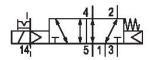
- Qn = 600 l/min ... 800 l/min
- 2x3/2, 5/2, 5/3 Spool valves with polyamide housing
- Pneumatic connection G1/8, 1/8-27 NPTF
- Working pressure min./max. -0.9/10 bar
- Voltage 12 V DC, 24 V DC, 24 V AC, 110 V AC,230 V AC
- Electrical connection ISO form C, M8 3-pin; M8 4-pin

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	5/2, with spring/air spring return
Actuating control	Double Solenoid
Sealing principle	Soft seal
Connection type	Plate connection
	Pipe connection
Manual override	with detent
Compressed air connection output	G 1/8
Nominal flow Qn	800 l/min
Flow conductance b	0.36
Flow conductance C	3.5 l/(s*bar)



Min. working pressure

Max. working pressure

Min. control pressure

-0.9 bar

10 bar

3 bar



5/2-directional valve, Series TC08 0820060797

0820060797		1000
		2024-08-0
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	14 ms	
Typ. switch-off time	17 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	
Weight	0.125 kg	
Material		
Housing material	Polyamide fiber-glass reinforced	
Seal material	Acrylonitrile butadiene rubber	
	Delamenti en e	

Material threaded bushing

Polyurethane Brass Die cast zinc

2

5/2-directional valve, Series TC08

0820060797

Material front plate

Polyamide fiber-glass reinforced

Part No.

0820060797

Technical information

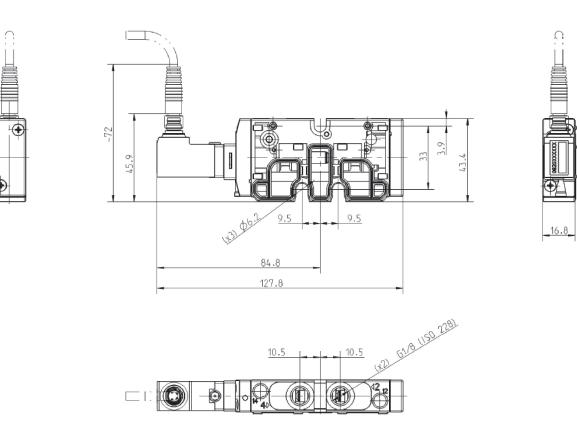
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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).

Dimensions



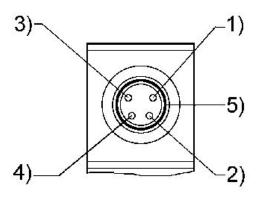


5/2-directional valve, Series TC08

0820060797

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

