

5/2-directional valve, Series TC15

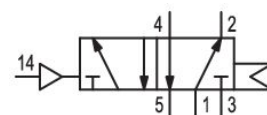
0820258001

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, with air spring return

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

2.5 bar

Max. working pressure

10 bar

Min. control pressure

2.5 bar

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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
	Die cast zinc
Surface threaded bushing	chrome-plated
	nickel-plated
Part No.	0820258001

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>).

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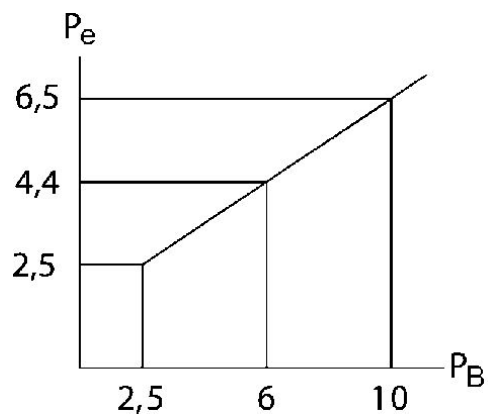
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Control pressure



P_e = external control pressure, min.

P_B = Working pressure

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Dimensions

