TC08 2024-10-17

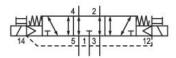
Series

- 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, exhausted 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 l/min	
Flow conductance b	0.34	
Flow conductance C	3 l/(s*bar)	
Min. working pressure	-0.9 bar	
Max. working pressure	10 bar	



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Series TC08

2024-10-17

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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 %	
Pilot	External	
Coil width	15.6 mm	
Pilot valve width	15 mm	
LED status display	Yellow	
Power consumption DC	2.2 W	
Nominal resistance	280 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/m³	
Max. oil content of compressed air	5 mg/m³	
Max. particle size	5 µm	
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

Material threaded bushing

Material front plate

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

Part No.

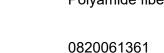
#### **Technical information**

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.

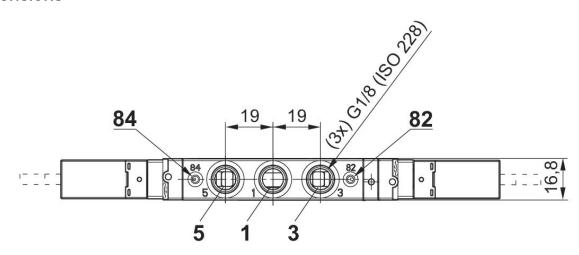
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

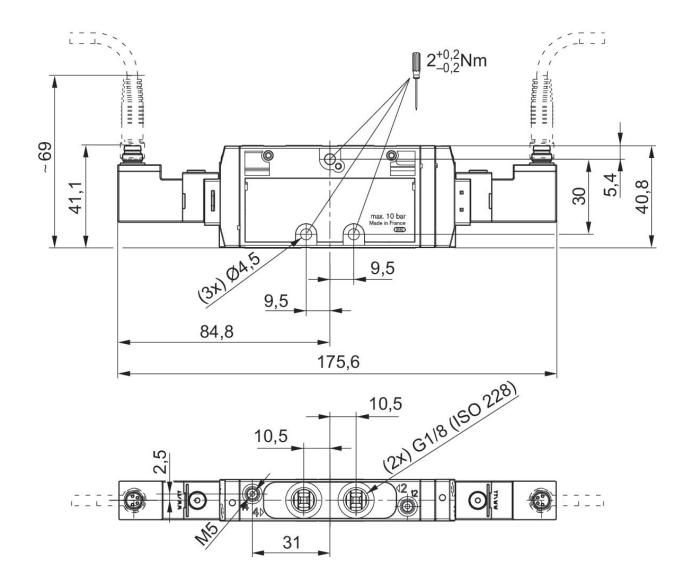


0820061361

2024-10-17

#### Dimensions





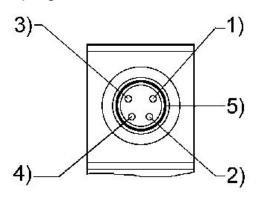


0820061361

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2024-10-17

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

