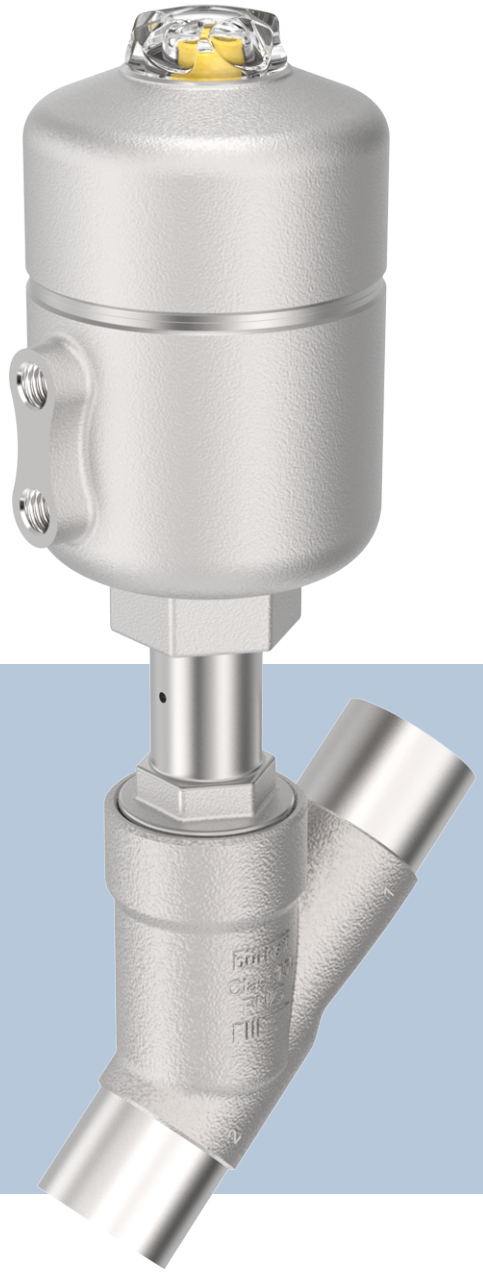
bürkert
FLUID CONTROL SYSTEMS

MAN 1000758497 EN Version: B Status: RL (released | freigegeben) printed: 09.09.2026

Type 2060

INOX

Pneumatically operated 2/2-way angle seat valve
with stainless steel actuator



Operating Instructions

Pioneers of Flow.

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Technical documentation 2609/01_GBen__1388075403_27021599152301323 / 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.

Device	Angle seat valve Type 2060
Operating pressure	Pressure at which the operating medium is present in the pipeline during system operation and flows through the valve.
Pilot pressure	Pressure used for the control or pilot control of a valve to change its switching position.
Ex area	Potentially explosive atmosphere
Ex approval	Approval for potentially explosive atmosphere
bar, bar (g)	Unit for relative pressure

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?

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Service and support

Direct contact with Bürkert service.

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2 Safety

2.1 Intended use

The device is designed to control the flow of media. The permissible media are listed in chapter Technical data [▶ 15]

Prerequisites for safe and trouble-free operation are proper transport, storage, installation, commissioning, operation and maintenance.

The instructions are part of the device. The device is intended exclusively for use within the scope of these instructions. Uses of the device that are not described in these instructions, the contractual documents or the type label can lead to severe personal injury or death, damage to the device or property and dangers for the surrounding area or the environment.

- Protect the device against electromagnetic interference, UV rays and, when installed outdoors, the effects of climatic conditions.
- Only trained and qualified personnel may install, operate and maintain the device. See qualification of persons in Safety instructions [▶ 7]
- Use the device only when it is in perfect condition.
- Use the device only in conjunction with third-party devices and components recommended and authorized by Bürkert.
- Only use devices that are approved for this type of potentially explosive atmosphere. These devices are labelled with the ATEX label on the type label. When using, always observe the details on the type label and the instructions for the potentially explosive atmosphere included in the scope of delivery for the device.
- Do not use the device for liquid media if the flow direction is above the seat.

2.2 Safety instructions

Qualification of personnel working with the device

Improper use of the device can lead to serious personal injury or death. To avoid accidents when working with the device, the following minimum requirements must be met:

- Understand the instructions and implement the information contained therein accordingly.
- Detect and avoid dangers when working on the device.
- Safely carry out work on the device within the scope of these instructions.

Responsibility of the operator

The operator is responsible for observing the location-specific safety regulations, also in relation to personnel.

- Observe the general rules of technology.
- Install the device according to the regulations applicable in the respective country.
- The operator must make hazards arising from the location of the device avoidable by providing appropriate operating instructions.

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Changes and other modifications, spare parts and accessories

Changes to the device, incorrect installation or use of non-approved devices or components create hazards that can lead to accidents and injuries.

- Do not make any changes to the device.
- Do not mechanically load the device.
- Observe the operating instructions of the device or component used.
- Only use the devices in conjunction with devices and components recommended or approved by Bürkert.

Spare parts and accessories that do not meet Bürkert's requirements may impair the operational safety of the device and cause accidents.

- To ensure operational safety, only use original parts from Bürkert.

Operation only after proper transport, storage, installation, commissioning, or maintenance

Improper transport, storage, installation, commissioning, or maintenance jeopardises the operational safety of the device and can cause accidents. This can lead to serious personal injury or death.

- Observe all values and limits specified in these instructions to ensure the device's safety and functionality.
- Only carry out work described in these instructions.
- Only carry out work using suitable tools.
- All other work must be carried out by Bürkert only.

Heavy device

During transportation or installation works, heavy devices may fall and cause injuries.

- Secure heavy device to keep it from tipping or falling over.
- If necessary, only transport, install and uninstall heavy device with the help of a second person.
- Use suitable tools.

Technical limit values and media

Non-compliance with technical limit values or unsuitable media can damage the device and lead to leaks. This can cause accidents and seriously injure or kill people.

- Comply with limit values. See Technical data [▶ 15] and information on the type label.
- Only feed media into the media ports that are listed in the chapter Technical data [▶ 15].
- Observe the safety data sheet for the media used.

Only use authorised devices in potentially explosive atmospheres

Devices that may be used in potentially explosive atmospheres are labelled with an Ex marking. Additional instructions with Ex labelling are included with these devices.

