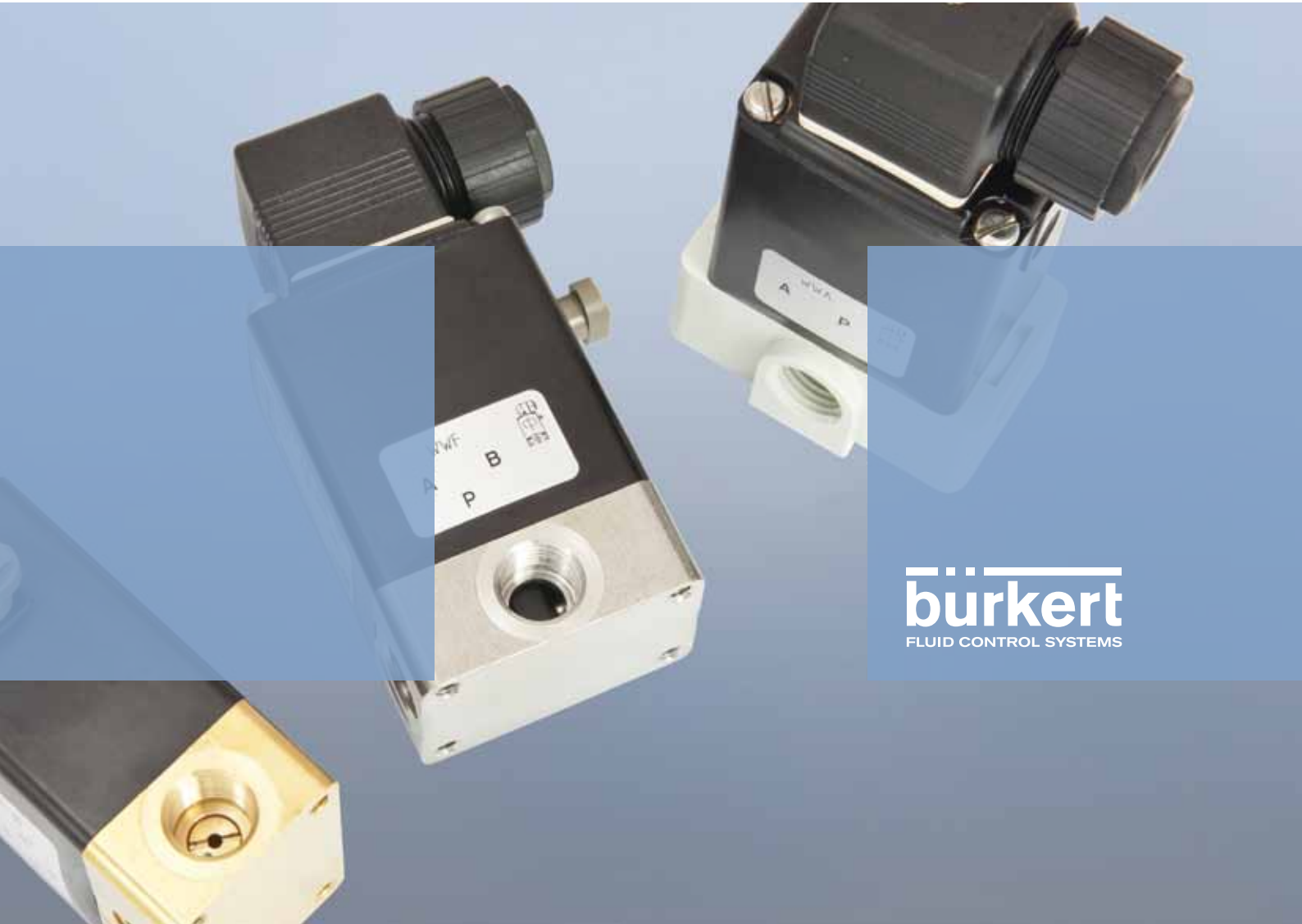


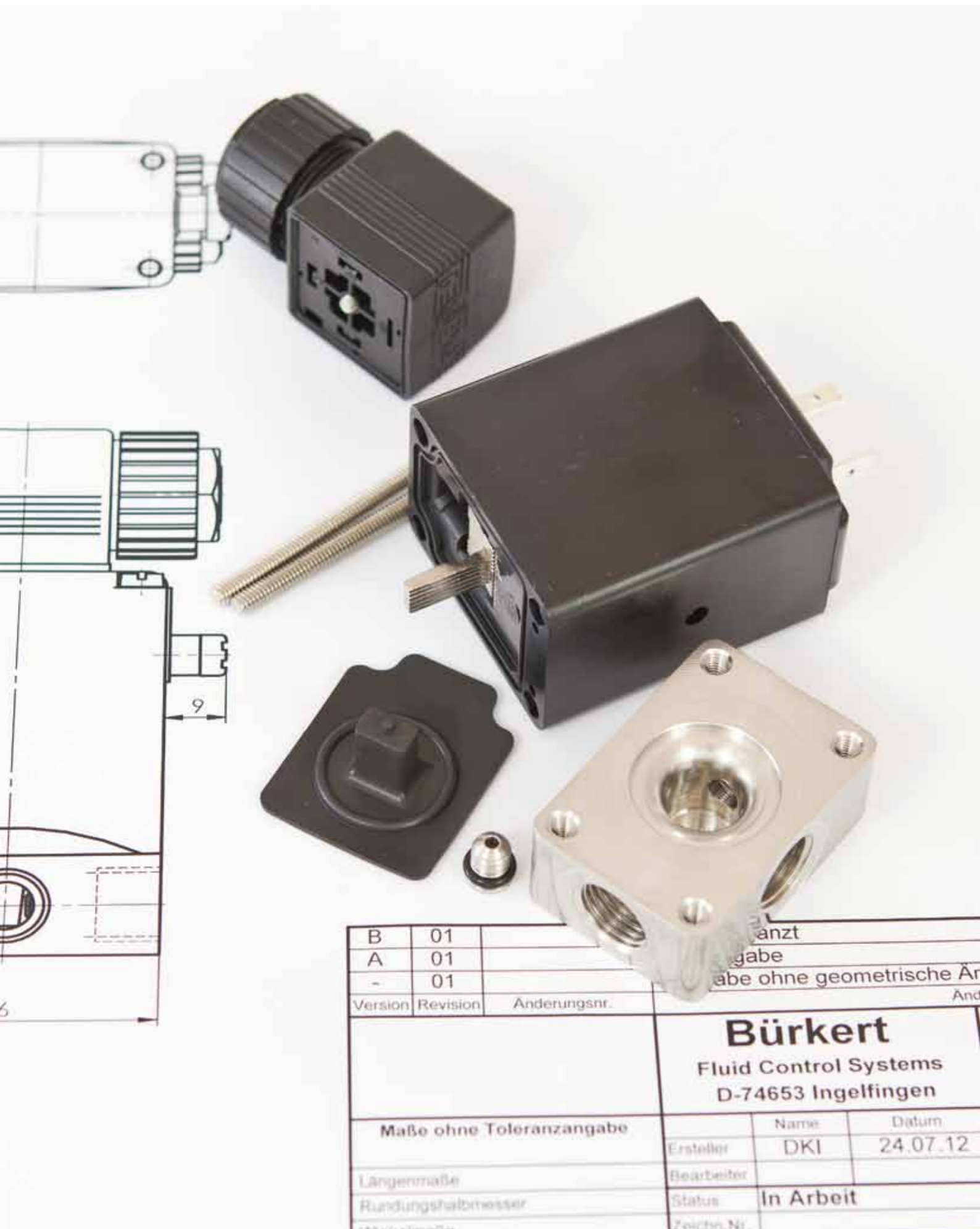
Pivoted armature valve 330



bürkert
FLUID CONTROL SYSTEMS

Pivoted armature valve 330

The 330 – a classic



More than 45 years ago the pivoted armature technology opened a new chapter in valve automation. It was Christian Bürkert himself who initiated this pioneering valve technology.

Today this unique valve innovation is used in virtually all industries. The pivoted armature can be found in the chemical processing industry, in pharmaceutical and medical technology and in the pilot control valves of fire extinguishing systems and sewage treatment plants.

Decades of application experience and continuous orientation to the (application) requirements of our customers make it one of the most universal valves in existence today.

The chosen combination of pivot mechanism and media separation make the 330 a unique Bürkert valve. What began almost five decades ago as a pioneering achievement is today a time-tested product that we are proud of.

Coil and fluid element 330

Overview of versions and properties

Bürkert developed the pivoted armature valve back in the sixties. It incorporates unparalleled expertise gained over a period of decades.

Numerous possibilities for combining the product components made the pivoted armature valve a surprisingly versatile classic valve.

It can be used as a direct-acting 2/2- and 3/2-way solenoid valve, but is also ideal as a pilot valve for servo applications. Due to the encapsulation of the coil and mechanical parts, the pivoted armature valve is ideal for critical media.

The following versions are currently available:

- Diameters: DN1 to DN5
 - Body material: Brass, stainless steel, plastics
 - Process connections: Threaded, flanged, customised solutions
