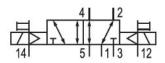
AVENTICS Series TC15 Directional valves

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
Activation
Note
Valve type
Actuating control
Sealing principle
Connection type
Manual override

Compressed air connection input Compressed air connection output Compressed air connection, exhaust Compressed air connection pilot input

Nominal flow Qn Flow conductance b Flow conductance C

Min. working pressure

Industrial Electrically Operating voltage 24 V DC Spool valve, positive overlapping Double Solenoid Soft seal Pipe connection without detent

G	1/4	•
G	1/4	
G	1/4	
M	5	
15	500	l/m

1500 l/min 0.33 6.8 l/(s*bar)

-0.9 bar



5/2-directional valve, Series TC15

0820058651

Series TC15 2024-05-06

Max. working pressure	10 bar	
Min. control pressure	2 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	280 Ω	
Nominal resistance	200 32	
Duty cycle	100 %	
Typ. switch-on time	10 ms	
Typ. switch-off time	10 ms	
Min, ambient temperature	-10 °C	
Min. ambient temperature Max. ambient temperature	50 °C	
Min. medium temperature	-10 °C	
Max. medium temperature	50 °C	
Maximedium	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	
Max. particle of the		
Mounting on manifold strip	P-strip	
Mounting screw tightening torque	2.5 Nm	
Weight	0.263 kg	

Material

Housing material Seal material

Polyamide fiber-glass reinforced Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber



5/2-directional valve, Series TC15

0820058651

Material threaded bushing

Material front plate

Brass Die cast zinc Polyamide fiber-glass reinforced

Part No.

0820058651

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).

2024-05-06

5/2-directional valve, Series TC15

0820058651

dimensions, double solenoid

