

# INSTRUCTIONS & MAINTENANCE

## T20 CONDENSATE DRAIN TRAP WITH TIMER

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### GENERAL OPERATIONS

The T20 is an economical condensate drain trap set by a timer.

T20 is suitable for all components of the compressed air system (compressors, coolers, driers, filters and tanks), independently from their size of capacity.

You just need to set the interval and the discharge time suitable for each compressed air system.

T20 is designed for all components of a compressed air system.



### SAFETY INSTRUCTIONS

#### 1) SAFETY AND APPROPRIATE USE

To ensure the safety and performance of this product, please follow strictly the instructions below.

Not complying with these instructions or an incorrect use of the product will nullify your guarantee! It is highly inadvisable, and thus INAPPROPRIATE, to use this product under conditions not specified in this manual or contrary to the instructions provided.

The manufacturer shall not be held responsible for any damage resulting from the inappropriate use of the product.

# INSTRUCTIONS & MAINTENANCE

## T20 CONDENSATE DRAIN TRAP WITH TIMER

### 2) SAFETY INSTRUCTIONS AND WARNING

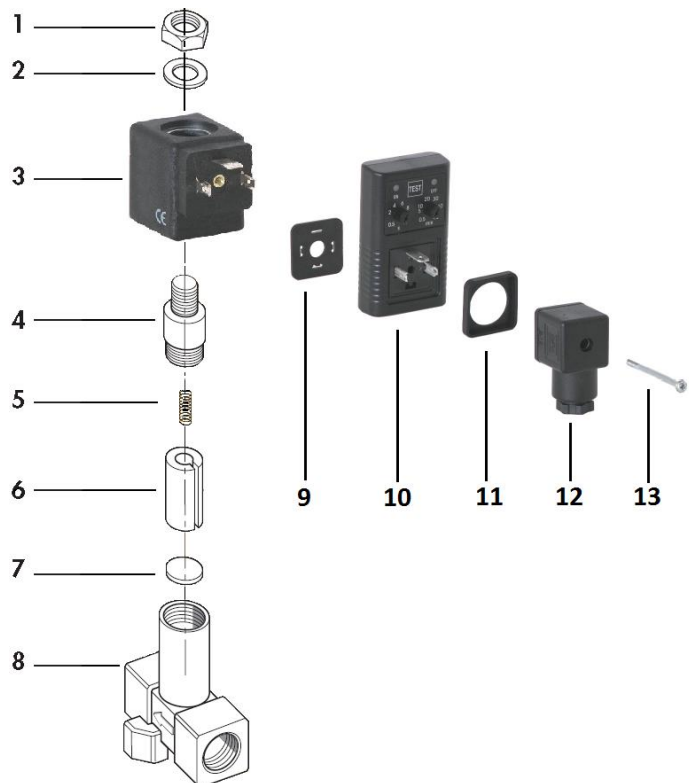
#### **CAUTION**

- Follow the valid, current safety rules during planning, installing and using this product.
- Take the appropriate measures to prevent involuntary operations of the product or damage.
- Do not try to disassemble this product of the compressed air lines of the system while they are under pressure.
- Always depressurise the compressed air system before working on the system.

It is important that the personnel uses safe working methods, and follows all legal safety regulations and requirements while actuating this product. During handling, the operation of the servicing of this product, the personnel have to use a safe technological practices and to follow the local health and safety regulations and requirements. International users must refer to the regulations in vigour in the country of installation. Most accidents occur during the operation and servicing of machines and result from not following the basic safety rules or the precautions. An accident can often be prevented by identifying a potentially dangerous situation. The incorrect use or servicing of this product can be dangerous and lead to damage or accidental death. The manufacturer cannot anticipate all possible circumstances, which can represent a potential risk. The WARNINGS in this manual cover only the most frequent risks. If the user employs an operating mode, a part or a working method which is not specifically recommended by the manufacturer, he has to make sure that the product will not be damaged or will not become unsafe, and that there is no risk for persons and material.

