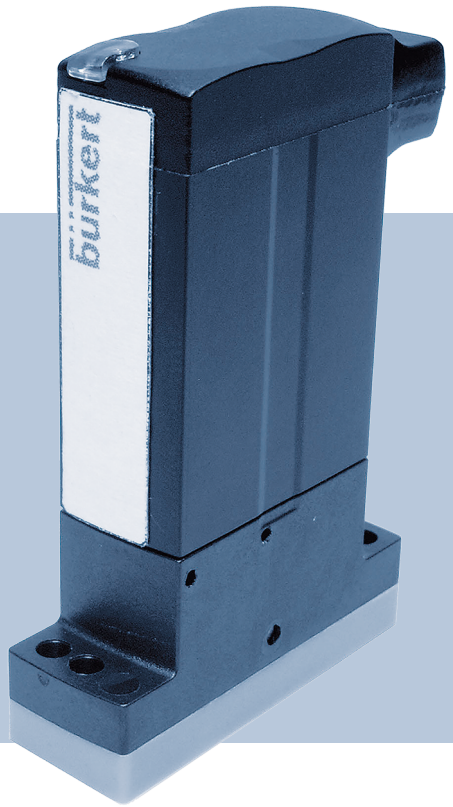
bürkert
FLUID CONTROL SYSTEMS

MAN 1000653322 EN Version: A Status: RL (released | freigegeben) printed: 14.05.2026

Type 6624

2/2 and 3/2-way rocker solenoid valve with media separation



Operating Instructions

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Technical documentation 2511/08_GBen_00809495_968484619_968597899 / 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 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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1.2 Terms and abbreviations

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

Product	Solenoid valve Type 6624

1.3 Manufacturer

Bürkert Fluid Control Systems

Christian-Bürkert-Str. 13–17

74653 Ingelfingen

GERMANY

The contact addresses are available at Contact.

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2 Safety

2.1 Intended use

The Type 6624 rocker solenoid valve is designed to be used in analysis, medicinal and laboratory technology. It is preferably used for dosing, filling, mixing and distributing liquids and gases.

- Do not use Type 6624 without the appropriate safeguards outdoors.
- Do not use rectified alternating voltage without smoothing as a supply voltage.
- Only use the device when it is in perfect condition, and always ensure proper storage, transportation, installation and operation.

2.2 Basic safety instructions

Danger – high pressure

- Before loosening lines or valves, switch off the pressure and drain the lines.

Risk of burns/fire from hot device surfaces due to prolonged activation time

- Keep Type 6624 away from highly flammable substances and media, and do not touch with bare hands.
- Do not obstruct heat dissipation required for operation.

Medium may leak out if the diaphragm is worn

- Check regularly for any medium leakages.
- If the medium is hazardous, secure the environment against risks.

Ensure the following to prevent injuries:

- Secure the system/device against unintentional activation.
- Do not use in potentially explosive atmospheres.
- Do not make any internal or external changes.
- Ensure that only trained technicians carry out installation and maintenance work.
- After interruption of the power supply, ensure that the process is restarted in a controlled manner.
- Comply with the generally accepted engineering standards.

Electrostatically sensitive components/assemblies

Observe the requirements in accordance with EN 61340-5-1 and 5-2 to minimise or avoid the possibility of damage caused by a sudden electrostatic discharge!

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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

Permitted temperature range (standard)

Ambient temperature	+15...+50°C
Storage temperature	–10...+65°C
Extended temperature ranges	See data sheet
Media	Aggressive, neutral gaseous and liquid media that do not attack the body and seal materials (see resistance table). Check for sufficient resistance in each individual case.
Degree of protection	IP40
Protection class	3 according to VDE 0580

3.3 Electrical data

See Type label [▶ 8]

