



**ED5000**

**Installation & Maintenance Instructions**

04-2016

## **SAFETY AND PROPER USAGE**

To ensure safe and enduring performance of this product, you must comply strictly with the instructions enclosed herein. Non-compliance with instructions or improper handling of the product will void your warranty! Usage of this product in conditions not specified in this manual or in contrary to the instructions hereby provided is considered IMPROPER. The manufacturer will not be held liable for any damages resulting from improper use of the product.

## **SAFETY & WARNING INSTRUCTIONS**

- Observe valid and generally accepted safety rules when planning, installing and using this product.
- Take proper measures to prevent unintentional operation of the product or damage to it.
- Do not attempt to disassemble this product or lines in the system while they are under pressure.
- Always depressurise the compressed air system before working on the system

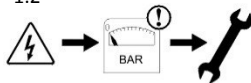
It is important that personnel use safe working practices and observe all regulations and legal requirements for safety when operating this product. When handling, operating or carrying out maintenance on this product, personnel must employ safe engineering practices and observe all local health & safety requirements & regulations. International users refer to regulations that prevail within the country of installation. Most accidents, which occur during the operation and maintenance of machinery, are the result of failure to observe basic safety rules or precautions. An accident can often be avoided by recognising a situation that is potentially dangerous. Improper operation or maintenance of this product could be dangerous and result in an accident causing injury or death. The manufacturer cannot anticipate every possible circumstance, which may represent a potential hazard. The WARNINGS in this manual cover the most common potential hazards and are therefore not all-inclusive. If the user employs an operating procedure, an item of equipment or a method of working which is not specifically recommended by the manufacturer he must ensure that the product will not be damaged or made unsafe and that there is no risk to persons or property.

## **NEVER CHANGE ORIGINAL COMPONENTS WITH ALTERNATIVES**

1.1



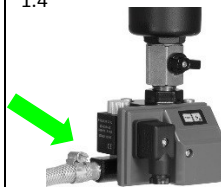
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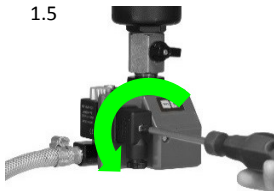
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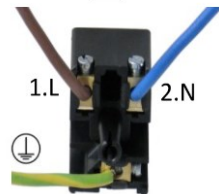
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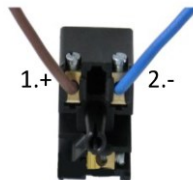
1.6



AC



DC



1.7



1.8



1.9



1.10



## INSTALLATION INSTRUCTIONS

Before installing this product, make sure it complies with your request and that it suits your application!

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1.1 Unpack the unit and visually inspect for any transport damage incurred after leaving our factory.

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1.2 Depressurise the system before installation or maintenance is carried out!

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1.3 Locate a suitable condensate draining point in your compressed air system and connect your drain as illustrated.

- Use a 30mm wrench to install the drain properly.

- The use of a ball valve is advisable

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1.4 Connect the outlet to an oil/water separator.

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1.5 Unscrew the connector screw and remove the connector.

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1.6 Connect your power supply cable to the connector as illustrated.

- Make sure all gaskets are placed properly to ensure IP65 protection.

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1.7 Replace the connector and tighten the connector screw (max. torque 1 Nm).

- Make sure all gaskets are placed properly to ensure IP65 protection.

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1.8 Slowly open the ball valve to restore normal system pressure.

- The drain is now under pressure.

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1.9 Turn on the power supply. Press and hold down the TEST button to check the valve function.

- A purging sound must be heard.

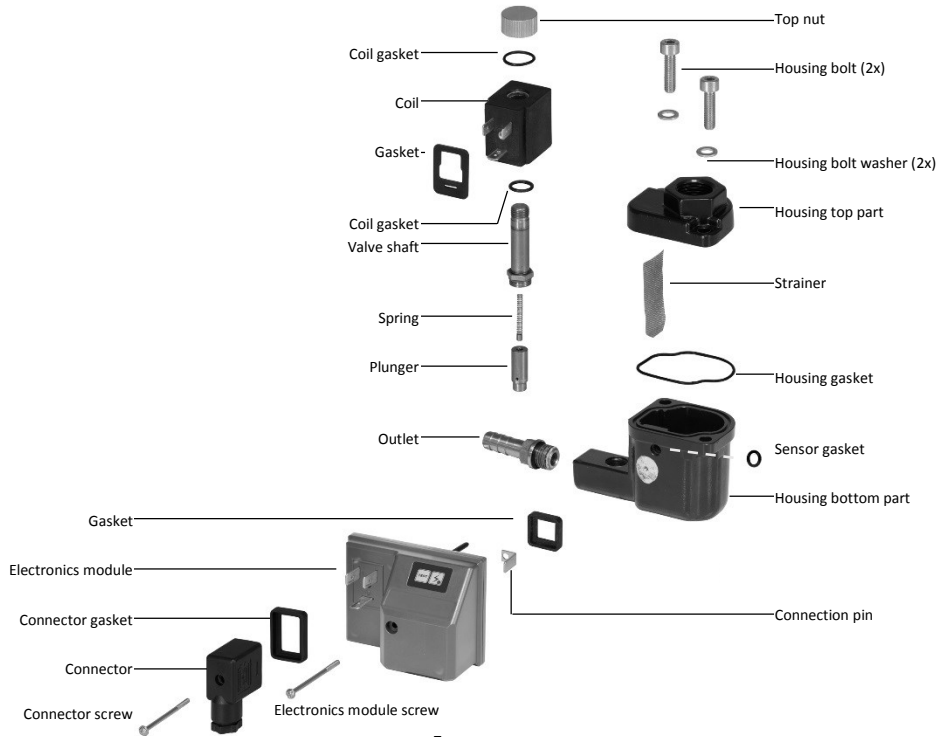
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1.10 Your drain is ready for operation!

