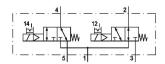
AVENTICS Series TC15 Directional valves

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

Nominal flow Qn Flow conductance b Flow conductance C Industrial Electrically Operating voltage 24 V DC Spool valve, positive overlapping NC/NO Double Solenoid Soft seal Pipe connection with detent

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

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



R422102192

Min. working pressure Max. working pressure Min. control pressure Max. control pressure	3 bar 10 bar 3 bar 10 bar
Electrical connection type Electrical connection size Electrical connection number of poles Connector standard Protection class acc. to DIN EN 61140 Protection class with connection Operational voltage Operational voltage DC Voltage tolerance DC	Plug M8 3-pin DIN EN 60947-5-2 Class III IP65 24 V DC 24 V -10% / +10%
Pilot Coil width	External Internal 15.6 mm
Pilot valve width	15 mm
LED status display	Yellow
Power consumption DC Nominal resistance	2.2 W 280 Ω
Duty cycle Typ. switch-on time Typ. switch-off time	100 % 12 ms 16 ms
Min. ambient temperature Max. ambient temperature	-10 °C 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 on manifold strip	P-strip
Mounting screw tightening torque	2.5 Nm
Tightening torque tolerance	±0,2 mT
Weight	0.279 kg



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Material

Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber
Material threaded bushing	Brass Die cast zinc
Material front plate	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.

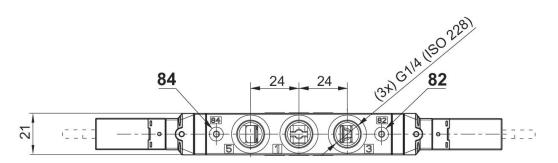
The oil content of compressed air must remain constant during the life cycle.

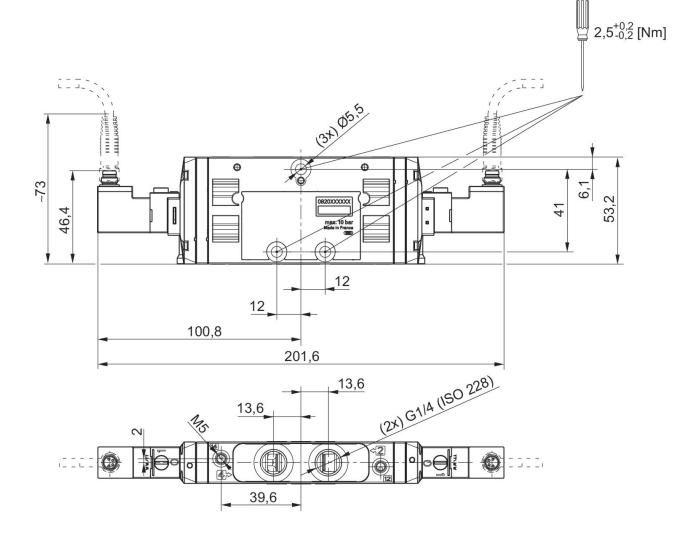
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



2x3/2-directional valve, Series TC15

Dimensions





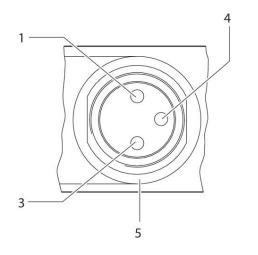


2x3/2-directional valve, Series TC15

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Series TC15 2024-05-06

PIN assignment and cable colors for valve plug connectors



PIN assignment: 1) PIN not assigned 3) 0 V 4) 24 V 5) LED Cable color 1) Brown 3) Blue 4) Black Note: Bi-polar protective circuit to prevent overvoltage

