.5 ... 6 bar
- Connection: true union connection, threaded socket



TYPE 0142

Servo-assisted 2/2-way diaphragm valve

The valve operates with a minimum differential pressure of 0.5 bar. Different material combinations and circuit functions are available. Type 0142 can be easily switched from circuit function NC to NO by turning the pilot valve on the main valve seat. The position feedback is provided via a switching or NAMUR signal. Commissioning and testing via manual override as well as reduction of electrical power consumption through optional Kick and Drop electronics round off the picture.



For aggressive and contaminated media



Switching reliability through position feedback



Energy-saving Kick and Drop variant



Manual override



Type 6430

- Nominal diameter: DN 8.0 mm; 12.0 mm; 20.0 mm; 25.0 mm; 40.0 mm
- Valve materials: brass (DN 8 ... 20 mm), gunmetal (DN 25 ... 40 mm)
- Seal materials: NBR, PUR, FKM, EPDM (on request)
- Pressure range: 1 ... 16 bar / Vac. ... 3 bar
- Connection: thread



TYPE 6430

Servo-assisted 3/2-way piston valve

Type 6430 is flexible in use: for neutral liquids and gases in the pressure range from 1 ... 16 bar, for technical vacuum up to 3 bar, and with auxiliary pilot air for vacuum up to 8 bar. All variants are available as impulse versions. The valve is equipped with manual override (except for the impulse version). The optional Kick and Drop electronics reduce electrical power consumption during operation. With a DIN EN 175301 – 803 Form A connector, the degree of protection IP65 is achieved.



Energy-saving variants (Kick and Drop, impulse version)



Explosion-proof variant



Maintenance-free, media-separated pivoted armature valve as pilot valve



Manual override

Fuel gas approvals

Bürkert offers direct-acting and servo-assisted solenoid valves with fuel gas approvals according to European standards:

- DIN EN 16678:2016-02 – Safety and control devices for gas burners and gas burning appliances
- DIN EN 161:2013-04 – Automatic shut-off valves for gas burners and gas appliances

taking into account the Gas Appliances Regulation (EU) 2016/426.

The tests are carried out by DVGW CERT GmbH as the European certifying body in the gas and water sector. Together with its testing laboratories, it tests, certifies and monitors gas and water-related products, quality and environmental management systems according to DIN EN ISO 9000 et seq. and DIN EN ISO 14001 as well as companies and persons (subject matter experts).



Core drop-out voltage

The solenoid valve must always be closed at 15% of the nominal voltage.



Seal materials

Approved according to DIN EN 549:2019-09 – Rubber materials for seals and diaphragms for gas appliances and gas equipment



Service life

- 500,000 switching cycles
- 400,000 at room temperature
 - 100,000 at maximum temperature



