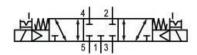
2024-07-30

# **AVENTICS Series TC08 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

Switching principle 5/3, closed center
Valve function Closed Center
Actuating control Double Solenoid
Sealing principle Soft seal

Standard compressed air connection according to ANSI B1.20.3

Compressed air connection input 1/8-27 NPTF
Compressed air connection output 1/8-27 NPTF
Compressed air connection, exhaust 1/8-27 NPTF

Compressed air connection pilot exhaust M5

Nominal flow Qn 700 l/min
Flow conductance b 0.34
Flow conductance C 3 l/(s\*bar)

Min. working pressure 3 bar
Max. working pressure 10 bar

## 5/2-directional valve, Series TC08 - inch

Series TC08

R422101244 2024-07-30

Min. control pressure 3 bar Max. control pressure 10 bar

Electrical connection type Plug

Electrical connection size ISO 15217, form C

Connector standard ISO 15217
Protection class with connection IP65

Operational voltage DC 12 V DC

Voltage tolerance DC -10 % / +10 %

Pilot External Pilot valve width 15 mm Power consumption DC 1.9 W Nominal resistance 185  $\Omega$ 

Duty cycle 100 %
Typ. switch-on time 14 ms
Typ. switch-off time 18 ms

Generic emission standard in accordance with EN 50081-2:1993

Generic immunity standard in accordance with EN 50082-2

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  $0 \text{ mg/m}^3$  Max. oil content of compressed air  $5 \text{ mg/m}^3$  Max. particle size  $50 \mu\text{m}$ 

Mounting on manifold stripP-stripMounting screw tightening torque2 NmTightening torque tolerance±0,2 mTWeight0.14 kg

#### Material

Housing material Polyamide fiber-glass reinforced Seal material Acrylonitrile butadiene rubber

# 5/2-directional valve, Series TC08 - inch

Series TC08

2024-07-30

R422101244

Brass

Die cast zinc

Material front plate Polyamide fiber-glass reinforced

Part No. R422101244

### Technical information

Material threaded bushing

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.

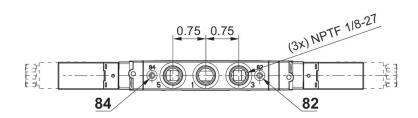
The oil content of compressed air must remain constant during the life cycle.

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).

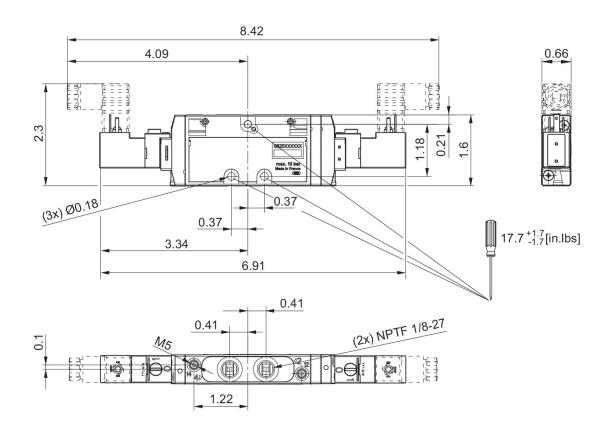


2024-07-30

### Dimensions in inches



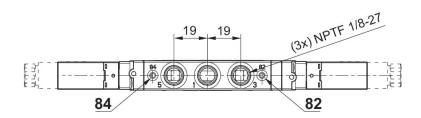




2024-07-30

### Dimensions in mm

R422101244





AVENTICS

