

5/3-directional valve, Series TC08, with detent

R422103056

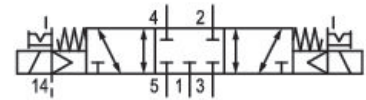
Series
TC08

2024-10-17

- 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	5/3, closed center
Actuating control	Double Solenoid
Sealing principle	Soft seal
Connection type	Pipe connection
Manual override	with 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	700 l/min
Flow conductance b	0.34
Flow conductance C	3 l/(s*bar)
Min. working pressure	-0.9 bar

5/3-directional valve, Series TC08, with detent

R422103056

Series
TC08

2024-10-17

Max. working pressure	10 bar
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
Pilot	External
Coil width	15.6 mm
Pilot valve width	15 mm
Duty cycle	100 %
Typ. switch-on time	10 ms
Typ. switch-off time	11 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/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 Nm
Weight	0.178 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.	R422103056

5/3-directional valve, Series TC08, with detent

R422103056

Series
TC08

2024-10-17

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 TC08, with detent

R422103056

Series
TC08

2024-10-17

Dimensions

