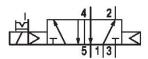
AVENTICS Series TC08 Directional valves

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 Activation Valve type Switching principle Actuating control Sealing principle Manual override

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

Nominal flow Qn Flow conductance b Flow conductance C

Min. working pressure

Industrial Electrically Spool valve, negative overlapping 5/2, with air spring return Double Solenoid Soft seal with detent

according to ANSI B1.20.3 1/8-27 NPTF 1/8-27 NPTF 1/8-27 NPTF M5

800 I/min 0.36 3.5 I/(s*bar)

2.5 bar



5/2-directional valve, Series TC08 - inch

R422101202

Series TC08 2024-07-30

		2024-
Max. working pressure	10 bar	
Min. control pressure	2.5 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	110 V AC	
Operational voltage AC at 50 Hz	110 V	
Voltage tolerance AC 50 Hz	-10 % / +10 %	
Operational voltage AC at 60 Hz	230 V	
Voltage tolerance AC 60 Hz	-10 % / +10 %	
Pilot	Internal	
Pilot valve width	15 mm	
Nominal resistance	185 Ω	
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 cycle	100 %	
Typ. switch-on time	14 ms	
Typ. switch-off time	17 ms	
Generic emission standard in accordance with	EN 50081-2:1993	
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/m ³	
Max. particle size	50 µm	
Mounting on manifold strip	P-strip	
Mounting screw tightening torque	2 Nm	
Tightening torque tolerance	±0,2 mT	
Weight	0.14 kg	
Tightening torque tolerance	2 Nm ±0,2 mT	



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Housing material Seal material Material threaded bushing

Material front plate

Part No.

Polyamide fiber-glass reinforced Acrylonitrile butadiene rubber Brass Die cast zinc Polyamide fiber-glass reinforced

R422101202

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 in inches



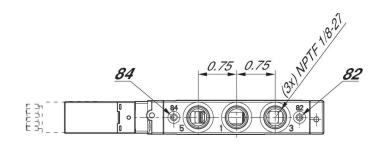
5/2-directional valve, Series TC08 - inch

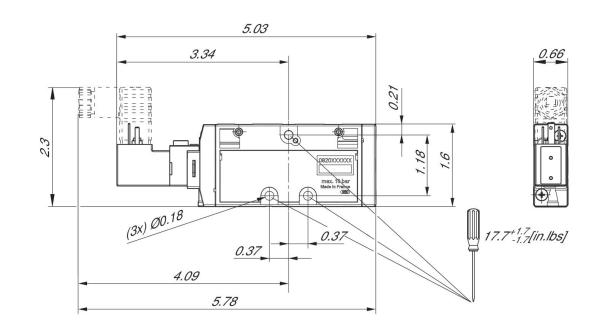
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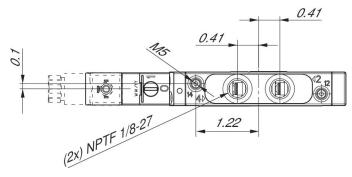
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Double Solenoid







Dimensions in mm



5/2-directional valve, Series TC08 - inch

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Double Solenoid

