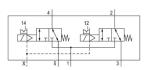
AVENTICS Series TC15 Directional valves

The AVENTICS Series TC08/TC15 includes a wide range of spool valves with housings made of high-performance polymers with robust and flexible metal inserts. It is designed for flow rate performances from 800 to 1500 l/min. These directional valves are easy to assemble, making them ideal for applications requiring the highest efficiency in limited spaces.





Technical data Industry Activation Note Valve type Valve function Actuating control Sealing principle Connection type

Manual override

Standard compressed air connection Compressed air connection input Compressed air connection output Compressed air connection, exhaust Compressed air connection pilot input

Nominal flow Qn Flow conductance b Flow conductance C Industrial Electrically Operating voltage 24 V DC Spool valve, positive overlapping NC/NC Double Solenoid Soft seal Pipe connection with detent

according to ISO 228-1 G 1/4 G 1/4 G 1/4 M5

1100 l/min 0.25 5.9 l/(s*bar)



R422102181

Min. working pressure	-0.9 bar
Max. working pressure	10 bar
Min. control pressure	3 bar
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 Coil width Pilot valve width LED status display Power consumption DC Nominal resistance	External Internal 15.6 mm 15 mm Yellow 2.2 W 280 Ω
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	16 ms
Generic immunity standard in accordance with	EN 50082-2
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 μm
Mounting on manifold strip	P-strip
Mounting screw tightening torque	2.5 Nm
Tightening torque tolerance	±0,2 mT



2x3/2-directional valve, Series TC15

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Weight

0.279 kg

Mate	rial
IVIALE	i i di
TVIC CO	- i ai

Housing material Seal material

Material threaded bushing

Material front plate

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

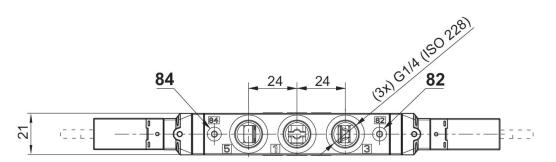
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

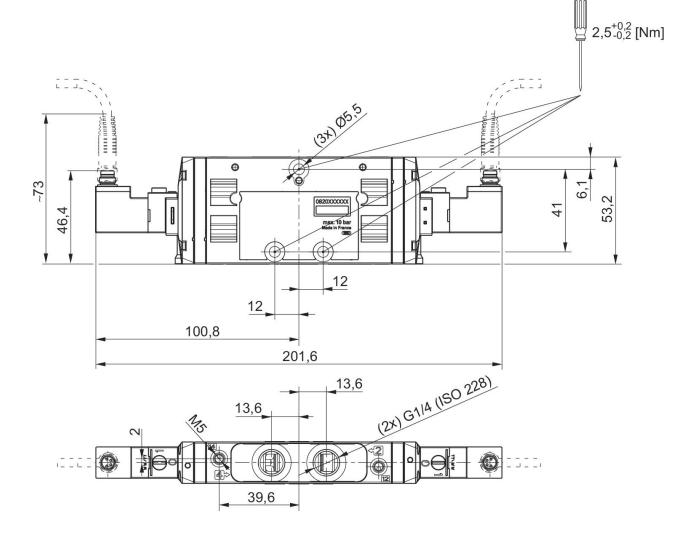


2x3/2-directional valve, Series TC15

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Dimensions





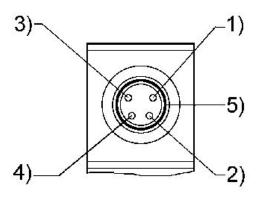


2x3/2-directional valve, Series TC15

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Series TC15 2024-05-06

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