 - Pressure range: 0 to 25 bar
 - Media temperatures: -30 °C to 90 °C
 - Viscosity: max. 37 Ns/m²
 - Seal material: EPDM, NBR, FKM or FFKM
- Ideal for aggressive or contaminated media
 - Normally open (NO) and normally closed (NC)
 - AC, DC and AC/DC
 - Protection type IP 65
 - Encapsulated coil and pivoted armature mechanism
 - Explosion-protected versions
 - Very long life: up to 50 million switching processes with DC



Standard versions optimised for the application are also available, which makes it easier to choose the right valve.

The following table gives an overview of the available options, certifications and certificates.

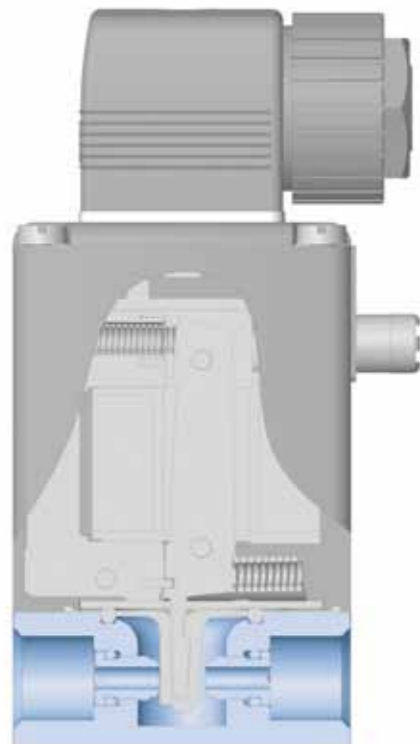
| Certifications: | Certificates: | Selectable fluidic options: | Selectable actuator options: |
|-----------------|--|--------------------------------|--|
| ATEX IEC Ex | FDA compliant, drinking water W270, WRAS, KTW | Flange and threaded connection | Position indicator |
| UL / UR | Oxygen compatibility according to BAM | Plastic and metal body | Electronic boosting of switching capacity with integrated power reduction |
| CSA | SIL 2 | Different sealing materials | Pulse versions |
| GOST | | Vacuum versions | Special voltages |
| FM-Ex | | Media-contacting parts cleaned | Standard electrical connection types |
| CSA-Ex | | | |
| CRN | | | |
| German Lloyd GL | | | |



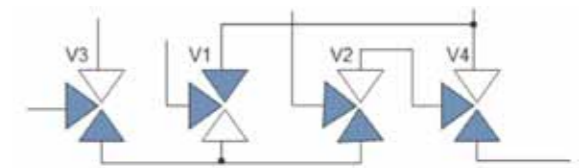
Operating principle of the 3/2-way pivoted armature valve with standard media separation and manual actuation

Diverse process connections

Body materials for all applications



Process connection types that reduce costs



Metal connections

The brass fluid body is used primarily in chemically non-critical media, such as oils or water.

