

# EPS 18 ATEX 1232 X, IECEx EPS 18.0110X

## Solenoid coil Type AC10

# Magnetspule Typ AC10

# Bobine magnétique Type AC10

Device with II 2G/D Ex approval

Geräte mit II 2G/D Ex Zulassung

## Appareils avec mode de protection II 2G/D Ex



## Operating Instructions

## Bedienungsanleitung

# Manuel d'utilisation



We reserve the right to make technical changes without notice.  
Technische Änderungen vorbehalten.  
Sous réserve de modifications techniques.

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Operating Instructions 2506/04\_EU-ML\_00815313 / Original DE



<b>1</b>	<b>OPERATING INSTRUCTION .....</b>	<b>4</b>	<b>8</b>	<b>ACCESSORIES .....</b>	<b>14</b>
1.1	Definition of terms .....	4	8.1	Cable gland for terminal box .....	14
1.2	Symbols.....	4	8.2	External grounding connection for terminal box .....	15
<b>2</b>	<b>AUTHORISED USE .....</b>	<b>5</b>	<b>9</b>	<b>INSTALLATION AND REMOVAL .....</b>	<b>15</b>
2.1	Explosion protection approval.....	5	9.1	Installation .....	16
<b>3</b>	<b>BASIC SAFETY INSTRUCTIONS.....</b>	<b>6</b>	9.2	Electrical connection .....	16
<b>4</b>	<b>GENERAL INFORMATION .....</b>	<b>7</b>	9.3	Removal .....	18
4.1	Contact addresses .....	7	<b>10</b>	<b>START-UP.....</b>	<b>18</b>
4.2	Warranty .....	7	<b>11</b>	<b>MAINTENANCE, REPAIR, TROUBLESHOOTING .....</b>	<b>19</b>
4.3	Information on the internet .....	7	11.1	Maintenance work .....	19
<b>5</b>	<b>PRODUCT DESCRIPTION .....</b>	<b>8</b>	11.2	Repair .....	19
5.1	Design .....	8	11.3	Troubleshooting.....	19
5.2	Solenoid coil with cable outlet .....	9	<b>12</b>	<b>TRANSPORTATION, STORAGE, DISPOSAL .....</b>	<b>19</b>
5.3	Solenoid coil with terminal box .....	9			
<b>6</b>	<b>APPLICATION CONDITIONS OF THE DEVICES .....</b>	<b>10</b>			
6.1	Special conditions .....	10			
6.2	Operating conditions .....	10			
6.3	Operating temperature range .....	10			
<b>7</b>	<b>TECHNICAL DATA.....</b>	<b>11</b>			
7.1	Safety instructions.....	11			
7.2	Standards and directives.....	11			
7.3	Type label for potentially explosive atmosphere.....	11			
7.4	Electrical data.....	13			

# 1 OPERATING INSTRUCTION

The operating instructions describe the entire life cycle of the device. 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.

## Operating instruction contain important information.

- ▶ Read the operating instructions carefully and follow the safety instructions in particular.
- ▶ Operating instructions must be available to each user.
- ▶ The liability and warranty for the device are void if the operating instructions are not followed.

## 1.1 Definition of terms

In these instructions, the term “device” always refers to the solenoid coil AC10.



In these instructions, the abbreviation “Ex” always refers to “potentially explosive”.

## 1.2 Symbols



### DANGER!

**Warns of an immediate danger.**

- ▶ Failure to observe the warning may result in a fatal or serious injury.



### 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.

### NOTE!

**Warns of damage to property.**



**Important tips and recommendations.**



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

- ▶ designates an instruction to prevent risks.

→ designates a procedure which you must carry out.

## 2 AUTHORISED USE

Unauthorized use of the solenoid coil AC10 may be dangerous to people, nearby equipment and the environment.

The solenoid coil AC10 is used to activate valves which control the gaseous or liquid media.

