

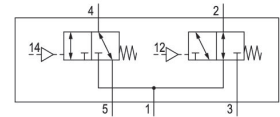
2x3/2-directional valve, Series TC15

R422102231

Series
TC15

2025-12-18

AVENTICS Series TC15 Directional valves



Technical data

Industry	Industrial
Activation	Pneumatically
Valve type	Spool valve
Switching principle	2x 3/2 NC/NO, with spring return
Valve function	NC/NO
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 Qn	1100 l/min
Flow conductance b	0.25
Flow conductance C	5.9 l/(s*bar)
Min. working pressure	-0.9 bar
Max. working pressure	10 bar

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Min. control pressure	3 bar
Max. control pressure	10 bar
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	0.208 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.	R422102231

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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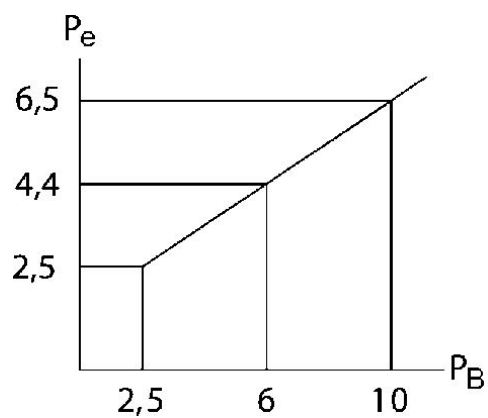
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Control pressure



P_e = external control pressure, min.

P_B = Working pressure

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Technical drawing of the 0820XXXXX pressure washer, showing front and top views with dimensions and assembly instructions.

Front View Dimensions:

- Overall width: 118
- Distance between mounting holes: 24
- Mounting hole diameter: $\varnothing 5$
- Top mounting hole diameter: $\varnothing 8.4$
- Bottom mounting hole diameter: $\varnothing 8.2$
- Thread specification: (3x) G1/4 (ISO 228)

Top View Dimensions:

- Overall width: 118
- Overall height: 53.2
- Distance between mounting holes: 12
- Distance between mounting holes (center-to-center): 24
- Distance between mounting holes (edge-to-edge): 59
- Distance between mounting holes (edge-to-center): 12
- Distance between mounting holes (center-to-center): 41
- Distance between mounting holes (edge-to-center): 6.1
- Mounting hole diameter: $\varnothing 5.5$
- Top mounting hole diameter: $\varnothing 8.4$
- Bottom mounting hole diameter: $\varnothing 8.2$
- Thread specification: (3x) G1/4 (ISO 228)

Assembly Instructions:

- Use a screwdriver to tighten the screws.
- Tightening torque: $2.5^{+0.2}_{-0.2}$ Nm

Internal Components:

- Motor unit (0820XXXXX)
- Max. 10 bar pressure rating
- Made in France

