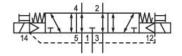
AVENTICS Series TC15 Directional valves

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

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

Min. working pressure Max. working pressure Min. control pressure Max. control pressure Industrial Electrically Operating voltage 24 V DC Spool valve, positive overlapping Exhausted Center Double Solenoid Soft seal Pipe connection without detent

G	1/4	
G	1/4	
G	1/4	
M5	5	
13	00	l/n
0 3	21	

1300 l/min 0.31 5.9 l/(s*bar)

-0.9 bar 10 bar 3 bar 10 bar



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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	External
Coil width	15.6 mm
Pilot valve width	15 mm
LED status display	Yellow
Power consumption DC	2.2 W
Nominal resistance	280 Ω
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	13 ms
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 on manifold strip	P-strip
Mounting screw tightening torque	2.5 Nm
Weight	0.279 kg

Material

Housing material Seal material

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



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Material threaded bushing

Material front plate

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.

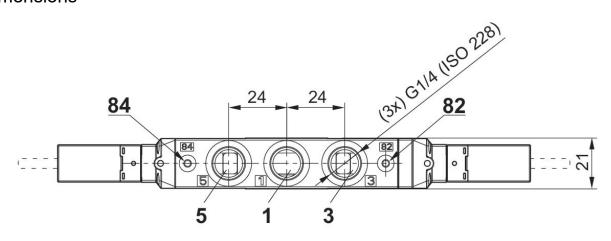
The oil content of compressed air must remain constant during the life cycle.

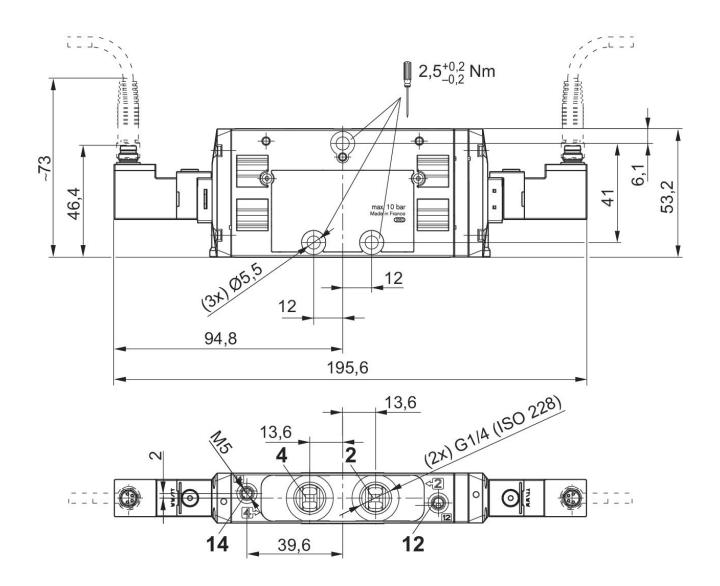
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

2024-05-06

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Dimensions



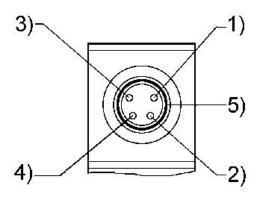




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Series TC15 2024-05-06

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

