TECHNICAL DATA 6.



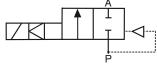
The following values* are indicated on the rating plate:

- Voltage (tolerance ±10 %) / current type
- Coil power consumption (active power in W - at operating temperature)
- Pressure range
- Housing material brass (MS) or stainless steel (VA)
- Seal material FKM, EPDM, NBR
- see description of rating plate below

Operating principle

2/2-way valve:





Protection class: **IP65**

> in accordance with DIN EN 60529 / IEC 60529 with correctly connected and installed cable plug, e.g. Bürkert

Type 2508

6.1. Application conditions

Allowable temperatures

Ambient temperature: Max. +55 °C

Permitted medium temperature depending on coil and seal material:

Coil housing	Seal material	Medium temperature
Polyamide	FKM	0 +90 °C
Epoxy (NA38)	FKM	0 +120 °C
Epoxy (NA38)	EPDM	-30 +120 ℃
Polyamide	NBR	-10 +80 °C

Permitted media depending on seal material:

Seal material	Permitted media ¹⁾	
FKM	Per-solutions, hot oils without additives, diesel and heating oil without additives, detergent solution	
EPDM	Oil and grease-free liquids, cold and hot water	
NBR	Cold and warm water	

¹⁾ Gaseous media at low differential pressures (e.g. compressed air and vacuum) can also be actuated in consideration (or due to restriction) of a lower tightness. We recommend prior clarification with our sales office regarding the possible application.

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Operating duration

Unless otherwise indicated on the rating plate, the solenoid system is suitable for continuous operation.



Important information for functional reliability during continuous operation!

If switched off for a long period, at least 1-2 activations per day are recommended.

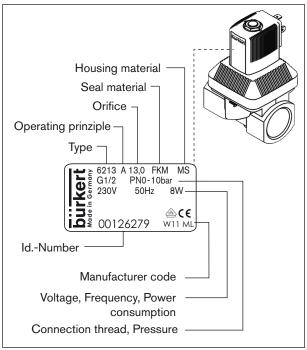
Service life

High switching frequency and high pressures reduce the service life.

6.2. Conformity

CE mark conforms to EMC Directive 2004/108/EC (only if cables, plugs and sockets connected correctly).

6.3. Rating plate description



Example - Rating plate description

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 μm) 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.

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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.

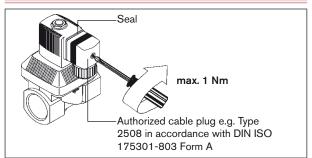


Fig. 2: Electrical connection of the cable plug



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.

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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.

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- → 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.

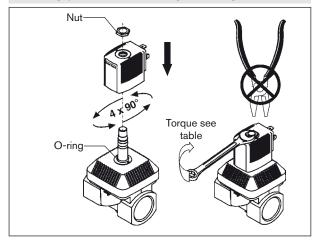


Fig. 3: Installing the coil

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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.

Valve does not close

Possible cause:

- Internal space of the valve is dirty.
- Small control bore in the diaphragm blocked.

After occurrence of an external fire

- After an external fire, check the equipment and safety shut-off device.
- If there is visible damage, replace shut-off device!

SPARE PARTS 9.



CAUTION!

Risk of injury and/or damage by 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.

9.1. Ordering spare parts

Replacement part sets

When ordering replacement part sets, quote the sets SET1, SET 3 or SET 7 and the identification number of the

- See replacement part sets 9.2. Overview of replacement part sets.
- The identification number of the device can be found on the rating plate. See also chapter 6.3. Rating plate description.

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9.2. Overview of replacement part sets

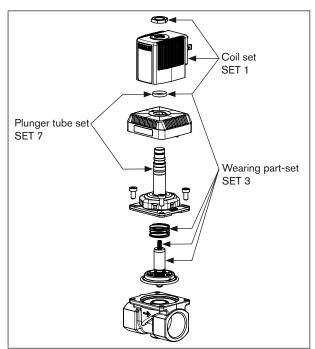


Fig. 4: Overview of replacement part sets

10. PACKAGING, TRANSPORT, **STORAGE**

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 or dropping below the allowable storage temperature.

Incorrect storage may damage the device.

- Store the device in a dry and dust-free location!
- Storage temperature. -40 ... +80 °C.