bürkert
FLUID CONTROL SYSTEMS

# Type 3360, 3361, AE3360, AE3361

Electromotive control valve



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## Service Manual

MAN 1000274528 EN Version: C Status: RL (released | freigegeben) printed: 18.07.2026

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Service Manual 1903/02_EU-EN_00810485 / Original DE

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# 1 THE SERVICE INSTRUCTIONS

The service instructions describe the procedure for replacing spare parts of the process valves of Types 3360 and 3361.

Keep these instructions in a location which is easily accessible to every user and make these instructions available to every new owner of the device.

**The service instructions contain important safety information.**

Failure to observe these instructions may result in hazardous situations.

▸ The service instructions must be read and understood.

## 1.1 Symbols

**DANGER!**

**Warns of an immediate danger!**

▸ Failure to observe the warning will result in fatal or serious injuries.

**WARNING!**

**Warns of a potentially dangerous situation!**

▸ Failure to observe the warning may result in serious injuries or death.

**CAUTION!**

**Warns of a possible danger!**

▸ Failure to observe this warning may result in a moderate or minor injury.

**ATTENTION!**

**Warns of damage to property!**

▪ Failure to observe the warning may result in damage to the device or other equipment.

Indicates important additional information, tips and recommendations.

Refers to information in these operating instructions or in other documentation.

▸ designates an instruction which you must follow to prevent a hazard.

→ designates a procedure which you must carry out.

## 1.2 Definitions of terms

▪ The term "device" used in these instructions applies to all valve types described in these instructions:
Type 3360, electromotive angle seat control valve
Type 3361, electromotive globe control valve

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# 2 BASIC SAFETY INSTRUCTIONS

These safety instructions do not make allowance for any

- contingencies and events which may arise during the assembly, operation, and maintenance.
- local safety regulations – the operator is responsible for observing these regulations, also in relation to the installation personnel.

**Risk of injury from high pressure.**

- ▸ Before working on the system or device, switch off the pressure and vent or drain lines.

**Danger of burns and risk of fire.**

Following an extended duty cycle or as a result of a hot medium, the surface of the device may become hot.

- ▸ Only touch the device when wearing protective gloves.
- ▸ Keep the device away from highly flammable substances and media.

**Danger due to loud noises.**

- ▸ Depending on the operating conditions, the device may generate loud noises. More detailed information on the likelihood of loud noises is available from the relevant sales office.
- ▸ Wear hearing protection when in the vicinity of the device.

**Leaking medium when the packing gland is worn.**

- ▸ Regularly check relief bore for leaking medium.
- ▸ If medium is leaking out of the relief bore, replace the packing gland.
- ▸ If the media is hazardous, protect the area surrounding the discharge point against dangers.

**Risk of crushing due to mechanically moving parts.**

- ▸ Perform installation and maintenance work only in the isolated state.
  Devices with SAFEPOS energy-pack: Completely drain SAFEPOS energy-pack. Wait until LED illuminated ring goes out; the LED status must not be in **LED off** mode.
- ▸ Keep clear of the openings in the valve body.

**Danger due to an uncontrolled process in the event of a power failure.**

If devices do not have the optional SAFEPOS energy-pack, the valve remains in an undefined position in the event of a power failure.

- ▸ If the valve position is relevant as regards safety in the event of a power failure: Use only those devices which have the SAFEPOS energy-pack (optional energy pack).
- ▸ In the SAFEPOS select a valve position which is safe for the process.

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**General hazardous situations.**

To prevent injuries:

- Transport, install and dismantle a heavy device with the help of another person and with appropriate tools.
- Only trained technicians may perform installation and maintenance work.
- Secure to prevent unintentional actuation.
- Do not make any internal or external changes on the device and do not subject it to mechanical stress.
- Only feed media specified in the data sheet into the media connections.
- The valves must be installed in accordance with the regulations applicable in the country.
- After an interruption in the power supply, ensure that the process is restarted in a controlled manner. Observe sequence!
  1. Apply supply voltage.
  2. Charge the device with medium.
- Observe the general rules of technology.
- Install the valves must in accordance with the regulations applicable in the country.

**NOTE!**

**Electrostatically sensitive components and modules.**

The device contains electronic components which react sensitively to electrostatic discharge (ESD). Contact with electrostatically charged persons or objects are hazardous to these components. In the worst case scenario, they will be destroyed immediately or will fail after start-up.

- Observe the requirements in accordance with EN 61340-5-1 to minimize or avoid the possibility of damage caused by a sudden electrostatic discharge.
- Do not touch electronic components while the supply voltage is switched on.

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# 3 GENERAL INFORMATION

## 3.1 Contact addresses

**Germany**

Bürkert Fluid Control Systems
Sales Center
Christian-Bürkert-Str. 13-17
D-74653 Ingelfingen
Tel. + 49 (0) 7940 - 10 91 111
Fax + 49 (0) 7940 - 10 91 448
Email: info@de.buerkert.com

**International**

Contact addresses can be found on the final pages of the printed operating instructions.

And also on the Internet at:

www.burkert.com

## 3.2 Warranty

The warranty is only valid if the device is used as intended in accordance with the specified application conditions.

## 3.3 Information on the Internet

Operating instructions and data sheets for Types 3360 and 3361 can be found on the Internet at:

www.burkert.com

## 3.4 Auxiliary materials

The following auxiliary materials are recommended in these instructions for carrying out repairs:

| Type of auxiliary material | Auxiliary material | Manufacturer's specifications |
|---|---|---|
| Sealer and anti-seize agents | Silicone grease OKS 1110-3 | OKS Schmierstoffe GmbH<br>www.oks-germany.com |
| Lubricant | Klüberpaste UH1 96-402 | Klüber Lubrication München<br>www.klueber.de |

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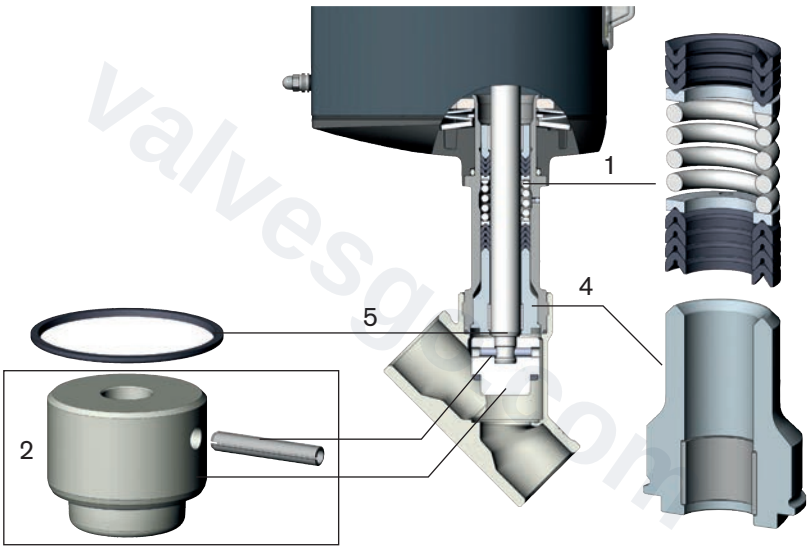
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# 4 OVERVIEW OF SPARE PARTS

## 4.1 Replacement part sets for Type 3360

The following replacement part sets are available for Type 3360:

- **Control cone set**
  consisting of: Control cone, dowel pin, graphite seal and lubricant
- **Seal set for the packing gland**
  consisting of: Individual parts of the packing gland, graphite seal and lubricant
- **Spindle guide for the packing gland**
  consisting of: Spindle guide, graphite seal and lubricant




| Item | Description |
|---|---|
| 1 | Packing gland |
| 2 | Control cone with dowel pin |
| 4 | Spindle guide |
| 5 | Graphite seal |

*Table 1: Spare parts Type 3360*

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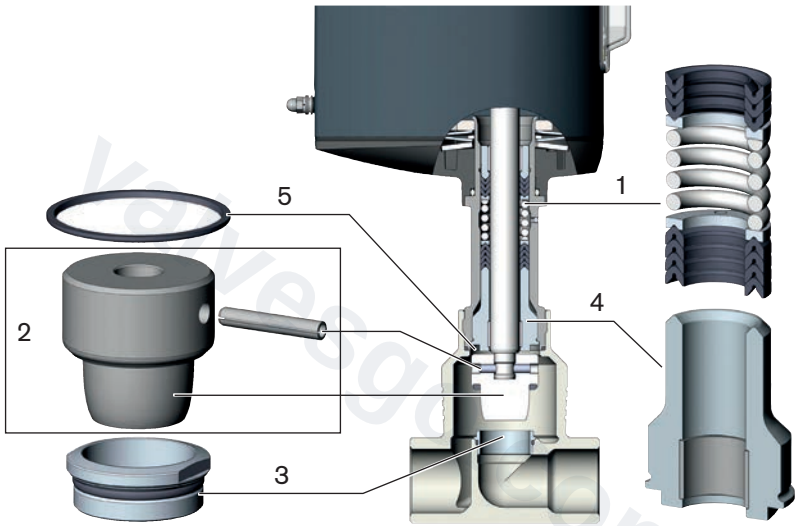
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## 4.2 Replacement part sets for Type 3361

The following replacement part sets are available for Type 3361:

- **Control cone set**
  consisting of: Control cone, dowel pin, graphite seal and lubricant
- **Valve seat set**
  consisting of: Valve seat and graphite seal and (with O-ring from seat size 25)
- **Seal set for the packing gland**
  consisting of: Individual parts of the packing gland, graphite seal and lubricant
- **Spindle guide for the packing gland**
  consisting of: Spindle guide, graphite seal and lubricant




| Item | Description |
|---|---|
| 1 | Packing gland |
| 2 | Control cone with dowel pin |
| 3 | Valve seat (with O-ring from seat size 25) |
| 4 | Spindle guide |
| 5 | Graphite seal |

*Table 2: Spare parts Type 3361*

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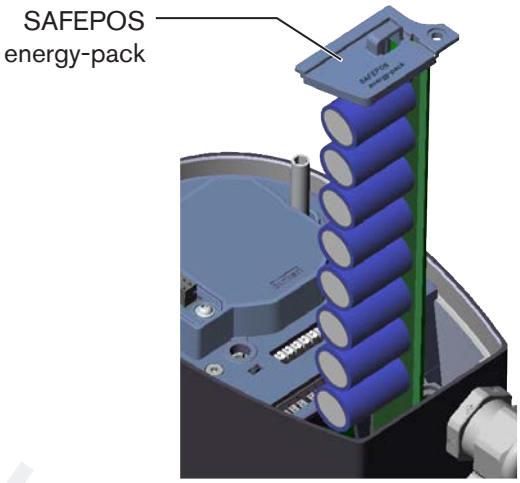




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## 4.3 Spare parts for Types 3360 and 3361

- SAFEPOS energy-pack.
  Optionally there is an energy pack for the device. If the supply voltage fails, the energy pack supplies the actuator with the required energy to move the valve into the required position which can be adjusted via the menu.




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# 5 REPLACING THE CONTROL CONE

**DANGER!**

**Risk of injury from high pressure.**

▸ Before working on the system or device, switch off the pressure and vent or drain lines.

**WARNING!**

**Risk of injury due to improper replacement of spare parts.**

▸ Spare parts may be replaced only by trained technicians and with the appropriate tools.

**Risk of crushing**

If electrically connected devices are not installed in the pipeline, there is a risk of crushing by mechanically moving parts.

▸ Do not reach into the openings of the valve body.

## 5.1 Required work steps

The following steps are required to change the control cone.

1. Set operating state MANUAL, chapter "8" on page 26.
2. Move valve into open position., chapter "9" on page 28.
3. Switch off the supply voltage. Wait until LED illuminated ring goes out.
4. Remove actuator from valve body, chapter "10" on page 35.
5. Replace control cone, chapter "5.3" on page 14.
6. Mount actuator on valve body, chapter "11" on page 37.
7. Apply supply voltage.
8. Adjusting the position control – running X.TUNE, chapter "12" on page 39.
9. Set operting state AUTOMATIK, chapter "8" on page 26.

## 5.2 Required tools and equipment

- Allen key, width across flats 3 mm
  Only required when no supply voltage is applied to the device in order to move the valve into the open position.
- Open-end wrench
- Holding device to clamp the valve body
- Pin punch
- Hammer
- Prism to support the control cone
- Suitable lubricant, e.g. Klüberpaste UH1 96-402 of the company Klüber.

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**WARNING!**

**Risk of injury if the wrong tools are used.**

It is dangerous to use unsuitable tools for installation work as the device may be damaged.

▸ Work on the device only with tools which are specified for the particular activity.

## 5.3 Replace control cone

**Preconditions: MANUAL operating state, valve position at least 1/3 open, supply voltage switched off, actuator removed from the valve body.**

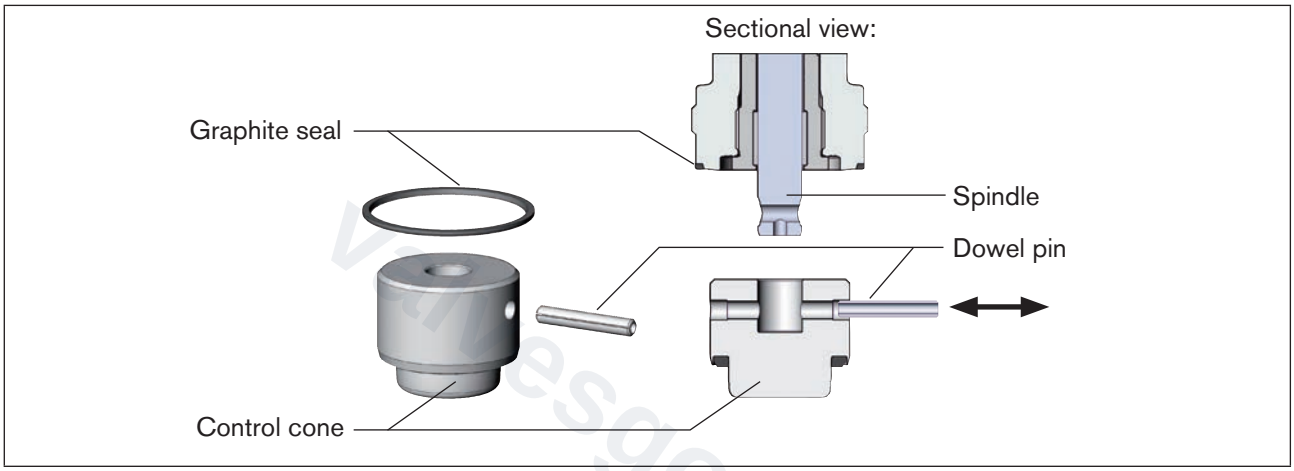



*Figure 1: Replace control cone*

**Remove control cone:**

→ Knock out dowel pin using a suitable pin punch (see table).

| Spindle diameter [mm] | Pin punch | Orifice connection (valve body) [DN] |
|---|---|---|
| 10 | 4 | 10/15 and 20 |
| 14 | 5 | 25 to 50 |

*Table 3: Spindle diameter with reference to DN*

→ Remove control cone.

**Mount new control cone:**

**NOTE!**

Important information for the problem-free and safe functioning of the device: The sealing surface and cone contour of the control cone must not be damaged.

→ Attach new control cone to the spindle.

→ Align bores of the control cone and spindle.

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→ Support control cone on the cylindrical part with the help of a prism.

→ Put on dowel pin and carefully knock in with a hammer.

