

## 7. INSTALLATION

### 7.1. Safety instructions



#### DANGER!

##### Risk of injury from high pressure in the equipment!

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

##### Risk of injury due to electrical shock!

- Before reaching into the device or the equipment, 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 installation!

- Installation may be carried out by authorized technicians only and with the appropriate tools!

##### Risk of injury from unintentional activation of the system and an uncontrolled restart!

- Secure system from unintentional activation.
- Following assembly, ensure a controlled restart.

### 7.2. Before Installation

#### Installation position:

Installation can be in any position.

Preferably: Actuator upright.

→ Prior to installation check pipelines for dirt and, if required, clean.

**Dirt filter:** To ensure that the safety shut-off device functions reliably, install a strainer ( $\leq 500 \mu\text{m}$ ) in front of the valve inlet.



### 7.3. Installation

→ Hold the device with a suitable tool (open-end wrench) on the housing and screw into the pipeline.

#### NOTE!

##### Caution risk of breakage!

- Do not use the coil as a lifting arm.

→ Observe direction of flow:

The arrow on the housing indicates the direction of flow.

### 7.4. Electrical connection of the cable plug



#### DANGER!

##### Risk of injury due to electrical shock!

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

##### If the protective conductor is not connected, there is a risk of electric shock!

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



Note the voltage and current type as specified on the rating plate.

→ Tighten cable plug (for permitted types see data sheet), observing max. torque 1 Nm.

→ Check that seal is fitted correctly.

→ Connect protective conductor and check electrical continuity between coil and housing.

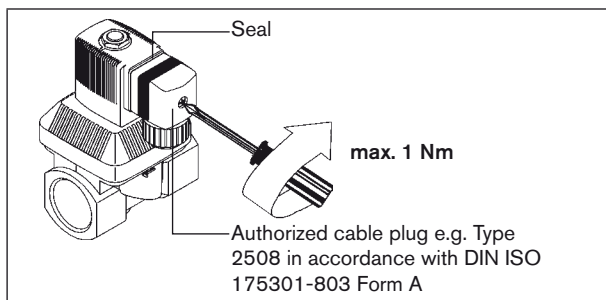


Fig. 2: Electrical connection of the cable plug

## 8. MAINTENANCE, TROUBLESHOOTING

### 8.1. Safety instructions



#### DANGER!

##### Risk of injury from high pressure in the equipment!

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

##### Risk of injury due to electrical shock!

- Before reaching into the device or the equipment, 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 maintenance!

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

##### Risk of injury from unintentional activation of the system and an uncontrolled restart!

- Secure system from unintentional activation.
- Following maintenance, ensure a controlled restart.

### 8.2. Installation of coil



#### WARNING!

##### Escaping medium!

When a sticking nut is loosened, medium may escape.

- Do not tighten sticking nut any further.

##### Electric shock!

If the protective conductor is not connected, there is a risk of electric shock!

- Check protective conductor contact after installing the coil.

##### Overheating, risk of fire!

Connection of the coil without pre-assembled valve will result in overheating and destroy the coil.

- Connect the coil with pre-assembled valve only.

#### Installing the coil:



#### WARNING!

##### Danger due to electrical shock if coil incorrectly installed!

- During installation ensure that the coil is situated firmly on the housing cover so that the protective conductor connection of the coil is connected to the valve housing.

- Connect coil housing to the core guide pipe.
- Screw on coil with nut. Observe torque according to table on page 23.

#### NOTE!

##### Device will be damaged if the wrong tools are used!

Always use a wrench to tighten nut. If other tools are used (e.g. pliers), the device may be damaged.

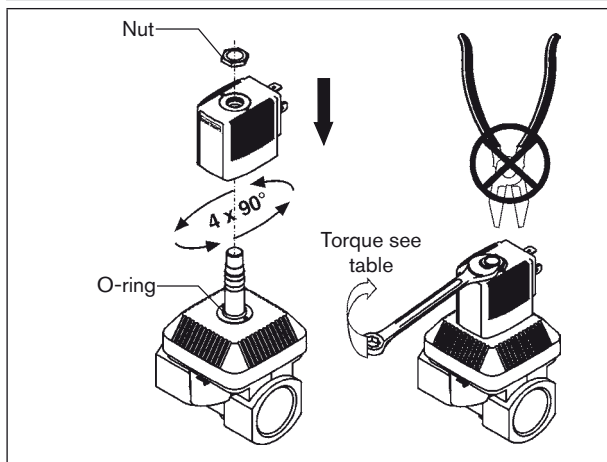


Fig. 3: Installing the coil

Torque for fastening Nut		
Coil type	Coil width	Torque [Nm]
AC10	32 mm or 40 mm	5 Nm
AC19	42 mm, 43 mm, 49 mm	10 Nm

### 8.3. Malfunctions

If malfunctions occur, check whether:

- the device has been installed according to the instructions,
- the electrical and fluid connections are correct,
- the device is not damaged,
- all screws have been tightened,
- the voltage and pressure have been switched on,
- the pipelines are clean.

#### Valve does not switch

Possible cause:

- Short-circuit or coil interrupted.
- Core or core area dirty.
- Medium pressure outside the permitted pressure range.