- Only use devices that are approved for use in a potentially explosive atmosphere.
- For use in potentially explosive atmospheres, observe the information on the device.
- For use in potentially explosive atmospheres, observe the additional instructions with Ex labelling.
- Do not use devices that do not have this Ex labelling and additional instructions in potentially explosive atmospheres under any circumstances.

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Medium under pressure

Medium under pressure can seriously injure people. In the event of overpressure or pressure surges, the device or lines can burst. Pneumatic lines that are defective or not securely fastened can come loose and swing around.

- Before working on the device or system, switch off the pressure. Vent or empty the lines.
- Adhere to the permitted pressure ranges of the medium.
- Comply with the permitted temperature ranges of the medium.

Contaminated pilot air

The control exhaust air of the device can be contaminated with lubricants and damage the health of people and the environment.

- Dissipate control exhaust air appropriately.
- Wear appropriate personal protective equipment when working near the device.

If exhaust air from other processes is used to generate compressed air for the device, seals may be destroyed by the media contained in the exhaust air and cause medium to escape.

- Only use fresh air for generating compressed air for the device.

Hot surfaces and fire hazard

The surface of the device can become hot with fast-switching actuators or with hot media.

- Wear suitable protective gloves.
- Keep highly flammable substances and media away from the device.

Electric shock due to electrical components

Touching live parts can result in severe electric shock. This can lead to serious personal injury or death.

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

Hearing damage due to high noise level

Depending on the operating conditions, the device may generate loud noises.

- If the noise level exceeds 75 dB(A), wear hearing protection when near the device.

Working on the device

Working on the device that has not been powered down, unauthorised switching on or uncontrolled start-up of the system can cause accidents. This can lead to serious personal injury or death.

- Only work on the device when it is not in use.
- Ensure that the device or system cannot be switched on unintentionally.
- Only start the process in a controlled manner following disruptions. Observe sequence:
  1. Apply supply voltage or pneumatic supply.
  2. Charge the device with medium.

Mechanical moving parts

- Do not reach into openings.

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Actuators with control function A (CF A) or control function B (CF B) contain a preloaded spring. Opening the actuator may cause injury due to the spring snapping out.

- Do not open the actuator.

Danger from wear and tear on device

If there is wear and tear, medium can leak out of the relief bore and people may be seriously injured.

- Relief bore must be regularly inspected for any medium leakages.
- If media are hazardous, safeguard the environment around the relief bore.

The device can become leak at the valve seat if there is wear and tear.

- Check device regularly and change the wearing parts if necessary.

Information on the Pressure Equipment Directive

Bürkert devices are categorised according to the maximum permissible medium pressure indicated on the type label, the nominal diameter DN of the port connection or the included volume, and usually for compressible fluid group 1. Exceptions are documented separately.

On the type label for Bürkert devices, the permissible medium pressure is marked with Pmed, which corresponds to the PS value in the Pressure Equipment Directive. This value can be distinguished from PN or pilot pressure, for example.

In the case of devices marked with PN, the maximum permissible medium pressure can also be restricted through pressure derating based on material or temperature.

Pressure equipment that is not in any category is designed and manufactured in accordance with good engineering practice. These devices do not receive a CE marking or EU Declaration of Conformity under the Pressure Equipment Directive.

- Ensure that the media used are compatible with the device materials and do not significantly reduce the strength of pressurised components or make the device materials brittle.
- Assign the system to a pressure equipment category according to specific operating data.

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3 Product description

The device consists of a pneumatically actuated piston actuator and a 2/2-way valve body. It uses neutral gases or air to control the flow rate of liquid or gaseous media, such as water, alcohol, oil, fuel, saline solution, hydraulic fluid, lye, organic solvent or vapour.

The actuator is made of stainless steel.

3.1 Product overview

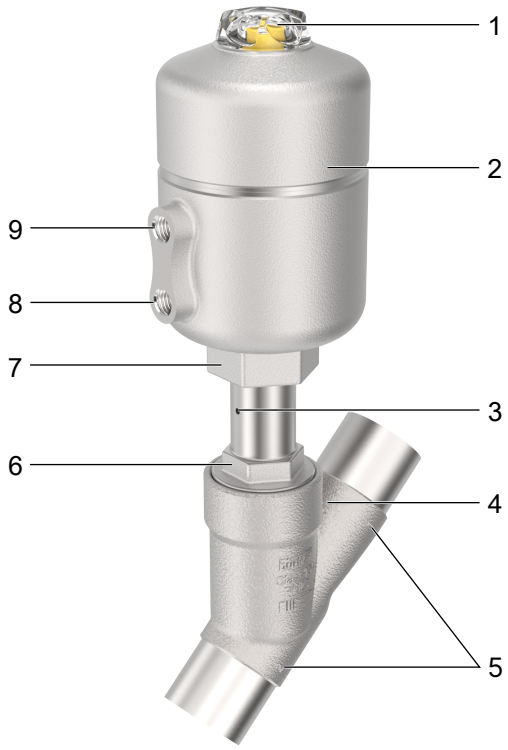

Fig. 1: Product overview, example

1	Transparent cap with position	2	Actuator housing
3	Relief bore	4	Valve body
5	Connection labelling 1/2	6	Body connection
7	Actuator connection	8	Lower pilot air port for CF A and CF I
9	Upper pilot air port for CF B and CF I		

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3.2 Product identification

3.2.1 Type label

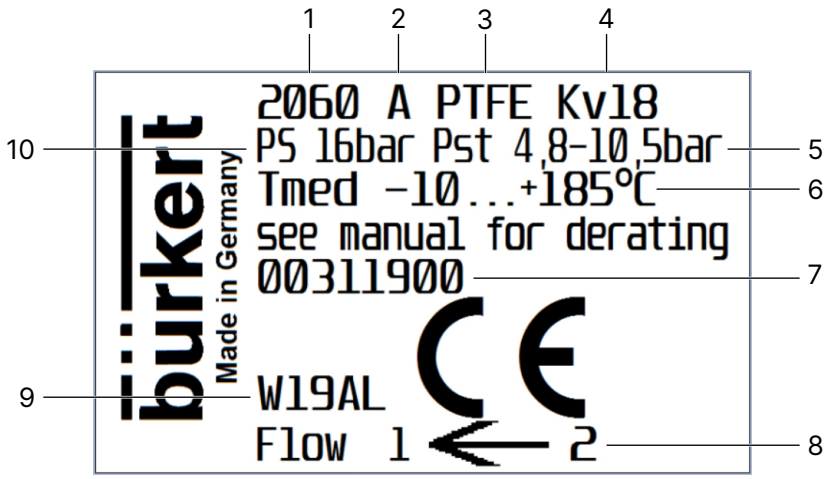

Fig. 2: Type label (example)