→ Position the dowel pin in the center of the spindle axis.

**Next steps:**

- Mount actuator on valve body, chapter "11" on page 37.
- Apply supply voltage.
- Adjusting the position control – running X.TUNE, chapter "12" on page 39.
- Set operting state AUTOMATIK, chapter "8" on page 26.

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# 6 REPLACING THE SEAL SET

**DANGER!**

**Risk of injury from high pressure.**

▸ Before working on the system or device, switch off the pressure and vent or drain lines.

**WARNING!**

**Risk of injury due to improper replacement of spare parts.**

▸ Spare parts may be replaced only by trained technicians and with the appropriate tools.

## 6.1 Required work steps

1. Set operating state MANUAL, chapter "8" on page 26.
2. Move valve into open position., chapter "9" on page 28.
3. Switch off the supply voltage. Wait until LED illuminated ring goes out.
4. Remove actuator from valve body, chapter "10" on page 35.
5. Remove control cone, chapter "6.3" on page 17.
6. Replace packing gland,
   for sizes DN 10 – 15, seat size 3 – 10 or vacuum version, chapter "6.4" on page 18,
   for sizes DN 20 – 50, seat size 20 – 50, chapter "6.5" on page 20
7. Mount control cone, chapter "6.6" on page 22.
8. Mount actuator on valve body, chapter "11" on page 37.
9. Apply supply voltage.
10. Adjusting the position control – running X.TUNE, chapter "12" on page 39.
11. Set operting state AUTOMATIK, chapter "8" on page 26.

## 6.2 Required tools and equipment

- Allen key, width across flats 3 mm
  Only required when no supply voltage is applied to the device in order to move the valve into the open position.
- Open-end wrench
- Holding device to clamp the valve body
- Prism to support the control cone
- Pin punch
- Hammer
- Modified socket wrench. For valves from size DN 20, seat size 20 is required.
  Order number see chapter "14.3.1 Installation tools for control valves of Types 3360 and 3361".
- Compressed air for removing the packing gland from DN 20 - 50, seat sizes 20 - 50.
- Suitable lubricant, e.g. Klüberpaste UH1 96-402 of the company Klüber.

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**WARNING!**

**Risk of injury if the wrong tools are used.**

It is dangerous to use unsuitable tools for installation work as the device may be damaged.

▸ Work on the device only with tools which are specified for the particular activity.

## 6.3 Remove control cone

**Preconditions: MANUAL operating state, valve position at least 1/3 open, supply voltage switched off, actuator removed from the valve body.**

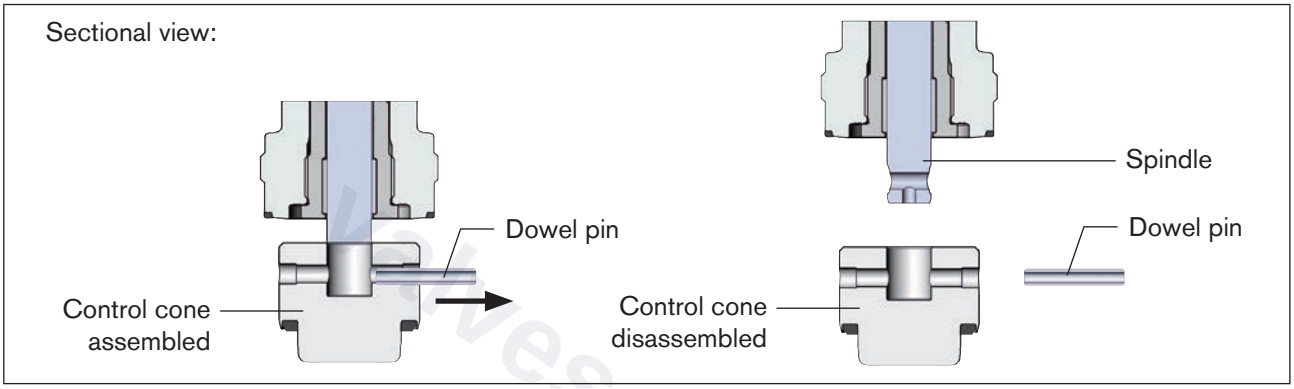



*Figure 2: Remove control cone*

→ Knock out dowel pin using a suitable pin punch (see table).

| Spindle diameter [mm] | Pin punch | Orifice connection (valve body) [DN] |
|---|---|---|
| 10 | 4 | 10/15 and 20 |
| 14 | 5 | 25 to 50 |

*Table 4: Spindle diameter with reference to DN*

→ Remove control cone.

**NOTE!**

Important information for the problem-free and safe functioning of the device: The sealing surface and cone contour of the control cone must not be damaged.

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## 6.4 Replace packing gland, sizes DN 10 – DN 15, seat sizes 3 – 10 or vacuum version

**Preconditions:**
**MANUAL operating state, valve position at least 1/3 open, supply voltage switched off, actuator removed from the valve body, control cone removed.**

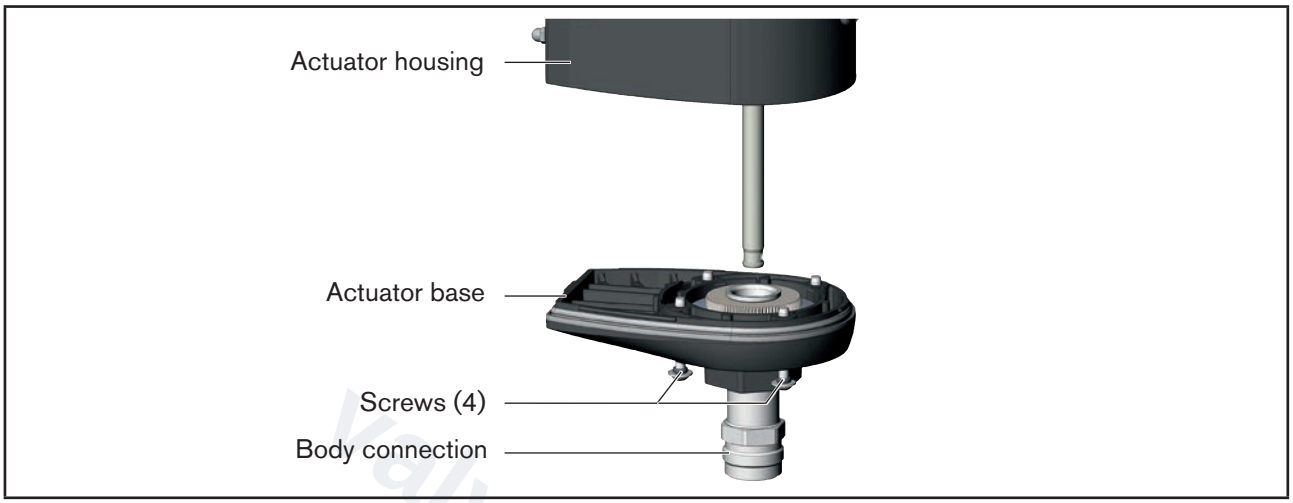



*Figure 3: Dismantle actuator base*

**Dismantle actuator base:**

→ Clamp the body connection in a holding device.

→ Loosen 4 screws on the actuator base.

→ Remove actuator housing from the actuator base.

**Remove packing gland:**

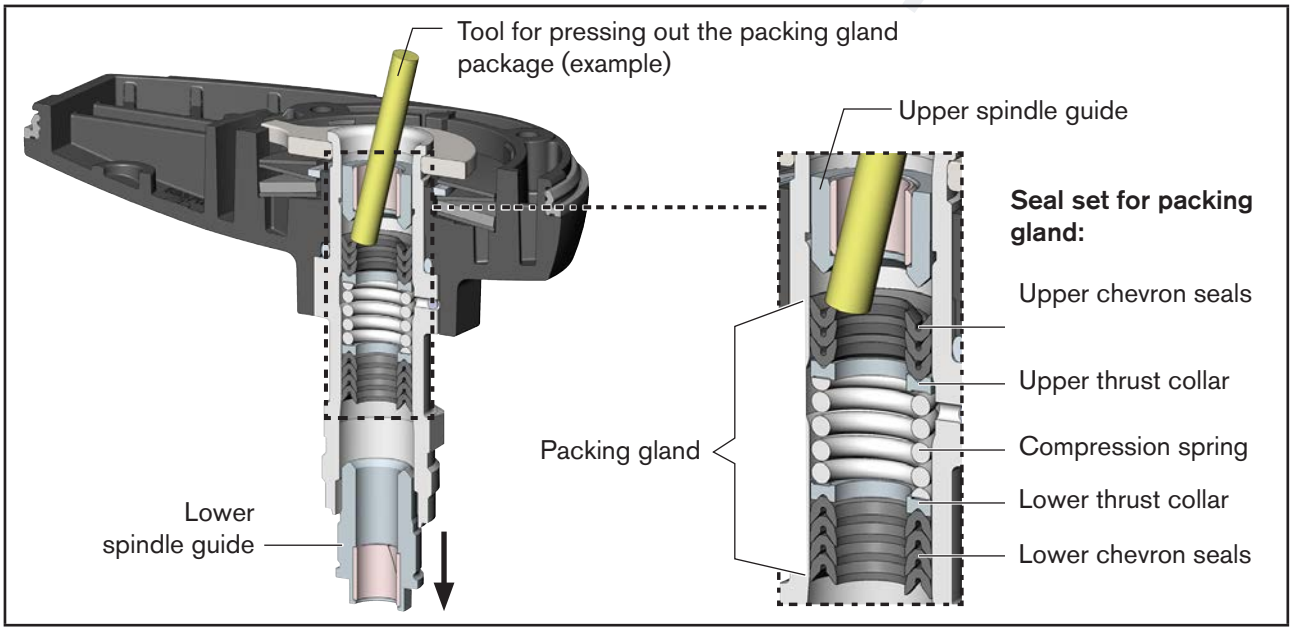



*Figure 4: Remove packing gland: Sizes DN 10 – DN 15, seat size 3 – 10 or vacuum version*

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→ Clamp the actuator base in a holding device.

→ Unscrew lower spindle guide.

→ Using a suitable tool (e.g. screwdriver), carefully press out the packing gland package.
⚠ Do not damage the upper spindle guide.

**Mount new packing gland:**

**⚠ WARNING!**

**Danger if unsuitable lubricants are used.**

Unsuitable lubricant may contaminate the medium. In oxygen applications there is a risk of an explosion.

▸ Only use approved lubricants for specific applications, such as oxygen applications or analytical applications.

→ Grease chevron seals of the new packing gland with the supplied lubricant.

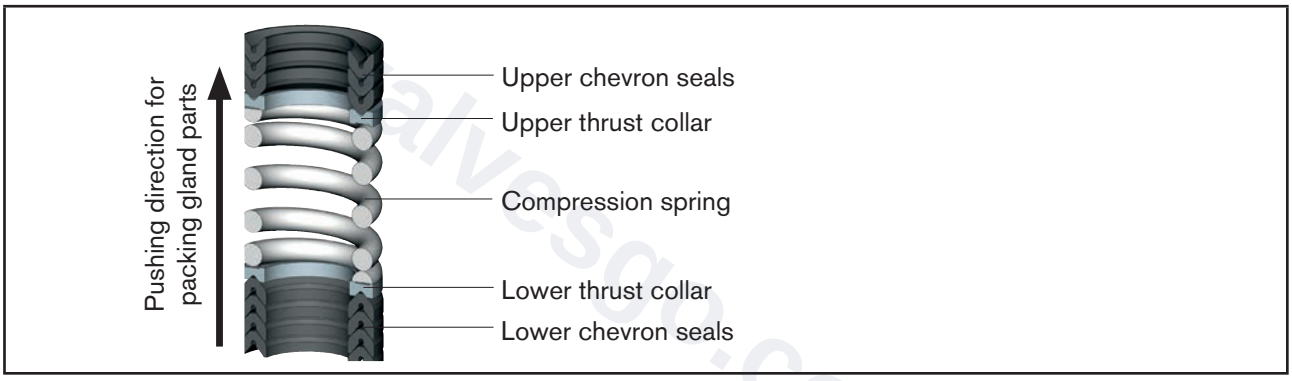



*Figure 5: Construction of the packing gland*

→ Insert the parts of the new packing gland individually in the correct sequence (see "Figure 5").

→ Grease spindle guide thread. Screw in spindle guide.
⚠ Observe tightening torque (see table).

| Spindle diameter [mm] | Orifice connection (valve body) [DN] | Tightening torques [Nm] |
|---|---|---|
| 10 | 10/15 | 15 |
| | 20 | 25 |
| 14 | 25 | 25 |
| | 32 to 50 | 60 |

*Table 5: Spindle guide tightening torques*

→ Place actuator base on the actuator housing.

→ Tighten 4 screws crosswise.
⚠ Observe tightening torque of 5 Nm.

**Next step:**

- Mount control cone, chapter "6.6" on page 22.


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## 6.5 Replace packing gland, sizes DN 20 – DN 50, seat sizes 20 – 50

**Preconditions:**
**MANUAL operating state, valve position at least 1/3 open, supply voltage switched off, actuator removed from the valve body, control cone removed.**

**Remove packing gland:**

→ Place the open-end wrench on the body connection. Unscrew spindle guide with the aid of a modified socket wrench.

Modified socket wrench is not included in the spare part sets. The modified socket wrench can be ordered separately. Order number see chapter "14 Accessories, spare parts". If you have any questions, please contact your Bürkert sales office.

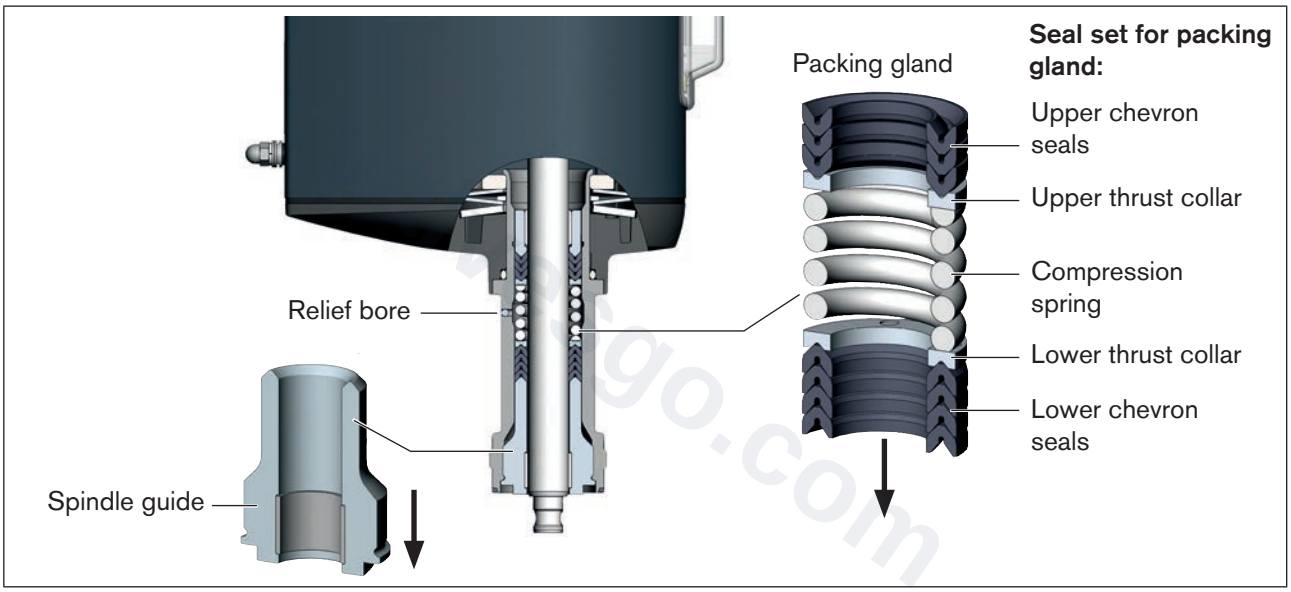



*Figure 6: Replace packing gland: Sizes DN 20 – DN 50, seat sizes 20 – 50*

**WARNING!**

**Risk of injury from ejected parts.**

When the spindle opening is exposed, the individual parts of the packing gland are pressed out at an undefined speed when the relief bore is pressurized.