### GLOBAL VIEW - IDENTIFICATION OF COMPONENTS

No.	Name	Material
1	Nut	Zinc-plated steel
2	Washer	Zinc-plated steel
3	Coil	PBT + 30% glass fibre
4	Guide tube	AISI 430 SS
5	Spring	Steel
6	Mobile core	AISI 303 SS
7	Bearing	FPM
8	Body	CW 617 N brass
9	Gasket	-
10	Time switch	ABS plastic FR classified
11	Gasket	-
12	T30 connector	-
13	Screw	Zinc-plated steel



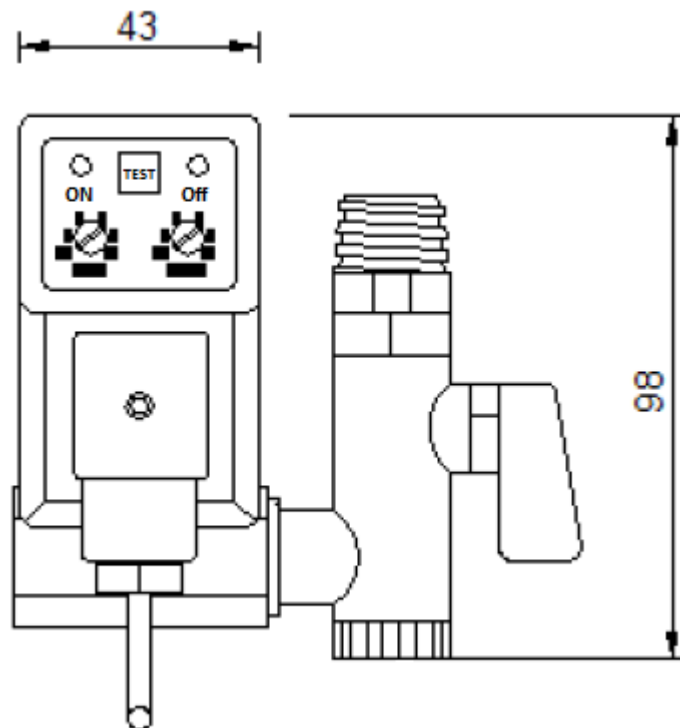
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### FEATURES

TECHNICAL SPECIFICATIONS	
Interval time	0.5 - 45 minutes
Discharge time	0.5 - 10 s
Options for voltage	24 - 240V AC/DC 50-60 Hz ( $\pm 10\%$ )
Timer housing	ABS plastic FR classified
Connection	DIN 43650 / ISO 4400
Indicators	(Yellow) LED indicates ON / OFF
Valve type	2/2 - Way direct acting valve
Admission	1/2" BSP
Maximum pressure	16 bar
Minimum / Maximum temp.	Ambient: $-10^{\circ}$ / $+80^{\circ}$
Liquid temperature	Maximum $150^{\circ}\text{C}$
Valve material	Brass - 4.0mm orifice
Environment protection	IP65
CERTIFICATIONS	
EC	Yes
IP65	Yes

### DIMENSIONS



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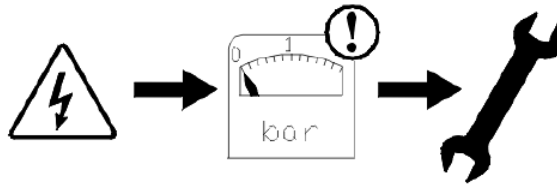
## T20 CONDENSATE DRAIN TRAP WITH TIMER

### INSTALLATION INSTRUCTIONS

#### IMPORTANT NOTE

Before installing this product, make sure it is as ordered and suitable for your application!

1. Unpack and visually inspect the product to detect damage, if any, related to transport and occurring after leaving our plant.



2. Depressurise the system before installing or servicing.

3. The drain trap is provided fully assembled! Disassemble the drain trap before installation by unscrewing the connector screw and the upper nut above the coil (see page 3 for the exploded view).



4. Locate an appropriate condensate drain point on your compressed air system, and connect the valve as shown below. Connect the outlet support to an oil/water separator. We recommend the use of a condensate separator.



