

**420 bar(g)**

operating pressure

**see spec.**

drain capacity

**1/4"**

connections

**1,5 to 150 °C**

operating temperature range

## DESCRIPTION

TD 420M timer controlled condensate drain is designed for reliable removal of condensate or other liquid from high pressure compressed air system<sup>(1)</sup>. Discharge intervals can be set with two adjustment knobs. TD 420M drain is available with a kit for easy installation which enable us to mount it in many different positions.

TD 420M can be used in variety of applications. For applications not listed please contact us or your local dealer.

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

## APPLICATIONS

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

# TD 420M SERIES

## TIMER CONTROLLED CONDENSATE DRAIN

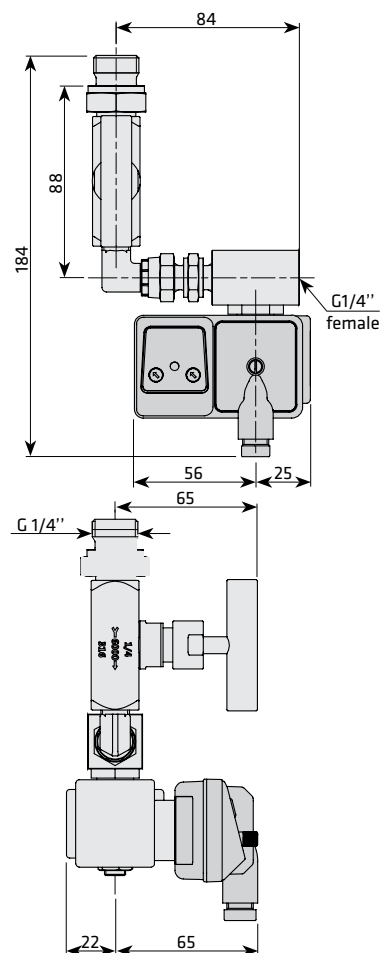


TECHNICAL DATA	TD 420M 230V AC	TD 420M 24V DC
Supply voltage	230V (±10 %), AC, 50/60Hz	24V DC
Operating temp. range	1,5 - 150 °C (35-302 °F)	
Operating pressure	420 bar (6091 psi)	
Protection class	IP65	
Coil power	8W	18 W
Cable dimensions	3 × 0,75 mm <sup>2</sup>	
Mass (timer+valve)	0,35 kg	
Mass (fittings+needle valve)	0,23 kg	
Time ON	0,5 s - 10 s	
Time OFF	0,5 min - 45 min	
Valve	Direct acting solenoid valve, 2/2, NC	
Connector	DIN EN 175301-803 form A	
Inlet connection	G 1/4"	
Outlet connection	G 1/4" (female)	
Dimensions L×B×H [mm]	105×87×184	
Medium	Air, water, oil	
Flow coefficient Kvs	0,3 l/min	0,3 l/min

## DISCHARGE CAPACITY

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.

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



# **omega air**

## *Air and Gas Treatment*



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