- Before pressurizing with compressed air, safeguard the ambient area of the discharge opening (e.g. place spindle on a firm base).

→ Place spindle on a firm base.

→ Pressurize relief bore with approx. 6 bar compressed air.

**Caution!**
Not all individual parts of the packing gland are pressed out by pressurizing with compressed air. Usually the upper chevron seals remain in the packing gland tube. Replace the pressed out individual parts only.

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**NOTE!**

Individual parts of the packing gland can remain inserted in the threaded part of the packing gland tube.

The individual parts are then ready to hand:

1. Before pressurizing the relief bore: Move the spindle with the aid of the mechanical manual control (see chapter "9.3") into the upper position.
2. After pressurizing the relief bore: Move the spindle with the aid of the mechanical manual control into the lower position.

**Mount new packing gland:**

**WARNING!**

**Danger if unsuitable lubricants are used.**

Unsuitable lubricant may contaminate the medium. In oxygen applications there is a risk of an explosion.

▸ Only use approved lubricants for specific applications, such as oxygen applications or analytical applications.

→ Grease chevron seals of the new packing gland with the supplied lubricant.

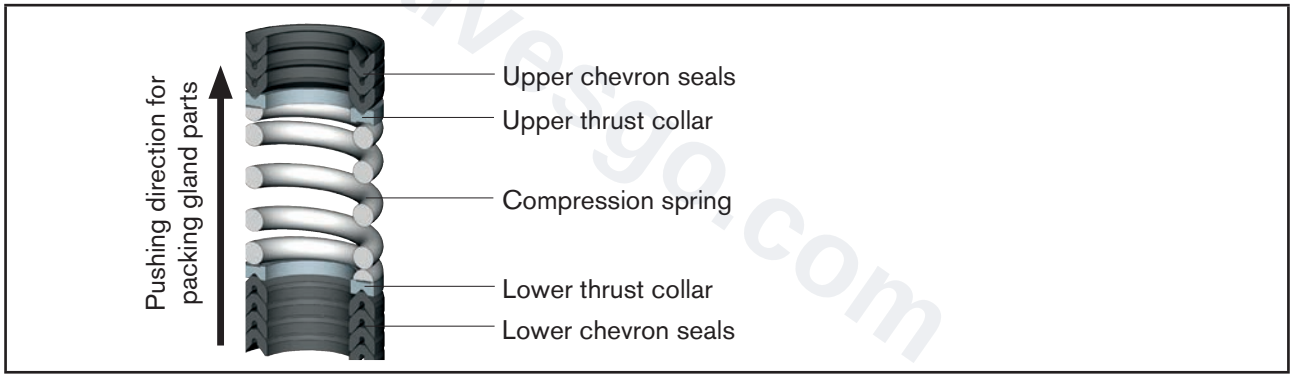



*Figure 7: Structure of the packing gland*

→ Place the individual parts on the spindle in the prescribed direction and sequence.

→ Push packing gland into the packing gland tube.

→ Grease spindle guide thread with Klüberpaste UH1 96-402.

→ Screw in spindle guide.
⚠ Observe tightening torque (see table).

| Spindle diameter [mm] | Orifice connection (valve body) [DN] | Tightening torques [Nm] |
|---|---|---|
| 10 | 10/15 | 15 |
| | 20 | 25 |
| 14 | 25 | 25 |
| | 32 to 50 | 60 |

*Table 6: Spindle guide tightening torques*



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**Next step:**

- Mont control cone, chapter "6.6" on page 22

## 6.6 Mount control cone

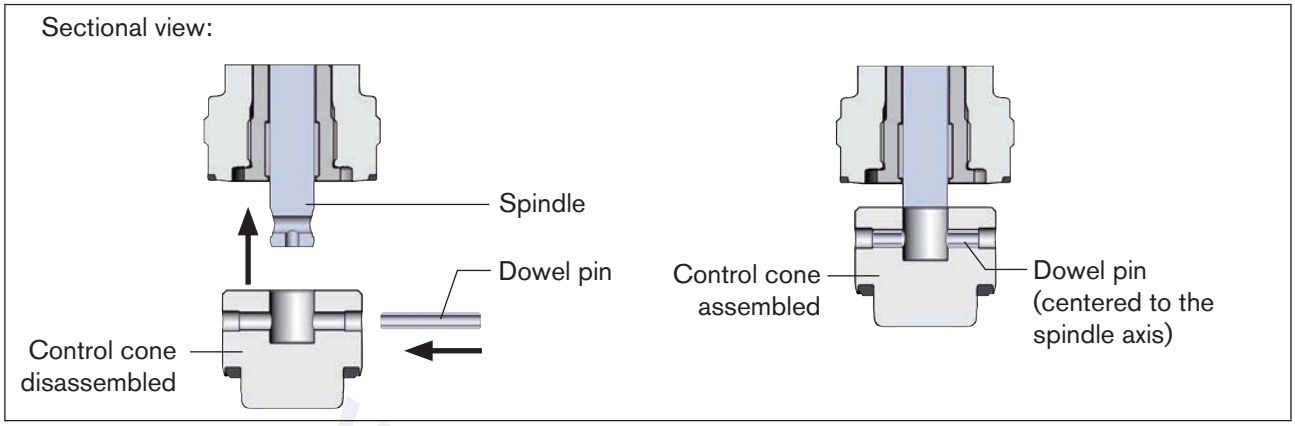



*Figure 8: Mount control cone*

**NOTE!**

Important information for the problem-free and safe functioning of the device: The sealing surface and cone contour of the control cone must not be damaged.

→ Attach control cone to the spindle.

→ Align bores of the control cone and spindle.

→ Support control cone on the cylindrical part with the help of a prism.

→ Put on dowel pin and carefully knock in with a hammer.

→ Position the dowel pin in the center of the spindle axis.

**Next steps:**

- Mount actuator on valve body, chapter "11" on page 37.
- Apply supply voltage.
- Adjusting the position control – running X.TUNE, chapter "12" on page 39.
- Set operting state AUTOMATIK, chapter "8" on page 26.

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# 7 REPLACING THE VALVE SEAT

**DANGER!**

**Risk of injury from high pressure.**

▸ Before working on the system or device, switch off the pressure and vent or drain lines.

**WARNING!**

**Risk of injury due to improper replacement of spare parts.**

▸ The seal set may be replaced only by trained technicians and with the appropriate tools.

## 7.1 Required work steps

1. Set operating state MANUAL, chapter "8" on page 26.
2. Move valve into open position., chapter "9" on page 28.
3. Switch off the supply voltage. Wait until LED illuminated ring goes out.
4. Remove actuator from valve body, chapter "10" on page 35.
5. Replace valve seat, chapter "7.3" on page 24
6. Mount actuator on valve body, chapter "11" on page 37.
7. Apply supply voltage.
8. Adjusting the position control – running X.TUNE, chapter "12" on page 39.
9. Set operting state AUTOMATIK, chapter "8" on page 26.

## 7.2 Required tools and equipment

- Allen key, width across flats 3 mm
  Only required when no supply voltage is applied to the device in order to move the valve into the open position.
- Open-end wrench
- Holding device to clamp the valve body
- Pin punch
- Hammer
- Installation tool, order number see chapter "14.3.2 Installation tools for control valves of Type 3361"
- Compressed air for cleaning.
- Suitable lubricant, e.g. Klüberpaste UH1 96-402 of the company Klüber.

**WARNING!**

**Risk of injury if the wrong tools are used.**

It is dangerous to use unsuitable tools for installation work as the device may be damaged.

▸ Work on the device only with tools which are specified for the particular activity.

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## 7.3 Replace valve seat

**Preconditions:**
**MANUAL operating state, valve position fully open, supply voltage switched off, actuator removed from the valve body.**

**Remove valve seat:**

→ Select a suitable tool insert and screw it into the installation tool.

Installation tool is not included in the replacement part set. The installation tool can be ordered separately. Order number see chapter "14 Accessories, spare parts". If you have any questions, please contact your Bürkert sales office.

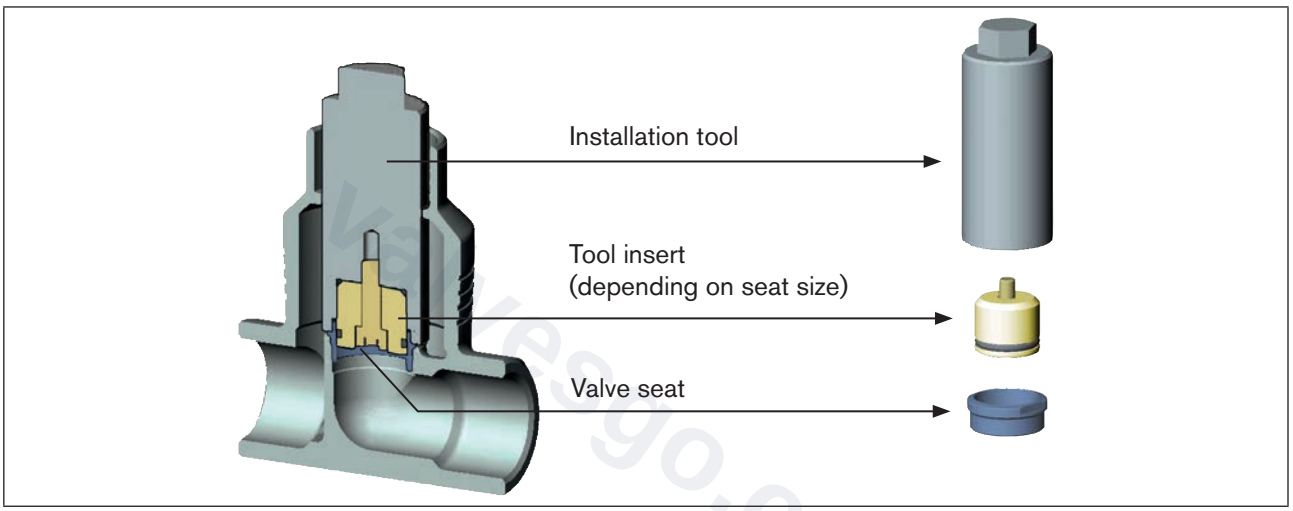



*Figure 9: Replace valve seat*

→ Unscrew the valve seat using the installation tool and a wrench.

→ Clean the thread and sealing surface in the valve body using compressed air.

**Mount new valve seat:**

→ Place the new valve seat on the installation tool.

**WARNING!**

**Danger if unsuitable lubricants are used.**

Unsuitable lubricant may contaminate the medium. In oxygen applications there is a risk of an explosion.

▸ Only use approved lubricants for specific applications, such as oxygen applications or analytical applications.

→ Grease the valve seat thread with a lubricant (e.g. with Klüberpaste UH1 96-402 from Klüber).

→ Manually screw the fitted valve seat into the valve body thread.

→ Screw in valve seat tight using torque wrench.
⚠ Observe tightening torque (see "Table 7").

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| Screw connection | | Tightening torque | |
|---|---|---|---|
| Seat size of the valve | Orifice connection (valve body) [DN] | Coated seats [Nm] | Tolerance [Nm] |
| 3-15 | 10/15 | 20 | +3 |
| 20 | 20 | 28 | +3 |
| 25 | 25 | 40 | +5 |
| 32 | 32 | 65 | +5 |
| 40 | 40 | 85 | +8 |
| 50 | 50 | 120 | +8 |

*Table 7: Tightening torques for valve seat installation*

**Next steps:**

- Mount actuator on valve body, chapter "11" on page 37.
- Apply supply voltage.
- Adjusting the position control – running X.TUNE, chapter "12" on page 39.
- Set operting state AUTOMATIK, chapter "8" on page 26.

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# 8 SETTING OPERATING STATE

## 8.1 Setting operating state for devices without display module

The operating state is set with DIP switch 4 which is located under the dummy cover.

→ To release, rotate the dummy cover counter-clockwise and remove.

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**

The removal of the cover is described in the additional manual for electromotive control valves with ATEX approval and IECEx approval.

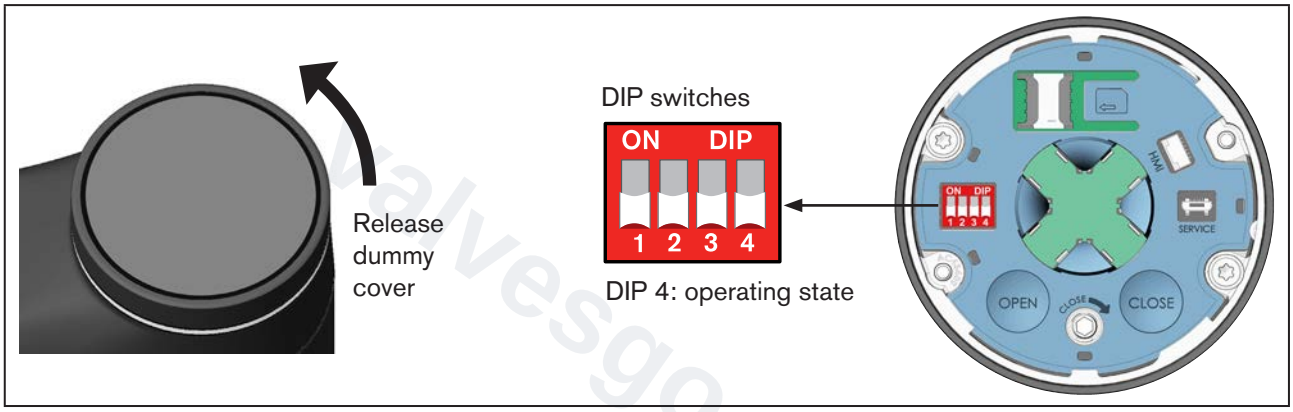



*Figure 10: Setting operating state*

→ Set operating state on DIP switch 4.

| ON DIP 1 2 3 4 | Operating state | |
|---|---|---|
| | AUTOMATIC:<br>DIP 4 ➔ downwards | MANUAL:<br>DIP 4 ➔ upwards (ON) |

→ Close the dummy cover.

**Tip for replacing spare parts:**

The OPEN button and CLOSE button for changing the valve position are located under the DIP switch.

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## 8.2 Setting operating state for devices with display module

The operating state is set in View 1 (home screen).

→ To switch to View 1, hold down the back key ⮌.

To change the operating state, the MANU / AUTO layout must be selected for View 1
The layout is set in the context menu:
To open the context menu, hold down the menu key ☑.