Particle-bearing media also have no effect on the reliable switching of the valve.

A stainless steel (316) body is available for aggressive media such as alkalis or acids, solvents, heavy fuel oil (HFO), salt water or flue gases.

Plastic connections

The fluid bodies, made of plastics such as polypropylene (PP) or PVDF are highly resistant to media.

These versions are suitable especially for applications involving acids, alkalis or chlorine, as well as metal-free applications in the pharmaceutical and semiconductor industries.

Threaded or flanged connection

The process connections are available both as threaded and flanged connections. The threaded connections have a horizontal orientation in one plane.

The connections are available with G, NPT and RC standard threads.

The process connections of the flanged version have a vertical orientation, which facilitates flange-mounting of the valves on valve blocks.

For mounting purposes, 2 of the coil screws are longer than the others. The 3 seals for the flanged version are included in the scope of delivery.

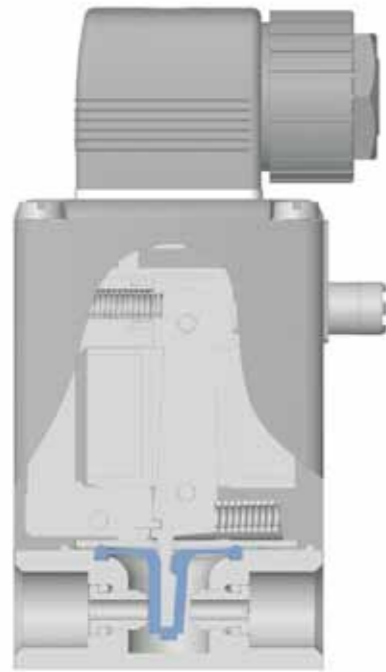
Standard mounting block and customised solutions

For fast mounting and easy commissioning, a mounting block made of aluminium, brass or stainless steel is available for up to 8 valves. Customised solutions with respect to the material and fluidics are also possible, of course. The use of compact mounting blocks saves space and pipes and helps to reduce installation costs.

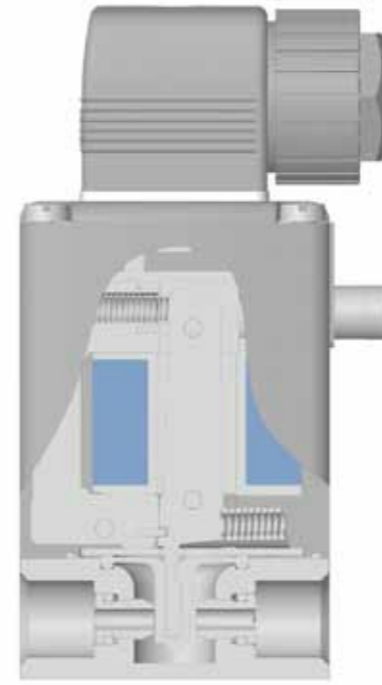
The operating principle of the valve can be changed from NC (Normally Closed) to NO (Normally Open) simply by turning the valve on the mounting block, so that one valve can be used for both operating principles. This saves costs on spare parts while increasing flexibility.

Flexible in membrane and drive

Separating membranes for optimal protection



Coil technology to save energy



Encapsulation

Encapsulation of the actuator from the fluidics by a separating membrane allows use of the valve in aggressive and/or contaminated media. This provides a reliable solution for controlling highly sensitive liquids in medical and pharmaceutical engineering applications requiring against contamination from outside. Analysis and filter systems are examples of such applications.

Membrane material and seals

Different sealing materials, such as NBR, FKM or FFKM, are available depending on the applications and media. Pharmaceutical, chemical and medical material certificates are available. Customised materials and certificates can be implemented on request.

Pulse coil

A single short current pulse is all that is needed for switching this valve function. The pulse design of this valve uses 2-coil technology. Two independent coils are responsible for switching on and off (3-litre technology). This ensures reliable and economical switching of the valve.

Energy-saving mode through power reduction

The high-performance valve actuator features an energy-saving mode in continuous operation. After only 200 ms an integrated electronic circuit reduces the power draw from 60 W to 3 W or from 40 W to 3 W.