1	Type	2	Control function
3	Sealing material	4	Flow coefficient
5	Pilot pressure	6	Medium temperature
7	Article number	8	Flow direction
9	Manufacture code	10	Maximum operating pressure

3.2.2 Icons and labelling on the device

1: Labelling of ports

2: (depending on variant): Labelling of thread

3: (both sides, depending on variant):
Company logo, DN, nominal pressure, ASME pressure level, material

3.2.3 Determination of actuator size

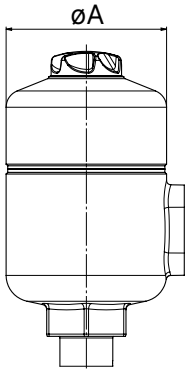

Fig. 3: Determination of actuator size based on the outer diameter A of the actuator cover

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Ø A [mm]	Corresponds to actuator size
36.4	32 (B)
46.5	40 (C)
59.9	50 (D)
72.9	63 (E)
89.9	80 (F)
109.9	100 (G)
134.9	125 (H)

Tab. 1: Determination of actuator size

3.3 Principle of operation

The closing force is transferred by a spindle connected to the actuator piston.

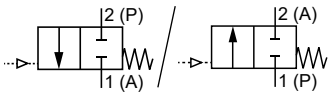
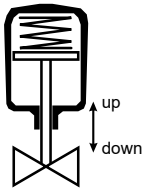
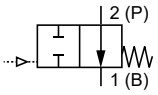
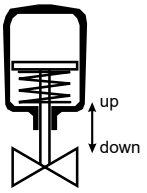
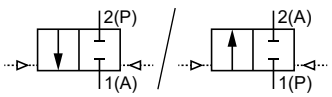
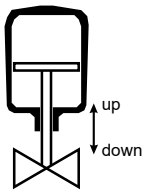
Control function A (CFA)

The spring force generates the closing force on the swivel plate.

Control function B and I (CFB and CFI)

The pilot pressure generates the closing force on the swivel plate.

3.3.1 Control function

Symbol	Description	
	Control function A (CFA), NC Pneumatically actuated on/off valve, 2/2-way Closed by spring force in rest position Flow direction below the seat/Flow direction above the seat	
	Control function B (CFB), NO Pneumatically actuated on/off valve, 2/2-way Opened by spring force in rest position Flow direction below the seat	
	Control function I (CFI), DA Pneumatically actuated on/off valve on both sides, 2/2-way Rest position not defined (unpressurised) Flow direction below the seat/Flow direction above the seat	

Tab. 2: Control function

3.3.2 Flow direction below the seat

Only use flow direction below the seat for:

- Liquid media
- Gases and vapours

As the medium is present under the swivel plate, the operating pressure contributes to the opening of the valve.

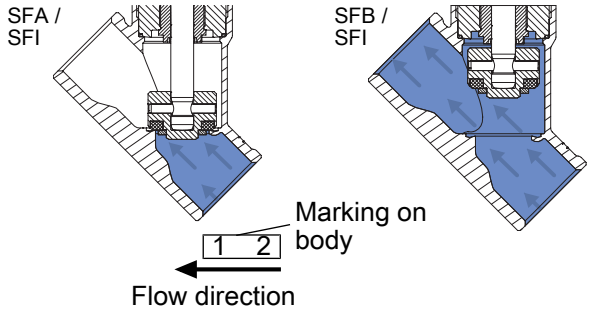


Fig. 4: Flow direction below seat, valve closes against medium flow

3.3.3 Flow direction above the seat

Only use flow direction above the seat for:

- Gases and vapours
- Valve control function A (closed by spring force in rest position)

As the medium is present above the swivel plate, the operating pressure contributes to the closure of the valve. The operating pressure also assists with the sealing of the valve seat.

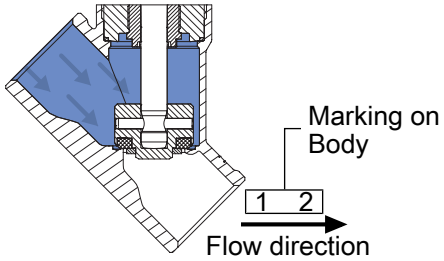


Fig. 5: Flow direction above the seat, valve closes with medium flow

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4 Technical data

4.1 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

4.2 Operating conditions

Storage temperature	–20...+65 °C
Altitude	Up to 2000 m above sea level
Medium	Water, alcohols, oils, fuels, hydraulic fluids, saline solutions, lyes, organic solvents, vapour, neutral gases
Control medium	Neutral gases, air
Application environment	Indoors and outdoors. Protect the device against electromagnetic interference, UV rays and, when installed outdoors, the effects of climatic conditions.
Sound pressure level	< 70 dB(A) The sound pressure level may be higher depending on the usage conditions.

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4.2.1 Operating limits for ambient temperature and medium temperature

A PEEK seal is recommended for applications involving temperatures above 130 °C.
Where pilot valves are concerned, their temperature limits must be observed.