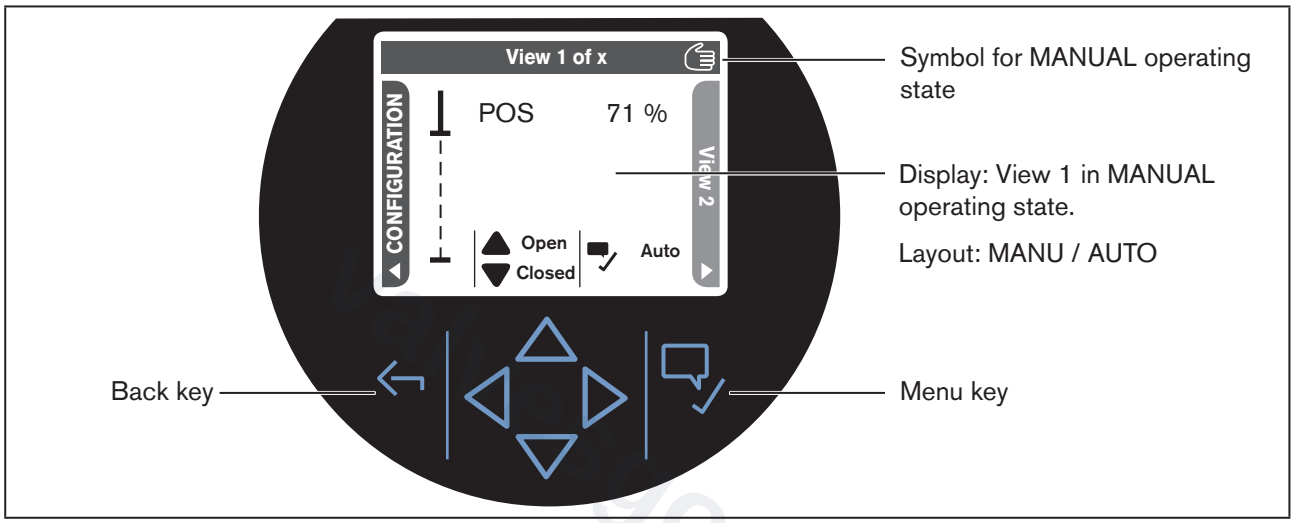



*Figure 11: Switching operating state, MANUAL – AUTOMATIC*

**Setting operating state:**

→ To switch to the operating state, briefly press the ☑ menu key.

MANUAL: The HAND symbol ☜ can be seen at the top on the information bar. The 2 arrow symbols labeled "open" and "closed" are shown.

AUTOMATIC: The LED illuminated ring on the device is lit. The HAND symbol ☜ and the 2 arrow symbols labeled "open" and "closed" are hidden.

**Tip for replacing spare parts:**

To open the valve, press the upper navigation key △.

**Additional setting option for the operating state.**

The operating state can also be set in the configuration area **General settings** → **MAINTENANCE** in the menu **AUTO I MANU**.

The setting can be made on the display or using the Bürkert Communicator PC software.

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# 9 MANUAL ACTUATION OF THE VALVE

The valve can be manually actuated in various ways:

- Electrically using the keys on the display (only on devices with display module), see "9.1" on page 28
- Electrically with the OPEN and CLOSE buttons which are located under the dummy cover (only on devices without display module), see "9.2" on page 29.
- Mechanically with the manual override, see "9.3" on page 30.

## 9.1 Electrically actuating valve for devices without display module

The valve is electrically actuated in MANUAL operating state in View 1 (home screen).

→ To switch to View 1 (home screen), hold down the back key ⮌.

The setting of the operating state and electrical actuation of the valve are possible in MANUAL / AUTO layout only.

The layout is set in the context menu: To open the context menu, hold down the menu key ☑.

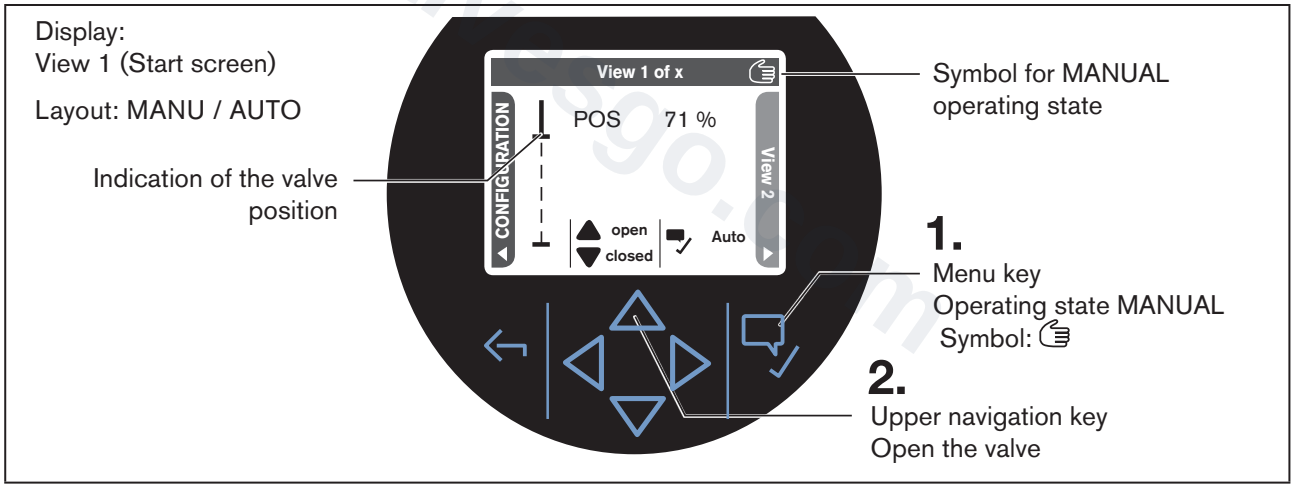



*Figure 12: On the display set the operating state and actuate the valve*

**Changing to the operating state MANUAL**:

→ Press the ☑ menu key.
The HAND symbol can be seen at the top on the information bar.
The 2 arrow symbols labeled "open" and "closed" are shown.
The LED illuminated ring on the device flashes.

**Change valve postion:**

→ △ To open press the upper navigation key.

→ ▽ To close press the lower navigation key.

The valve position is indicated on the display (see "Figure 12".

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## 9.2 Electrically actuating valve for devices without display module

To actuate the valve, the device must be in MANUAL operating state.

The 2 buttons for actuating the valve and set the operating state are located under the dummy cover.

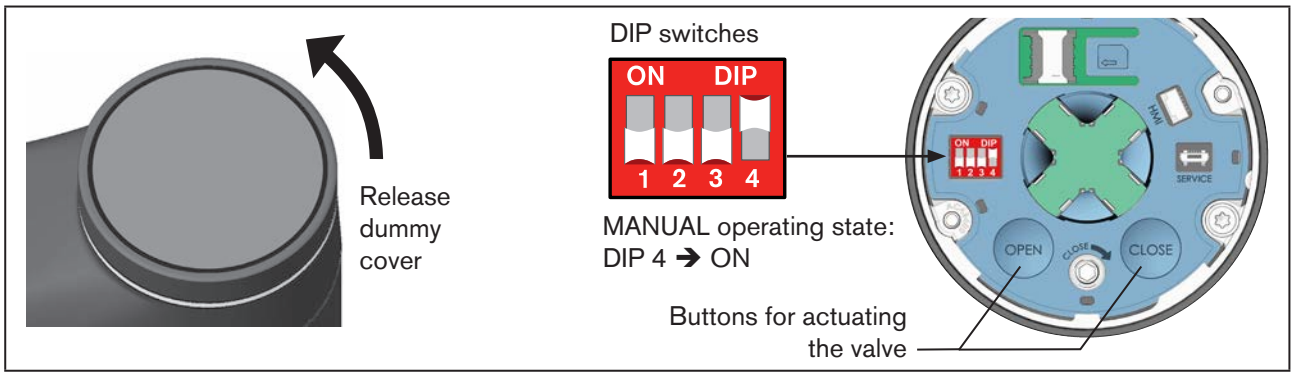



*Figure 13: Setting MANUAL operating state and actuating the valve*

**Remove dummy cover:**

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**
The removal of the cover is described in the additional manual for electromotive control valves with ATEX approval and IECEx approval.

→ To release, rotate the dummy cover counter-clockwise and remove.

**Changing to the operating state MANUAL:**

→ Set DIP switch 4 to ON.
The device is the MANUAL operating state.

**Change valve postion:**

→ △ To open press the OPEN button.

→ ▽ To close press the CLOSE button.

The valve position must be detected on the mechanical position indicator.

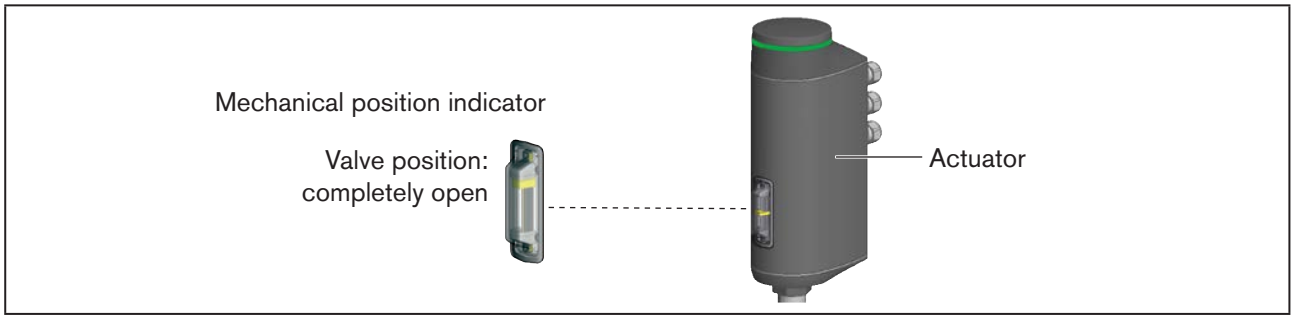



*Figure 14: Mechanische Stellungsanzeige*

**Close dummy cover:**

→ Mount dummy cover and turn clockwise until the 2 marks (one vertical line on the dummy cover and on the actuator) are vertically aligned.



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## 9.3 Mechanical actuation of the valve

If the supply voltage is not applied, e.g. during installation or in the event of a power failure, the valve position can be changed using the mechanical manual override.

**NOTE!**

The mechanical manual control may be used in a de-energized state only, otherwise the device may be damaged.

### 9.3.1 Required work steps

**Devices without fieldbus gateway:**

1. Switch off the supply voltage. Wait until LED illuminated ring goes out.
2. Removing dummy cover or display module, chapter "9.3.3" on page 31.
3. Actuating valve mechanically, chapter "9.3.5" on page 32.
4. Closing the dummy cover or display module, chapter "9.3.7" on page 34.
5. Apply supply voltage.

**Devices with fieldbus gateway:**

1. Switch off the supply voltage. Wait until LED illuminated ring goes out.
2. Removing dummy cover or display module, chapter "9.3.3" on page 31.
3. Removing the fieldbus gateway from the actuator, chapter "9.3.4" on page 31.
4. Actuating valve mechanically, chapter "9.3.5" on page 32.
5. Mounting the fieldbus gateway on the actuator, chapter "9.3.6" on page 33.
6. Closing the dummy cover or display module, chapter "9.3.7" on page 34.
7. Apply supply voltage.

### 9.3.2 Required tool

- Allen key, width across flats 3 mm

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### 9.3.3 Removing dummy cover or display module

**NOTE!**

Carefully remove display module ensuring that the connection cable and the HMI interface are not damaged.

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**

The removal of the cover is described in the additional manual for electromotive control valves with ATEX approval and IECEx approval.




*Figure 15: Removing dummy cover or display module*

→ To release the display module or the dummy cover, rotate counter-clockwise and remove.
⚠ On the display module pay attention to the connection cable leading to the HMI interface!

### 9.3.4 Removing the fieldbus gateway from the actuator

**Preconditions:**
**Supply voltage switched off, dummy cover or display module removed.**

**NOTE!**

The fieldbus gateway may be removed only when it is deenergised, otherwise the device may be damaged.

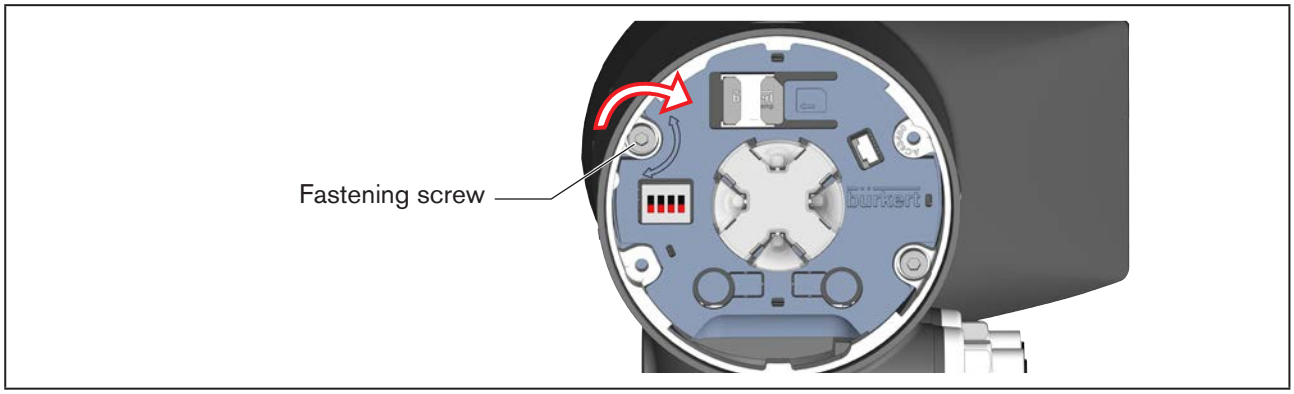



*Figure 16: Remove fieldbus gateway*

→ Remove fastening screw (socket head screw, width across flats 3 mm).


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**NOTE!**

Caution when removing the fieldbus gateway. Fieldbus gateway and actuator are connected to each other by a cable.

→ To release the fieldbus gateway, turn it counterclockwise and carefully remove it.

→ Disconnect connection cable from the fieldbus gateway.

### 9.3.5 Actuating valve mechanically

**Preconditions:**
**Supply voltage switched off, MANUAL operating state, dummy cover or display module removed. Also for device variant with fieldbus gateway: Fieldbus gateway removed.**

**NOTE!**

The mechanical manual override may be used only when it is deenergised, otherwise the device may be damaged.

→ To mechanically actuate the valve, use an Allen key with width across flats 3 mm.

**ATTENTION!**

**Maximum torque 2 Nm.**
If the torque is exceeded on reaching the valve end position, the mechanical manual control will be damaged.