- ▶ A valve controlled by the solenoid coil AC10 may be used solely for the media specified in the data sheet and for use in explosion group IIC category 2G and/or explosion group IIIC category 2G, and temperature class T4, T5 or T6 (refer to the specifications on the type label for potentially explosive atmosphere).
- ▶ The solenoid coil may be used only for the applications designated in chapter [“6 Application conditions of the devices”](#) and in conjunction with third-party devices and components recommended and authorized by Bürkert.
- ▶ The type of protection is encapsulation Ex “m” for coils with cable connection.
- ▶ The type of protection for the optionally mounted terminal box is “e” for gas and “t” for dust.
- ▶ The faultless and reliable operation of the system assumes correct transportation, correct storage and installation as well as careful operation and maintenance. Any other use is regarded as **unauthorized**. Bürkert is not liable for any resulting damage. The user alone bears the risk.
- ▶ Only use the device for its intended purpose.

### 2.1 Explosion protection approval

The explosion protection approval is only valid if you use the modules and components authorized by Bürkert, as described in these operating instructions.

The solenoid coil AC10 may be used only in combination with the valve types released by Bürkert, otherwise the explosion protection approval will be terminated. If you make unauthorized changes to the system, the modules or components, the explosion protection approval will also be void.

This product is subject to review by the Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd. (SITIIAS), has been CCC certified to comply with requirements of national explosion-proof series standard (GB/T 3836.2021-Explosive Atmospheres).

EC-type examination certificate and IECEx certificate were issued by:

Bureau Veritas Consumer Products Services Germany GmbH  
Businesspark A96  
86842 Türkheim

Solenoid coil AC10: EPS 18 ATEX 1232 X,  
IECEx EPS 18.0110X

Terminal box: PTB 15 ATEX 1011 U,  
IECEx PTB 15.0037 U

Production will be audited by: Fiditas CE 2829  
Ulica Slavka Tomerlina 44  
10361 Zagreb-Sesvete  
Hrvatska/Croatia

The EU Type Examination Certificate is available online at:  
[country.burkert.com](http://country.burkert.com)

### 3 BASIC SAFETY INSTRUCTIONS

These safety instructions do not consider any contingencies or incidents which occur during installation, operation and maintenance.

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



#### **Danger – high pressure.**

- ▶ Before loosening the lines and valves, turn off the pressure and vent the lines.

#### **Risk of electric shock.**

- ▶ Before reaching into the device, switch off the power supply and secure to prevent reactivation!
- ▶ Observe applicable accident prevention and safety regulations for electrical equipment!

#### **Risk of burns and risk of fire if used during long-term operation through hot device surface.**

The solenoid coil can get very hot during long-term operation.

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



#### **Risk of explosion.**

The solenoid coil and valve body form a closed system after installation. When used in potentially explosive atmosphere, there is a risk of explosion if the system is opened in the operating state.

- ▶ Do not remove or open the system during operation.

#### **Risk of explosion due to electrostatic discharge.**

In the event of a sudden discharge from electrostatically charged devices or individuals, there is a risk of an explosion in the potentially explosive atmosphere.

- ▶ Take suitable measures to ensure that no electrostatic discharges can build up in the potentially explosive atmosphere.
- ▶ Do not use the device in areas where there are powerful charge-generating processes, mechanical reaming and cutting processes, the spraying of electrons (e.g. in the vicinity of electrostatic coating equipment) as well as pneumatically conveyed dust.
- ▶ Clean the device surface by gently wiping it with a damp or antistatic cloth only.

#### **To avoid the risk of explosion, the following must be observed for operation in potentially explosive atmosphere:**

- ▶ Information on the temperature class, ambient temperature, degree of protection and voltage on the type label for potentially explosive atmosphere.
- ▶ Installation, operation and maintenance may only be performed by qualified specialists.
- ▶ The applicable safety regulations (including national regulations) as well as general technical standards must be observed during setup and operation.

- ▶ Repairs may only be performed by the manufacturer.
- ▶ The device must not be exposed to any mechanical and/or thermal loads which exceed the limits specified in the operating instructions.
- ▶ Before opening the terminal box, disconnect the power supply.

**General hazardous situations.**

To prevent injury, ensure:

- ▶ Secure system/equipment against unintentional activation.
- ▶ Observe the direction of flow during installation.
- ▶ After an interruption in the power supply or pneumatic supply, ensure that the process is restarted in a defined or controlled manner.
- ▶ Don't use the device as a lever when screwing the valve into the line.

## **4 GENERAL INFORMATION**

### **4.1 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  
E-mail: [info@buerkert.com](mailto:info@buerkert.com)

**International**

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

And also on the Internet at: [country.burkert.com](http://country.burkert.com)

### **4.2 Warranty**

The warranty is only valid if the solenoid coil AC10 is used as intended in accordance with the specified application conditions.