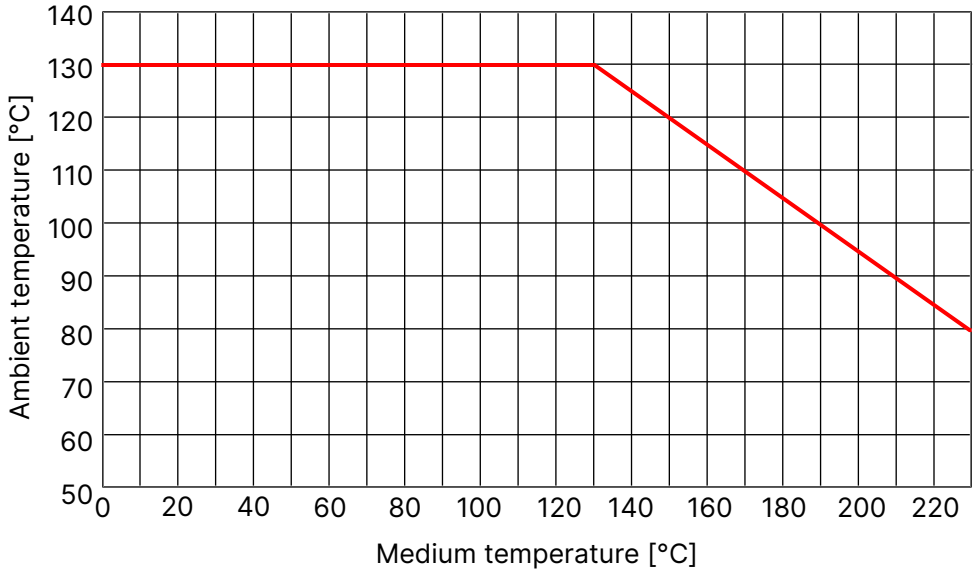

Fig. 6: Derating of VA actuator

4.2.2 Operating limits for medium temperature and operating pressure

Derating of the operating pressure as per DIN EN 12516-1 PN25

Temperature [°C]	Pressure (bar)
–10...+50	25.0
100	24.5
150	22.4
200	20.3
230	19.0

Derating of the operating pressure as per ASME B16.5/ASME B16.34 Cl.150

Temperature [°C]	Pressure (bar)
–29...+38	19.0
50	18.4
100	16.2
150	14.8
200	13.7
230	12.7

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Derating of the operating pressure as per JIS B 2220 10K

Temperature [°C]	Pressure (bar)
–10...+50	14.0
100	14.0
150	13.4
200	12.4
230	11.7

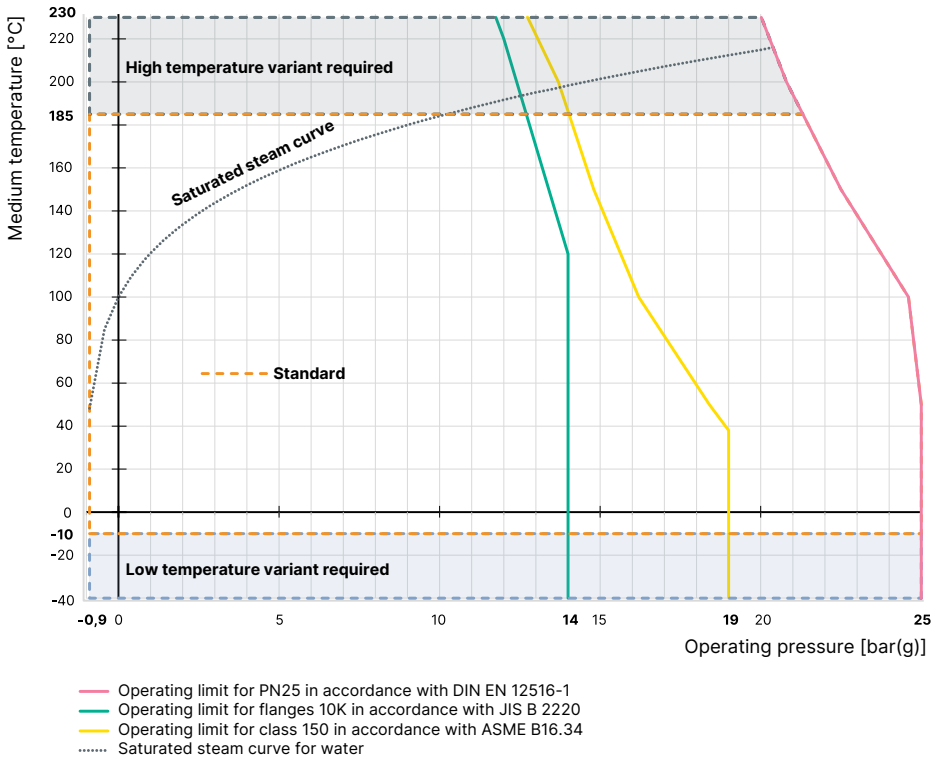

Fig. 7: Operating limits for medium temperature and operating pressure

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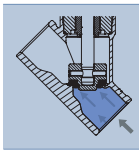
4.2.3 Pressure ranges with flow direction below seat

"Technical features" for other seal materials and variants not listed: enter the article number in the search bar at country.burkert.com and select the product.



Actuator size 40 (C), flow direction below seat

Pilot pressure	Max. 10 bar

Control function A

Minimum pilot pressure	5.3 bar

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE	Seal material: PEEK
DN15	Max. 16 bar	–
DN20	Max. 11 bar	–

Control functions B and I

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram
Operating pressure	Max. 16 bar

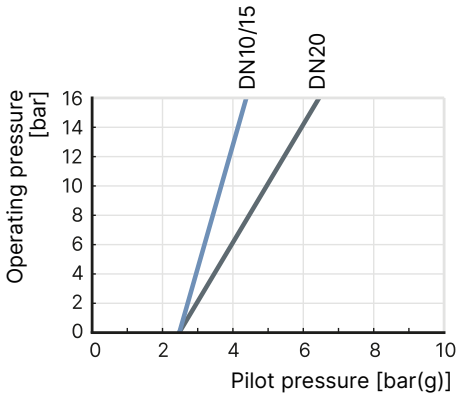
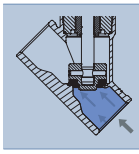


Fig. 8: Pilot pressure diagram



Actuator size 50 (D), flow direction below seat

Pilot pressure	Max. 10 bar

Control function A

Minimum pilot pressure	3.7 bar

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Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE	Seal material: PEEK
DN15	Max. 16 bar	–
DN20	Max. 11 bar	–
DN25	Max. 5.2 bar	–

Control functions B and I

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram
Operating pressure	Max. 16 bar

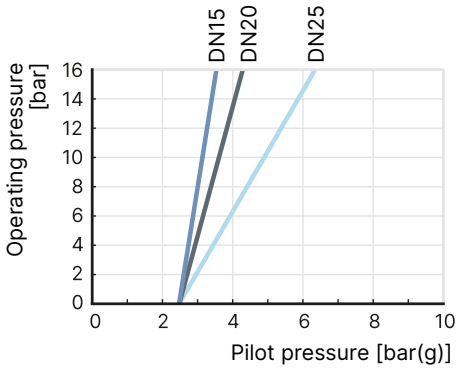
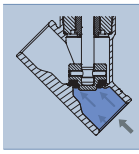


