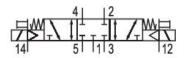
- Qn = 1100 l/min ... 1500 l/min
- 2x3/2, 5/2, 5/3 Spool valves with polyamide housing
- Pneumatic connection G1/4, 1/4-18 NPTF
- Working pressure min./max. -0.9/10 bar
- Voltage 12 V DC, 24 V DC, 24 V AC, 110 V AC,230 V AC
- Electrical connection ISO form C, M8 3-pin; M8 4-pin

#### **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	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 1/4
Nominal flow Qn	1300 l/min
Flow conductance b	0.31
Flow conductance C	5.9 l/(s*bar)

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



# 5/3-directional valve, Series TC15

0820059851

	2024-07
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	13 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
Rail mounting DIN EN 60715	TH35 x 15
Weight	0.244 kg
Material	
matorial	

Material	
Housing material	
Seal material	

Material threaded bushing

Polyamide fiber-glass reinforced Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber Brass



Series TC15

### 5/3-directional valve, Series TC15

0820059851

Material front plate

Die cast zinc Polyamide fiber-glass reinforced

Part No.

0820059851

#### **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 TC15

0820059851

Series TC15 2024-07-30

### Dimensions

