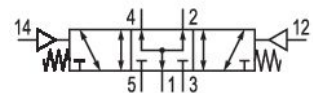
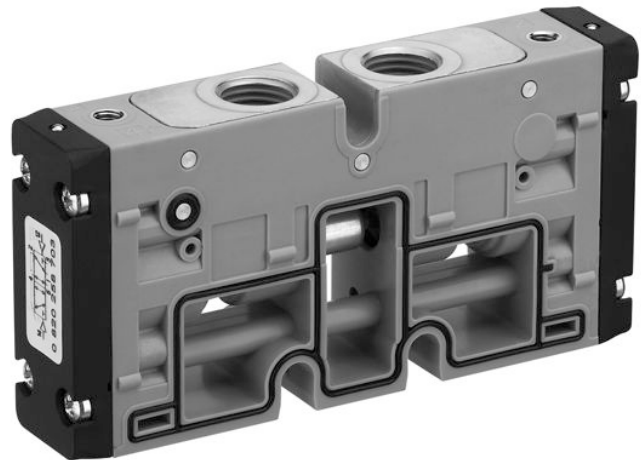


AVENTICS Series TC15 Directional valves

The AVENTICS Series TC15 valve system is the perfect choice for applications calling for lightweight valves with high flow rate in a small space. With valves operated either pneumatically or electrically, the valve system can be modularly expanded to up to 12 valves. Valves can be exchanged without dismantling the valve block.

- $Q_n = 1100 \text{ l/min} \dots 1500 \text{ l/min}$
- 2x3/2, 5/2, 5/3 Spool valves with polyamide housing
- Pneumatic connection G1/4, 1/4-18 NPTF
- Working pressure min./max. -0.9/10 bar
- Voltage 12 V DC, 24 V DC, 24 V AC, 110 V AC, 230 V AC
- Electrical connection ISO form C, M8 3-pin; M8 4-pin



Technical data

Industry

Activation

Valve type

Switching principle

Valve function

Sealing principle

Connection type

Industrial

Pneumatically

Spool valve, positive overlapping

5/3, pressurized center

Pressurized Center

Soft seal

Plate connection

Pipe connection

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

Compressed air connection pilot input

G 1/4

G 1/4

G 1/4

M5

Nominal flow Q_n

Flow conductance b

Flow conductance C

1300 l/min

0.31

5.9 l/(s*bar)

Min. working pressure

-0.9 bar

5/3-directional valve, Series TC15

0820259703

Series

TC15

2025-12-18

Max. working pressure	10 bar
Min. control pressure	3 bar
Max. control pressure	10 bar
Pilot	External
Blocking principle	Plate principle
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Medium	Compressed air Compressed air
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	1 mg/m ³
Max. particle size	5 µm
Rail mounting DIN EN 60715	TH35 x 15
Weight	0.174 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.	0820259703

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>).

5/3-directional valve, Series TC15

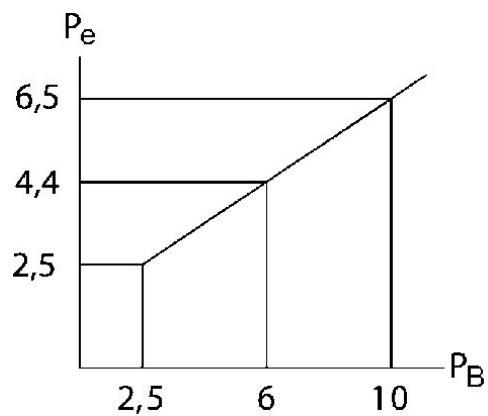
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Series

TC15

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Control pressure



P_e = external control pressure, min.

P_B = Working pressure