Supply voltage

Different voltages and frequencies are available depending on the particular application and industry. In-house coil technology and automatic coiling machines allow us to implement solutions for special voltages and frequencies.

| Voltage [V] | Frequency | | |
|-------------|-----------|----|----|
| | DC = | 50 | 60 |
| 6 | • | | |
| 12 | • | • | |
| 24 | • | • | • |
| 36 | • | • | • |
| 40-42 | • | • | • |
| 48 | • | • | • |
| 100 | | • | • |
| 110 | • | • | • |
| 120 | • | • | • |
| 220 | • | • | • |
| 240 | • | • | • |

Other voltages available on request

Safety in harsh and critical environments

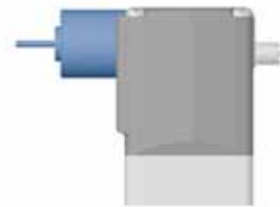
Global connection technology



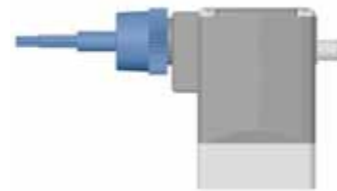
Plug-in connection



Terminal box

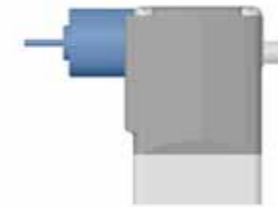


Conduit threads

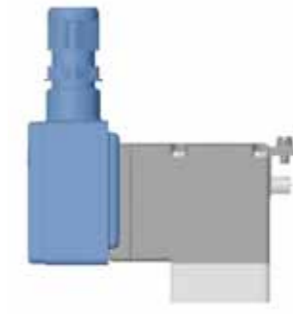


Cable connection

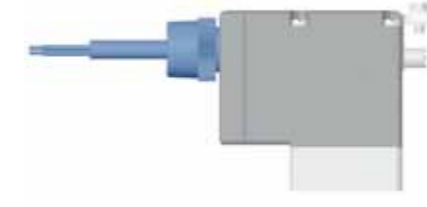
Reliable explosion protection



Ex conduit threads



Ex terminal box



Ex cable connection

Plug-in connection

For simple applications in outdoor and humid areas, the valve connector (EN 175301-803) is available with protection type IP65.

For other connector versions with protective circuit or LED, see page 20. On request the valve is also available with a moulded terminal box.

Cable outlet

For mounting at inaccessible locations the valve can be equipped at the factory with a permanently connected cable.

For applications in North America the valve is available with conduit threads. If the pivoted armature valve is used directly in the control cabinet or protected against moisture in the machine, it can be connected directly via leads.

Safe, adapted solutions also under Ex conditions

For applications in Ex areas, the coil and electrical connection are encapsulated. A protective circuit moulded in the coil body protects the environment from overheating due to voltage surges.

The electrical connections that are available are terminal box, threaded connection and moulded cable. e.g. II 2 G Ex de mb IIC T4

II 2 D Ex tD A21 IP65 T135°C

Ex Cl. I Div. 1 Grp ABCD; Cl.II/III Div. 1 Grp EFG

Increased impact protection in dust applications

To meet the high requirements of Category III dust applications, the valves have to be protected against external impact.

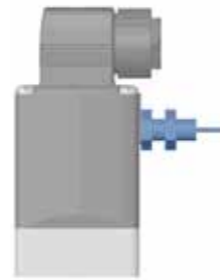
For this purpose the coil is provided with a sheet metal guard, which can also serve as weather protection.

Time-saving testing and reliable operation

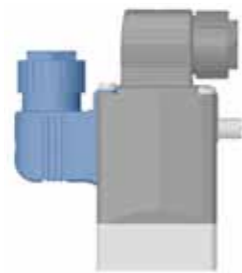
Position indicator and manual actuation



Manual control



Inductive position indicator*



Position indicator with micro-switch (SPDT)



Optical position indicator

Special design variants

Direct contact with acid or high-performance pilot control



Terminal body made of PVC or PTFE



Banjo connection for direct mounting on externally controlled valves



Pivot pin and body seal made of PTFE



Fluid channel for control medium via banjo bolt

User-friendly position indicator

An electro-mechanical position indicator facilitates mechanical indication of the switching state. This indicator can be supplemented by a potential-free micro-switch (SPDT).

A NAMUR-compliant inductive proximity switch is available for applications in the chemical industry.

Service-friendly manual operation

The pivoted armature valve features touch actuation with a stop as a standard feature. This allows current-less operation in order to test the process flow. This feature also simplifies maintenance and cleaning.

Other options:

- Touch actuation without stop
- Protection against inadvertent touch actuation
- Without touch actuation

**in the case of the inductive position indicator, position indication with a micro-switch and optical position indication are not possible.*

Increased flow rate *

Due to the modified sealing concept, this version allows diameters up to DN 8 and process connections up to size 3/8.

Media-contacting parts made of PTFE and FFKM enable use in acids and alkalis.

** Version not included in charts on pages 16-19*

Pneumatic banjo connection

For pilot control of externally controlled pneumatic and especially hydraulic servo valves the banjo version of the pivoted armature valve is used. As a media-separated pilot the valve can handle liquids and gases that are typically contaminated.

The product spectrum at a glance

The above information provides an extensive overview of the properties and functions of the pivoted armature valve.

On the following pages you can learn more about the technical details and options, to help you choose the right product for your requirements.

If you do not find a version that suits your purposes, our sales team will be glad to advise you on an individual basis.

Of course, we also offer solutions that can be customised for your individual requirements.

To find the right pivoted armature valve, you must first choose either a terminal body made of metal (page 18/19) or plastic (page 20/21).

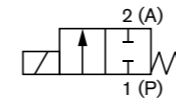
Then choose the operating principle and the diameter; the corresponding line of the table then provides all relevant data.

At the right of the matrix you will find the non-standard properties of the special versions.

All technical data applies as of the time of printing.

Please be aware of the change in the valve dimensions and duty cycle when switching from metal to plastic body and vice versa.

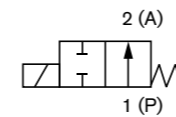
Explanation of operating principles



2/2-way valve, normally closed

Bürkert operating principle A

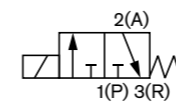
In de-energised state the pivoted armature presses the valve seal onto the valve seat by spring force, closing the valve. Under voltage, the pivoted armature is attracted by magnetic force to the coil and the valve opens.