Back pressure safety

- Class A: 150 mbar
Class B: 50 mbar

Direct-acting

Class A

7011



DN 1.2 ... 2.4 mm

6013



DN 1.5 ... 6 mm

6027



DN 3 ... 13 mm

Servo-assisted

Class B

6240



DN 6 & 12 mm

0290



DN 20 & 25 mm

DIN EN 161

DIN EN 16678

DIN EN 16678

Solenoid valves at a glance

Category	Type	Function	Required Δp [in bar]	Process connection	Pressure range [in bar] [in MPa]	Medium temperature [in °C]
Direct-acting plunger valves	7011	2/2	-	M5, G1/8, NPT 1/8, SFB	0 ... 30 0 ... 3	-10 ... +140
	7012	3/2	-	M5, G1/8 ... 1/4, PIC, NPT 1/8, SFB	0 ... 18 0 ... 1.8	-10 ... +140
	6013	2/2	-	G 1/8 ... 3/8, NPT 1/8 ... 3/8, SFB	0 ... 25 0 ... 2.5	-10 ... +180
	6014	3/2	-	G 1/8 ... 1/4, NPT 1/8 ... 1/4, SFB	0 ... 16 0 ... 1.6	-10 ... +120
	6027	2/2	-	G 1/4 ... 1/2, NPT 1/4 ... 1/2	0 ... 250 (100) 0 ... 25 (10)	-40 ... +160
	6026	2/2	-	G 1/4 ... 1/2, NPT 1/4 ... 1/2	0 ... 10 0 ... 1	-200 ... +180
Direct-acting pivoted armature valves	0330	2/2 3/2	-	G 1/4, NPT 1/8	0 ... 16 0 ... 1.6	-30 ... +90
	0331	2/2 3/2	-	SFB	0 ... 16 0 ... 1.6	-30 ... +90
	0121	2/2 3/2	-	G 1/4, G 3/8	0 ... 4 0 ... 0.4	-10 ... +90
Direct-acting toggle valves	0131	2/2 3/2	-	G 3/8 ... 1/2	0 ... 3 0 ... 0.3	-30 ... +50
Servo-assisted piston valves	6240	2/2	-	G 1/4 ... 1/2	0 ... 250 (25/40) 0 ... 25 (2.5/4)	-40 ... +160
	5404	2/2	1.0	G 1/2 ... 1, NPT 1/4 ... 2, DIN flange	1 ... 50 0.1 ... 5	-10 ... +180
	6407	2/2	-	G 1/2 ... 1, DIN flange	0 ... 10 0 ... 1	-20 ... +180
	6430	3/2	0.5	G 1/4 ... 1 1/2	0.5 ... 16 0.05 ... 1.6	0 ... +90
Servo-assisted diaphragm valves	6213	2/2	- (HP00)	G 1/4 ... 2, NPT 3/8 ... 1	0 ... 10 0 ... 1	-30 ... +120
	6281	2/2	0.5	G 3/8 ... 2, NPT 1/2 ... 1	0.2 ... 16 0.02 ... 1.6	-30 ... +120
	0290	2/2	-	G 1/2 ... 2, NPT 1/2 ... 2 1/2, DIN flange	0 ... 16 0 ... 1.6	-30 ... +120
	5282	2/2	0.2	G 1/2 ... 2 1/2, DIN flange	0.2 ... 16 0.02 ... 1.6	-30 ... +90

PIC = Push-in connection
SFB= Specific flange Bürkert /
Bürkert-specific flange interface

■ universal for gases + fluids
● gas and/or steam applications
▲ suitable for water applications

S = standard
A = on request
N = not available

Further technical information can be found in our data sheets.

Your Bürkert contact person will be happy to help you select the right solenoid valve for your application.

Nominal diameter [DN in mm]	Body material			Seal material Diaphragm material					Media				Media-separated	Flange version VA	Version with solenoid with Kick and Drop electronics available**	Application area
	Brass	VA	Plastic	NBR	EPDM	FKM	PTFE*	FFKM	Neutral fluids	Contaminated fluids	Aggressive fluids	Neutral gases				
1.2 ... 2.4	S	S	S	S	S	S	N	N	x	-	-	x	-	-	-	■
1.2 ... 2.0	S	S	S	S	S	S	N	N	x	-	-	x	-	-	-	■
2 ... 6	S	S	N	S	A	S ²	S	A	x	-	-	x	-	-	-	■
1.5 ... 3.0	S	S	S	S	A	S ³	A ⁴	A	x	-	-	x	-	-	-	■
1.2 ... 12	S	S	N	N	A	S	S	N	x	-	o	x	-	-	-	■
6 ... 10	S	S	N	N	N	N	S	N	x	-	x	x	x	-	x	
2 ... 4	S	S	S	S	A	S	N	A	x	x	x	x	x	-	x	
2 ... 3	S	S	S	N	A	S	N	N	x	x	x	x	x	-	x	
2 ... 8	N	S	S	N	A	S	N	S	x	x	x	x	x	-	x	
10 ... 25	S	N	S	N	S	S	N	N	x	x	x		x	-	x	
6, 12, 13	S	S	N	N	A	S	S	N	x	-	o	x	-	-	x	●
12 ... 25	S	N	N	S	N	A	S	N	x	-	-	x	-	x	-	●
13 ... 25	S	N	N	N	N	N	S	N	x	-	-	x	-	x	x	●
8 ... 40	S	N	N	S	N	N	N	N	x	-	-	x	^x (Pilot)	-	-	
10 ... 40	S	S	N	S	S	S	N	N	x	-	-	x	-	-	x	▲
10 ... 50	S	S	N	S	S	S	N	N	x	-	-	x	-	-	-	▲
12 ... 50	S	S	N	S	S	S	N	N	x	-	-	x	-	x	x	▲
13 ... 50	S	S	S ¹	S	S	S	N	N	x	x	x	x	^x (Pilot)	x	-	▲

1 = plastic version: Type 0142

2 = only as seat seal

3 = only as seat seal and DN 2.0

4 = only up to DN 2.0

* Only as seal material

** To reduce electrical power consumption during operation, coils with integrated Kick and Drop electronics featuring dual coil technology are available.

x = suitable/yes | o = conditionally suitable | - = not suitable/no

Product innovation

Explosion protection approvals

Bürkert solenoid valves for safe use in Ex areas with tailored protection concepts – certified to international standards.