### **4.3 Information on the internet**

Operating instructions and data sheets for Bürkert products are available online at: [country.burkert.com](http://country.burkert.com)

## 5 PRODUCT DESCRIPTION

### 5.1 Design

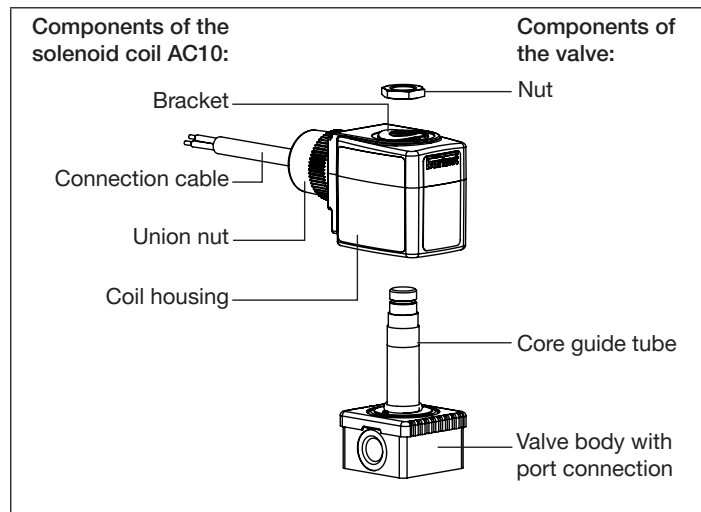


Fig. 1: Solenoid coil Type AC10 with cable outlet

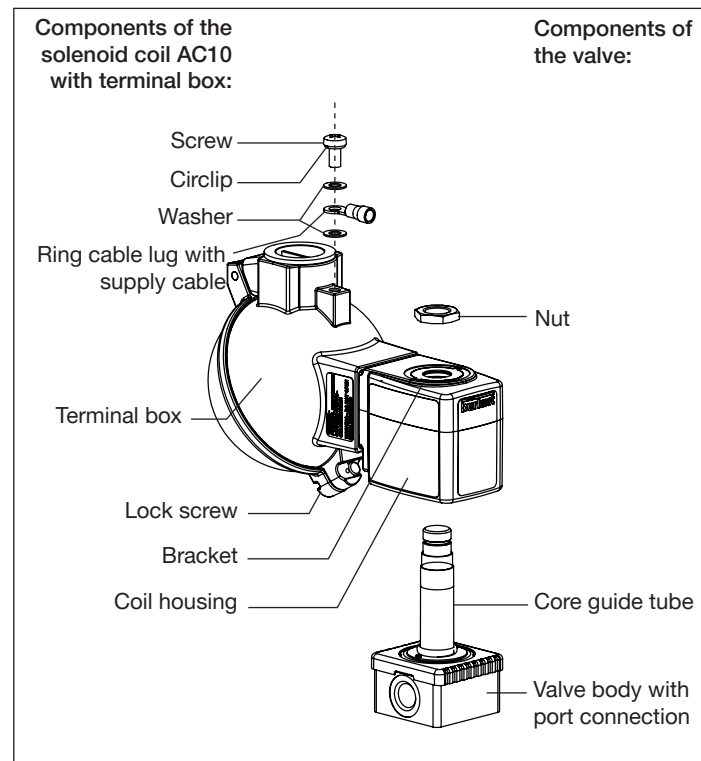


Fig. 2: Solenoid coil Type AC10 with terminal box



## 5.2 Solenoid coil with cable outlet

The solenoid coil type AC10 is an electromagnetic valve actuator for various Bürkert valves. As a so-called top-mounted coil, it is separated 100 % from the valve. The valve is a closed system even if the coil is removed.

The solenoid coil consists of:

- coil winding,
- coil housing (made from epoxy),
- electrical connection cable,
- bridge rectifier.

Alternating current or direct current control is possible.

The solenoid coil type AC10 is available in a range of ratings distributed across 2 frame sizes. The interface between the coil and valve is identical for both frame sizes.

The coil is placed over the core guide tube of the valve and attached with a nut. It is positively locked to prevent turning relative to the valve.

