

2x3/2-directional valve, Series TC08, with detent

R422102066

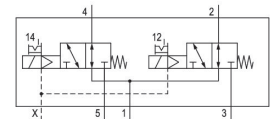
Valve system,
Series
TC08

2024-08-06

- $Q_n = 600 \text{ l/min} \dots 800 \text{ l/min}$
- 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	2x 3/2 NO/NO, with spring return
Valve function	NO/NO
Actuating control	Double Solenoid
Sealing principle	Soft seal
Connection type	Plate connection Pipe connection
Manual override	with detent
Compressed air connection input	G 1/8
Compressed air connection output	G 1/8
Compressed air connection, exhaust	G 1/8
Nominal flow Q_n	600 l/min
Min. working pressure	-0.9 bar
Max. working pressure	10 bar

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Min. control pressure 2.5 bar
Max. control pressure 10 bar

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Electrical connection type Plug
Electrical connection size ISO 15217, form C
Connector standard ISO 15217
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
Power consumption DC 2 W
Nominal resistance 280 Ω

Duty cycle 100 %
Generic emission standard in accordance with EN 50081-2:1993

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

Mounting screw tightening torque 2 Nm
Weight 0.166 kg

Material

Housing material Polyamide fiber-glass reinforced
Seal material Acrylonitrile butadiene rubber
Polyurethane
Material threaded bushing Brass

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Valve system,
Series TC08

Die cast zinc

Material front plate

Polyamide fiber-glass reinforced

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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>).

Dimensions

