# 5/2-directional valve, Series TC08, without detent

Series TC08

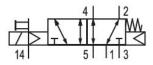
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- Excellent ratio of installation space and flow rate
- · Large selection of electrical connections
- · Electrical or pneumatic operated
- · Long service life
- · Adjustable coil with four 90° positions

## **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

Valve type Spool valve, positive overlapping

Basic valve equipment Basic valve without coil

Switching principle 5/2, with spring/air spring return

Actuating control single
Sealing principle Soft seal

Connection type Pipe connection Manual override without detent

Compressed air connection input G 1/8
Compressed air connection output G 1/8
Compressed air connection, exhaust G 1/8

Nominal flow Qn 800 I/min Flow conductance b 0.36

Flow conductance C 3.5 l/(s\*bar)

Min. working pressure -0.9 bar

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R422103049

2024-10-17

Max. 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

Pilot External
Coil width 15.6 mm
Pilot valve width 15 mm

Duty cycle 100 %
Typ. switch-on time 14 ms
Typ. switch-off time 17 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 Nm

Weight 0.14 kg

#### Material

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

Polyurethane

Material threaded bushing Brass

Die cast zinc

Material front plate Polyamide fiber-glass reinforced

Part No. R422103049

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### 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).



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Dimensions
Double Solenoid