*Note: We advise to check this product at least once a year and replace serviceable parts when necessary.*

*Note: Clean the strainer periodically to avoid possible blocking causes by rust and/or debris.*

*Note: Check the valve function periodically. A purging sound must be heard.*



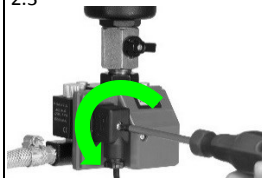
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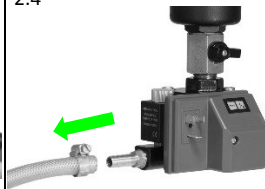
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2.3



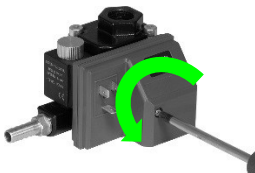
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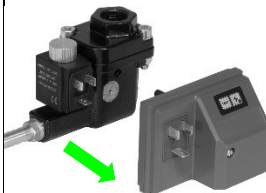
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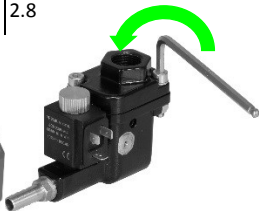
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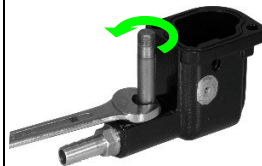
2.9



2.10



2.11



2.12



## CLEANING INSTRUCTIONS (1/2)

These instructions are for cleaning the drain. If your drain requires maintenance, i.e. replacement of wearing components, please refer to our dedicated maintenance instructions (supplied with the service kit).



*Depressurise the system before installation or maintenance is carried out!*

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2.1 Stop the condensate supply, i.e. close the ball valve which is installed in front of the drain.

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2.2 Press the TEST button to empty the drain of any residual condensate and to depressurise the drain.

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2.3 Switch off the electrical supply and remove the power connector by unscrewing the connector screw.

*- Make sure the display is off to check if the power supply is successfully disconnected.*

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2.4 Remove the outlet hose.

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2.5 Remove the drain using a 30mm wrench.

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2.6 Unscrew the electronics module screw.

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2.7 Carefully remove the electronics module.

*- Make sure not to damage the sensor pin!*

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2.8 Open the housing by unscrewing the two housing bolts using a 5mm Allen key. Remove the top part from the reservoir.

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2.9 Take out the strainer and clean it thoroughly.

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2.10 Unscrew the top nut and remove the coil.

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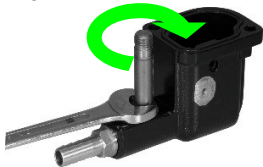
2.11 Remove the valve shaft using a 13mm wrench.

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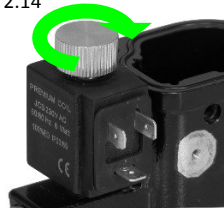
2.12 Clean all the valve parts and bottom part of the housing.

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2.13



2.14



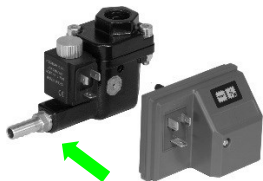
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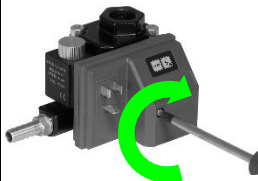
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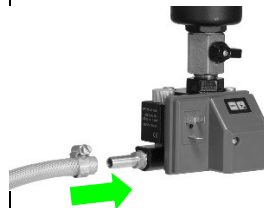
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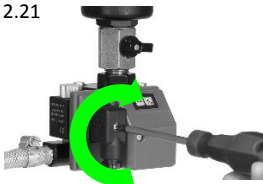
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2.20



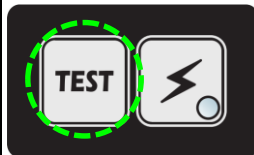
2.21



2.22



2.23



2.24





## MAINTENANCE INSTRUCTIONS (2/2)

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2.13 Replace the valve parts and tighten the valve shaft using a 13mm wrench (max. torque 7 Nm).

