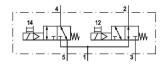
# **AVENTICS Series TC15 Directional** valves

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 24 V AC, 110 V AC, 230 V AC

Valve type Spool valve, positive overlapping

Valve function NC/NO

Actuating control Double Solenoid

Sealing principle Soft seal

Connection type Pipe connection Manual override without detent

Standard compressed air connection according to ISO 228-1

Compressed air connection input G 1/4
Compressed air connection output G 1/4
Compressed air connection, exhaust G 1/4

Nominal flow Qn 1100 l/min

Flow conductance b 0.25

Flow conductance C 5.9 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 230 V AC
Operational voltage AC at 50 Hz 230 V

Voltage tolerance AC 50 Hz -10% / +10%

Operational voltage AC at 60 Hz 230 V

Voltage tolerance AC 60 Hz -10% / +10%

Pilot External

Internal

Coil width 15.6 mm Pilot valve width 15 mm Nominal resistance 14700  $\Omega$  Holding power AC 50 Hz 1.6 VA Holding power AC 60 Hz 1.4 VA Switch-on power AC 50 Hz 2.2 VA Switch-on power AC 60 Hz 2 VA

Duty cycle100 %Typ. switch-on time12 msTyp. switch-off time16 ms

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

Mounting on manifold strip P-strip

## 2x3/2-directional valve, Series TC15

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#### Material

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

Hydrogenated nitrile butadiene rubber

Material threaded bushing Brass

Die cast zinc

Material front plate Polyamide fiber-glass reinforced

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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).

### **Dimensions**

