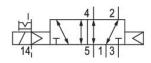
## **AVENTICS Series TC15 Directional** valves

The AVENTICS Series TC08/TC15 includes a wide range of spool valves with housings made of high-performance polymers with robust and flexible metal inserts. It is designed for flow rate performances from 800 to 1500 I/min. These directional valves are easy to assemble, making them ideal for applications requiring the highest efficiency in limited spaces.





#### Technical data

Industry Industrial Activation Electrically

Note Operating voltage 12 V AC, 110 V AC, 230 V AC

Valve type Spool valve, positive overlapping

Switching principle 5/2, with air spring return

Single Solenoid Actuating control

Sealing principle Soft seal

Connection type Pipe connection

Manual override with detent

Standard compressed air connection according to ANSI B1.20.3

1/4 - 18 NPTF Compressed air connection input 1/4 - 18 NPTF Compressed air connection output Compressed air connection, exhaust 1/4 - 18 NPTF

Nominal flow Qn 1500 I/min

Flow conductance b 0.33

Flow conductance C 6.8 I/(s\*bar) R422101252

Min. working pressure-0.9 barMax. working pressure10 barMin. control pressure2.5 barMax. control pressure10 bar

Electrical connection type Plug

Electrical connection size ISO 15217, form C

Connector standard ISO 15217

Protection class with connection IP65
Operational voltage 12 V DC
Operational voltage DC 12 V

Voltage tolerance DC -10% / +10%

Pilot External Coil width 15.6 mm Pilot valve width 15 mm Power consumption DC 2 W Nominal resistance 185  $\Omega$ 

Duty cycle 100 %
Typ. switch-on time 21 ms
Typ. switch-off time 22 ms

Min. ambient temperature -10 °C

Max. ambient temperature 50 °C

Min. medium temperature -10 °C

Max. medium temperature 50 °C

Medium Compressed air

Min. oil content of compressed air 0 mg/m³ Max. oil content of compressed air 5 mg/m³ Max. particle size 5  $\mu$ m

Mounting on manifold strip P-strip

Mounting screw tightening torque 2.5 Nm

Weight 0.235 kg

#### Material

Housing material Polyamide fiber-glass reinforced

# 5/2-directional valve, Series TC15 - inch

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Seal material Acrylonitrile butadiene rubber

Hydrogenated nitrile butadiene rubber

Material threaded bushing Brass

Die cast zinc

Material front plate Polyamide fiber-glass reinforced

Part No. R422101252

#### Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

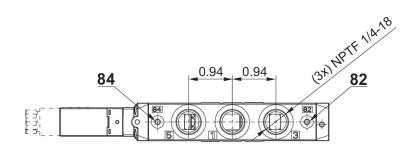
The oil content of compressed air must remain constant during the life cycle.

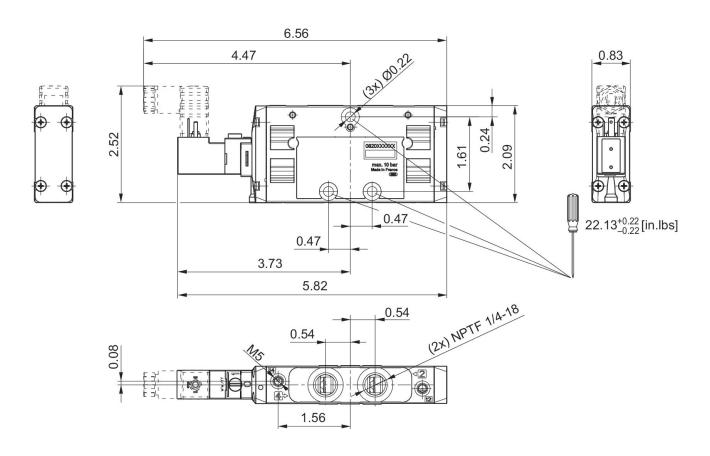
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

### Dimensions in inches

R422101252

# Single Solenoid





Dimensions in mm

# Single Solenoid

