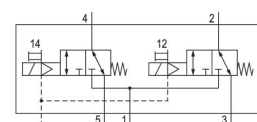


- $Q_n = 1100 \text{ l/min} \dots 1500 \text{ l/min}$
- 2x3/2, 5/2, 5/3 Spool valves with polyamide housing
- Pneumatic connection G1/4, 1/4-18 NPTF
- Working pressure min./max. -0.9/10 bar
- Voltage 12 V DC, 24 V DC, 24 V AC, 110 V AC, 230 V AC
- Electrical connection ISO form C, M8 3-pin; M8 4-pin

AVENTICS Series TC15 Valve systems

The AVENTICS Series TC15 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
Valve function	NC/NC
Actuating control	Double Solenoid
Sealing principle	Soft seal
Connection type	Plate connection Pipe connection
Manual override	without detent
Compressed air connection output	G 1/4
Nominal flow Q_n	1100 l/min
Flow conductance b	0.25
Flow conductance C	5.9 l/(s*bar)
Min. working pressure	-0.9 bar
Max. working pressure	10 bar
Min. control pressure	3 bar

Valves, Series TC15

R422102209

Series
TC15

2024-07-30

Max. control pressure	10 bar
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 %
Typ. switch-on time	12 ms
Typ. switch-off time	16 ms
Generic emission standard in accordance with	EN 50081-2:1993
Generic immunity standard in accordance with	EN 50082-2
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/m ³
Max. oil content of compressed air	5 mg/m ³
Max. particle size	5 μ m
Weight	0.25 kg

Material

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

Valves, Series TC15

R422102209

Series
TC15

2024-07-30

Material threaded bushing	Brass
	Die cast zinc
Material front plate	Polyamide fiber-glass reinforced
Part No.	R422102209

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>).

R422102209

2024-07-30

A technical drawing showing the front view of a mechanical assembly, likely a pump or motor housing. The drawing includes various components labeled with letters A through Z. Key features include a central rectangular opening, two circular openings on either side, and several smaller ports and flanges. The drawing is oriented horizontally.

