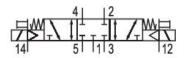
- Qn = 600 l/min ... 800 l/min
- 2x3/2, 5/2, 5/3 Spool valves with polyamide housing
- Pneumatic connection G1/8, 1/8-27 NPTF
- Working pressure min./max. -0.9/10 bar
- Voltage 12 V DC, 24 V DC, 24 V AC, 110 V AC,230 V AC
- Electrical connection ISO form C, M8 3-pin; M8 4-pin

AVENTICS Series TC08 Valve systems

The AVENTICS Series TC08 valve system is the perfect choice for applications calling for lightweight valves with high flow rate in a small space. With valves operated either pneumatically or electrically, the valve system can be modularly expanded to up to 12 valves. Valves can be exchanged without dismantling the valve block.





Technical data	
Industry	Industrial
Activation	Electrically
Valve type	Spool valve, positive overlapping
Switching principle	5/3, closed center
Actuating control	Double Solenoid
Sealing principle	Soft seal
Connection type	Plate connection
	Pipe connection
Manual override	without detent
Compressed air connection output	G 1/8
Nominal flow Qn	700 l/min
Flow conductance b	0.34
Flow conductance C	3 l/(s*bar)

Min. working pressure Max. working pressure Min. control pressure -0.9 bar 10 bar 3 bar



5/3-directional valve, Series TC08

0820061896

0820061896		2024-08-06
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	
Blocking principle	Plate principle	
Can be assembled into blocks	Can be assembled into blocks	
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	
Weight	0.165 kg	

Material

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



5/3-directional valve, Series TC08

0820061896

Material threaded bushing

Material front plate

Polyurethane Brass Die cast zinc Polyamide fiber-glass reinforced

Part No.

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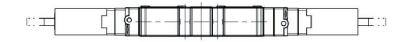
Technical information

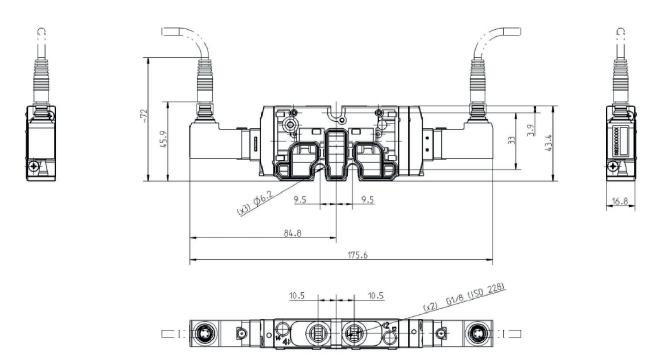
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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).





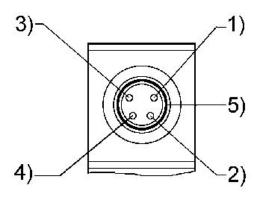


5/3-directional valve, Series TC08

0820061896

Series TC08 2024-08-06

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

