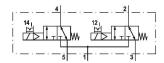
AVENTICS Series TC08 Directional valves

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 Valve function Actuating control Sealing principle Manual override

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

Nominal flow Qn Flow conductance b Flow conductance C

Min. working pressure

Industrial Electrically Spool valve, negative overlapping 2x 3/2 NC/NC, with spring return NC/NC Double Solenoid Soft seal with detent

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

600 I/min 0.27 2.8 I/(s*bar)

3 bar



R422102100

Series TC08

N422102100		2024-07-30
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	12 V DC	
Operational voltage DC	12 V	
Voltage tolerance DC	-10 % / +10 %	
Pilot	Internal	
Pilot valve width	15 mm	
Power consumption DC	2 W	
Nominal resistance	72 Ω	
Duty cycle	100 %	
Typ. switch-on time	10 ms	
Typ. switch-off time	14 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	0.181 kg	

Material Housing material

Polyamide fiber-glass reinforced



R422102100

Series TC08

2024-07-30

Seal material	
Material threaded bushing	

Material front plate

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

Part No.

R422102100

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).

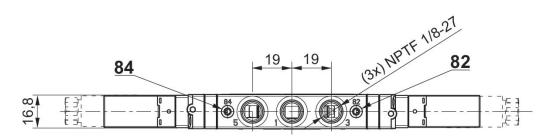


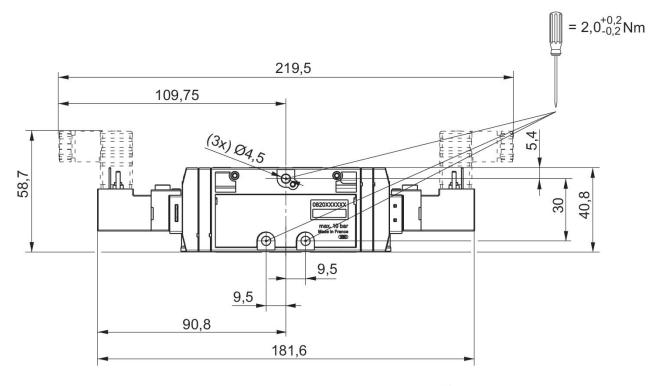
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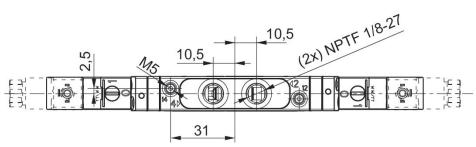
TC08 2024-07-30

Series

Dimensions in mm









R422102100

Dimensions in inches