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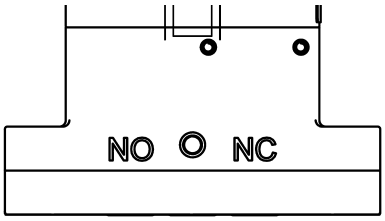
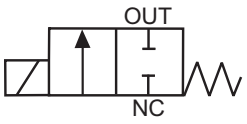
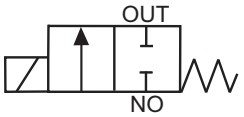
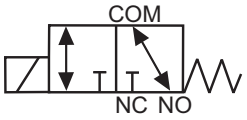
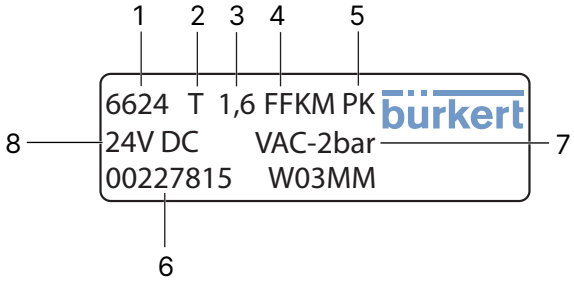
4 Product description

4.1 Circuit functions



	NO	O	NC	
2/2-way valve	OUT (vac – p_{max} [1)])	X	NC (vac – p_{max} [1)])	CFA 
2/2-way valve	NO (vac – p_{max} [1)])	X	OUT (vac – p_{max} [1)])	CFB 
3/2-way valve	NO (vac – p_{max} [1)])	IN/OUT (vac – p_{max} [1)])	NC (vac – p_{max} [1)])	CFT 

4.2 Type label



1	Type	2	Circuit function
3	Orifice	4	Sealing material
5	Body material	6	Article number
7	Pressure range	8	Voltage

1) In vacuum operation, the maximum pressure difference according to the data sheet.

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Observe the data for voltage, current type and pressure listed on the type label.

Body material

PK = PEEK
PS = PPS

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5 Installation/disassembly

5.1 Fluidic installation

WARNING!

Risk of injury from high pressure in the system

- Before loosening lines or valves, switch off the pressure and drain the lines.

Installation position: any, preferably with actuator on top.

- Clean pipelines and flange connections.
- Install dirt trap in the direction of the current before the valve (mesh width 5 µm).

WARNING!

Risk of escaping medium if seal is incorrectly fitted

- Ensure that the seals provided fit properly.
- Only use manifolds of sufficient quality and with a flat surface.

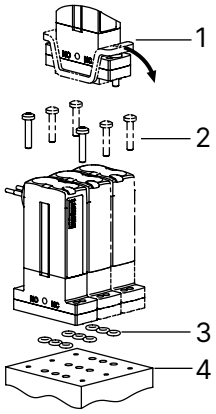

Fig. 1: Hole pattern

1	Cover	2	Screws
3	Seals	4	Manifold

- Drill holes in accordance with the drill diagram (see data sheet for dimensions).
- Remove cover (if present).
- Check seals and ensure they are clean.
- Correctly assign fluid connections 1, 2 and 3 on the valve and manifold.
- Secure the valve with screws (recommended tightening torque for ISO metal threads >= 0.3 Nm).
- Check installation for tightness.

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5.2 Electrical installation

Power supply	Tolerance ±10%
Maximum permitted residual ripple	Tolerance ±10% of nominal voltage
Power consumption	Actuation/switch-on pulse: 4 W Holding power: 1 W

The correct polarity is a prerequisite for the function of the valve (see data sheet).

5.3 Disassembly

WARNING!

Risk of injury from dangerous fluids

- Before loosening lines or valves, flush out hazardous media, depressurise and drain the lines.

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6 Maintenance

- Check regularly for any medium leakages.

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7 Troubleshooting

If faults occur, check:

- that the fluidics connections are assigned correctly in accordance with the circuit functions,
- whether the operating pressure is within the permissible range,
- the power supply and valve control unit,
- the correct polarity of the electrical connections.

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8 Logistics

8.1 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.

8.2 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.

8.3 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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