Series TC08

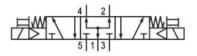
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- Excellent ratio of installation space and flow rate
- · Large selection of electrical connections
- · Electrical or pneumatic operated
- · Long service life
- · Adjustable coil with four 90° positions

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

Switching principle 5/3, pressurized center

Actuating control Double Solenoid

Sealing principle Soft seal

Connection type Pipe connection

Manual override without 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 I/min Flow conductance b 0.34

Flow conductance C 3 I/(s*bar)

Min. working pressure 3 bar
Max. working pressure 10 bar

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Min. control pressure	3 bar
Max. control pressure	10 bar

Electrical connection type Plug
Electrical connection size M8
Electrical connection number of poles 4-pin

Connector standard DIN EN 60947-5-2

Protection class acc. to DIN EN 61140 Class III
Protection class with connection IP65
Operational voltage 24 V DC
Operational voltage DC 24 V

Voltage tolerance DC -10 % / +10 %

PilotInternalCoil width15.6 mmPilot valve width15 mmLED status displayYellowPower consumption DC2.2 WNominal resistance280 Ω

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 $5 \mu \text{m}$

Mounting on manifold strip P-strip

Mounting screw tightening torque 2 Nm

Weight 0.178 kg

Material

Housing material Polyamide fiber-glass reinforced

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Seal material Acrylonitrile butadiene rubber

Polyurethane

Material threaded bushing Brass

Die cast zinc

Material front plate Polyamide fiber-glass reinforced

Part No. 0820061321

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.

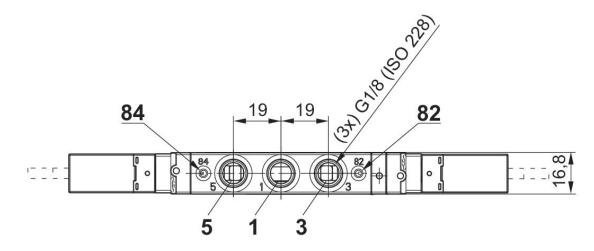
The oil content of compressed air must remain constant during the life cycle.

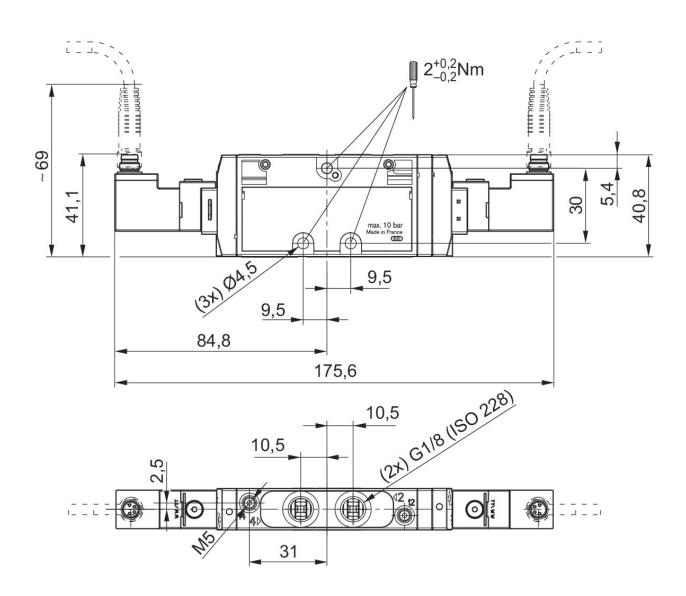
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



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Dimensions



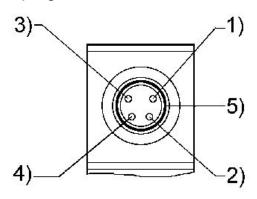


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PIN assignment and cable colors for valve plug connectors



PIN assignment: 1) PIN not assigned 2) PIN not assigned 3) 0 V 4) 24 V 5) LED Cable colors 1) Brown 2) White 3) Blue 4) Black

