

TIMER CONTROLLED CONDENSATE DRAIN - TD16M

DESCRIPTION

TD16M timer controlled condensate drain has been developed for reliable removal of condensate or other liquid from compressed air system⁽¹⁾. Discharge intervals can be set with two adjustment knobs. TD16M drain is available in several types based on operating pressure and operating medium.



APPLICATIONS⁽²⁾

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

⁽¹⁾For any other technical gas please contact us or your local dealer

⁽²⁾TD16M can be used in variety of applications. For applications not listed please contact us or your local dealer.

TECHNICAL SPECIFICATIONS⁽³⁾

Operating temperature	1,5 - 65 °C	35 - 149 °F
Operating pressure (Standard version)	0 - 16 bar(g)	0 - 232 psi
Protection class	IP65	
Supply voltage	115V / 230V (±10%), AC, 50/60Hz	
Coil power	18VA (holding), 36 (inrush)	
Cable dimensions	3 x 0,75mm ²	
Mass (timer + valve)	0,35kg	
Mass (strainer)	0,23kg	
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"	
Max. discharge capacity	95 l/h	

⁽³⁾Standard version (TD16M), at 7 barg

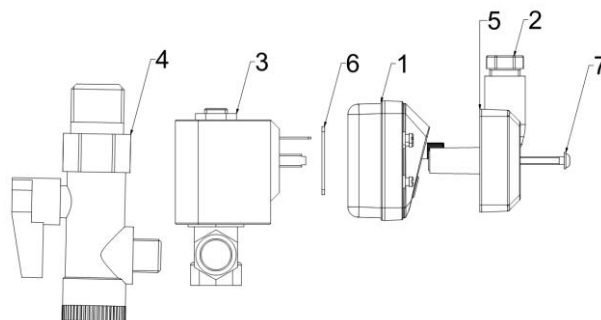
MATERIALS⁽⁴⁾

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

⁽⁴⁾Standard version (TD16M)

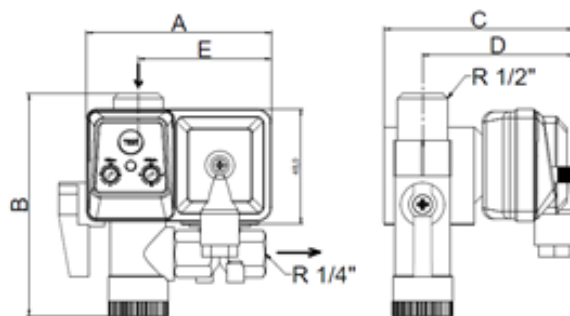
PARTS LIST

1	Timer TDm
2	Cover
3	Valve
4	Strainer
5	Cover gasket
6	Valve gasket
7	Screw



DIMENSIONS

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



TYPES

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


MAINTENANCE

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

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