5/3-directional valve, Series TC08 - inch

Series TC08

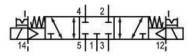
2024-07-30

- 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

Switching principle 5/2, with air spring return

Actuating control Double Solenoid

Sealing principle Soft seal

Connection type Plate connection Pipe connection

Manual override with detent

Standard compressed air connection according to ANSI B1.20.3

Compressed air connection output 1/8-27 NPTF

Nominal flow Qn 800 l/min Flow conductance b 0.36

Flow conductance C 3.5 l/(s*bar)

Min. working pressure -0.9 bar Max. working pressure 10 bar

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R422101165 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 24 V DC Operational voltage DC 24 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 Ω

Duty cycle 100 %
Typ. switch-on time 10 ms
Typ. switch-off time 11 ms

Generic emission standard in accordance with EN 50081:1992

Blocking principle Plate principle

Can be assembled into blocks

Can be assembled into blocks

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 1 mg/m³ Max. particle size 5 μ m

Mounting screw tightening torque 2.5 Nm Weight 0.125 kg

Material

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

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R422101165 2024-07-30

Polyurethane

Material threaded bushing Brass

Die cast zinc

Material front plate Polyamide fiber-glass reinforced

Part No. R422101165

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).

R422101165 2024-07-30

Dimensions