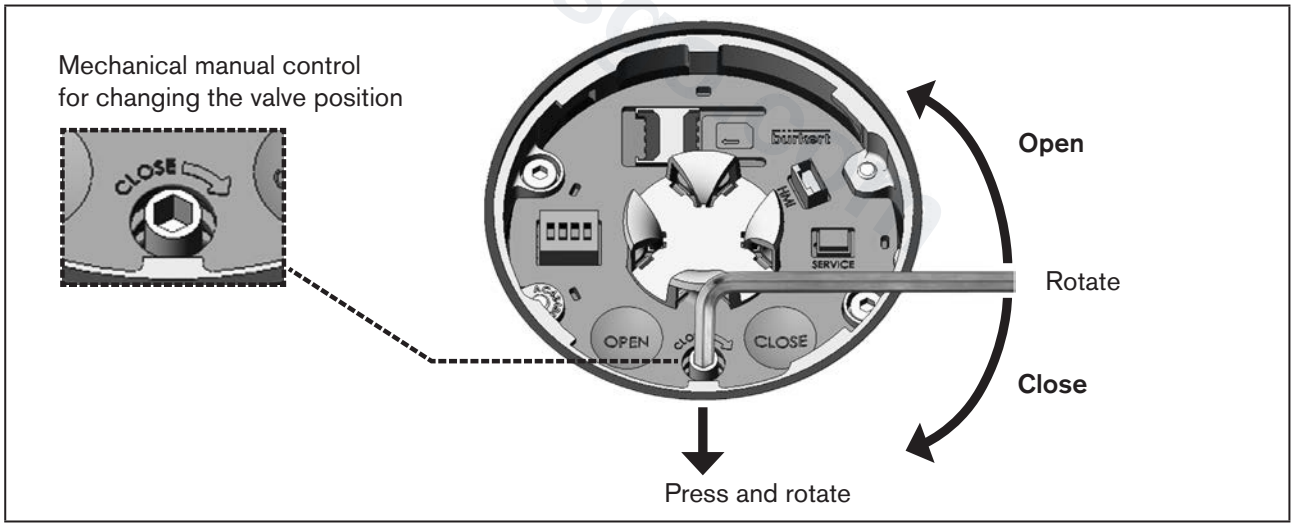



*Figure 17: Mechanical manual control*

→ Applying a gentle pressure, couple the mechanical manual control and simultaneously turn the Allen key counter-clockwise (see "Figure 17").
- To open, turn it counterclockwise.
- To close, turn it clockwise

⚠ Maximum tightening torque 2 Nm!

The valve position must be detected on the mechanical position indicator.


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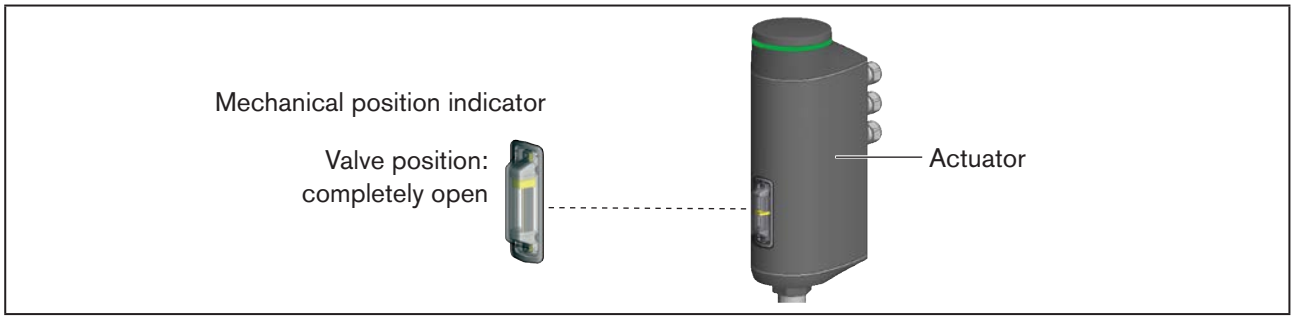



*Figure 18: Mechanical position indicator*

→ Remove the Allen key.

### 9.3.6 Mounting the fieldbus gateway on the actuator

**Preconditions: Supply voltage switched off.**

**NOTE!**

The fieldbus gateway may be mounted only when it is deenergised, otherwise the device may be damaged.

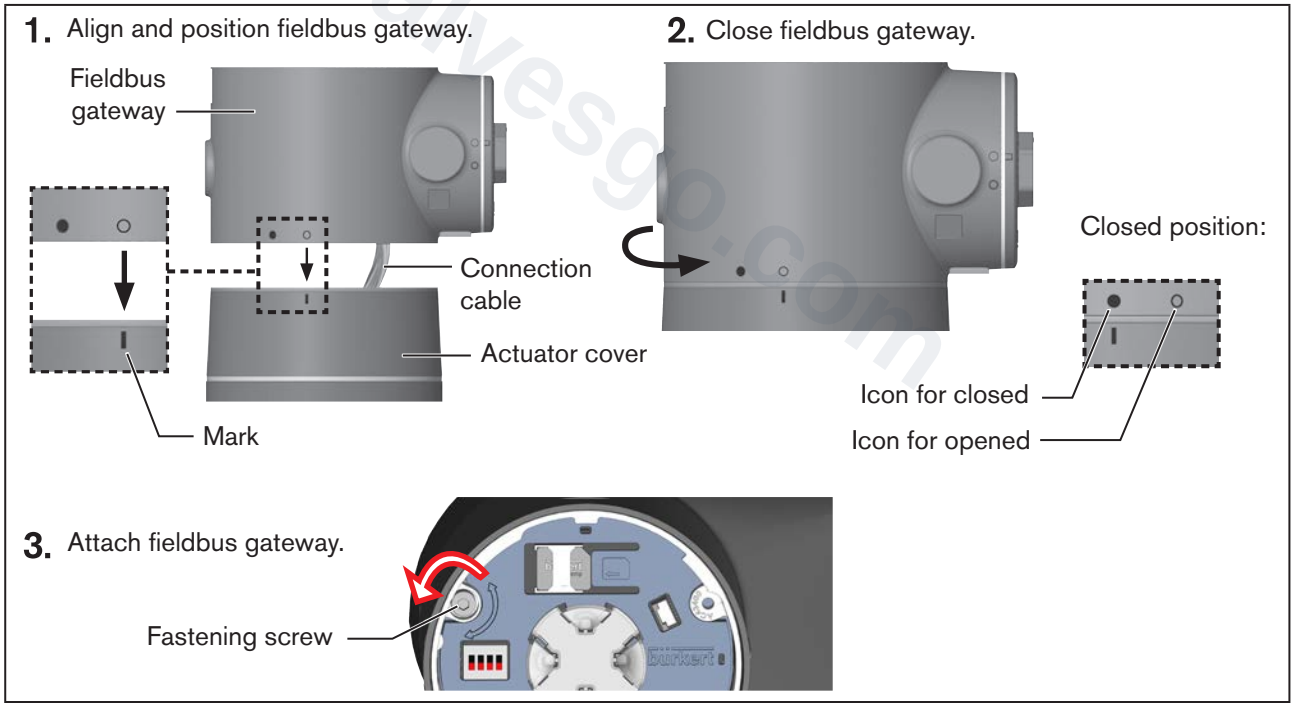



*Figure 19: Mount fieldbus gateway.*

→ Insert connection cable into the actuator on the fieldbus gateway.

→ Align and position fieldbus gateway on the actuator cover.
Centre the icon for opened over the mark on the actuator.

→ Manually turn fieldbus gateway clockwise until the icon for closed is positioned over the mark.

→ Tighten fastening screw (socket head screw, width across flats 3 mm).
Observe tightening torque 1.1 Nm!


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### 9.3.7 Closing the dummy cover or display module

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**

The removal of the cover is described in the additional manual for electromotive control valves with ATEX approval and IECEx approval.

**NOTE!**

**For devices with display module**
Before mounting the display, check whether the cable is correctly connected to the HMI interface.

→ Mount display module or the dummy cover and turn it clockwise until the 2 marks are vertically aligned. Vertical lines are affixed as marks to the display module, dummy cover and actuator.

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# 10 REMOVING OF THE ACTUATOR

**DANGER!**

**Risk of injury from high pressure.**

- Before working on the system or device, switch off the pressure and vent or drain lines.

**WARNING!**

**Risk of injury due to improper installation work.**

- The actuator may be removed only by trained technicians and with the appropriate tools.

## 10.1 Required work steps

1. Set operating state MANUAL, chapter "8" on page 26.
2. Move valve into open position, chapter "9" on page 28.
3. Switch off the supply voltage. Wait until LED illuminated ring goes out.
4. Remove actuator from valve body, chapter "10" on page 35.

## 10.2 Required tools

- Allen key, width across flats 3 mm
  Only required when no supply voltage is applied to the device in order to move the valve into the open position.
- Open-end wrench

## 10.3 Remove actuator from valve body

**Preconditions: MANUAL operating state, valve position at least 1/3 open, supply voltage switched off.**

**WARNING!**

**Risk of injury due to electric shock.**
**Risk of crushing due to mechanically moving parts.**

- Switch off supply voltage.
- Devices with SAFEPOS energy-pack: Completely drain SAFEPOS energy-pack. Wait until LED illuminated ring goes out; the LED status must not be in **LED off** mode.

**ATTENTION!**

**Damage to valve body or valve seat seal.**

To prevent damage, the valve must be open when removing the actuator.

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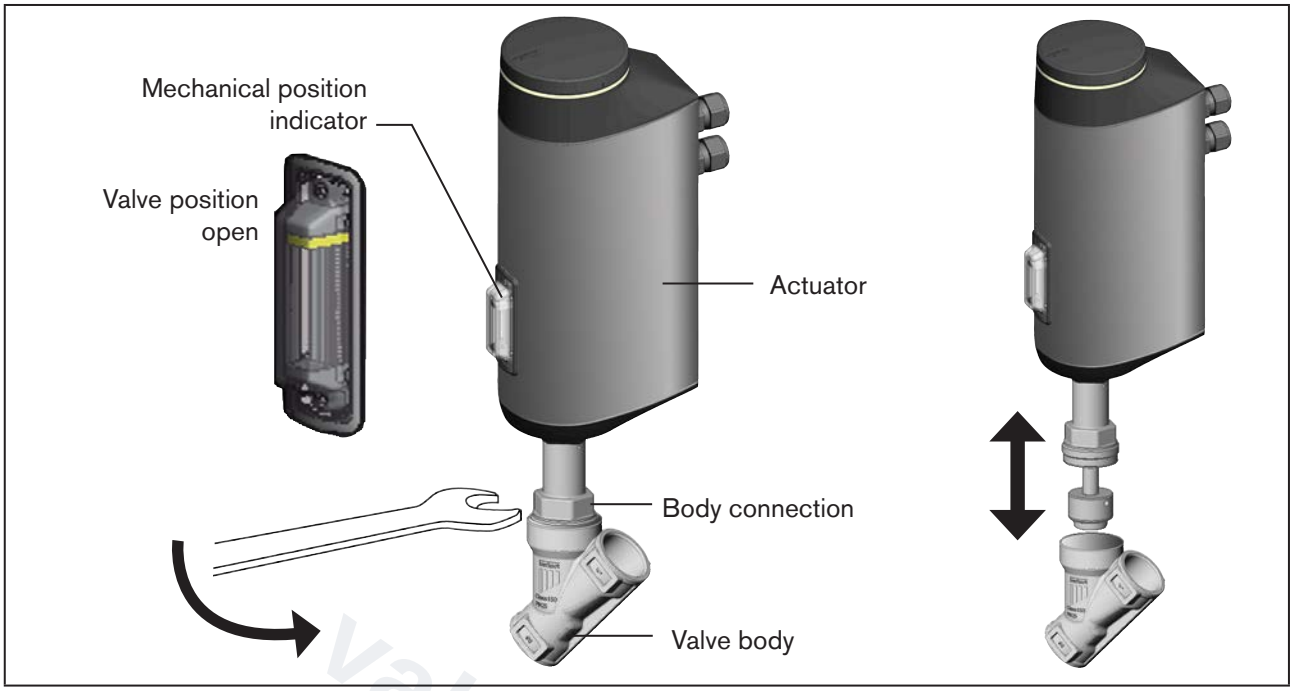



*Figure 20: Removing actuator (angle seat control valve shown in the example)*

→ Clamp the valve body into a holding device.

→ Place a suitable open-end wrench on the body connection.

⚠ Do not unscrew the body connection with a tool which could damage the body connection.

→ Unscrew the actuator off the valve body.

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# 11 MOUNTING ACTUATOR ON VALVE BODY

**Preconditions: MANUAL operating state, valve position at least 1/3 open, supply voltage switched off.**

→ Replace graphite seal.

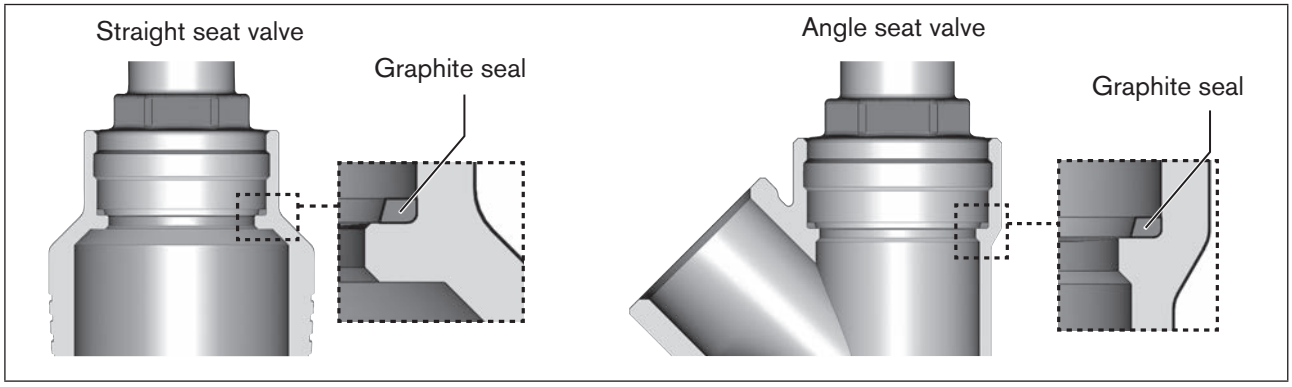



*Figure 21: Graphite seal*

**ATTENTION!**

**Damage to valve body or valve seat seal.**

To prevent damage, the valve must be open when mounting the actuator.

**WARNING!**

**Danger if unsuitable lubricants are used.**

Unsuitable lubricant may contaminate the medium. In oxygen applications there is a risk of an explosion.

▸ Only use approved lubricants for specific applications, such as oxygen applications or analytical applications.

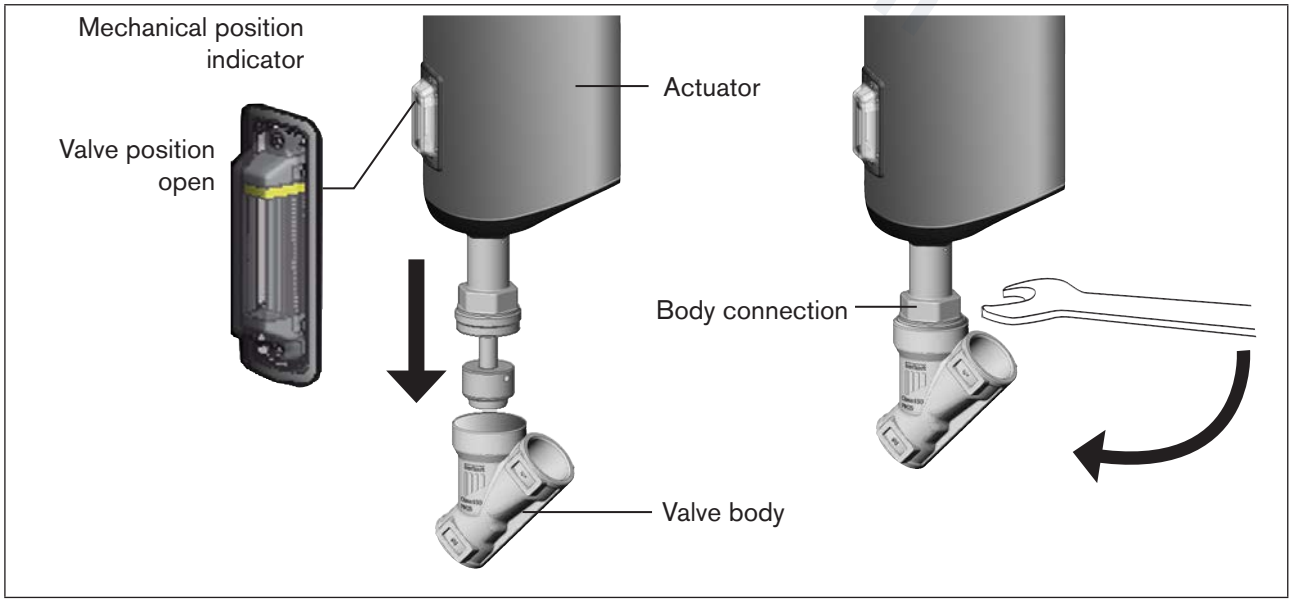



*Figure 22: Mounting actuator on valve body*

→ Grease the external thread of the body connection (e.g. with Klüberpaste UH1 96-402 from Klüber).