The electrical connection cable exits perpendicular to the coil axis. The cable is permanently integrated in the coil. The union nut is not designed to be removed.

An electrical contact is made between the metal components of the valve and the coil at the interface between the coil and the valve. All metal components must be grounded via the protective conductor in the connection cable.

## 5.3 Solenoid coil with terminal box

The design of the solenoid coil is identical to the description under [“5.2”](#), however a terminal box is also installed here (see [“Fig. 2”](#)). The terminal box is certified with the Type Examination Certificate PTB 15 ATEX 1011 U or IECEx PTB 15.0037U.

The cable outlet direction can be selected according to the order requirements. The outlet direction can be changed subsequently, however this requires a special tool<sup>1)</sup>. A connection set for additional potential equalisation is enclosed with the terminal box; observe the specifications in chapter [“8.2”](#).

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<sup>1)</sup> To do this, please contact your local Bürkert representative.

## 6 APPLICATION CONDITIONS OF THE DEVICES

### 6.1 Special conditions

#### 6.1.1 Avoiding build-up of electrostatic charge



#### WARNING!

##### Risk of explosion due to electrostatic discharge.

In the event of a sudden discharge from electrostatically charged devices or individuals, there is a risk of an explosion in the potentially explosive atmosphere.

- ▶ Take suitable measures to ensure that no electrostatic discharges can build up in the potentially explosive atmosphere.
- ▶ Do not use the device in areas where there are powerful charge-generating processes, mechanical reaming and cutting processes, the spraying of electrons (e.g. in the vicinity of electrostatic coating equipment) as well as pneumatically conveyed dust.
- ▶ Clean the device surface by gently wiping it with a damp or antistatic cloth only.

#### 6.1.2 Block assembly

Valve blocks are preferably made up so that all units have the same coil power consumption. If different coil power consumption values are used in a single valve block, then the technical data for the coil with the highest power rating must be used to determine the temperature class. In this case the ambient temperature must be no higher than +40 °C.

### 6.2 Operating conditions

The valve provides a cooling function for the solenoid coil. The solenoid coil may not be operated without a valve. The valve body must meet the following requirements:

- Material  
Metal (brass, aluminium, stainless steel) or polyamide
- Minimum dimensions  
32 mm x 32 mm x 10 mm

A larger valve body with a higher heat-dissipating capability can be used at any time.

The solenoid coils designed for individual installation may not be used for block assembly.

The solenoid coils designed for block assembly are suitable for both block assembly and for individual installation.

### 6.3 Operating temperature range

Observe the operating temperature range specified in the electrical data for all types.

## 7 TECHNICAL DATA

### 7.1 Safety instructions



#### **DANGER!**

##### **Risk of explosion.**

Dangerous situations can result if the technical safety data and values specified on the type label aren't observed or cannot be met.

- ▶ The degree of protection and temperature class for use of the device must be observed.

Exceeding the voltage specified on the type label creates a safety hazard since it can lead to overheating of the device!

- ▶ Don't connect the device to a higher voltage than that specified on the type label.

### 7.2 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 website [country.burkert.com](http://country.burkert.com)

## 7.3 Type label for potentially explosive atmosphere

### 7.3.1 Identification of the solenoid coil

Solenoid coil AC10 with sample valve  
and the positions of the type label:

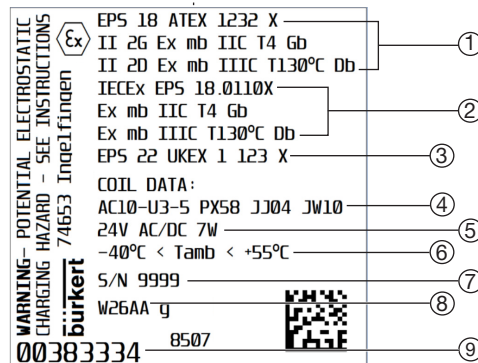
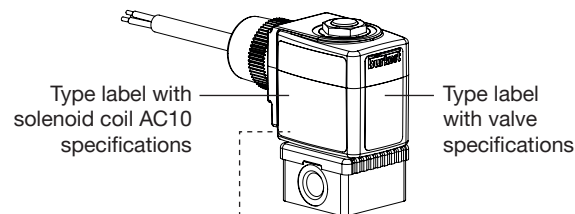


Fig. 3: Location and description of the explosion type label

Legend:

Position	Description
1	ATEX, certificate issuer and certificate number, explosion protection labelling
2	IECEX, certificate issuer and certificate number, explosion protection labelling
3	UKEx, certificate issuer and certificate number
4	Type label with Ex-code (last 4 digits)
5	Nominal voltage, nominal power
6	Ambient temperature range
7	Serial number
8	Date of manufacture
9	Identification number

## 7.3.2 Identification of the terminal box

### NOTE!

Attachment of the terminal box changes the type of protection.