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2.14 Replace the coil and gaskets. Tighten the top nut.

- *Make sure all gaskets are properly placed to ensure IP65 protection.*

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2.15 Replace the strainer.

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2.16 Replace the top part of the housing and tighten the two housing bolts using a 5mm Allen key (max. torque 6 Nm).

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2.17 Replace the electronics module. Make sure you don't damage the sensor pin.

- *Make sure all gaskets are properly placed to ensure IP65 protection.*

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2.18 Tighten the electronics module screw (max. torque 1 Nm).

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2.19 Reconnect your drain as illustrated.

- *Use a 30mm wrench to install the drain properly.*

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2.20 Reconnect the outlet.

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2.21 Replace the connector and tighten the connector screw (max. torque 1 Nm).

- *Make sure all gaskets are placed properly to ensure IP65 protection.*

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2.22 Slowly open the ball valve to restore normal system pressure.

- *The drain is now under pressure!*

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2.23 Turn on the power supply. Press and hold down the TEST button to check the valve function.

- *A purging sound must be heard.*

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2.24. Your drain is ready for operation!

*Note: Check the valve function periodically. A purging sound must be heard.*

## ADDITIONAL INSTALLATION INSTRUCTIONS

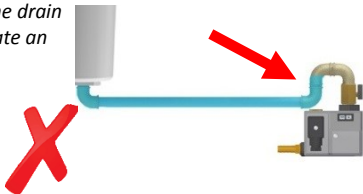
Each condensate draining point should have its own drain. Do not use one drain for multiple draining points.



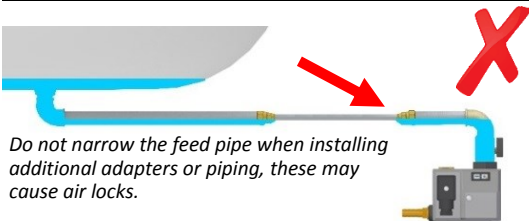
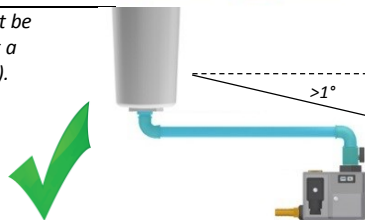
Use one drain for each individual draining point.



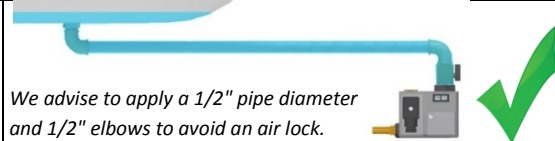
Avoid water pockets when installing the drain pipe, this will create an air lock.



The 1/2" drain pipe must be horizontal or ideally at a downwards slope ( $>1^\circ$ ).



Do not narrow the feed pipe when installing additional adapters or piping, these may cause air locks.



We advise to apply a 1/2" pipe diameter and 1/2" elbows to avoid an air lock.

## TECHNICAL SPECIFICATIONS

<b>Max. compressor capacity</b>	10 m <sup>3</sup> /min.	350 cfm.
<b>Min. / Max. system pressure</b>	0 Bar / 16 Bar	0 Psi / 230 Psi
<b>Min. / Max. medium temperature</b>	1 °C / 50 °C	34 °F / 122 °F
<b>Valve type</b>	2/2 way, direct acting	
<b>Valve orifice</b>	2 mm	
<b>Inlet connection + height</b>	1/2" BSP or NPT, 74 mm	1/2" BSP or NPT, 2.9"
<b>Outlet connection + height</b>	1/4" BSP, 1.5 cm	1/4" BSP, 0.6"
<b>Valve seals</b>	FPM	
<b>Supply voltage option</b>	230VAC or 115VAC or 24VAC or 24VDC <i>(see label on unit!)</i>	
<b>Connector</b>	DIN 43650-B	
<b>Serviceable valve</b>	Yes	
<b>TEST Feature</b>	Yes	
<b>Environmental protection</b>	IP65 (NEMA4)	
<b>Integrated mesh strainer</b>	Yes	
<b>Alarm feature type</b>	<p>The drain is equipped with an alarm feature. Alarm occurs when the valve has to open too many (&gt;100) consecutive times without a pause. The reason for this may be debris (rust) particles blocking the valve, outlet, or a sensor failure indicating a service necessity. It could also mean that your drain receives more condensate than it can handle.</p> <p>The drain goes into alarm mode after 100 continuing 'open and close cycles'. In alarm mode the drain will be in timer mode for 2 minutes, draining 5 seconds every minute. After these 2 minutes, the drain will check if returning to normal mode is possible.</p>	

## SERVICE CHART

Date	Description	Name

## DIMENSIONS (mm)

