

TIMER CONTROLLED CONDENSATE DRAIN (TDMFC series)

DESCRIPTION

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



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⁾ 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 ² | |
| 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" | |

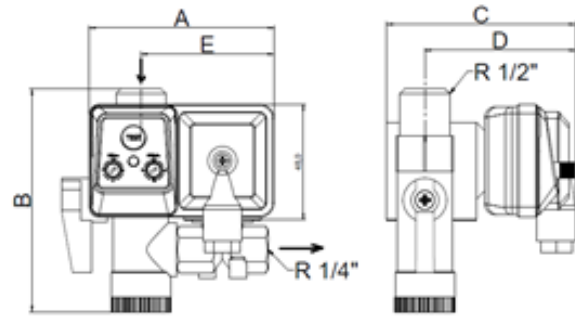
MATERIALS

| | |
|------------------------|---------------------------------|
| 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] |
|-------------------|---------------|-----------------------------|-------------------|----------|-----------|------------------------------|
| TD16MFC 115 VAC | 115 V +/- 10% | 16 / 232 | Air, water, oil | 510 | Yes | 2,4 |
| TD16MFC 230 VAC | 230 V +/- 10% | 16 / 232 | Air, water, oil | 510 | Yes | 2,4 |
| TD25MFC 115 VAC | 115 V +/- 10% | 25 / 362 | Air, water, oil | 510 | Yes | 1,5 |
| TD25MFC 230 VAC | 230 V +/- 10% | 25 / 362 | Air, water, oil | 510 | Yes | 1,5 |
| TD50MFC 115 VAC | 115 V +/- 10% | 50 / 735 | Air, water, oil | 580 | Yes | 0,7 |
| TD50MFC 230 VAC | 230 V +/- 10% | 50 / 735 | Air, water, oil | 580 | Yes | 0,7 |
| TD150MFC 115 VAC | 115 V +/- 10% | 150 / 2175 | Air, water, oil | 380 | No | 0,7 |
| TD150MFC 230 VAC | 230 V +/- 10% | 150 / 2175 | Air, water, oil | 380 | No | 0,7 |
| TD16MFCcr 115 VAC | 115 V +/- 10% | 16 / 232 | Aggressive fluids | 460 | No | 3,4 |
| TD16MFCcr 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

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