2/2-way valve, normally open

Bürkert operating principle B

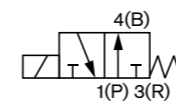
The valve is opened in currentless state, since the pivoted armature is held by the spring force of the pull-back spring. If voltage is present, the pivoted armature closes the valve seat and the flow is blocked.



3/2-way valve, normally closed

Bürkert operating principle C

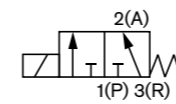
The inlet P is connected with the pressurised fluid or gas in currentless state. The connections A and R constitute the outlets. The pivoted armature blocks the inlet P and the valve therefore closed; A and R are opened. Under voltage the pivoted armature is in contact with outlet R; the fluid can flow from P to A.



3/2-way valve, normally open

Bürkert operating principle D

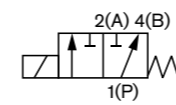
In de-energised state the pivoted armature is in contact with connection R. Therefore, a fluid or gas can flow from P to A. If current is flowing, the pivoted armature is attracted to outlet P. P is closed, A and R are opened.



3/2-way mixing valve, pressure connection in de-energised state

Bürkert operating principle E

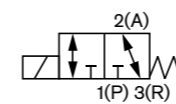
The 3/2-way mixing valve can mix two fluids together by switching of the pivoted armature. Outlet A is constantly open. Constant pressure is present at P and R. In currentless state R is open and P is closed. If current is applied the pivoted armature opens P and closes R.



3/2-way distributor valve, pressure connection in de-energised state

Bürkert operating principle F

A 3/2-way distributor valve has a constantly open connection A. By switching the valve the fluid can be conveyed to P. In currentless state the medium flows from A to R.



3/2-way valve, for universal applications

Bürkert operating principle T

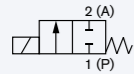
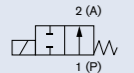
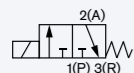
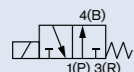
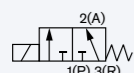
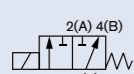
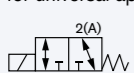
A valve with this operating principle can be used as a NO (normally open) or NC (normally closed) version by changing the mounting direction.

Metal body with threaded or flanged connection

Connection G1/4", G1/8", RC 1/4" or NPT 1/4"

Pressure ranges up to 16 bar

Body brass or stainless steel

| Operating principle (WW) ⁵ | Diameter [mm] | Kv value water [m ³ /h] | | | | Pressure range ^{3,4} [bar] | Frequency | |
|--|---------------|------------------------------------|-----------------|---------|-----------------|-------------------------------------|-----------|-----------------|
| | | Threaded | | Flanged | | | DC | AC ⁸ |
| | | DC | AC ⁸ | DC | AC ⁸ | | | |
| 2/2-way valve ¹ normally closed (A)  | 2.0 | 0.08 | 0.11 | 0.08 | 0.1 | 0-16 | • | • |
| | 3.0 | 0.14 | 0.18 | 0.12 | 0.15 | 0-10 | • | • |
| | 4.0 | 0.17 | 0.23 | 0.15 | 0.18 | 0-5 | • | • |
| | 5.0 | 0.29 | 0.29 | | | 0-2.5 | • | • |
| 2/2-way valve ¹ normally open (B)  | 2.0 | 0.08 | 0.11 | 0.08 | 0.1 | 0-16 | • | • |
| | 3.0 | 0.14 | 0.18 | 0.12 | 0.15 | 0-10 | • | • |
| | 4.0 | 0.17 | 0.23 | 0.15 | 0.18 | 0-5 | • | • |
| | 5.0 | 0.29 | 0.29 | | | 0-2.5 | • | A |
| 3/2-way valve normally closed (C)  | 2.0 | 0.08 | 0.11 | 0.08 | 0.1 | 0-16a | • | • |
| | 3.0 | 0.14 | 0.18 | 0.12 | 0.15 | 0-10 | • | • |
| | 4.0 | 0.17 | 0.23 | 0.15 | 0.18 | 0-5 | • | • |
| | 5.0 | 0.29 | 0.29 | | | 0-2.5 | • | • |
| 3/2-way valve normally open (D)  | 2.0 | 0.08 | 0.11 | 0.08 | 0.1 | 0-16 | • | • |
| | 3.0 | 0.14 | 0.18 | 0.12 | 0.15 | 0-10 | • | • |
| | 4.0 | 0.17 | 0.23 | 0.15 | 0.18 | 0-5 | • | • |
| | 5.0 | 0.29 | 0.29 | | | 0-2.5 | • | A |
| 3/2-way mixing valve (E)  | 2.0 | 0.08 | 0.11 | 0.08 | 0.1 | 0-16 | • | • |
| | 3.0 | 0.14 | 0.18 | 0.12 | 0.15 | 0-10 | • | • |
| | 4.0 | 0.17 | 0.23 | 0.15 | 0.18 | 0-5 | • | • |
| | 5.0 | 0.29 | 0.29 | | | 0-2.5 | • | A |
| 3/2-way distributor valve (F)  | 2.0 | 0.08 | 0.11 | 0.08 | 0.1 | 0-16 | • | • |
| | 3.0 | 0.14 | 0.18 | 0.12 | 0.15 | 0-10 | • | • |
| | 4.0 | 0.17 | 0.23 | 0.15 | 0.18 | 0-5 | • | • |
| | 5.0 | 0.29 | 0.29 | | | 0-2.5 | • | A |
| 3/2-way valve for universal applications (T)  | 2.0 | 0.08 | 0.11 | 0.08 | 0.1 | 0-16 | • | • |
| | 3.0 | 0.14 | 0.18 | 0.12 | 0.15 | 0-10 | • | • |
| | 4.0 | 0.17 | 0.23 | 0.18 | 0.18 | 0-5 | • | • |
| | 5.0 | 0.29 | 0.29 | | | 0-2.5 | • | • |