- Make sure that the valve body points in the flow direction of the condensate.
- We recommend the use of a ball valve with a sieve.
- Do not use the solenoid valve stem as a lever!

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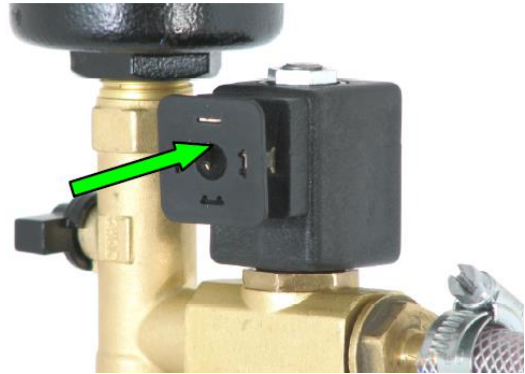
### INSTALLATION INSTRUCTIONS

5. Slide the coil above the solenoid valve stem and replace the nut and the washer. Tighten the admission support (maximum torque of 1Nm) using a key.



*The coil can turn by 360° about the solenoid valve stem, so you can align the coil as you wish.*

6. Place the gasket on the connecting lugs of the coil.

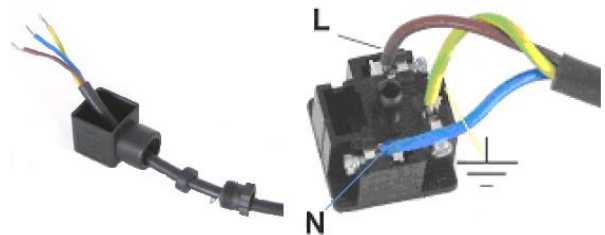


*Make sure that there is no debris between the gasket and the coil.*

7. Mount the timer on the coil as shown below, you can mount the timer upright or the upside down.



8. Remove the protective cap of the connector and connect the electrical cable to the connector as shown below.



9. Place the connector gasket on the connector, and plug the connector on the timer as shown below, and tighten the screw (maximum 1Nm). Make sure that the two gaskets are correctly fixed to provide an IP65 protection.



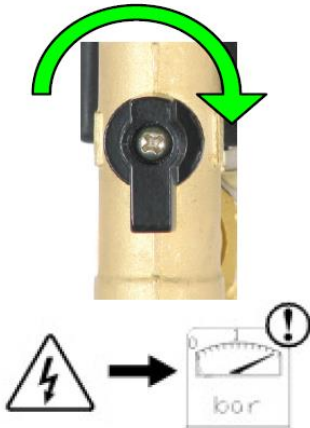
10. After having double checked that the electrical power supply corresponds to the voltage indicated on the coil and on the back of the timer, you can plug in the electrical power supply.

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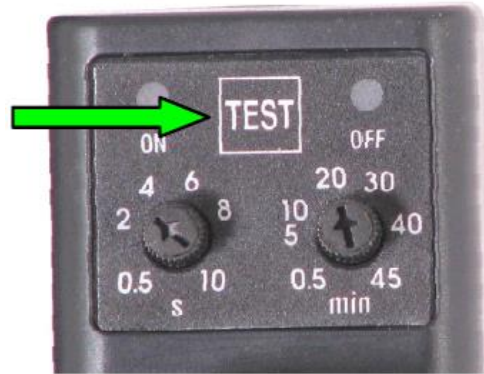
## T20 CONDENSATE DRAIN TRAP WITH TIMER

### INSTALLATION INSTRUCTIONS

**11.** Open the ball valve slowly to restore the normal pressure in the system.



**12.** Press the "TEST" key to check the valve operation.



**13.** The drain trap is now at the full system pressure, and will periodically discharge the condensate it received from your compressed air system, automatically and continuously.

You can now change the time switch ON and OFF.

**14.** Set the ON button to install you system, e.g. for 3s.



**15.** Set the OFF button to install you system, e.g. for 20 minutes.



**16.** Your drain trap is ready to work!