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→ Place the internal thread of the valve body on the external thread of the body connection.

→ Place a suitable open-end wrench on the body connection.
⚠ Do not screw on the body connection with a tool which may damage the body connection.

→ Screw actuator onto the valve body.
⚠ Observe tightening torque (see "Table 8").

**⚠ WARNING!**

**Risk of injury due to non-observance of the tightening torque!**

Non-observance of the tightening torque is hazardous as the device may be damaged.

▸ Observe tightening torque.

| Orifice connection (valve body) [DN] | Tightening torque for body connection | |
|---|---|---|
| | [Nm] | [lbf ft] |
| 10/15 | 45 ±3 | 33 ±2 |
| 20 | 50 ±3 | 37 ±2 |
| 25 | 60 ±3 | 44 ±2 |
| 32 | 65 ±3 | 48 ±2 |
| 40 | | |
| 50 | 70 ±3 | 52 ±2 |
| 65 | 100 ±3 | 74 ±2 |
| 80 | 120 ±5 | 89 ±2 |
| 100 | 150 ±5 | 111 ±2 |

*Table 8: Tightening torques for body connection*

**After Mounting:**

→ Apply supply voltage.

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# 12 ADJUSTING THE POSITION CONTROL – RUNNING X.TUNE

After monting the actuator, run the X.TUNE function.

**ATTENTION!**

**Do not run X.TUNE without requirement!**
The X.TUNE function must be run again only when the actuator has been removed afterwards or the valve body has been changed.

When the X.TUNE function is run, the position control is adjusted to the physical stroke of the actuating element used.

**WARNING!**

**Danger due to uncontrolled process after running the X.TUNE function.**

If the X.TUNE is run under medium pressure, the controller will be incorrectly adjusted. This will result in an uncontrolled process.

- Never run the X.TUNE under medium pressure.
- Secure system against unintentional activation.

## 12.1 Adjustment the position control using the buttons in the device

The 2 buttons for running the X.TUNE are located under the dummy cover.

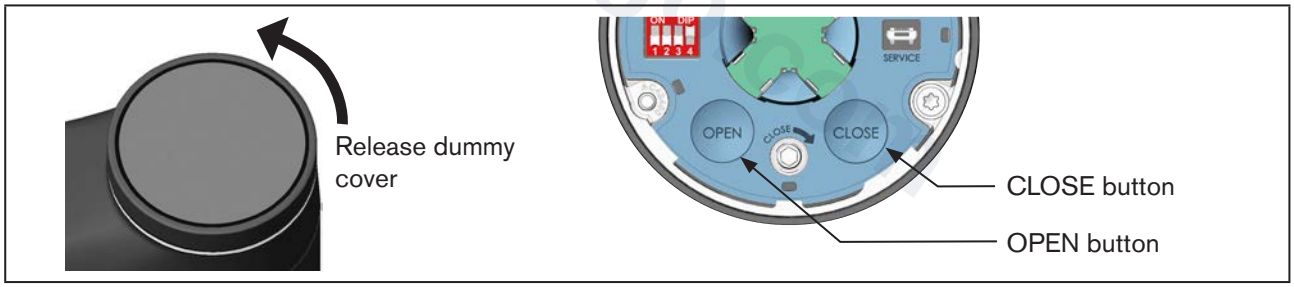



*Figure 23: Adjustment of the position controll using the buttons in the device*

**Removing dummy cover:**

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**
The removal of the cover is described in the additional manual for electromotive control valves with ATEX approval and IECEx approval.

→ To release, rotate the dummy cover counter-clockwise and remove.

**Running the X.TUNE function:**

Ensure that no medium pressure is applied!
Do not run the X.TUNE unless it is absolutely essential.

→ Simultaneously hold down the OPEN and CLOSE buttons for 5 s.

When the X.TUNE is running, the LED illuminated ring is lit orange.
When the X.TUNE ends, the LED illuminated ring is reset to its previous status.


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## 12.2 Adjustment position control on the PC or display of the device

The setting is made on the PC via the büS Service interface and by using the "Bürkert-Communicator" PC software. To do this, the USB büS interface set, available as an accessory, is required.

Display operation: Key functions

| | | |
|---|---|---|
| select, activate | confirm | back |

To run the X.TUNE function, you must change to the detailed view maintenance for position controller.

**Changing from View 1 to the detailed view:**

→ When setting with Bürkert-Communicator in the navigation area, select **Position controller** and switch to MAINTENANCE.

→ When setting on the display switch from view 1 to CONFIGURATION, select **Position controller** and switch to MAINTENANCE.

✓ You are in the detailed view maintenance.

**Running the X.TUNE function:**

⚠ Ensure that no medium pressure is applied!

→ Select CALIBRATION.

→ Select X.TUNE:
The following text appears: „Choose seal material (see type label)!

→ Select seal material.
The following question appears: “Do you really want to start the X.TUNE?
⚠ Do not start the X.TUNE unless it is absolutely essential to run the X.TUNE.

→ Start X.TUNE.

✓ The X.TUNE function is run.

If the X.TUNE is canceled due to an error, a message appears (see table below).

| Possible messages when X.TUNE is canceled | Description |
|---|---|
| There are device errors. | There is an error which is preventing X.TUNE from running. |
| Time limit exceeded | The X.TUNE could not be run within the time limit due to an error. |
| Motor current is too high. | The motor current is too large for running the X.TUNE function. |
| Lower end position of the valve is not detected. | The lower end position of the valve cannot be detected by the position sensor. |

*Table 9: Possible error message following cancellation of the X.TUNE function*

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# 13 REPLACEMENT OF THE ENERGY PACK

**WARNING!**

**Risk of injury due to improper installation work.**

- The actuator may be opened only by trained technicians and with the appropriate tools.

**CAUTION!**

**Risk of injury due to electric shock.**

- Before removing the SAFEPOS energy-pack, switch off the supply voltage.
- Completely drain SAFEPOS energy-pack. Wait until the LED illuminated ring goes out; the LED status must not be in **LED off** mode.

Setting the LED mode is described in the operating instructions at www.burkert.com.

## 13.1 Required work steps

The SAFEPOS energy-pack is located in the actuator housing. The following steps are required to replace the SAFEPOS energy pack:

1. Switch off the supply voltage. Wait until LED illuminated ring goes out.
2. Open the actuator housing
   Devices without fieldbus gateway, chapter "13.3" on page 42.
   Device with fieldbus gateway, chapter "13.4" on page 44.
3. Replacing the SAFEPOS energy-pack, chapter "13.5" on page 46:
4. Close the actuator housing
   Devices without fieldbus gateway, chapter "13.6" on page 47.
   Device with fieldbus gateway,, chapter "13.7" on page 49.
5. Apply supply voltage.

## 13.2 Required tools and equipment

- Key for hexalobular-internal screw T10
- Key for hexalobular-internal screw T20
- Key for hexalobular-internal screw T25
- Allen key, width across flats 3 mm

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## 13.3 Opening the actuator housing for device without fieldbus gateway

**Precondition: Supply voltage switched off.**

**WARNING!**

**Risk of injury due to improper installation work.**

▸ The actuator may be opened only by trained technicians and with the appropriate tools.

**Removing the display module or dummy cover:**

**NOTE!**

Carefully remove display module ensuring that the connection cable and the HMI interface are not damaged.

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**
The removal of the cover is described in the additional manual for electromotive control valves with ATEX approval and IECEx approval.




*Figure 24: Removing dummy cover or display module*

→ To release the display module or the dummy cover, rotate counter-clockwise and remove.
⚠ On the display module pay attention to the connection cable leading to the HMI interface!

→ For devices with display module disconnect the connection cable from the HMI interface.

**Removing LED and storage module:**

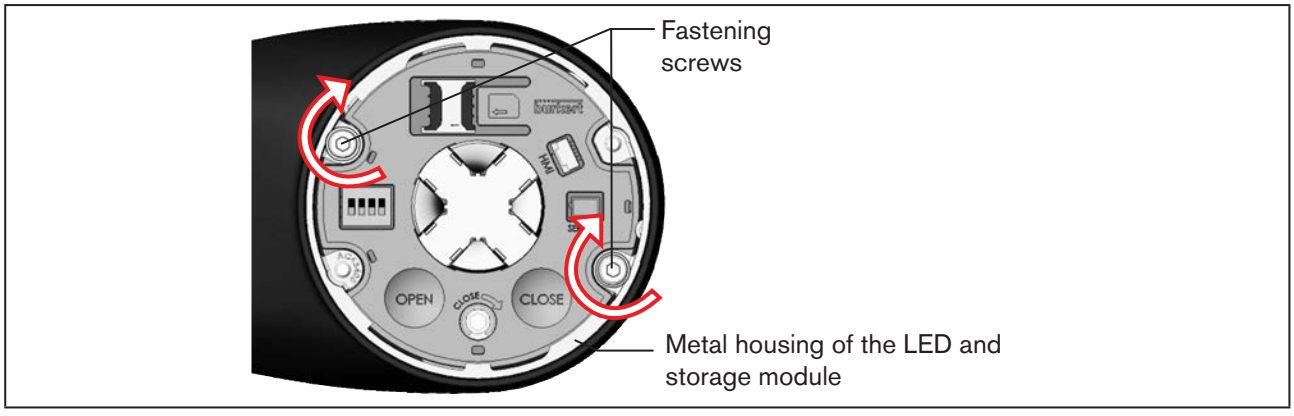



*Figure 25: Removing LED and storage module*

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→ Remove the 2 fastening screws (hexalobular-internal screws T20).

→ Take hold of the LED and storage module on both sides of the metal housing and lift out.

**Removing actuator cover:**

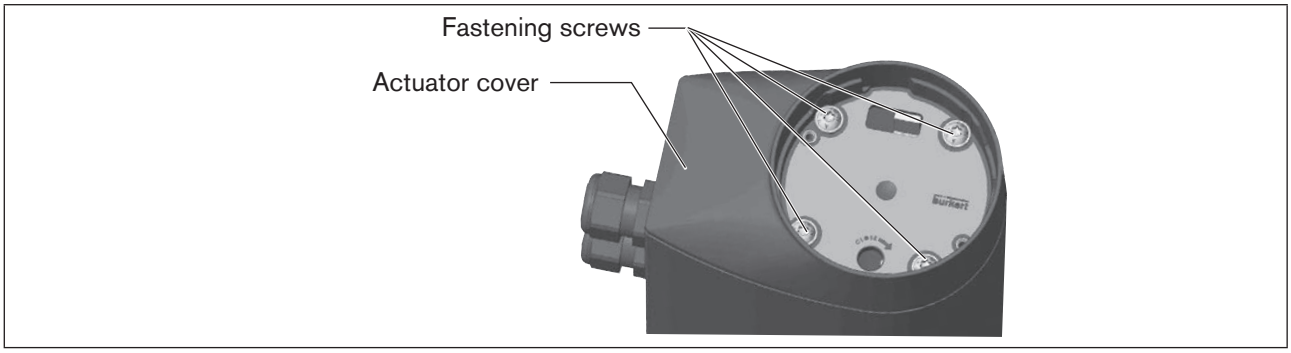



*Figure 26: Removing actuator cover*

→ Loosen the 4 fastening screws (hexalobular-internal screws T25).
The screws are integrated in the actuator cover to prevent them from falling out.

→ Remove actuator cover.

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## 13.4 Opening the actuator housing for device with fieldbus gateway

**Precondition: Supply voltage switched off.**

**WARNING!**

**Risk of injury due to improper installation work.**

▸ The actuator may be opened only by trained technicians and with the appropriate tools.

**Removing the display module or dummy cover:**

**NOTE!**

Carefully remove display module ensuring that the connection cable and the HMI interface are not damaged.

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**
The removal of the cover is described in the additional manual for electromotive control valves with ATEX approval and IECEx approval.




*Figure 27: Removing dummy cover or display module*

→ To release the display module or the dummy cover, rotate counter-clockwise and remove.
⚠ On the display module pay attention to the connection cable leading to the HMI interface!

→ For devices with display module disconnect the connection cable from the HMI interface.

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**Removing fieldbus gateway:**

**NOTE!**

The fieldbus gateway may be removed only when it is deenergised, otherwise the device may be damaged.

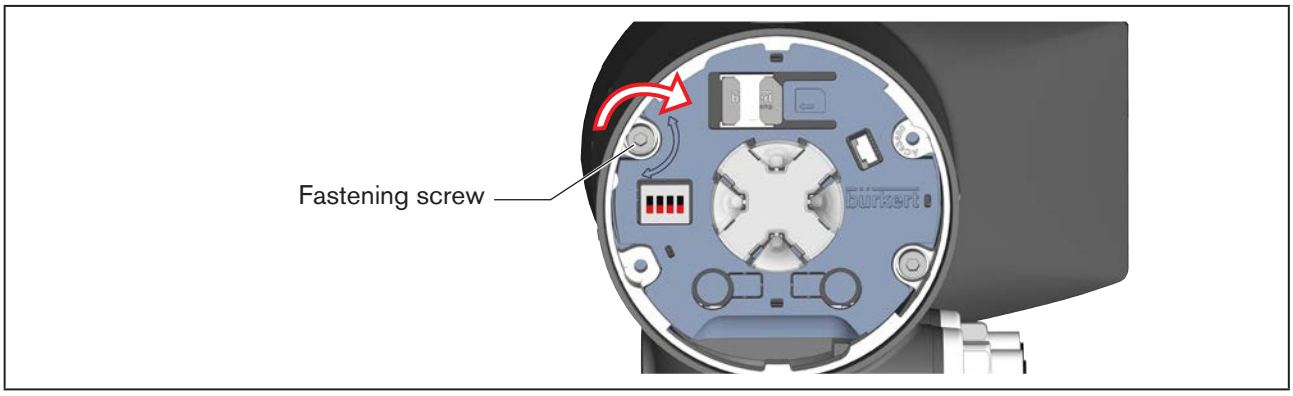



*Figure 28: Removing fieldbus gateway*

→ Remove fastening screw (socket head screw, width across flats 3 mm).

**NOTE!**

Caution when removing the fieldbus gateway. Fieldbus gateway and actuator are connected to each other by a cable.

→ To release the fieldbus gateway, turn it counterclockwise and carefully remove it.

→ Disconnect connection cable from the fieldbus gateway.