	ATEX	IECEX	FM HazLoc	UL HazLoc	CCC Nepsi	Kosha	TIIS	Peso*
Cat. 3		●			●	●	●	●
Cat. 2		●			●	●	●	●
Zone 2	●							
Zone 1	●							
Division 2				●				
Division 1			●					

The overview provides only a rough overview; details can be found in the data sheets.

* available from 2026

The components comply with global explosion protection guidelines and can be used for a wide range of applications. The combination of modular selection, tested safety and worldwide approval ensures maximum integration capability. Robust terminal connection boxes and durable connection cables enable safe operation even under demanding conditions such as vibration, heat or harsh industrial environments.

Advantages of Bürkert solenoid valve solutions with Ex approval:

- Wide range of approvals: ideal for international installations
- Flexible connection options: e.g. terminal box or fixed cable
- Durable materials: chemically and thermally resistant
- Safe function in Ex areas: designed for demanding industrial applications

Did you know?

With EEXm encapsulation, all ignition-relevant components are completely embedded in a special resin compound. This ensures that no explosive atmosphere can form inside – even in the event of vibration, dust or exposure to intense heat.



Greater safety during operation



Reliable protection under extreme conditions



Custom-fit for your process environment



Wide selection for every application

The right product for every application with country-specific approval

Cat. 3 / Zone 2 Div. 2 (UL HazLoc)



AC19



AC10

Plunger valves

6013

6014

6030

Servo valves
Piston

5404

6240

6407

6440

6430

Servo valves
Diaphragm

6281

6213

Cat. 2 / Zone 1 Div. 2 (UL HazLoc)



AC19



AC10



AC08



ACP016

Plunger valves

7011

6013

6027

6030

7012

6014

Servo valves
Piston

5404

6240

6407

6440

6430

Servo valves
Diaphragm

6281

6213

5282

0142

6211

Pivoted
armature
valves

0330

0331

Div. 1 FM



0330



AC10

Plunger valves

6013

6014

6030

Servo valves
Piston

5404

6240

6440

6430

Servo valves
Diaphragm

6281

6213

5282

Pivoted
armature
valves

0330

0331



Customisation & development

THE BÜRKERT SYSTEMHAUS FACILITIES
ARE RESPONSIBLE FOR THE EFFICIENT,
INNOVATIVE AND COST-EFFECTIVE
DEVELOPMENT OF YOUR FLUIDIC SOLUTIONS





Our state-of-the-art Systemhaus facilities specialise in developing fluidic assemblies and solutions according to your precise requirements. A motivated and dedicated team of sales consultants, industry specialists and engineers will work hand in hand to make your project a success – with every aspect of the process under one roof! All of our production infrastructure is located on site, which allows us to respond quickly and flexibly. This combination and concentration of expertise and resources in one place translates into huge gains in efficiency and quality for you.

Why choose Bürkert as your solution partner?

- Interdisciplinary collaboration between Bürkert experts ensures seamless communication and prevents loss of information – for exceptionally efficient processes
- All process steps, ranging from development, prototype assembly and tool construction through to production, take place in one location – for fast-paced development and seamless quality
- We don't think in terms of narrowly defined industry contexts; we are always exploring new possibilities with regard to handling liquids and gases – for new, original solutions that surpass the standards in your industry
- We will use suitable system platforms for your individual solution – for a short time to market and significant cost savings

