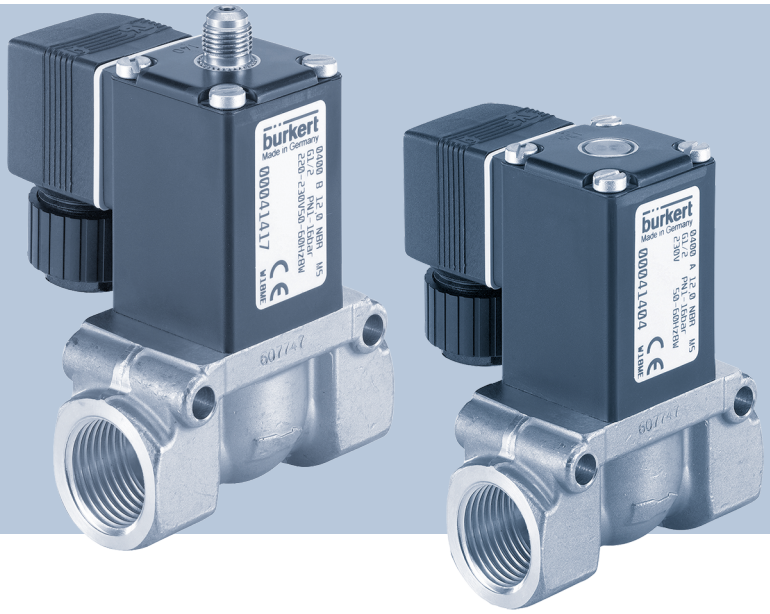
bürkert
FLUID CONTROL SYSTEMS

MAN 1000206058 EN Version: - Status: RL (released | freigegeben) printed: 05.10.2026

Type 0400

2/2-way solenoid valve



Operating Instructions

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Technical documentation 2511/23_GBen_00893079_1213813259_1213841035 / Original DE

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1 About this document

The document is an important part of the product and guides the user to safe installation and operation. The information and instructions in this document are binding for the use of the product.

- Before using the product for the first time, read and observe the whole safety chapter.
- Before starting any work on the product, read and observe the respective sections of the document.
- Keep the document available for reference and give it to the next user.
- Contact the Bürkert sales office for any questions.

Further information concerning the product at Products.

- Enter the article number from the type label in the search bar.

The illustrations in these instructions may vary depending on the product variant.

1.1 Terms and abbreviations

The terms and abbreviations are used in this document to refer to following definitions.

Product	Solenoid valve Type 0400

1.2 Symbols

DANGER!

Warns of a danger that leads to death or serious injuries.

WARNING!

Warns of a danger that can lead to death or serious injuries.

CAUTION!

Warns of a danger that can lead to minor injuries.

NOTICE!

Warns of property damage on the product or the installation.

Indicates important additional information, tips and recommendations.

Refers to information in this document or in other documents.

- Indicates a step to be carried out.

✓ Indicates a result.

Menu Indicates a software user-interface text.

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1.3 Manufacturer

Bürkert Fluid Control Systems

Christian-Bürkert-Str. 13–17

74653 Ingelfingen

GERMANY

The contact addresses are available at Contact.



Need more information or additional products?

- Explore the full range of products on our eShop.

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2 Safety

2.1 Intended use

Unauthorised use of the Type 0400 solenoid valve may be dangerous to people, nearby equipment and the environment.

- The device is designed for controlling, shutting off and dosing media.
- With a properly connected and assembled cable plug, e.g. Bürkert Type 2508, the device complies with degree of protection IP65 in accordance with DIN EN 60529/ IEC 60529.
- When using the device, observe the authorised data, and the operating and usage conditions specified in the contract documents and in the operating instructions.
- Prerequisites for safe and trouble-free operation are correct transport, correct storage and installation as well as careful operation and maintenance.
- Only use the device as intended.

Restrictions

Please observe any existing restrictions when exporting the device.

2.2 Basic safety instructions

These safety instructions do not take into account any incidents or events that may occur during installation, operation or maintenance.

Risk of injury due to high pressure in the system or device

- Before working on the system or device, switch off the pressure and ventilate and empty the lines.

Danger due to electrical voltage

- Before reaching into the device or the system, switch off the power supply and secure it against reactivation.
- Observe the applicable accident prevention and safety regulations for electrical devices.

Risk of burns or fire due to hot device surface if device is operated continuously.

- Keep the device away from highly flammable substances and media and do not touch with bare hands.

Risk of injury from malfunctioning valves with alternating current (AC)

A seized core will cause the coil to overheat, which leads to functional failure.

- Monitor the working process for proper function.

Risk of short-circuit or escape of medium due to leaking fittings.

- Make sure valve seats are properly seated.
- Screw valve and connection lines together carefully.

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General hazardous situations

To prevent injuries, observe the following:

- Do not make any internal or external changes. Secure the system or device against unintentional activation.
- Installation and maintenance tasks must always be performed by authorised technicians, using the appropriate tools.
- The process must be restarted in a defined or controlled manner after an interruption in the power supply or pneumatic supply.
- Do not subject the body/housing to mechanical stress.
- Observe general engineering standards and rules.