**Removing bayonet adapter:**

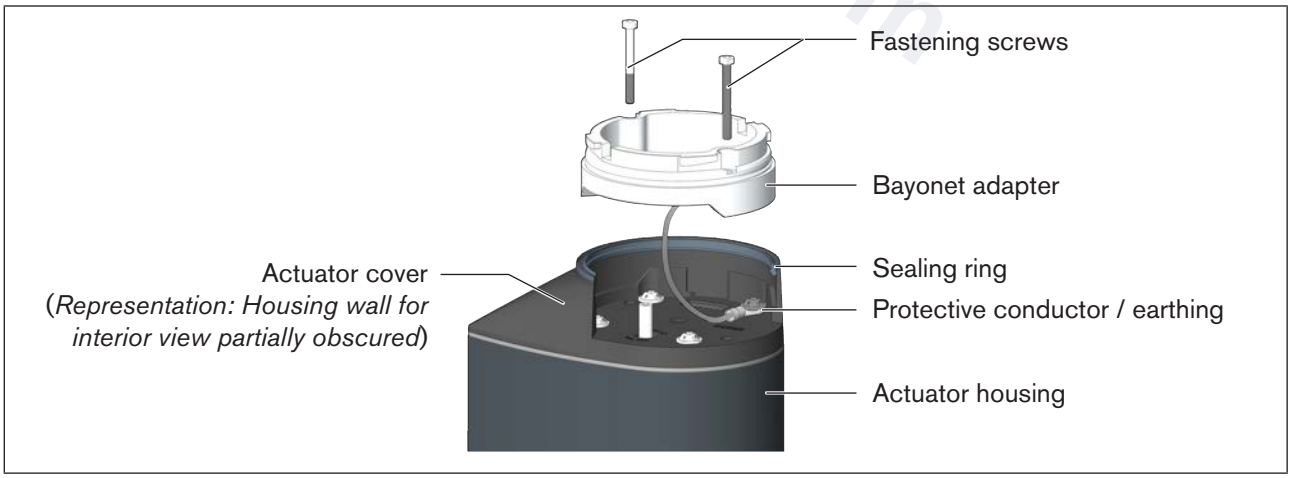



*Figure 29: Removing bayonet adapter*

→ Remove 2 fastening screws (hexalobular-internal screws T20).

→ Lift out bayonet adapter.
**NOTE!** The bayonet adapter is connected to the actuator cover by the earthing cable.
Bayonet adapter and actuator cover are removed together from the actuator.


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**Removing actuator cover:**

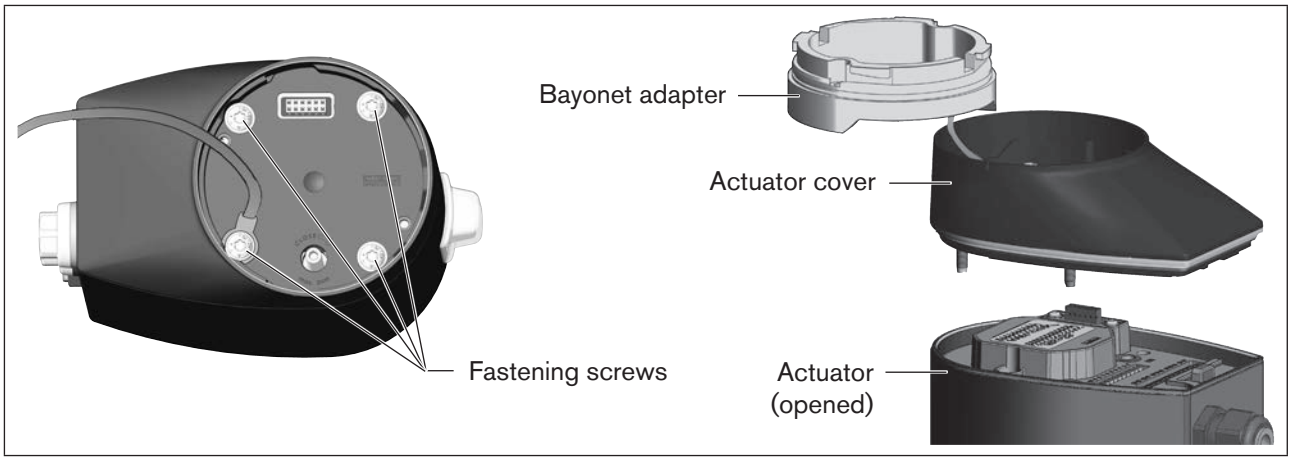



*Figure 30: Removing actuator cover*

→ Remove 4 fastening screws (hexalobular-internal screws T25).
The screws are integrated securely in the actuator cover.

→ Remove actuator cover and bayonet adapter.

## 13.5 Replacing the SAFEPOS energy-pack

**Precondition: Actuator housing opened, power supply switched off.**

**Removing SAFEPOS energy pack:**

**NOTE!**

Removal while the supply voltage is applied may result in data loss.

▸ Remove SAFEPOS energy pack only when the power supply is switched off.

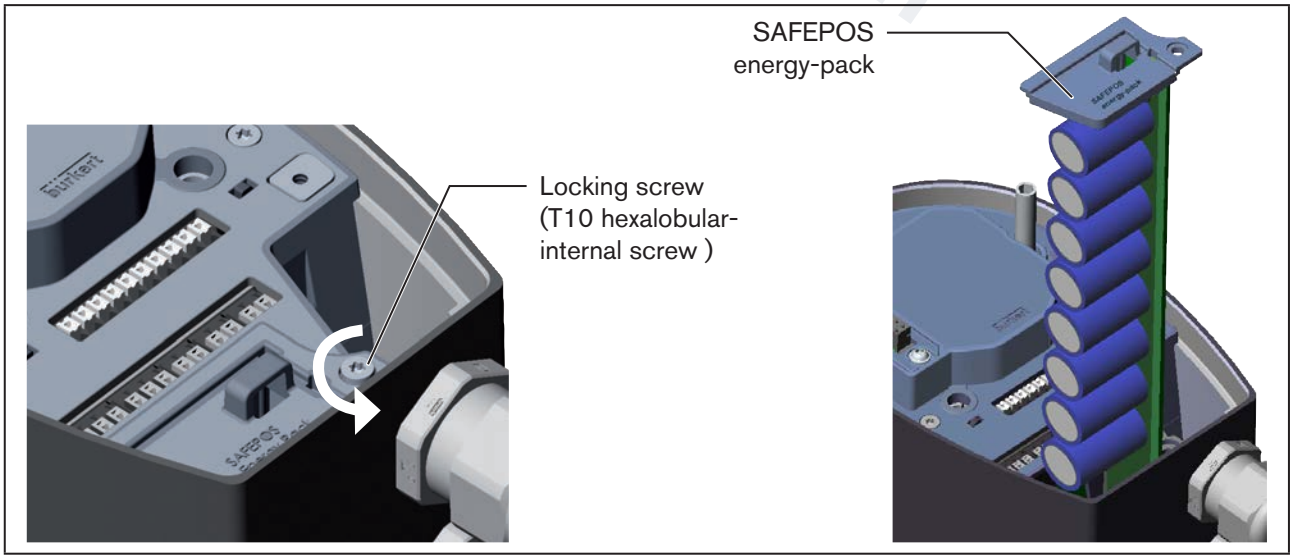



*Figure 31: Removing the SAFEPOS energy-pack*

→ Loosen locking screw (T10 hexalobular-internal screw ).

→ Completely pull out SAFEPOS energy-pack on the bracket.

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**Inserting new SAFEPOS energy pack:**

→ Take SAFEPOS energy-pack out of the transport packaging.

→ Insert SAFEPOS energy-pack into the two guiding grooves and push in all the way.

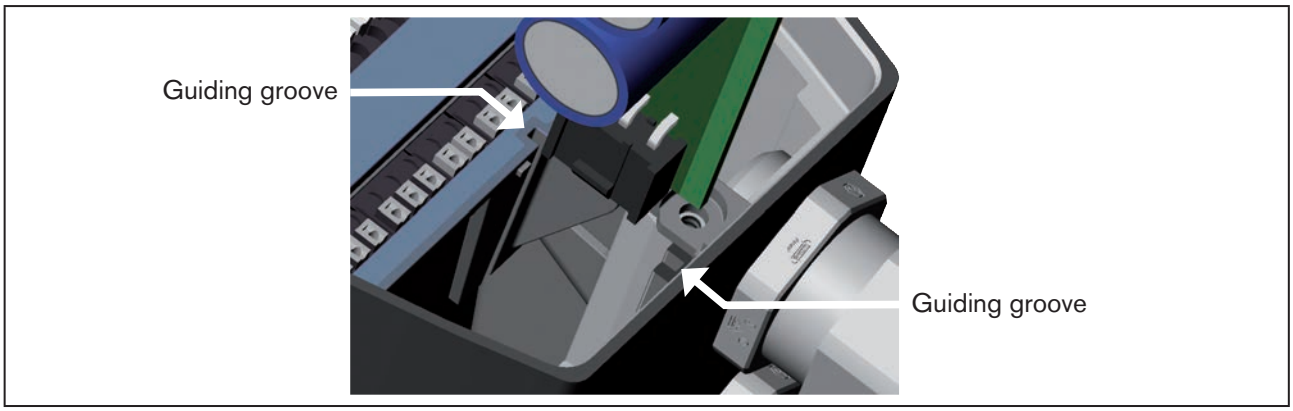



*Figure 32: Inserting the SAFEPOS energy-pack*

→ Tighten locking screw (T10 hexalobular-internal screw ).
Observe tightening torque 1.1 Nm!

**Next steps:**

- Close the actuator housing,
  Devices without fieldbus gateway, chapter "13.6" on page 47.
  Device with fieldbus gateway, chapter "13.7" on page 49.
- Apply supply voltage.

## 13.6 Closing the actuator housing for device without fieldbus gateway

**Mounting actuator cover:**

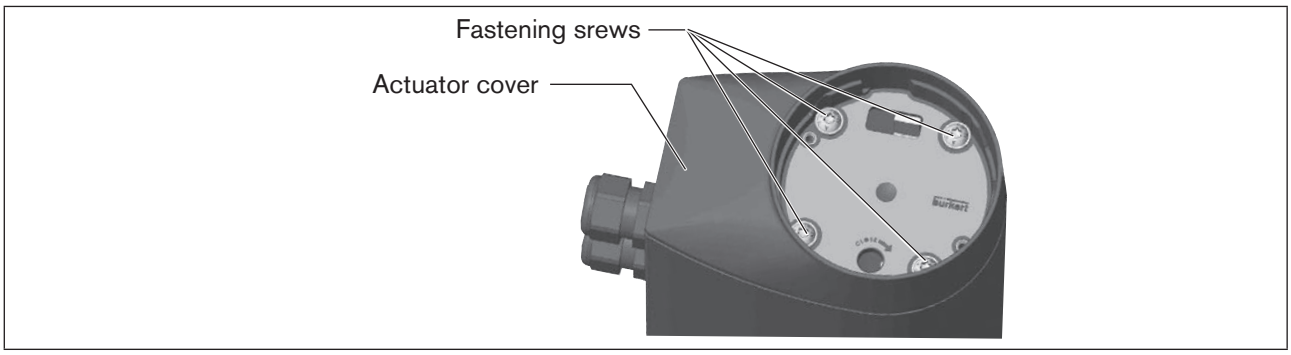



*Figure 33: Mounting actuator cover*

→ Place actuator cover on the actuator housing.

→ Slightly screw in the 4 fastening screws (T25 hexalobular-internal screws) crosswise, firstly by hand and then tighten. Observe tightening torque 5 Nm!



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**Mounting LED and storage module:**

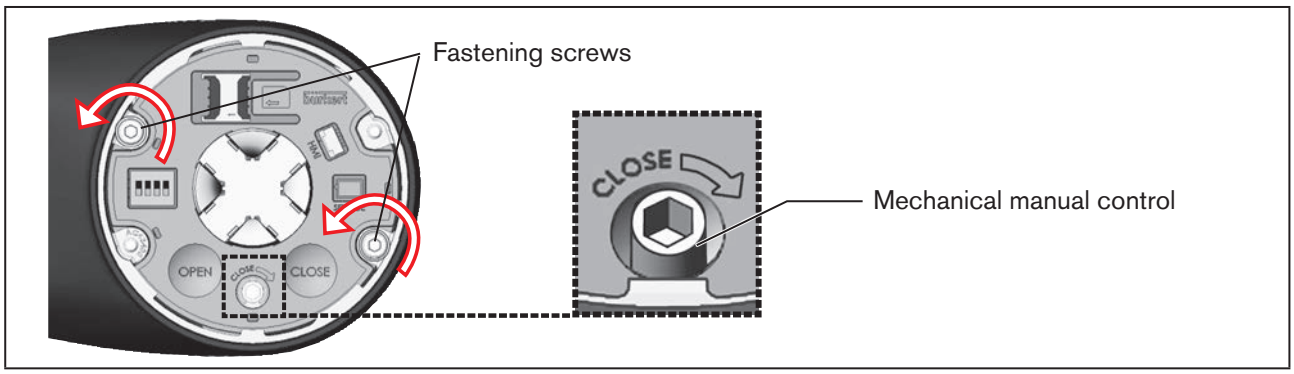



*Figure 34: Mounting LED and storage module*

→ Position LED and storage module on the actuator cover
(centre the round recess in the LED and storage module on the mechanical manual override).

→ Tighten 2 fastening screws (hexalobular-internal screws T20).
Observe tightening torque 1.1 Nm!

**Closing display module or dummy cover:**

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**

Closing the cover is described in the supplementary instructions for the electromotive control valves with ATEX approval and IECEx approval.

**NOTE!**

**For devices with display module**
Before mounting the display, check whether the cable is correctly connected to the HMI interface.

→ For devices with display module, connect the connection cable to the HMI interface.

→ Mount display module or the dummy cover and turn clockwise until the 2 marks (one vertical line on the display module or dummy cover and on the actuator) are vertically aligned.

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## 13.7 Closing the actuator housing for device with fieldbus gateway

**Precondition: Supply voltage switched off.**

**Mounting actuator cover:**

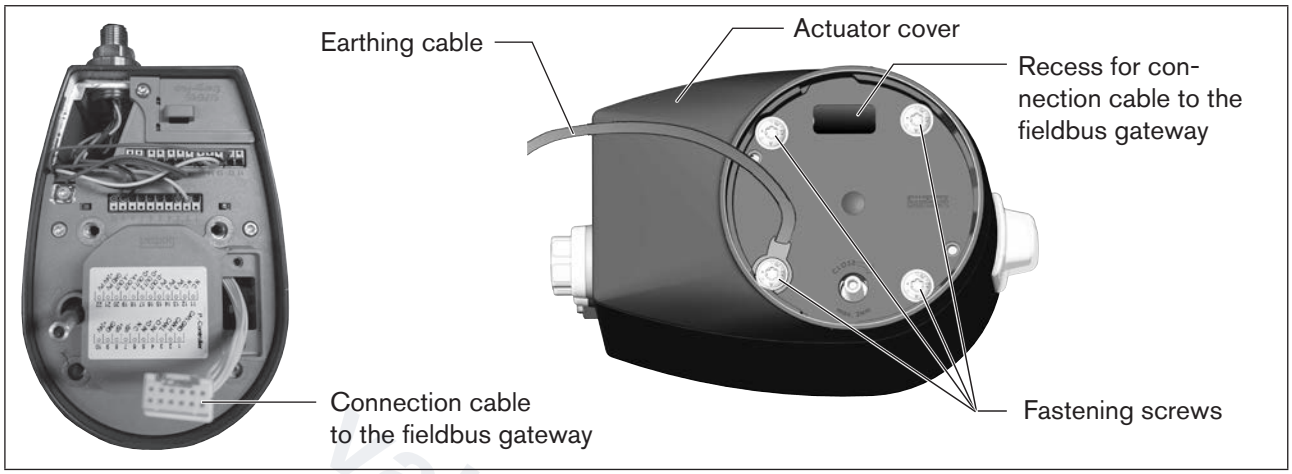



*Figure 35:* **Mounting actuator cover**

→ Feed connection cable to the fieldbus gateway through the recess in the actuator cover.

