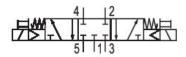
AVENTICS Series TC15 Directional valves

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.





- Industry Industrial Activation Electrically Note Operating voltage 24 V AC, 110 V AC, 230 V AC Spool valve, positive overlapping Valve type Valve function **Closed Center** Actuating control **Double Solenoid** Sealing principle Soft seal Connection type **Pipe connection** Manual override without detent ~ . . . Compressed air connection input Compressed air connection output Compressed air connection, exhaust
- Nominal flow Qn Flow conductance b Flow conductance C

Technical data

Min. working pressure

G 1/4
G 1/4
G 1/4
1300 l/min
0.31
5.9 l/(s*bar)

3 bar



5/3-directional valve, Series TC15

0820059103

Max. working pressure	10 bar
Min. control pressure	3 bar
Max. control pressure	10 bar
Electrical connection type Electrical connection size Connector standard Protection class with connection Operational voltage Operational voltage AC at 50 Hz Voltage tolerance AC 50 Hz Operational voltage AC at 60 Hz	Plug ISO 15217, form C ISO 15217 IP65 230 V AC 230 V -10% / +10% 230 V -10% / +10%
Pilot Coil width Pilot valve width Nominal resistance Holding power AC 50 Hz Holding power AC 60 Hz Switch-on power AC 50 Hz	Internal 15.6 mm 15 mm 14700 Ω 1.6 VA 1.4 VA 2.2 VA 2 VA
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	13 ms
Generic emission standard in accordance with	EN 50081:1992
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/m ³
Max. oil content of compressed air	5 mg/m ³
Max. particle size	5 μm
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2.5 Nm
Weight	0.278 kg



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

Part No.

0820059103

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).



5/3-directional valve, Series TC15

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Dimensions