Solenoid coil AC10 with terminal box with sample valve and the positions of the type label:

**WARNING -  
POTENTIAL ELECTROSTATIC  
CHARGING HAZARD -  
SEE INSTRUCTION  
WARNING - DO NOT OPEN  
WHEN ENERGIZED**

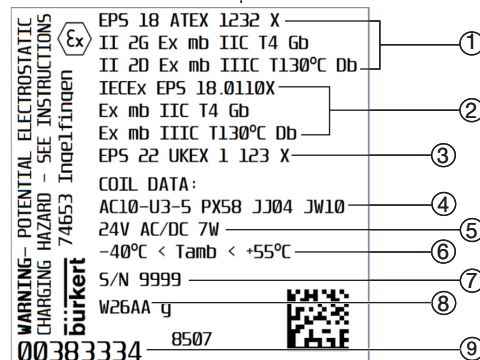
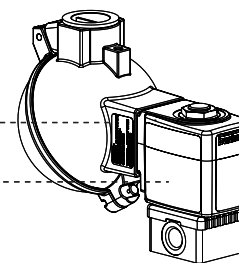


Fig. 4: Location and description of the explosion type labels

**Legend:**

Position	Description
1	ATEX, certificate issuer and certificate number, explosion protection labelling
2	IECEX, certificate issuer and certificate number, explosion protection labelling
3	UKEx, certificate issuer and certificate number
4	Type label with Ex-code (last 4 digits)
5	Nominal voltage, nominal power
6	Ambient temperature range
7	Serial number
8	Date of manufacture
9	Identification number

## 7.4 Electrical data

### 7.4.1 Coils for individual installation

Direct and alternating voltage, available nominal voltages from 12 V to 240 V, frequency 0 Hz to 60 Hz

Code	Overall width [mm]	Temperature class	Ambient temperature range [°C]	Nominal power [W]
PX58	32	T4/T130 °C	-40...+55	7.0
	40	T4/T130 °C	-40...+55	9.0
PX60	32	T6/T80 °C	-40...+40	3.0
PX61	40	T6/T80 °C	-40...+55	1.8
PX62	32	T6/T80 °C	-40...+50	2.25
PX64	32	T5/T95 °C	-40...+60	3.0
PX66	32	T4/T130 °C	-40...+80	3.0

### 7.4.2 Coils for block assembly



#### **DANGER!**

**Risk of explosion due to overheating!**

- Don't connect the device to a higher voltage than that specified on the type label.

Direct and alternating voltage, available nominal voltages from 12 V to 240 V, frequency 0 Hz to 60 Hz

Code	Overall width [mm]	Temperature class	Ambient temperature range [°C]	Nominal power [W]
PX59	32	T4/T130 °C	-40...+40	7.0
PX63	32	T6/T80 °C	-40...+40	2.25
PX65	32	T5/T95 °C	-40...+50	3.0

### 7.4.3 Electrical connection

Material<sup>2)</sup>: Polyolefin  
 Operating temperature range<sup>2)</sup>: -55...+145 °C for fixed installation  
 Minimum bending radius<sup>2)</sup>: 4 x outer diameter for fixed installation  
 Outside diameter<sup>2)</sup>: 6.2 mm  
 Design / function: 3 x stranded copper wire  
 0.5 mm<sup>2</sup> / LNPE  
 Halogen free in accordance with IEC 60754-1

Variants	Internal code
Permanently installed cable	JJ04 + JWxx <sup>3)</sup>
Terminal box with internal thread M20 x 1.5	JA13

<sup>2)</sup> Specifications as per the manufacturer  
<sup>3)</sup> different cable lengths

## 8 ACCESSORIES

### 8.1 Cable gland for terminal box

Suitable cable glands are available for use of the terminal box.