¹2-valve also available as angle version

⁵() = internal name

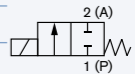
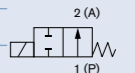
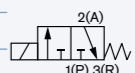
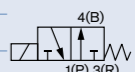
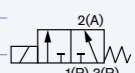
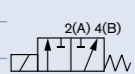

²Pressure specification at 8 W

⁶The pulse variants are not available as Ex versions

³Units as standard version are not vacuum suitable

⁷Pressure range, voltage and Kv are non-standard

⁴The sealing materials FKM and FFKM can be used up to max. 12 bar ⁸50 or 60 Hz

| Operating principle (WW) ⁵ | Diameter [mm] | Sealing materials | | | | Special versions | | |
|--|---------------|-------------------|-------------------|---------------------|------------------|-------------------------|-----------------------------------|---------------------------------------|
| | | NBR 0° ... 80 °C | FFKM 5° ... 90 °C | EPDM -30° ... 90 °C | FKM 0° ... 90 °C | Ex version ⁷ | Vacuum | Pulse ⁶ |
| | | | | | | | Pressure range ² [bar] | Pressure range ^{2,3,4} [bar] |
| 2/2-way valve ¹ normally closed (A)  | 2.0 | • | • | • | • | • | -0.98-10 | 0-16 |
| | 3.0 | • | • | • | • | • | -0.98-6 | 0-10 |
| | 4.0 | • | • | • | • | • | -0.98-3 | 0-5 |
| | 5.0 | • | A | • | • | A | -0.98-1 | 0-2.5 |
| | 2.0 | • | • | • | • | • | -0.98-10 | 0-16 |
| 2/2-way valve ¹ normally open (B)  | 3.0 | • | • | • | • | • | -0.98-6 | 0-10 |
| | 4.0 | • | • | • | • | • | -0.98-3 | 0-5 |
| | 5.0 | - | A | • | • | • | -0.98-1 | 0-2.5 |
| | 2.0 | • | • | • | • | • | -0.98-10 | 0-16 |
| | 3.0 | • | • | • | • | • | -0.98-6 | 0-10 |
| 3/2-way valve normally closed (C)  | 4.0 | • | • | • | • | • | -0.98-3 | 0-5 |
| | 5.0 | • | A | • | • | A | -0.98-1 | 0-2.5 |
| | 2.0 | • | • | • | • | • | -0.98-10 | 0-16 |
| | 3.0 | • | • | • | • | • | -0.98-6 | 0-10 |
| | 4.0 | • | • | • | • | • | -0.98-3 | 0-5 |
| 3/2-way valve normally open (D)  | 5.0 | - | A | • | • | A | -0.98-1 | 0-4.5 |
| | 2.0 | • | • | • | • | • | -0.98-8 | 0-10 |
| | 3.0 | • | • | • | • | • | -0.98-5 | 0-6 |
| | 4.0 | • | • | • | • | • | -0.98-2.5 | 0-3 |
| | 5.0 | - | - | A | • | • | -0.98-1 | - |
| 3/2-way mixing valve (E)  | 2.0 | • | • | • | • | • | -0.98-10 | 0-16 |
| | 3.0 | • | • | • | • | • | -0.98-6 | 0-10 |
| | 4.0 | • | • | • | • | • | -0.98-3 | 0-5 |
| | 5.0 | • | • | • | • | A | -0.98-1 | 0-2.5 |
| | 2.0 | • | • | • | • | • | -0.98-8 | 0-10 |
| 3/2-way distributor valve (F)  | 3.0 | • | • | • | • | • | -0.98-5 | 0-6 |
| | 4.0 | • | • | • | • | • | -0.98-3 | 0-3 |
| | 5.0 | - | • | A | • | A | -0.98-1 | - |
| | 2.0 | • | • | • | • | • | -0.98-10 | 0-16 |
| | 3.0 | • | • | • | • | • | -0.98-6 | 0-10 |
| 3/2-way valve for universal applications (T)  | 4.0 | • | • | • | • | • | -0.98-3 | 0-3 |
| | 5.0 | • | • | • | • | • | -0.98-8 | 0-10 |
| | 2.0 | • | • | • | • | • | -0.98-10 | 0-16 |
| | 3.0 | • | • | • | • | • | -0.98-6 | 0-10 |
| | 4.0 | • | • | • | • | • | -0.98-3 | 0-3 |

* available in standard version

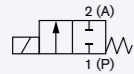
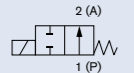
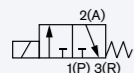
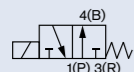
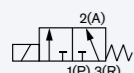
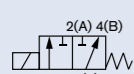
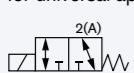
A available on request

Plastic body with threaded or flanged connection

Connection G1/4", G1/8", RC 1/4" or NPT 1/4"

