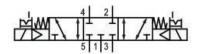
AVENTICS Series TC08 Directional valves

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



5/2-directional valve, Series TC08 - inch

R422101239

Series TC08

R422101239	2024-07-3
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	230 V AC
Operational voltage AC at 50 Hz	230 V
Voltage tolerance AC 50 Hz	-10 % / +10 %
Operational voltage AC at 60 Hz	230 V
Pilot	External
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	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



R422101239

Material

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

R422101239

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.

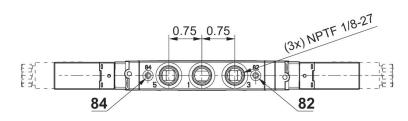
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

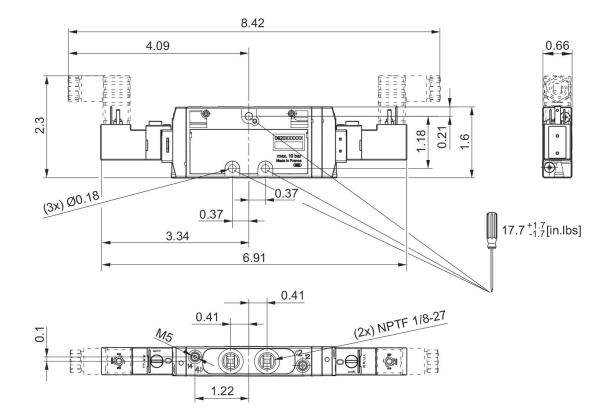


5/2-directional valve, Series TC08 - inch

R422101239

Dimensions in inches







5/2-directional valve, Series TC08 - inch

R422101239

Dimensions in mm

