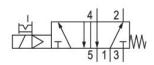
R422101256

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 l/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 spring return

Actuating control Single Solenoid

Sealing principle Soft seal

Connection type Pipe connection

Manual override with detent

Standard compressed air connection according to ANSI B1.20.3

Compressed air connection input

1/4 - 18 NPTF

Compressed air connection output

1/4 - 18 NPTF

Compressed air connection, exhaust

1/4 - 18 NPTF

Nominal flow Qn 1500 l/min

Flow conductance b 0.33

Flow conductance C 6.8 l/(s*bar)

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Min. working pressure3 barMax. working pressure10 barMin. control pressure3 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%

PilotInternalCoil width15.6 mmPilot valve width15 mmPower consumption DC2 WNominal resistance185 Ω

Duty cycle 100 %
Typ. switch-on time 12 ms
Typ. switch-off time 35 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 μ 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. R422101256

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.

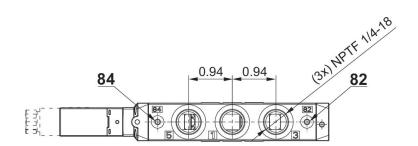
The oil content of compressed air must remain constant during the life cycle.

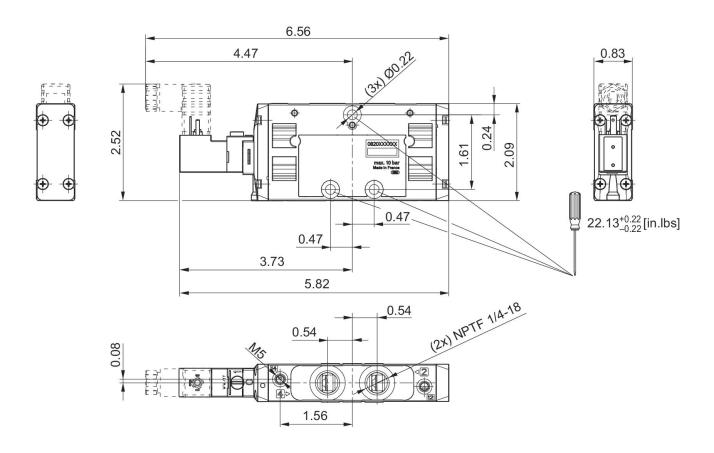
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

Dimensions in inches

R422101256

Single Solenoid





Dimensions in mm

Single Solenoid