Pressure ranges up to 16 bar

Body PP or PVDF

| Operating principle (WW) ⁵ | Diameter [mm] | Kv value water [m ³ /h] | | Pressure range ^{2,5} [bar] | | Sealing materials of the standard versions | | | |
|---|---------------|------------------------------------|---------|-------------------------------------|----------------|--|------------------|--------------------|-----------------|
| | | Threaded | Flanged | DC | AC 50 or 60 Hz | NBR 0° ... 80°C | FFKM 5° ... 80°C | EPDM -30° ... 80°C | FKM 0° ... 80°C |
| 2/2-way valve ¹ normally closed (A)  | 2.0 | 0.13 | 0.1 | 0-12 | 0-16 | * | * | * | * |
| | 3.0 | 0.25 | 0.23 | 0-8 | 0-10 | | * | * | * |
| | 4.0 | 0.3 | 0.28 | 0-4 | 0-5 | | * | * | * |
| | 5.0 | 0.4 | | 0-3 | 0-4.5 | | * | * | * |
| 2/2-way valve ¹ normally open (B)  | 2.0 | 0.13 | 0.1 | 0-12 | 0-16 | * | * | * | * |
| | 3.0 | 0.25 | 0.23 | 0-8 | 0-10 | | * | * | * |
| | 4.0 | 0.3 | 0.28 | 0-4 | 0-5 | | * | * | * |
| | 5.0 | 0.4 | | 0-3 | 0-4.5 | | * | * | * |
| 3/2-way valve normally closed (C)  | 2.0 | 0.13 | 0.1 | 0-12 | 0-16 | * | * | * | * |
| | 3.0 | 0.25 | 0.23 | 0-8 | 0-10 | | * | * | * |
| | 4.0 | 0.3 | 0.28 | 0-4 | 0-5 | | * | * | * |
| | 5.0 | 0.4 | | 0-3 | 0-4.5 | | * | * | * |
| 3/2-way valve normally open (D)  | 2.0 | 0.13 | 0.1 | 0-12 | 0-16 | * | * | * | * |
| | 3.0 | 0.25 | 0.23 | 0-8 | 0-10 | | * | * | * |
| | 4.0 | 0.3 | 0.28 | 0-4 | 0-5 | | * | * | * |
| | 5.0 | 0.4 | | 0-3 | 0-4.5 | | * | * | * |
| 3/2-way mixing valve (E)  | 2.0 | 0.13 | 0.1 | 0-7 | 0-10 | | * | * | * |
| | 3.0 | 0.25 | 0.23 | 0-4 | 0-6 | * | * | * | * |
| | 4.0 | 0.3 | 0.28 | 0-2 | 0-3 | | * | * | * |
| | 5.0 | 0.4 | | 0-1 | 0-1.5 | | * | * | * |
| 3/2-way distributor valve (F)  | 2.0 | 0.13 | 0.1 | 0-12 | 0-16 | | * | * | * |
| | 3.0 | 0.25 | 0.23 | 0-8 | 0-10 | | * | * | * |
| | 4.0 | 0.3 | 0.28 | 0-4 | 0-5 | * | * | * | * |
| | 5.0 | 0.4 | | 0-3 | 0-4.5 | * | * | * | * |
| 3/2-way valve for universal applications (T)  | 2.0 | 0.13 | 0.1 | 0-7 | 0-10 | | * | * | * |
| | 3.0 | 0.25 | 0.23 | 0-4 | 0-6 | | * | * | * |
| | 4.0 | 0.3 | 0.28 | 0-2 | 0-3 | | * | * | * |
| | 5.0 | 0.4 | | 0-1 | 0-1.5 | | * | * | * |

¹2-valve also available as angle version

⁵() = internal name

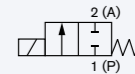
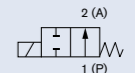
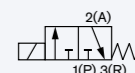
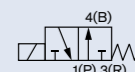
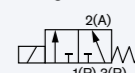
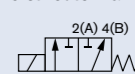

²Pressure specification at 8 W

⁶The pulse variants are not available as Ex versions

³Units as standard version are not vacuum suitable

⁷Pressure range, voltage and Kv are non-standard

⁴The sealing materials FKM and FFKM can be used up to max. 12 bar

| Ex version ⁷ | Special versions | | Sealing materials of the vacuum and pulse versions | | | | Diameter [mm] | Operating principle (WW) ⁵ |
|-------------------------|------------------|--------------------|--|-------------------|---------------------|--------------------|---------------|---|
| | Vacuum | Pulse ⁶ | NBR -30° ... 80 °C | FFKM 0° ... 80 °C | EPDM -30° ... 80 °C | FKM -10° ... 80 °C | | |
| * | 0.8-10 | 0-12 | * | * | * | * | 2,0 | 2/2-way valve ¹ normally closed (A) |
| * | 0.8-6 | 0-8 | * | * | * | * | 3,0 |  |
| * | 0.8-3 | 0-4 | * | * | * | * | 4,0 | |
| * | 0.8-1 | 0-3 | * | A | * | * | 5,0 | |
| * | 0.8-10 | 0-12 | * | * | * | * | 2,0 | |
| * | 0.8-6 | 0-8 | * | * | * | * | 3,0 |  |
| * | 0.8-3 | 0-4 | * | * | * | * | 4,0 | |
| * | 0.8-1 | 0-3 | - | A | * | * | 5,0 | |
| * | 0.8-10 | 0-12 | * | * | * | * | 2,0 | |
| * | 0.8-6 | 0-8 | * | * | * | * | 3,0 |  |
| * | 0.8-3 | 0-4 | * | * | * | * | 4,0 | |
| * | 0.8-1 | 0-3 | * | A | * | * | 5,0 | |
| * | 0.8-10 | 0-12 | * | * | * | * | 2,0 | |
| * | 0.8-6 | 0-8 | * | * | * | * | 3,0 |  |
| * | 0.8-3 | 0-4 | * | * | * | * | 4,0 | |
| * | 0.8-1 | 0-3 | - | A | * | * | 5,0 | |
| * | 0.8-7 | 0-7 | * | * | * | * | 2,0 | |
| * | 0.8-5 | 0-4 | * | * | * | * | 3,0 |  |
| * | 0.8-2.5 | 0-2 | * | * | * | * | 4,0 | |
| * | 0.8-1 | 0-1 | - | * | A | * | 5,0 | |
| * | 0.8-10 | 0-12 | * | * | * | * | 2,0 | |
| * | 0.8-6 | 0-8 | * | * | * | * | 3,0 |  |
| * | 0.8-3 | 0-4 | * | * | * | * | 4,0 | |
| * | 0.8-1 | 0-3 | - | * | * | * | 5,0 | |
| * | 0.8-7 | 0-7 | * | * | * | * | 2,0 | |
| * | 0.8-5 | 0-4 | * | * | * | * | 3,0 |  |
| * | 0.8-2.5 | 0-2 | * | * | * | * | 4,0 | |
| * | 0.8-1 | 0-1 | - | * | A | * | 5,0 | |