→ Position actuator cover on the actuator housing.
NOTE: The earthing cable, which is attached to the bayonet adapter, must be connected to one of the fastening screws in the actuator cover.

→ Tighten 4 fastening screws (hexalobular-internal screws T25).
Observe tightening torque 5 Nm!

**Mounting bayonet adapter:**

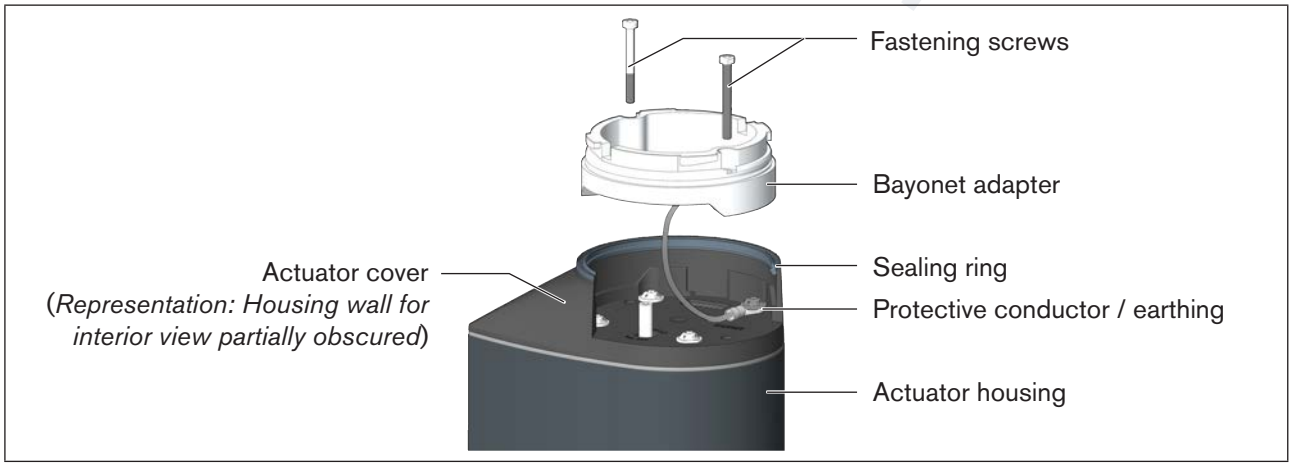



*Figure 36: Mounting bayonet adapter*

→ Position bayonet adapter on the actuator cover
**NOTE!** The sealing ring in the actuator housing must be close-fitting.

→ Tighten 2 fastening screws (hexalobular-internal screws T20)
Observe tightening torque 1.1 Nm!



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**Mounting fieldbus gateway:**

**NOTE!**

The fieldbus gateway may be mounted only when it is deenergised, otherwise the device may be damaged.

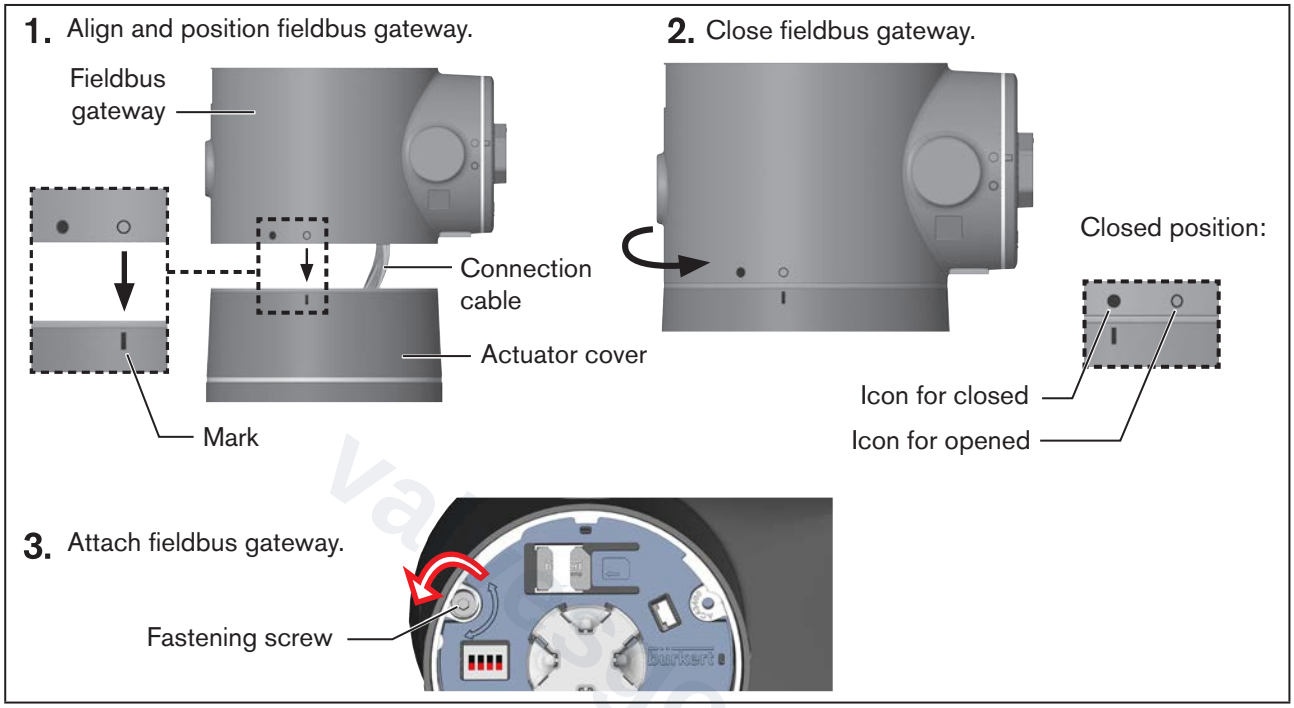



*Figure 37: Mount fieldbus gateway.*

→ Insert connection cable into the actuator on the fieldbus gateway.

→ Align and position fieldbus gateway on the actuator cover.
Centre the icon for opened over the mark on the actuator.

→ Manually turn fieldbus gateway clockwise until the icon for closed is positioned over the mark.

→ Tighten fastening screw (socket head screw, width across flats 3 mm).
Observe tightening torque 1.1 Nm!

**Closing display module or dummy cover:**

**Devices with ATEX approval or IECEx approval are secured with a magnetic lock.**

Closing the cover is described in the supplementary instructions for the electromotive control valves with ATEX approval and IECEx approval.

**NOTE!**

**For devices with display module**
Before mounting the display, check whether the cable is correctly connected to the HMI interface.

→ For devices with display module, connect the connection cable to the HMI interface.

→ Mount display module or the dummy cover and turn clockwise until the 2 marks (one vertical line on the display module or dummy cover and on the fieldbus gateway) are vertically aligned.

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# 14 ACCESSORIES, SPARE PARTS

**CAUTION!**

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

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

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

| Accessories | Order number |
|---|---|
| Connection cable with M12 socket, 4-pole, (length 5 m)<br>for operating voltage | 918038 |
| Connection cable with M12 socket, 8-pole, (length 2 m)<br>for input and output signals | 919061 |
| Connection cable with M12 circular plug, 5-pole, (length 2 m)<br>for input signals of process value (only for version with process controller) | 559177 |
| USB büS interface set: | |
| büS stick set 1<br>(including power supply, büS stick, load resistor, Y-distributor, 0.7 m cable with M12 plug) | 772426 |
| büS stick set 2<br>(including büS stick, load resistor, Y-distributor, 0.7 m cable with M12 plug) | 772551 |
| büS adapter for büS Service interface (M12 to büS Service interface micro USB) | 773254 |
| büS cable extensions from M12 plug to M12 socket | |
| Connection cable, length 1 m | 772404 |
| Connection cable, length 3 m | 772405 |
| Connection cable, length 5 m | 772406 |
| Connection cable, length 10 m | 772407 |
| Communicator | Information at www.burkert.com. |
| SIM card | 291773 |
| Holding device for line connection DN15 to DN20 | 693770 |
| Holding device for line connection DN25 to DN50 | 693771 |
| Display module made of plastic | 277869 |
| Dummy cover made of plastic | 277881 |

*Table 10: Accessories*

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## 14.1 Communications software

The PC software "Bürkert Communicator" is designed for communication with Bürkert devices.

A detailed description of installation and operation of the PC software can be found in the associated operating instructions.

Download the software from: www.burkert.com

### 14.1.1 USB interface

The PC requires a USB interface for communication with the devices, also an adapter with interface driver (see "Table 10: Accessories").

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## 14.2 Spare parts

### 14.2.1 Spare parts for control valves of Types 3360 and 3361

| Spare parts for Types 3360 and 3361 | | | Order number |
|---|---|---|---|
| SAFEPOS energy-pack | | | 285834 |
| Seal set for packing gland | Spindle ø10 mm, DN15...DN20 | | 285685 |
| | Spindle ø14 mm, DN25...DN50 | | 285722 |
| VA spindle guide for packing gland | Spindle ø10 mm | Body DN15 | 246577 |
| | | Body DN20 | 246578 |
| | Spindle ø14 mm | Body DN25 | 246579 |
| | | Body DN32 | 246583 |
| | | Body DN40 | 246593 |
| | | Body DN50 | 246594 |

*Table 11: Spare parts for Types 3360 and 3361*

### 14.2.2 Spare parts for angle seat control valve of Type 3360

| **Control cone set for Type 3360**<br>contains: control cone, dowel pin, graphite seal | | | |
|---|---|---|---|
| **Seat size of the valve** | **Order number** | | |
| | **Steel/steel** | **PTFE/steel** | **PEEK/steel** |
| 13/15 | 170322 | on request | on request |
| 20 | 170323 | 170316 | 210135 |
| 25 | 170324 | 170318 | 120136 |
| 32 | 226925 | 226941 | 287822 |
| 40 | 225423 | 226 945 | 314787 |
| 50 | 225426 | 226 948 | on request |

*Table 12: Control cone set for Type 3360*

### 14.2.3 Spare parts for globe control valve of Type 3361

| **Control cone set for Type 3361**<br>contains: control cone, dowel pin, graphite seal | | | | |
|---|---|---|---|---|
| **Seat size of the valve** | **Orifice connection (valve body) [DN]** | **Order number** | | |
| | | **Steel/steel** | **PTFE/steel** | **PEEK/steel** |
| 3 | 10/15 | on request | – | – |
| 4 | 10/15 | 149 934 | – | – |
| 6 | 10/15 | 152 696 | on request | on request |
| 8 | 10/15 | 149 935 | on request | on request |
| 10 | 10/15 | 149 912 | on request | on request |
| | 20 | 149 914 | on request | on request |

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| Control cone set for Type 3361<br>contains: control cone, dowel pin, graphite seal | | | | |
|---|---|---|---|---|
| Seat size of the valve | Orifice connection (valve body) [DN] | Order number | | |
| | | Steel/steel | PTFE/steel | PEEK/steel |
| 15 | 15 | 149915 | on request | on request |
| | 20 | 149916 | on request | on request |
| | 25 | 149917 | on request | on request |
| 20 | 20 | 149918 | 149946 | 231732 |
| | 25 | 149951 | 149947 | 292348 |
| | 32 | 226951 | 226963 | 301315 |
| 25 | 25 | 149953 | 149949 | 226723 |
| | 32 | 226952 | 226964 | 301317 |
| | 40 | 226954 | 226966 | 301319 |
| 32 | 32 | 226953 | 226965 | 301318 |
| | 40 | 226955 | 226967 | 301322 |
| | 50 | 226957 | 226969 | 301324 |
| 40 | 40 | 226956 | 226968 | 301323 |
| | 50 | 226958 | 226970 | 301369 |
| 50 | 50 | 226959 | 226971 | 272656 |

*Table 13: Control cone set for Type 3361*

| Valve seat set for Type 3361<br>contains: valve seat, graphite seal | | |
|---|---|---|
| Seat size of the valve | Orifice connection (valve body) [DN] | Order number |
| 3 | 10/15 | 284777 |
| 4 | 10/15 | 262143 |
| 6 | 10/15 | 262146 |
| 8 | 10/15 | 262147 |
| 10 | 10/15 | 262149 |
| | 20 | 262151 |
| 15 | 15 | 262152 |
| | 20 | 262153 |
| | 25 | 262155 |
| 20 | 20 | 262157 |
| | 25 | 262160 |
| | 32 | 262163 |
| 25 | 25 | 262170 |
| | 32 | 262171 |
| | 40 | 262173 |

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| Valve seat set for Type 3361<br>contains: valve seat, graphite seal | | |
|---|---|---|
| **Seat size of the valve** | **Orifice connection (valve body) [DN]** | **Order number** |
| 32 | 32 | 262174 |
| | 40 | 262175 |
| | 50 | 262176 |
| 40 | 40 | 262177 |
| | 50 | 262178 |
| 50 | 50 | 262179 |

*Table 14: Valve seat set for Type 3361*

## 14.3 Installation tools

### 14.3.1 Installation tools for control valves of Types 3360 and 3361

| Modified socket wrench for packing gland | | | |
|---|---|---|---|
| **Spindle ø [mm]** | **Orifice connection (valve body) [DN]** | **Wrench size** | **Order number** |
| 10 | 15 | SW19 | 683 220 |
| 10 | 20 | SW21 | 683 222 |
| 14 | 25...50 | SW21 | 683 223 |

*Table 15: Installation tools for Types 3360 and 3361*

### 14.3.2 Installation tools for control valves of Type 3361

| Installation tool for replacing valve seat | |
|---|---|
| **Orifice connection (valve body) [DN]** | **Order number** |
| 15 | 652604 |
| 20 | 652605 |
| 25 | 652606 |
| 32 | 652607 |
| 40 | 652608 |
| 50 | 652609 |
| 65 | 655562 |
| 80 | 655563 |
| 100 | 655564 |

*Table 16: Installation tools for Type 3361*

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# 15 PACKAGING, TRANSPORT

**NOTE!**

**Transport damage.**

Inadequately protected devices may be damaged during transportation.

- Protect the device against moisture and dirt in shock-resistant packaging during transportation.
- Prevent the temperature from exceeding or dropping below the permitted storage temperature.

**CAUTION!**

**Risk of injury due heavy devices!**

- ▸ During transport or during assembly, the device may fall and cause injury.
- ▸ Do not transport, install or remove heavy devices without the aid of a second person and using suitable auxiliary equipment.
- ▸ Use appropriate tools.

# 16 STORAGE

**NOTE!**

**Incorrect storage may damage the device.**

- Store the device in a dry and dust-free location!
- Storage temperature: -40 to +70 °C.

# 17 DISPOSAL

**NOTE!**

**Damage to the environment caused by parts contaminated with media.**

- Dispose of the device and packaging in an environmentally friendly manner!
- Observe applicable disposal and environmental regulations.

Observe the national waste disposal regulations.

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