PRODUCT DATA SHEET TD420MFC

TIMER CONTROLLED CONDENSATE DRAIN – TD420MFC

DESCRIPTION

TD420MFC timer controlled condensate drain has been developed for reliable removal of condensate or other liquid from high pressure compressed air system⁽¹⁾. Discharge intervals can be set with two adjustment knobs. TD400M drain is available with a kit for easy installation and providing many mounting positions.

APPLICATIONS(2)

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



TECHNICAL SPECIFICATIONS(3)

Operating temperature	1,5 - 150 °C	35 - 302 °F			
Ambient temperature	1,5 - 65 °C	35 - 149 °F			
Operating pressure (4)	0 - 420 bar(g)	0 – 6091 psi			
Protection class	IP65				
Supply voltage	230V (±10%), AC, 50/60Hz				
Coil power	8W				
Cable dimensions	3 x 0,75mm ²				
Mass (timer + valve)	0,35kg				
Mass (fittings + needle valve)	0,23kg				
Valve	Direct acting solenoid	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				

⁽³⁾Standard version (TD400MFC 230V AC)

MATERIALS

Controller housing	PA6 GF30		
Screws	Steel-zinc plated		
Coil	Epoxi coated		
Valves	Stainless steel 1.4305		
Valve sealing	PEEK		
Fittings	Stainless steel 1.4571		
Internal strainer mesh	Stainless steel		



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

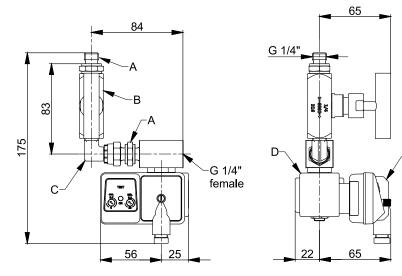
⁽²⁾TD400MFC can be used in variety of applications. For applications not listed please contact us or your local dealer.

⁽⁴⁾ Version TD420MFC 24V DC only up to a pressure 400 bar(g) (5800 psi)

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PARTS LIST

Α	Nipple		
В	Needle valve		
С	Elbow		
D	Electromagnetic valve		
E	Timer		



TYPES

Туре	Voltage	Power	MAX. Pressure [barg]/[psig]	Medium	Flow coefficient Kvs [l/min]
TD420MFC 230V A	230V AC 50/60Hz	8W	420 / 6091	Air, water, oil	0.3
TD420MFC 24V DC	24V DC	18W	400 / 5800	Air, water, oil	0.3

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 [I/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

Once per week make a visual check of the fittings and valve with timer controller. Next to a visual check we must do timer and electromagnetic valve test by pressing the test button on timer controller. If necessary disassemble and clean the valve and fittings.

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