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3 Technical data

3.1 Standards and directives

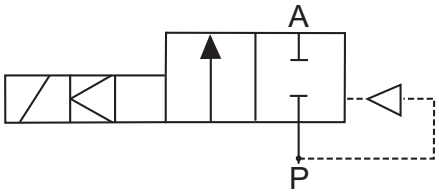
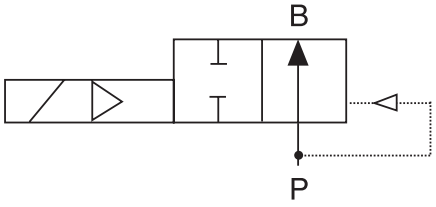
This product complies with the legal requirements applicable at the time of placing on the market and has been developed and tested in accordance with the relevant European directives/regulations and harmonized standards. The conformity is documented and, if necessary, supported by evidence. The EU Declaration of Conformity can be found behind the respective type on the home page country.burkert.com

3.2 Operating conditions

The following values are indicated on the type label:

- Voltage (tolerance ±10%)/current type
- Coil power (active power in W – at operating temperature)
- Pressure range
- Body material: anodised aluminium (AL) DN6, brass (MS) DN12
- Seal material: NBR, FKM

Circuit functions

A (NC)		2/2-way valve, normally closed
B (NO)		2/2-way valve, normally open

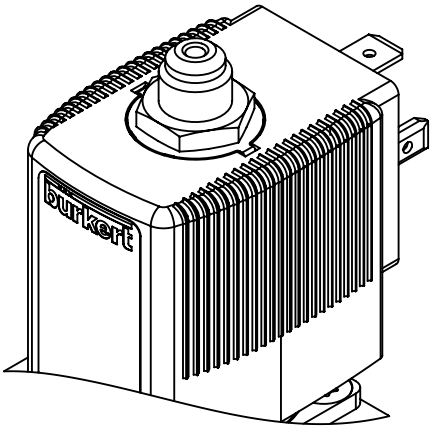
Degree of protection	IP65 in accordance with DIN EN 60529/IEC 60529 with cable plug, e.g. Bürkert Type 2508

Special instructions for valves circuit function B (NO) with exhaust port G1/8 on the coil:

The valve is open when there is no power. The medium also flows out via the exhaust port on the coil .

Valves of this type are therefore only suitable for compressor relief.

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3.3 Usage conditions

Ambient temperature	max. +55 °C
Medium temperature	NBR: –10...+90 °C FKM: –10...+100 °C
Operating duration	Unless otherwise specified on the type label, the solenoid actuator is suitable for continuous operation
Storage temperature	–40 °C to +80 °C

Important information to ensure functional reliability during continuous operation! During a long downtime it is recommended to actuate at least 1–2 switching operations per day.

Service life

High switching frequency and high pressure will reduce overall service life

Seal material	Permitted temperatures
NBR	–10...+90 °C
FKM	–10...+100 °C

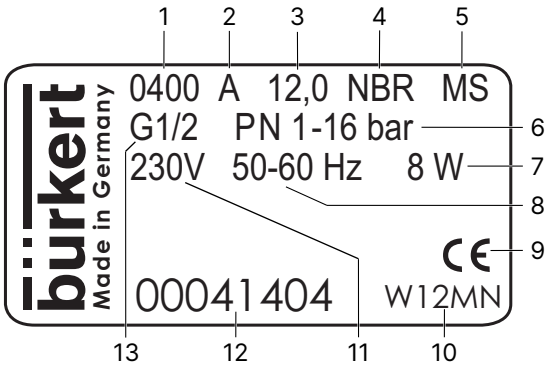
Tab. 1: Permissible medium temperature depending on seal material

Seal material	Permitted media
NBR	Non-aggressive media such as compressed air, town gas, water, hydraulic oil, oils and greases without additives
FKM	Oxygen, hot air, hot oils, oils with additives, per solutions

Tab. 2: Permissible media depending on the seal material

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3.4 Type label



1	Type	2	Circuit function
3	Orifice	4	Sealing material
5	Body material	6	Operating pressure
7	Power	8	Frequency
9	CE marking	10	Serial number
11	Voltage	12	Article number
13	Port connection		

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4 Installation

4.1 Safety instructions

DANGER!

Risk of injury due to high pressure in the system or device

- Before working on the system or device, switch off the pressure and ventilate and empty the lines.

DANGER!

Risk of injury from electric shock

- Before working on the system or device, switch off the power supply and secure against reactivation.
- Observe the applicable accident prevention and safety regulations for electrical devices.

WARNING!

Risk of injury due to improper installation

- Installation may be carried out only by trained technicians and with the appropriate tools!
- Secure the system against unintentional activation.
- Following installation, ensure a controlled restart.

4.2 Installation

Installation position: any, preferably coil on top

- Clean pipelines of any contamination.
- Install a dirt trap upstream of the valve inlet (≤ 500 µm).

