

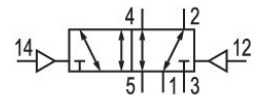
5/2-directional valve, Series TC15

0820258003

Series
TC15

2025-12-18

AVENTICS Series TC15 Directional valves



Technical data

Industry	Industrial
Activation	Pneumatically
Valve type	Spool valve, positive overlapping
Switching principle	5/2, double air pilot
Sealing principle	Soft seal
Connection type	Pipe connection
Compressed air connection input	G 1/4
Compressed air connection output	G 1/4
Compressed air connection, exhaust	G 1/4
Compressed air connection pilot input	M5
Nominal flow Q _n	1500 l/min
Flow conductance b	0.33
Flow conductance C	6.8 l/(s*bar)
Min. working pressure	-0.9 bar
Max. working pressure	10 bar
Min. control pressure	2 bar

5/2-directional valve, Series TC15

0820258003

Series
TC15

2025-12-18

Max. control pressure	10 bar
Pilot	External
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
Weight	0.188 kg

Material

Housing material	Polyamide, fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Polyamide, fiber-glass reinforced
Material threaded bushing	Brass
Surface threaded bushing	Die cast zinc chrome-plated nickel-plated
Part No.	0820258003

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>).

5/2-directional valve, Series TC15

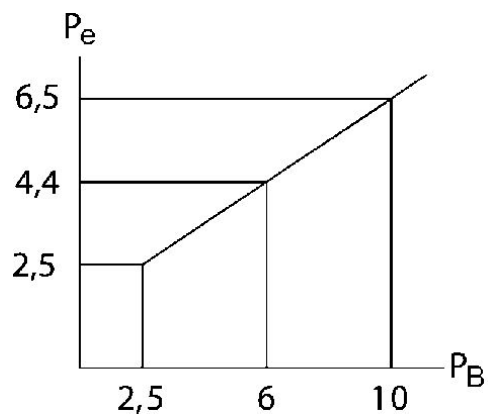
0820258003

Series

TC15

2025-12-18

Control pressure



P_e = external control pressure, min.

P_B = Working pressure

5/2-directional valve, Series TC15

0820258003

Series

TC15

2025-12-18

Dimensions