Fig. 9: Pilot pressure diagram



Actuator size 63 (E), flow direction below seat

Pilot pressure	Max. 10 bar

Control function A

Minimum pilot pressure	4.5 bar

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE	Seal material: PEEK
DN15	–	Max. 16 bar
DN20	Max. 16 bar	Max. 16 bar
DN25	Max. 11 bar	Max. 10 bar
DN32	Max. 6 bar	Max. 6 bar
DN40	Max. 4 bar	Max. 4 bar
DN50	Max. 2.5 bar	Max. 2 bar

Control functions B and I

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram

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Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE
DN15...DN50	Max. 16 bar

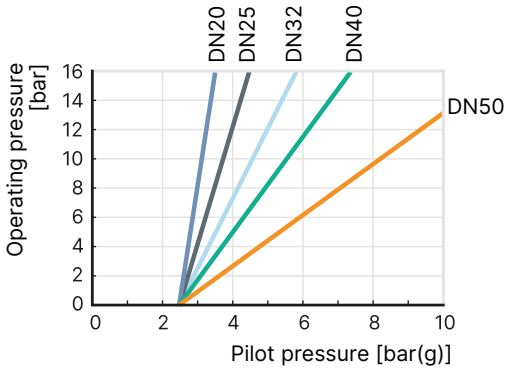
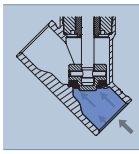


Fig. 10: Pilot pressure diagram



Actuator size 80 (F), flow direction below seat

Pilot pressure	Max. 10 bar

Control function A

Minimum pilot pressure	5 bar

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE	Seal material: PEEK
DN25	Max. 16 bar	Max. 16 bar
DN32	Max. 14 bar	Max. 11.5 bar
DN40	Max. 9 bar	Max. 8 bar
DN50	Max. 6 bar	Max. 4.5 bar
DN65	Max. 3.5 bar	Max. 2 bar

Control functions B and I

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE
DN25...DN50	Max. 16 bar
DN65	Max. 15 bar

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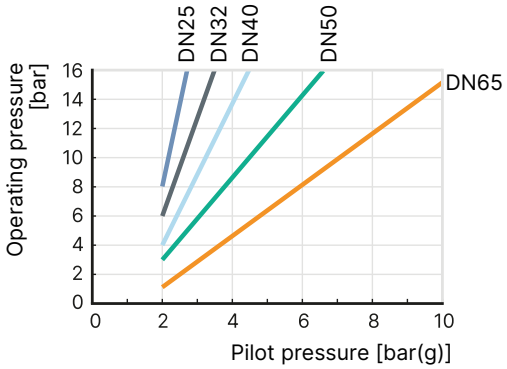
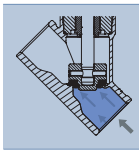


Fig. 11: Pilot pressure diagram



Actuator size 100 (G), flow direction below seat

Pilot pressure	Max. 8 bar

Control function A

Minimum pilot pressure	4.4 bar

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE	Seal material: PEEK
DN32	Max. 16 bar	–
DN40	Max. 12.5 bar	–
DN50	Max. 7.2 bar	–
DN65	Max. 4.6 bar	–

Control functions B and I

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE
DN32...DN65	Max. 16 bar
DN80	Max. 9 bar

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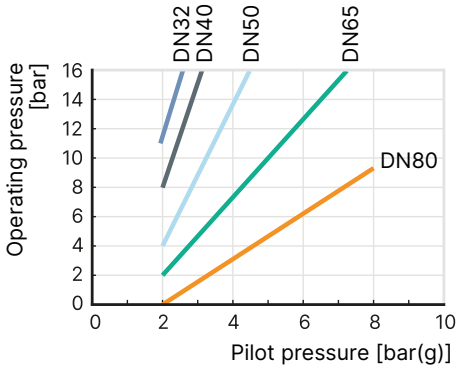
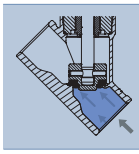


Fig. 12: Pilot pressure diagram



Actuator size 125 (H), flow direction below seat

Pilot pressure	Max. 8 bar

Control function A

Nominal diameter	Minimum pilot pressure
DN32	4.1 bar
DN40	3.2 bar
DN50	3.2 bar
DN65	3.2 bar
DN80	5.7 bar

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE	Seal material: PEEK
DN40	Max. 16 bar	Max. 16 bar
DN50	Max. 16 bar	Max. 16 bar
DN65	Max. 12 bar	Max. 10 bar
DN80	Max. 7.5 bar	–

Control functions B and I

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE
DN40...DN80	Max. 16 bar

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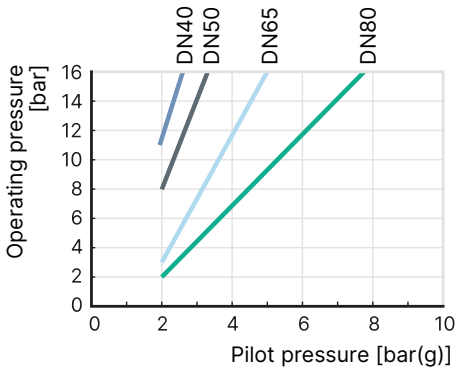

Fig. 13: Pilot pressure diagram

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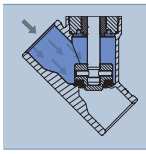
4.2.4 Pressure ranges with flow direction above seat

"Technical features" for other seal materials and variants not listed: enter the article number in the search bar at country.burkert.com and select the product.



Actuator size 40 (C), flow direction above seat

Pilot pressure	Max. 7 bar

Control function A

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram
Operating pressure	Max. 16 bar

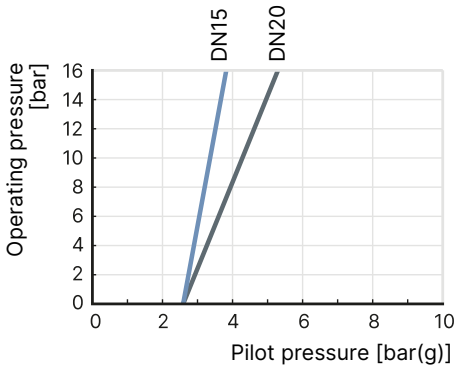
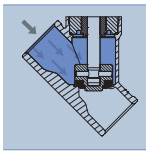


Fig. 14: Pilot pressure diagram



Actuator size 50 (D), flow direction above seat

Pilot pressure	Max. 7 bar

Control function A

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram
Operating pressure	Max. 16 bar