* available in standard version

A available on request

Connector sockets and accessories

In addition to the large selection of connections and materials, we also offer additional accessories that make the pivoted armature valve a simple yet complete solution.

The connector socket 2508 supplements and expands the application spectrum of the solenoid valve. Besides visualisation of the switching state and various standard functions, an energy-saving reduced power version (2508 LR) is available for extended duty cycles.

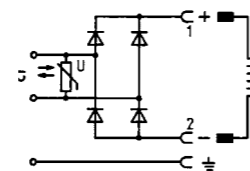
Without circuitry, 2-pin + protective conductor

| Voltage | Constant current | Order no. without cable |
|----------------------|------------------|-------------------------|
| 0 to 250 V/AC/DC | max. 6 A | 008 376 |
| Technical data | | Order no. |
| with conduit threads | | 137 943 |



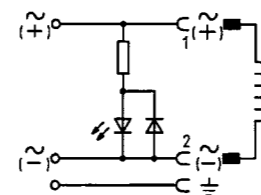
With rectifier and varistor

| Voltage | Constant current | Order no. without cable |
|-------------------|------------------|-------------------------|
| 12 to 240 V/AC/DC | max. 1 A | 008 374 |



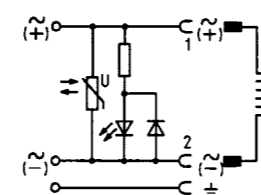
With LED

| Voltage | Constant current | Order no. without cable | Order no. 3 m cable |
|--------------------|------------------|-------------------------|---------------------|
| 12 to 24 V/AC/DC | max. 6 A | 008 360 | 783 575 |
| 100 to 120 V/AC/DC | max. 6 A | 008 361 | - |
| 200 to 240 V/AC/DC | max. 6 A | 008 362 | 783 577 |



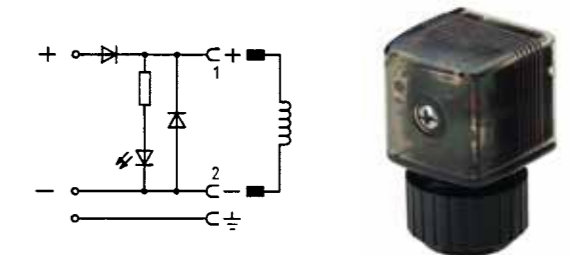
With LED and varistor

| Voltage | Constant current | Order no. without cable | Order no. 3 m cable |
|----------------------|------------------|-------------------------|---------------------|
| 12 to 24 V/AC/DC | max. 6 A | 008 360 | 783 579 |
| 100 to 120 V/AC/DC | max. 6 A | 008 361 | 783 581 |
| 200-240 V/AC/DC | max. 6 A | 008 362 | 783 583 |
| Technical data | | | Order no. |
| with conduit threads | | | 137 944 M |
| with conduit threads | | | 137 945 N |
| with conduit threads | | | 137 946 P |



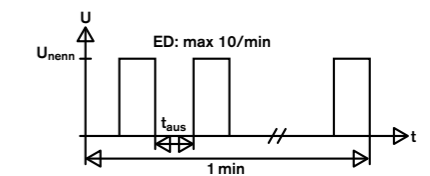
With polarity protection, recovery diode and LED

| Voltage | Constant current | Order no. without cable | Order no. 3 m cable |
|---------------|------------------|-------------------------|---------------------|
| 12 to 24 V/DC | max. 1 A | 008 373 | 783 587 |



With power reduction type 2508 LR

| Technical data | Order no. |
|--|--|
| Operating voltage U_{nom} | 12-24 VDC Supply voltage according to IEC 364-4-41 (PELV) |
| Max. current | 1.5 A (starting), 0.4 A (holding) |
| Starting power (P_{nom}) depends on valve | max. 36 W at 24 V (18 W at 12 V) |
| Holding power ($1/4 P_{nom}$) depends on valve | max. 9 W at 24 V (4.5 W at 12 V) |
| Overexcitation time | ca. 350 ms |
| Max. duty cycle LED | 10/min |
| Off time t_{off} between two start-ups | min. 1 sec |



See also data sheet for Type 2508



Locking ring

| Technical data | Order no. |
|--|-----------|
| Locking ring to prevent inadvertent manual actuation | 013 372 |



More solutions – pivoted armature valve as a pilot valve

3/2-way plunger valve made of brass

Pressure range vacuum to 16 bar, for air and neutral gases in diameters DN 8 ... 40.



2/2-way plastic valve made of PVDF or PVC

Media-contacting and metal-free, for aggressive alkalis and acids.



2/2-way servo valve made of brass, grey cast iron or stainless steel

Threaded and flanged versions, for easily contaminated and aggressive media



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