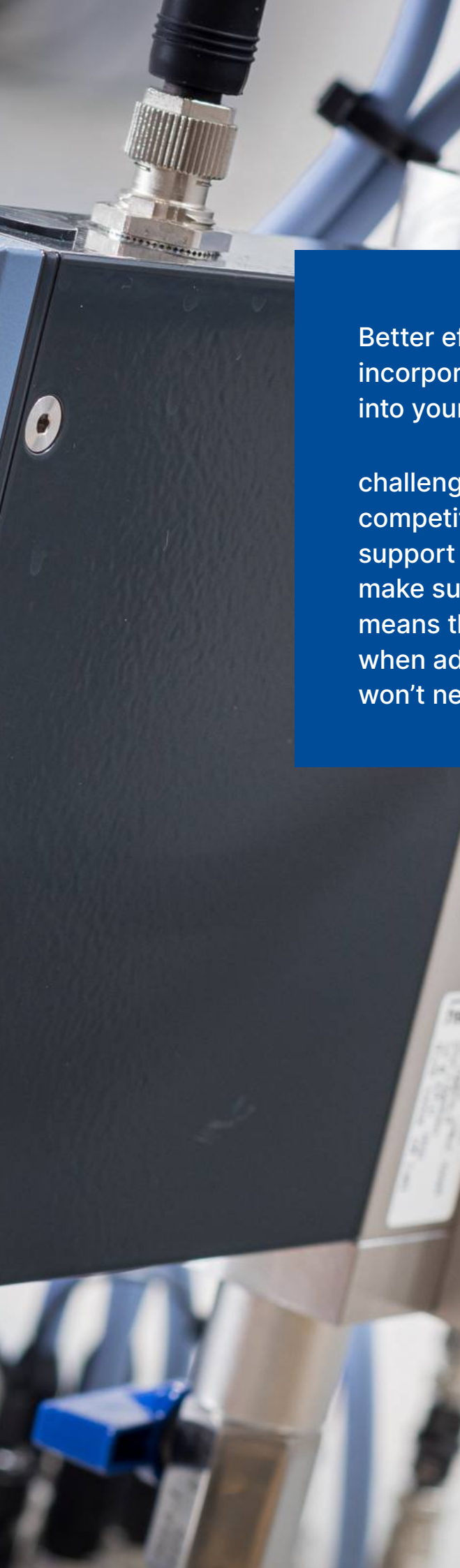
With our extensive capacity and full range of services, we will take responsibility for as much of the development process as you want us to and will coordinate all interfaces in order to provide pioneering, integrated solutions.



Automation & digitalisation

FLEXIBLE, NEUTRAL,
COMPLETE: OUR APPROACH
TO FIND THE BEST SOLUTION





Better efficiency, quality and cost-effectiveness: incorporating optimised automation and digitalisation into your processes, applications and fluidic

challenges will ensure that you stay ahead of the competition. As your expert partner, Bürkert will support you every step of the way. Our priority is to make sure you achieve the best possible results. This means that we will consider different manufacturers when advising you – the components we recommend won't necessarily come from us.

Why choose Bürkert as your solution partner?

- We understand your processes, applications and challenges – and will use these insights to develop automation solutions perfectly tailored to your tasks
- Our advice is neutral and objective – which gives us the freedom to truly find the perfect solution for you
- Our experts will use innovative approaches and select creative solutions to keep you one step ahead of the competition
- Unlike other partners, we are not just here to supply components – we will work with you to ensure your success by means of a complete automation and digitalisation concept
- If you wish, we can take care of the concept, planning and implementation – all from a single source. You won't have to worry about interfaces, compatibility or fine tuning

When it comes to finding the best solution, we always give 100% – whether you want to assign individual subtasks to us or entrust us with the entire automation and digitalisation process from initial advice right through to start-up.

Accessories

Cable plugs



TYPE 2516
Form C – DIN



TYPE 2507
Form B – Industry



TYPE 2518
Form A – DIN



TYPE 2509
Form A Conduit



Timer



TYPE 1087
Analogue and digital



Bürkert eShop



Click here
to go to the
Bürkert eShop!

Your benefits at a glance:

- 24/7 availability of the eShop
- Documents such as data sheets, CAD drawings, operating instructions and EU declarations of conformity always at hand
- View current prices, conditions, delivery times and stock levels at any time
- Download and track orders, delivery notes and invoices at any time
- Create shopping lists and save shopping carts
- Order common items via quick order

Discover these and many other advantages in our Bürkert eShop!



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

Telephone: +49 7940 10 0
info@burkert.com

burkert.com

bürkert
FLUID CONTROL SYSTEMS