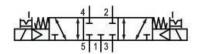
AVENTICS Series TC08 Directional valves

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 Switching principle Valve function Actuating control Sealing principle

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 Max. working pressure Industrial Electrically 5/3, closed center Closed Center Double Solenoid Soft seal

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

700 l/min 0.34 3 l/(s*bar)

3 bar 10 bar



R422101228

Series
TC08
2024-07-30

		2024-07-30
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	
Operational voltage	12 V DC	
Operational voltage DC	12 V	
Voltage tolerance DC	-10 % / +10 %	
Pilot	External	
Pilot valve width	15 mm	
Power consumption DC	1.9 W	
Nominal resistance	185 Ω	
Duty cycle	100 %	
Typ. switch-on time	14 ms	
Typ. switch-off time	18 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/m³	
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	

Material

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



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Series TC08 2024-07-30

Material	threaded	bushina
matorial	anoadoa	Saorning

Material front plate

Brass Die cast zinc Polyamide fiber-glass reinforced

Part No.

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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.

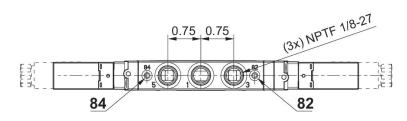
The oil content of compressed air must remain constant during the life cycle.

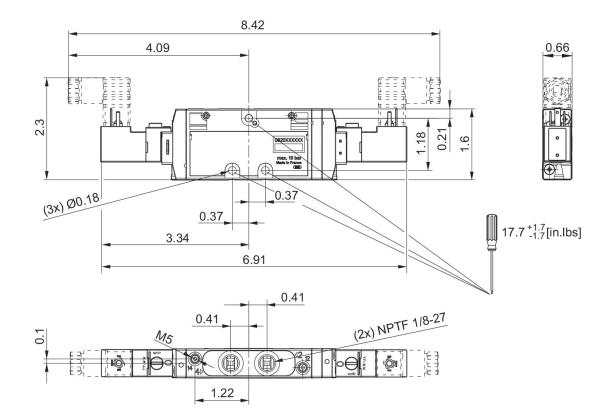
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



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Dimensions in inches







R422101228

Dimensions in mm

