

# TIMER CONTROLLED CONDENSATE DRAIN (TDM series)

## DESCRIPTION

Timer controlled condensate drains have been developed for reliable removal of condensate or other liquids from compressed air system<sup>(1)</sup>. Timer electronic is in control of discharging of condensate based on the discharge intervals. Discharge intervals can be set with two adjustment knobs.

## APPLICATIONS<sup>(2)</sup>

- Air Compressor (piston or screw)
- After-cooler
- Cyclone condensate separator
- Pressure vessel/Air tank
- Air dryer
- Air filter

<sup>(1)</sup> For any other technical gas please contact us or your local dealer

<sup>(2)</sup> Drains can be used in variety of applications. For applications not listed please contact us or your local dealer.



## TECHNICAL SPECIFICATIONS

Operating temperature	1,5 - 65 °C	35 - 149 °F
Protection class	IP65	
Supply voltage	115V / 230V (±10%), AC, 50/60Hz	
Coil power	18VA (holding), 36 (inrush)	
Cable dimensions	3 x 0,75mm <sup>2</sup>	
Valve	Direct acting solenoid valve, 2/2, Normally closed	
Connector	DIN EN 175301-803 form A	
Time ON	0,5s - 10s	
Time OFF	0,5min - 45min	
Indicator	LED light "Green- Valve open"	

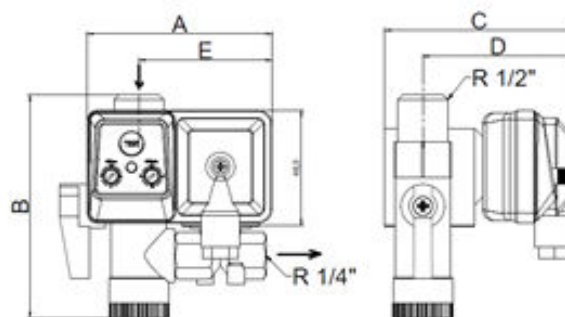
## MATERIALS

Housing material	PA6, 30% glass fibre
Screws	Steel-zinc plated
Coil	Epoxy coated
Valve	Brass (stainless steel plunger)
Housing sealing	NBR
Valve sealing	FKM
Strainer *	Brass
Internal strainer mesh	Stainless steel

\*Strainer max working pressure is 50 barg.

**DIMENSIONS**

A	77 mm
B	93 mm
C	79 mm
D	63 mm
E	55 mm



**TYPES**

	Voltage	MAX. Pressure [barg]/[psig]	Medium	Mass [g]	Strainer*	Flow coefficient Kvs [l/min]
TD16M 115 VAC	115 V +/- 10%	16 / 232	Air, water, oil	510	Yes	2,4
TD16M 230 VAC	230 V +/- 10%	16 / 232	Air, water, oil	510	Yes	2,4
TD25M 115 VAC	115 V +/- 10%	25 / 362	Air, water, oil	510	Yes	1,5
TD25M 230 VAC	230 V +/- 10%	25 / 362	Air, water, oil	510	Yes	1,5
TD50M 115 VAC	115 V +/- 10%	50 / 735	Air, water, oil	580	Yes	0,7
TD50M 230 VAC	230 V +/- 10%	50 / 735	Air, water, oil	580	Yes	0,7
TD150M 115 VAC	115 V +/- 10%	150 / 2175	Air, water, oil	380	No	0,7
TD150M 230 VAC	230 V +/- 10%	150 / 2175	Air, water, oil	380	No	0,7
TD16Mcr 115 VAC	115 V +/- 10%	16 / 232	Aggressive fluids	460	No	3,4
TD16Mcr 230 VAC	230 V +/- 10%	16 / 232	Aggressive fluids	460	No	3,4

\*Strainer max working pressure is 50 barg.

**APPROXIMATE CALCULATION OF DISCHARGE CAPACITY**

$$Q = Kvs \times \sqrt{\Delta p} \times \left( \frac{\frac{TimeON}{60}}{\frac{TimeON}{60} + Time OFF} \right)$$

Q-Discharge capacity [l/min], Kvs-Flow coefficient, Δp-pressure difference [bar], Time ON and Time OFF are determined by adjustment knobs, the range of each timer is specified in technical specification.

**MAINTENANCE**

Clean strainer (filter mesh) at least every six months. If necessary, disassemble and clean the valve.

**INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE**

	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285</p>
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