NOTICE!

Caution! Risk of breakage

- Do not use the coil as a lever arm.

- Seal the threads.
- Hold the device on the body using an open-end wrench and screw into the pipeline.

The valve body must not be installed under tension. Seal material must not get into the device.

- Note the flow direction.
  The arrow on the body indicates the flow direction.

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4.3 Electrical connection of cable plug

WARNING!

Risk of injury from electric shock

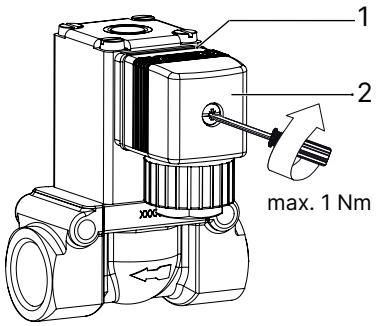
- Before working on the system or device, switch off the power supply and secure against reactivation!
- Observe the applicable accident prevention and safety regulations for electrical devices!

WARNING!

Risk of electric shock if protective conductor not connected

- Always connect the protective conductor.
- Check electrical continuity between the coil and the body.

- Switch off power supply.
- Screw cable plug tight (for approved types see data sheet), ensuring a maximum torque of 1 Nm.
- Check that the valve seal is correctly seated.
- Connect protective conductor and check electrical continuity between coil and body.



1 Seal	2 Approved cable plug, e.g. Type 2508 or other suitable cable plug in accordance with DIN EN 175301-803 Form A

The cable plug can be rotated by 90° four times.

4.4 Electrical connection of the coil

The coil can be rotated by 90° or 180°.

- Switch off power supply.
- Remove the cable plug.
- Loosen four fastening screws.
- Rotate the coil.

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5 Maintenance, troubleshooting

WARNING!

Risk of injury due to improper maintenance work

- Maintenance may be carried out only by trained specialist technicians and with the appropriate tools!

WARNING!

Risk of injury from unintentional activation of the system and uncontrolled restart

- Secure the system against unintentional activation.
- Ensure a controlled restart after maintenance is completed.

5.1 Troubleshooting

If faults occur, check whether:

- the device has been installed correctly,
- the electrical and fluid connections have been properly set up,
- the device is not damaged,
- all screw-type connections are firmly tightened,
- voltage and pressure have been applied,
- the pipelines are clean,
- the power supply is strong enough.

Valve does not actuate

Possible cause:

- Short circuit or coil interrupted.
- Inadequate power supply.
- Core or core area contaminated.
- Operating pressure outside the permitted pressure range.

Valve does not close

Possible cause:

- Interior of the valve contaminated.

If the valve still does not actuate or close, contact your local Bürkert Service representative.

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6 Spare parts

CAUTION!

Risk of injury and/or damage to property due to incorrect parts

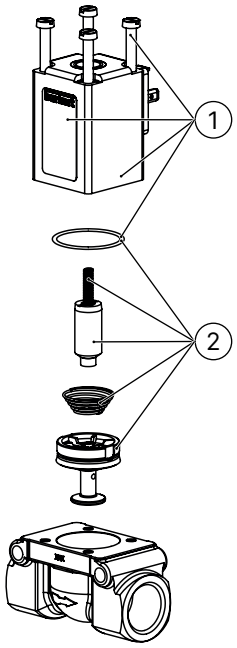
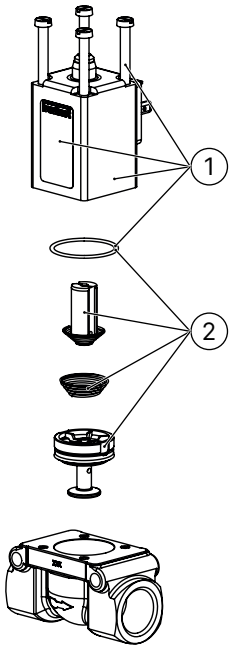
Incorrect accessories and unsuitable spare parts may cause injuries and damage the device and the surrounding area.

- Use only original accessories and original spare parts from Bürkert.

6.1 Ordering spare parts

Order the spare parts kits, quoting the position numbers (Item 1: Coil set; Item 2: Wearing part set) and the identification number of the device.

6.2 Overview of spare parts

Spare parts kits for circuit function A	Spare parts kits for circuit function B
	

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7 Logistics

7.1 Transport and storage

- Protect the device against moisture and dirt in the original packaging during transportation and storage.
- Avoid UV radiation and direct sunlight.
- Protect connections, if present, from damage with protective caps.
- Observe the permitted storage temperature.

7.2 Return

No work or tests will be carried out on the device until a valid Contamination Declaration has been received.

- To return a used device to Bürkert, contact the Bürkert sales office. A return number is required.

7.3 Disposal

Environmentally friendly disposal



- Follow national regulations regarding disposal and the environment.
- Collect electrical and electronic devices separately and dispose of them as special waste.

Further information at country.burkert.com

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