Plastic cable gland is included in the scope of delivery of the valve. Brass cable gland must be ordered separately. Cable glands from other manufacturers may also be used if they are designed for the installation location and can be installed correctly. Note that the application temperature of the cable gland must be min. 15 K above the max. ambient temperature.

Material	Clamping range [mm]	Operating temperature [°C]	Order number	Certificate number
Plastic	7...13	-40...+75	773 277	<sup>4)</sup>
Brass	6...13		773 278	<sup>5)</sup>
Material	IP-Protection	Dust identification	Gas identification	
Plastic	IP66	II 2D Extb IIIC Db	II 2G Exe IIC Gb	
Brass				

<sup>4)</sup> PTB 13 ATEX 1015X; IECEx PTB 13.00034X

<sup>5)</sup> PTB 04 ATEX 1112X; IECEx PTB 13.00027X

## 8.2 External grounding connection for terminal box

If solenoid coils feature a terminal box, connection terminals are enclosed for the external grounding connection.

If the potential equalization is not to be connected by a pipeline or by the use of a plastic fitting, the connection can be made via the external grounding connection. Its use is therefore optional and must be assessed by the operator.

The connection capacity of the ring cable lug is 4-6 mm<sup>2</sup>. The connection is made as shown in ["Fig. 6"](#).

## 9 INSTALLATION AND REMOVAL



### **DANGER!**

#### **Danger – high pressure.**

- ▶ Before loosening the lines and valves, turn off the pressure and vent the lines.

#### **Risk of electric shock.**

- ▶ Before reaching into the device, switch off the power supply and secure to prevent reactivation!
- ▶ Observe applicable accident prevention and safety regulations for electrical equipment!

#### **Risk of burns or risk of fire if used during long-term operation through hot device surface.**

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

#### **Risk of short-circuit due to damaged connection cable.**

- ▶ The coil connection cable have to be fixed and protected against damage.

#### **Risk of explosion.**

The solenoid coil and valve body form a closed system after installation. When used in potentially explosive atmosphere, there is a risk of explosion if the system is opened in the operating state.

- ▶ The system must not be disassembled during operation.



## DANGER!

### Risk of explosion due to electrostatic discharge.

In the event of a sudden discharge from electrostatically charged devices or individuals, there is a risk of an explosion in the potentially explosive atmosphere.

- ▶ Take suitable measures to ensure that no electrostatic discharges can build up in the potentially explosive atmosphere.
- ▶ Do not use the device in areas where there are powerful charge-generating processes, mechanical reaming and cutting processes, the spraying of electrons (e.g. in the vicinity of electrostatic coating equipment) as well as pneumatically conveyed dust.
- ▶ Clean the device surface by gently wiping it with a damp or antistatic cloth only.



## WARNING!

### Risk of injury from improper installation.

- ▶ Installation may be carried out by authorized technicians only and with the appropriate tools.
- ▶ Secure system from unintentional activation.
- ▶ Following assembly, ensure a controlled restart.

## 9.1 Installation



Detailed installation instructions can be found in the operating instructions of the respective valve and/or online at: [country.burkert.com](http://country.burkert.com)

## 9.2 Electrical connection



## DANGER!

### Risk of electric shock.

- ▶ Before reaching into the device, switch off the power supply and secure to prevent reactivation.
- ▶ Observe applicable accident prevention and safety regulations for electrical equipment.

There is a risk of electric shock if there is no electrical contact between the metal parts of the valve and the protective conductor of the coil.

- ▶ Always connect the protective conductor.
- ▶ Test for continuity between the protective conductor of the coil and the core guide tube of the valve.

If solenoid coils feature a terminal box, also observe the following:

- ▶ Insert permanently installed cables and lines only.
- ▶ Use a suitable cable and line entry (see chapter “8”). Observe specifications in the enclosed operating instructions.
- ▶ In the terminal box connect only wires which have a rated connection between 0.5 mm<sup>2</sup> and 2.5 mm<sup>2</sup>.
- ▶ Tighten terminal screws to 0.25 Nm.
- ▶ Lock housing cover properly. Tighten lock screw to 2 Nm.
- ▶ Check continuity of the protective conductor connection.
- ▶ Before opening the housing cover, disconnect the power supply.



- Temperature resistance of the cable must be min. 15 K above the max. ambient temperature.

