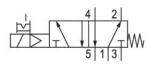
AVENTICS Series TC15 Directional valves

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			
	Industrial		
Industry			
Activation	Electrically		
Note	Operating voltage 24 V DC		
Valve type	Spool valve, positive overlapping		
Actuating control	Single Solenoid		
Sealing principle	Soft seal		
Connection type	Pipe connection		
Manual override	with detent		
Compressed air connection input	G 1/4		
Compressed air connection output	G 1/4		
Compressed air connection, exhaust	G 1/4		
Nominal flow Qn	1500 l/min		
Flow conductance b	0.33		
Flow conductance C	6.8 l/(s*bar)		
Min. working pressure	3 bar		
Max. working pressure	10 bar		



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Series	
TC15	
2024-05-06	

		202
Min. control pressure	3 bar	
Max. control pressure	10 bar	
Electrical connection type	Plug	
Electrical connection size	M8	
Electrical connection number of poles	3-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	Internal	
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	35 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	0.235 kg	
0		

Material Housing material

Polyamide fiber-glass reinforced



R422100988

Seal material

Material threaded bushing

Material front plate

Acrylonitrile butadiene rubber Hydrogenated nitrile butadiene rubber Brass Die cast zinc Polyamide fiber-glass reinforced

Part No.

R422100988

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.

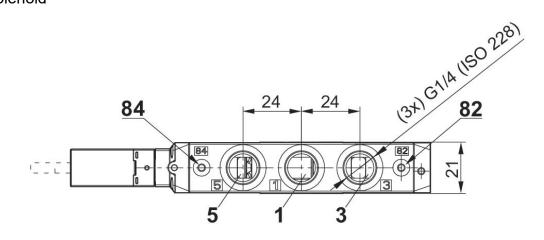
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

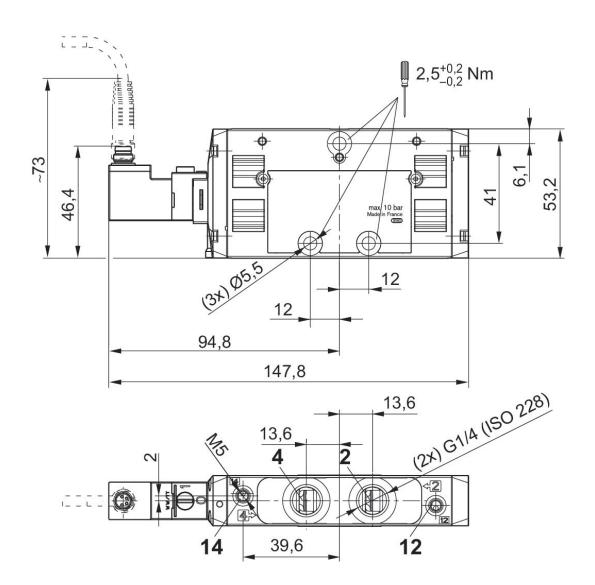


Series

Series TC15 2024-05-06

Dimensions Single Solenoid



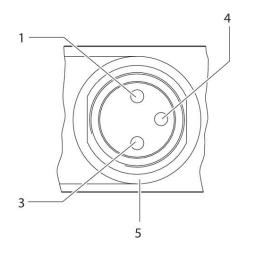




R422100988

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

