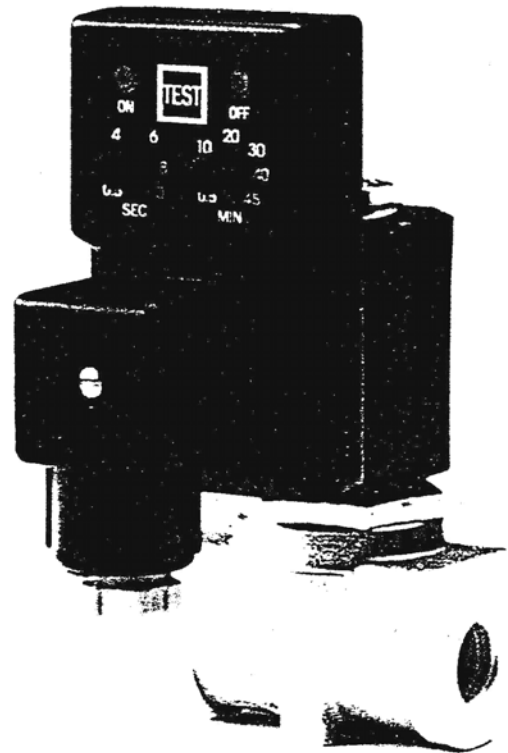


Electrical timed
condensate drain
Traptronik
Trap 2/100



Technical Manual

Version 05— 2002/EN

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TRAPTRONIC 2/100

Product Description

The Traptronic 2/100 is designed to provide a means for the automatic draining of pressure vessels, dryers, separators filters and other components up to 100 bar excess pressure.

Mounting array

If the unit to be drained does not have a sump or reservoir then a drip-leg should be fitted at the drain location.

A simple shut-off valve must be fitted upstream of the Traptronic 2/100 as a means of isolating the unit during servicing.

Where a system is known to be contaminated by pipe-scale or any other heavy particles then it is recommended that a strainer should be installed between the shut-off valve and the Traptronic.

Installation



Warning!

Before any kind of maintenance or repair work is done, the unit is to be depressurized!

Note:

The flow direction is marked on the valve housing with an arrow.!

Throughout the installation procedures insure that the electrical current is disconnected and that all compressed air is vented to zero pressure.

- ▶ Close shut-off valve. Without shut-off valve the complete pressure system must be depressurized.
- ▶ Connect the outlet part of the pressure unit with the G 3/8 inlet pipe of the traptronic 2/100.
- ▶ Connect a drain pipe at the outlet of the traptronic 2/100. If a flexible tube designed for the excess pressure, is used it should be fixed.
- ▶ Disconnect the electrical power supply. The supply voltage of the control unit is preadjusted in the range of 24 V to 240 V AC/DC by 50 Hz or 60 Hz. Be sure that supply tension is the same as the device tension of traptronic 2/100 (coil tension). Devices could be seriously damaged if the service voltage is different to the supply voltage!
- ▶ Connect supply cables with the device plug.
- ▶ Connect the electrical power supply. Switch on the traptronic 2/100. The LED flashes on.
- ▶ Slowly open shut-off valve and pressurize the pipe system (max. up to 100 bar).
- ▶ Set cycle switch to the required position (0.5 to 45 min.).

- ▶ Set ON-switch to the required drain period (5 to 10 sec.). The settings are correct if only dried air discharges at the end of the drain period.

If the duration of discharging of the dried air is too long, the cycle must be lengthened or the duration of discharge must be shortened.

If an amount of liquid still discharges at the end of the drain period, the cycle must be shortened or the drain period must be lengthened.

Note:

Check regularly the settings for proper work of the electrical drain!

To obtain best results (with only little loss of compressed air) an exact adjustment is necessary.

Maintenance

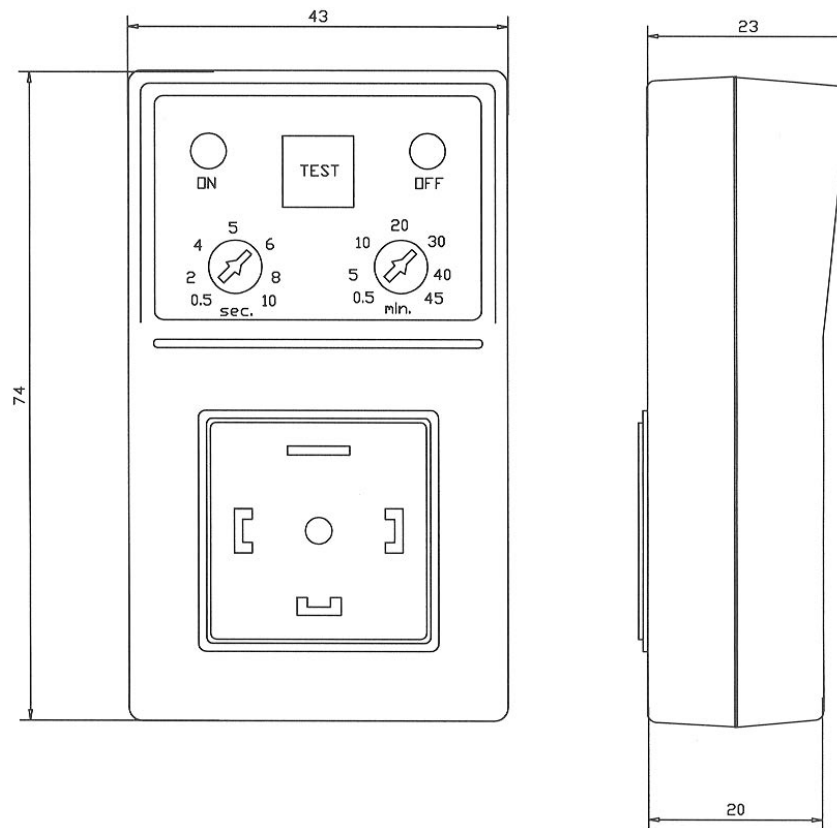


Danger!

Before any kind of maintenance or repair work is done, the unit is to be depressurized!

Liquid (condensate) discharges by an drain opening with a diameter of 11 mm. If the condensate contains high quantities of solid particles the traptronic 2/100 should be cleaned regularly.

Dimension Drawing



Dimensions in mm

Specification

Timer		Valve	
Intervall time	T2 (1) 0,5 - 45 min	Connection	IN/OUT G 3/8
Discharge time	T1 (1) 0,5 - 10 sec	Pressure range Minimal	0,15 bar
Test switch		Pressure range Maximal	100 bar
Standard voltage (2)	24 - 240 V	Temperature range, minimal	1° C
AC/DC		Temperature range, maximal	50° C
	± 10% 50/60 Hz	Valve body	Brass 11 mm
Voltage device	max. 4mA	Medium	air, gas, water
Working temperature	-40° - +60° C		oel, etc.
Protection	IP 65/ NEMA 4		
Contact rating	1 A		
Holding voltage	400 V		
Duration of operation	100 %		
Reproduction precision	= 1%		
Indication precision	= 10%		
Body material	ABS Plastic		
Connection	DIN 43650A		
Indication	1 LED (yellow)		
	for indication of the		
	outlet phase		
	1 LED (yellow)		
	for indication of the		
	out phase		
Construction (Standard)	VDE 0110 C		

Remarks:

- (1) Devices with other time settings are available.
- (2) For device operation with direct current (DC) connect L1 with (+) terminal.