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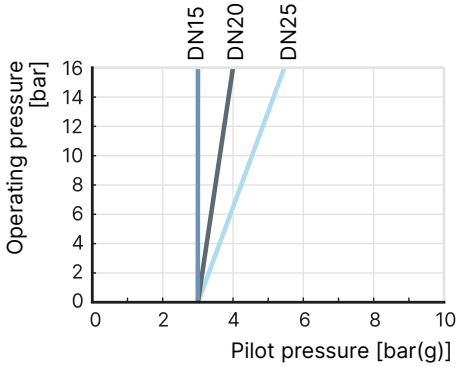
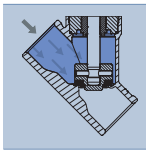


Fig. 15: Pilot pressure diagram



Actuator size 63 (E), flow direction above seat

Pilot pressure	Max. 10 bar

Control function A

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram
Operating pressure	Max. 16 bar

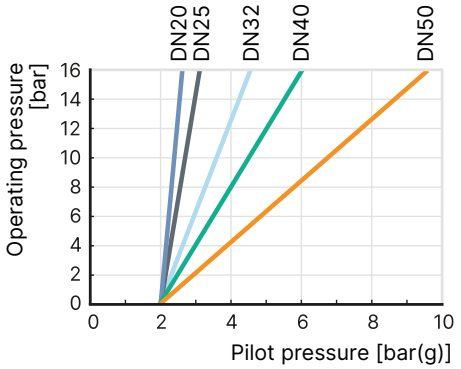
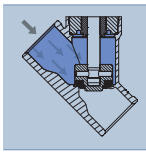


Fig. 16: Pilot pressure diagram



Actuator size 80 (F), flow direction above seat

Pilot pressure	Max. 10 bar

Control function A

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram

Permitted operating pressure (depending on nominal diameter and seal material)

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Nominal diameter	Seal material: PTFE
DN25...DN50	Max. 16 bar
DN65	Max. 14 bar

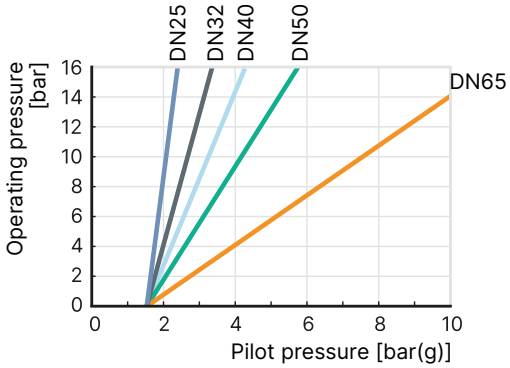
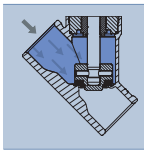


Fig. 17: Pilot pressure diagram



Actuator size 100 (G), flow direction above seat

Pilot pressure	Max. 7 bar

Control function A

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE
DN32...DN50	Max. 16 bar
DN65	Max. 15 bar[1)]

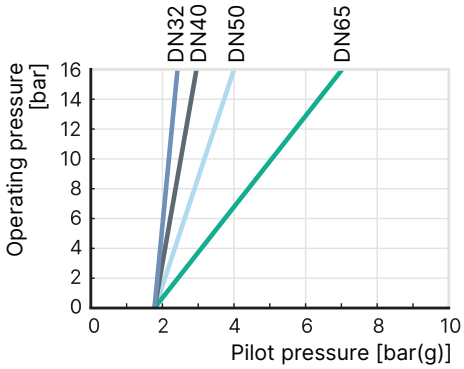


Fig. 18: Pilot pressure diagram

1) According to the Pressure Equipment Directive 2014/68/EU for compressible fluids of Group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

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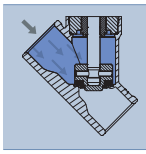

Actuator size 125 (H), flow direction above seat

Pilot pressure	Max. 7 bar

Control function A

Minimum pilot pressure	Dependent on operating pressure, see pilot pressure diagram

Permitted operating pressure (depending on nominal diameter and seal material)

Nominal diameter	Seal material: PTFE
DN40...DN65	Max. 16 bar[2)]

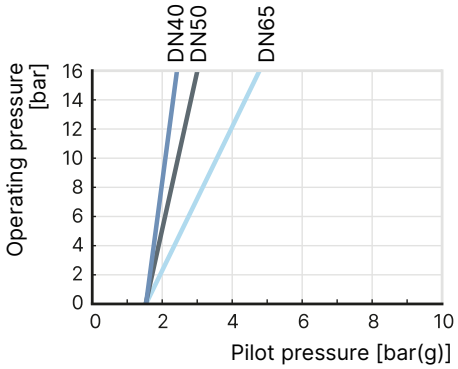

Fig. 19: Pilot pressure diagram

2) According to the Pressure Equipment Directive 2014/68/EU for compressible fluids of Group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

4.3 General technical data

The following technical data is listed on the valve type label:

- Control function
- Seal material
- Flow coefficient
- Pilot pressure
- Medium temperature
- Flow direction
- Maximum operating pressure

Further technical characteristics: enter the article number in the search bar at country.burkert.com and select the product.

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5 Installation

Risk of injury or material damage when working on the device or system.

- Read and observe the chapter Safety [▶ 7] before working on the device or system.

Service and support

- For further information, technical advice and support, contact Bürkert service .

5.1 Connect the device to pipeline

- Installation position, any, preferably actuator facing up.
- Note the flow direction.
- Make sure that pipelines are in alignment.
- Remove the soiling from pipelines.

Devices with approval according to DIN EN 161 “Automatic shut-off valves for gas burners and gas appliances”

- Attach dirt trap upstream of the valve. The strainer must prevent the penetration of a 1 mm mandrel.

Devices with welded connection

- **NOTICE! Before welding in the valve body:** Remove the actuator from the valve body.
- Weld the valve body into the pipeline.
- Install the actuator back on the valve body.

Devices with threaded connection, clamp connection or flange connection

- Connect the valve body to pipeline.