**Terminal box:**

- The connection terminals for the external earth connection, which are packed for delivery in a bag and bonded to the housing cover, must be removed during installation of the device.

## 9.2.1 Solenoid coils with cable outlet



The connection cable is encapsulated with the solenoid coil Type AC10 and cannot be removed. Observe the indicated voltage according to the type label.

Wire color	Pin assignment
green-yellow	Protective conductor
black	Neutral conductor / negative pole (-)
black	Phase / positive pole (+)

## 9.2.2 Solenoid coils with terminal box

	Position	Pin assignment of the supply line
		Protective conductor
		Neutral conductor / negative pole (-)
		Phase / positive pole (+)

Fig. 5: Terminal box

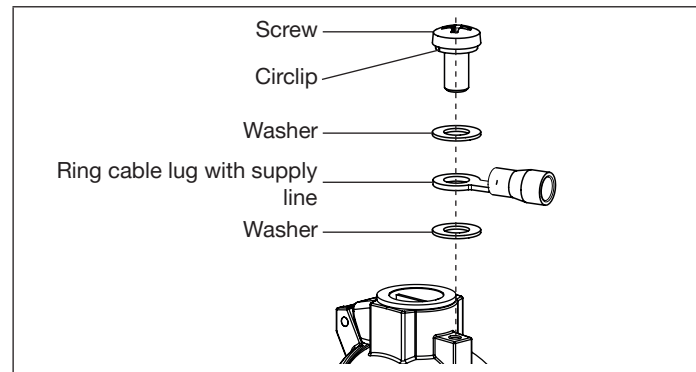


Fig. 6: Connection of external potential equalization

## 9.3 Removal



### DANGER!

**Danger – high pressure.**

- ▶ Before loosening the lines and valves, turn off the pressure and vent the lines.

**Risk of electric shock.**

- ▶ Before reaching into the device, switch off the power supply and secure to prevent reactivation!
- ▶ Observe applicable accident prevention and safety regulations for electrical equipment!



### WARNING!

**Risk of injury from improper removal.**

- ▶ Removal may be carried out by authorized technicians only and with the appropriate tools.

**Risk of injury due to media escaping from leaky connections.**

- ▶ Seal the connection lines carefully.

- Separate the electrical connections.
- Separate the valve body from the pipeline.

### NOTE!

**Malfunctions due to dirt!**

- ▶ Remove the old PTFE tape from the connections during re-installs. Tape residue must not get into the pipeline.

## 10 START-UP



### WARNING!

**Risk of injury from improper operation.**

Improper operation may result in injuries as well as damage to the device and the area around it.

- ▶ Before start-up, ensure that the operating personnel are familiar with and completely understand the contents of the operating instructions.
- ▶ Observe the safety instructions and intended use.
- ▶ Only adequately trained personnel may start up the equipment or the device.

**Before starting up the device, ensure that:**

- the device has been installed correctly,
- the connection has been made properly,
- the device is not damaged,
- all screws have been tightened.

## 11 MAINTENANCE, REPAIR, TROUBLESHOOTING

### 11.1 Maintenance work

The solenoid coil AC10 are maintenance-free when operated under the conditions described in this manual.

### 11.2 Repair



#### **DANGER!**

**Danger due to improper repairs.**

The safety and functionality of the AC10 coil and corresponding solenoid valve following a repair are only given if the repair work was performed by the manufacturer.

- ▶ Only have the device repaired by the manufacturer.

### 11.3 Troubleshooting

If malfunctions occur, ensure that:

- the device has been installed correctly,
- the connection has been made properly,
- the device is not damaged,
- the voltage and pressure have been switched on,
- the pipelines are free,
- all screws have been tightened.

## 12 TRANSPORTATION, STORAGE, DISPOSAL

### NOTE!

#### **Transport damages!**

Inadequately protected equipment may be damaged during transport.

- ▶ During transportation protect the device against wet and dirt in shock-resistant packaging.
- ▶ Avoid exceeding and dropping below the allowable storage temperature.

#### **Incorrect storage may damage the device.**

Allowable storage temperature:  $-40...+80\text{ }^{\circ}\text{C}$ .

- ▶ Store the device in a dry and dust-free location.

### 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 [country.burkert.com](https://country.burkert.com).





**country.burkert.com**