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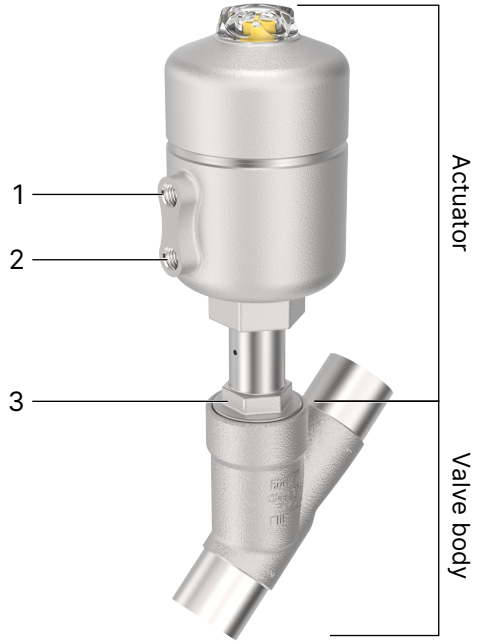
5.2 Remove the actuator from the valve body

To prevent damage, the valve must be in the open position when the actuator is dismantled.

Valves with control function B are opened by spring force in the rest position.
Valves with control function A or I must be pneumatically actuated to open.



1 Pilot air port above	2 Pilot air port below
3 Body connection	

- Clamp the valve body in a holding device (only for devices which have not yet been installed).
- **NOTICE! For valves with control function A or I:** Open the valve.
  To do this, pressurise lower pilot air port with compressed air (5 bar).
- Place a suitable open-end wrench on the wrench flat of the body connection.
- Unscrew the actuator from the valve body.

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5.3 Installing actuator on valve body

DANGER!

Danger due to unsuitable lubricant

Unsuitable lubricant may contaminate the medium. There is a risk of explosion in oxygen applications.

- For specific applications, e.g. oxygen or analysis applications, use approved lubricants only.

NOTICE!

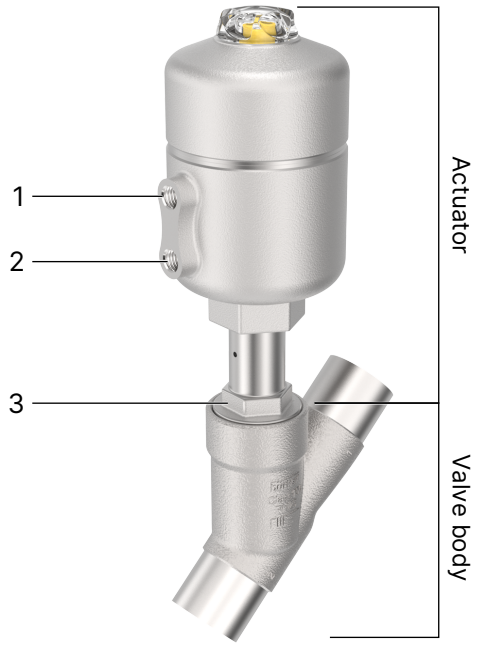
Material damage caused by loose screw connections

Where the pipeline is subject to high mechanical stress (vibrations) or in applications with temperatures above 140 °C, the screw connection at the body connection may become loose.

- Before installation in the pipeline, and at regular intervals when operational, check the screw connection on the body connection. When doing so, observe the tightening torques for the body connection (see Tightening torques for body connection).

To prevent damage, the valve must be in the open position when the actuator is installed.

Valves with control function B are opened by spring force in the rest position.
Valves with control function A or I must be pneumatically actuated to open.



1	Pilot air port above	2	Pilot air port below
3	Body connection		

- Ensure correct position and integrity of the seal in the body connection.
- Grease the thread of the body connection (e.g. with Klüberpaste UH1 96-402 from Klüber).
- **NOTICE! For valves with control function A or I:** Open the valve.
  To do this, pressurise lower pilot air port with compressed air (5 bar).
- Screw the actuator into the valve body. Observe the tightening torques for the body connection (Tightening torques for body connection).

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Nominal diameter DN	Tightening torque [Nm]	Tolerance [Nm]
15	45	+10/–5
20	50	+10/–5
25	60	+10/–5
32	65	+10/–5
40	65	+10/–5
50	70	+10/–5
65	70	+10/–5
80	120	+10/–5

Tab. 3: Tightening torques for body connection

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5.4 Turn the actuator

The position of the pilot air ports can be seamlessly changed by turning the actuator 360°.

To prevent damage, the valve must be in the open position when the actuator is turned.

Valves with control function B are opened by spring force in the rest position.
Valves with control function A or I must be pneumatically actuated to open.

CAUTION!

Risk of injury due to escaping medium

If the actuator is turned in the wrong direction, the body connection may come loose. This allows medium to escape.

- Only turn the actuator in the direction shown in the diagram.

Fig. 20: Turn actuator

- Clamp the valve body in a holding device (only for devices which have not yet been installed).
- **NOTICE! For valves with control function A or I:** Open the valve.
  To do this, pressurise lower pilot air port with compressed air (5 bar).
- To turn the actuator, use an open-end wrench on the hexagon nut of the actuator connection. Hold the hexagon nut of the body connection with an open-end wrench.
- **CAUTION! Observe the direction of rotation!**
  Turn the actuator on the hexagon nut of the drive connection in the direction shown in the figure until the desired position is reached.

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6 Pneumatic connection

Risk of injury or material damage when working on the device or system.

- Read and observe the chapter Safety [▶ 7] before working on the device or system.

Service and support

- For further information, technical advice and support, contact Bürkert service .

6.1 Connect the device pneumatically

WARNING!

Risk of injury from connection of unsuitable hoses

Inappropriate hoses can come loose and swing around.

- Use only hoses which are authorised for the indicated pressure and medium temperature range.
- Observe the data sheet specifications from the hose manufacturers.

WARNING!

For control function I: Risk of injury in the event of pilot pressure failure

The valve stays in an undefined position in the event of a pilot pressure failure.

- Switch off the pressure before working on the device or system. Vent or drain the lines.
- To ensure a controlled restart, first pressurise the device with pilot pressure, then switch on the medium.

The position of the pilot air ports can be seamlessly changed by turning the actuator 360°. The procedure is described in chapter Turn the actuator [▶ 33].

For use in aggressive environments

- Drain the free pneumatic connections into a neutral atmosphere using a pneumatic hose.

Control function A:

- Connect the control medium to bottom of the pilot air port of the actuator.

Control function B:

- Connect the control medium to top of the pilot air port of the actuator.

Control function I:

- Connect the control medium to upper and lower pilot air port of the actuator.
  Pressure at upper pilot air port: valve closes.
  Pressure at lower pilot air port: valve opens.

Silencer

- Screw the silencer into the exposed exhaust port.

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In aggressive environments, drain open pneumatic connections into a neutral atmosphere using a pneumatic hose.

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7 Commissioning

Risk of injury or material damage when working on the device or system.

- Read and observe the chapter Safety [▶ 7] before working on the device or system.

Service and support

- For further information, technical advice and support, contact Bürkert service .

7.1 Commission the device

WARNING!

For control function I: Risk of injury in the event of pilot pressure failure

The valve stays in an undefined position in the event of a pilot pressure failure.

- Switch off the pressure before working on the device or system. Vent or drain the lines.
- To ensure a controlled restart, first pressurise the device with pilot pressure, then switch on the medium.

WARNING!

Risk of injury from high pressure or hot medium

Excessively high pressure or temperatures may damage the device and cause leaks.

- Observe values for pressure and medium temperature indicated on the type label.

In the case of devices with control unit, observe start-up in the operating instructions for the corresponding control unit.

- Adjust the pilot pressure in accordance with the information on the type label and in technical data.
- Commission the device.

7.1.1 Flow direction below the seat

WARNING!

Leaking valve seat with flow direction below seat.

If pilot pressure for control function B and control function I is too low or operating pressure is too high, this can cause the valve seat to leak.

- Comply with the minimum control pressure and the maximum operating pressure values.

7.1.2 Flow direction above the seat

DANGER!

Bursting lines and bursting device with flow direction above the seat.

In the case of liquid media, a pressure surge can lead to the bursting of lines and device.

- Do not use valves with flow direction above the seat for liquid media.

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8 Maintenance

Risk of injury or material damage when working on the device or system.

- Read and observe the chapter Safety [▶ 7] before working on the device or system.

Service and support

- For further information, technical advice and support, contact Bürkert service .

8.1 Control

- Check the following parts for leaks:

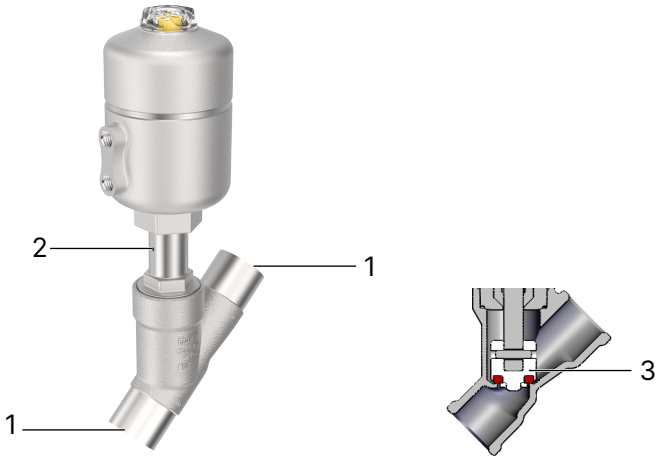

Fig. 21: Leakage control

Check	Action
Media connectors (1)	▸ Repair media connectors
Relief bore (2)	▸ Replace packing gland or actuator
Swivel plate (3)	▸ Replace the valve set

Tab. 4: Visual inspection

8.2 Cleaning

NOTICE!

Avoid causing damage with cleaning agents.

- Before cleaning, check that the cleaning agents are compatible with device materials and seals.

- Only use commercially available cleaning agents for external cleaning.

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9 Troubleshooting

Risk of injury or material damage when working on the device or system.

- Read and observe the chapter Safety [▶ 7] before working on the device or system.

Service and support

- For further information, technical advice and support, contact Bürkert service .

9.1 Actuator does not switch

Cause	Solution
Pilot pressure too low.	▸ Observe pressure data on the type label.
Pilot air port interchanged.	▸ Connect the pilot air correctly: CF A: Lower pilot air port CF B: Upper pilot air port CF I: Lower pilot air port opens, upper pilot air port closes the valve
Operating pressure too high.	▸ Observe pressure data on the type label.
Flow direction switched.	▸ Observe the direction of the arrow on the type label.

9.2 Valve is not tight

Cause	Solution
Pilot pressure too low.	▸ Observe pressure data on the type label.
Operating pressure too high.	▸ Observe pressure data on the type label.
Flow direction switched.	▸ Observe the direction of the arrow on the type label.
Dirt between seal and valve seat.	▸ Install the dirt trap.
Valve seat seal worn.	▸ Install the new swivel plate.

9.3 Valve is leaking on the relief bore

Cause	Solution
Packing gland worn.	▸ Replace the packing gland or actuator.

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10 Uninstallation

Risk of injury or material damage when working on the device or system.

- Read and observe the chapter Safety [▶ 7] before working on the device or system.

Service and support

- For further information, technical advice and support, contact Bürkert service .

10.1 Disassemble the device

- Loosen the pneumatic connection.
- Disassemble the device.

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11 Spare parts and accessories

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

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

Order the parts directly on our eShop.

Service and support

- For further information, technical advice and support, contact Bürkert service .

11.1 Ordering spare parts

Spare parts can be ordered via the Bürkert eShop or via the Bürkert home page.

Order via the e-shop

- Visit the Bürkert eShop.
- Log in or register.
- Enter the article number of the device in the search box.
- Select spare parts and complete your order.

Order via the Bürkert home page

- Link View spare parts sets.
- Enter the article number of the device in the search box.
- Select spare parts and complete your order.

11.2 Accessories

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

- Only use original Bürkert accessories.

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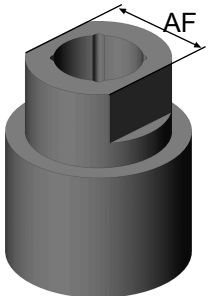
11.2.1 Installation tool for packing gland

Socket wrench



Ø spindle [mm]	Nominal diameter DN	Width across flats [mm]	Article number
14	32...80	21	683223

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12 Logistics

12.1 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.

12.2 Return

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

- Before returning a used device, log in to a Bürkert account and create a return request via My Services.
  Register an account before creating the request, if necessary. A return number is required for all used devices.
- Complete the Contamination Declaration and include it with the return shipment.
- Reinstall all original protective caps and plugs before shipping. This helps protect the device against contamination and transport damage.
- Pack the device securely and clearly indicate the return number on the shipment.

12.3 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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