

Single subbase, Series ES05

R422103850

2025-10-22

AVENTICS Series ES05 Valve systems

The AVENTICS Series ES05 is ideal for standard pneumatic applications. Its simplicity and modularity make it especially well-suited for applications that require quick changes or extensions. Due to its modular system consisting of a limited number of components and the one-tool concept, the ES05 is also easy to assemble in-house.



Technical data

Industry

Activation

Switching principle

Actuating control

Manual override

Industrial

Electrically

3/2, with air spring return

Single Solenoid

without detent

Compressed air connection input

Ø 8

Compressed air connection output

Base plate

Compressed air connection, exhaust

Ø 8

Min. working pressure

3 bar

Max. working pressure

8 bar

Electrical connection size

M8

Electrical connection number of poles

3-pin

Protection class with connection

IP65

Operational voltage

24 V DC

Operational voltage DC

24 V

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Voltage tolerance DC	-15 % / +10 %
Power consumption DC	2 W
Duty cycle	100 %
Min. ambient temperature	5 °C
Max. ambient temperature	50 °C
Min. medium temperature	5 °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	40 µm

Material

Housing material	Polyamide Polyoxymethylene
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Part No.	R422103850
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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>).

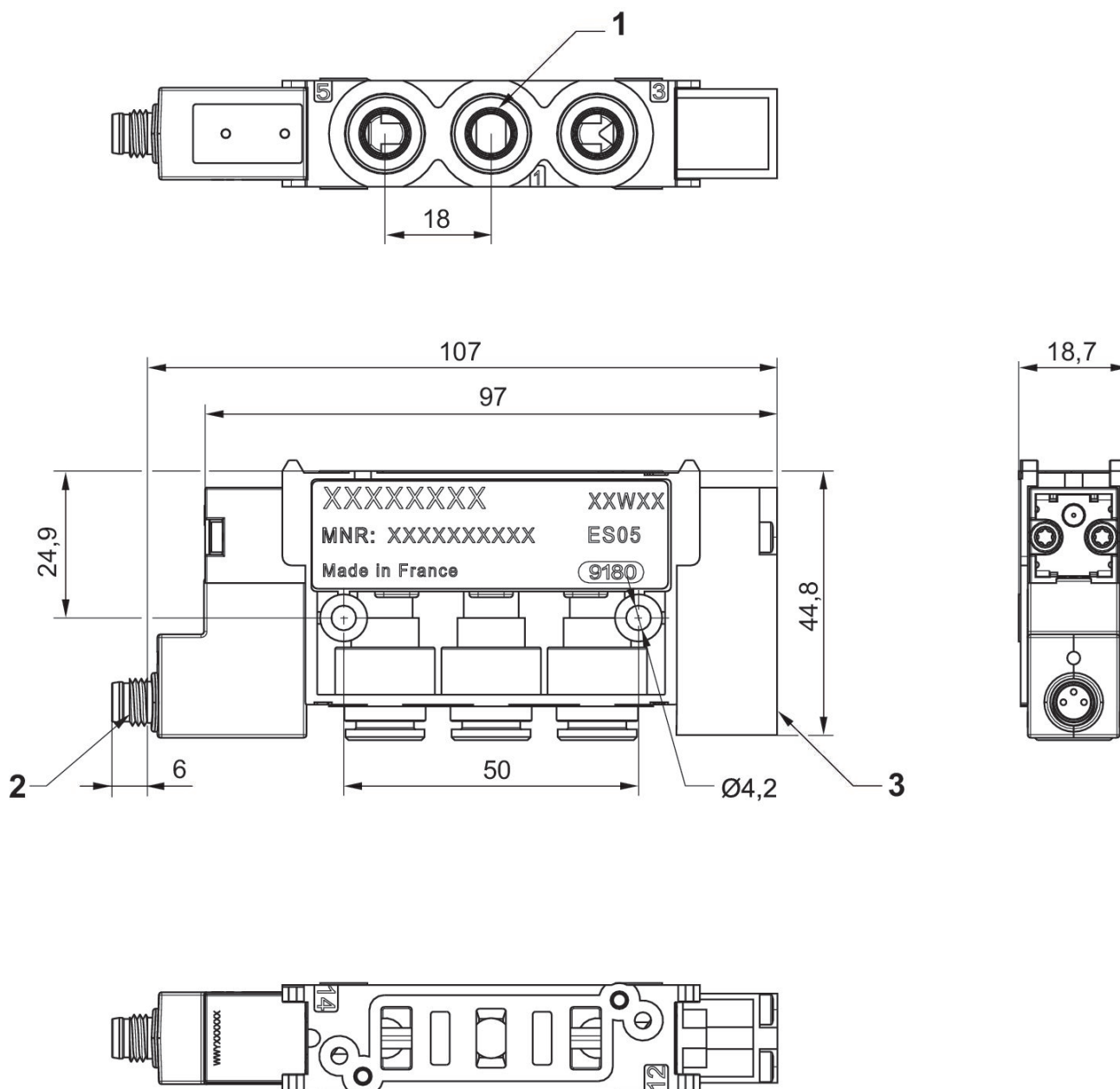
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Dimensions

Double Solenoid



1) Connections [1, 3, 5] Ø 8

2) Pilot valve with external electrical control: M8x1

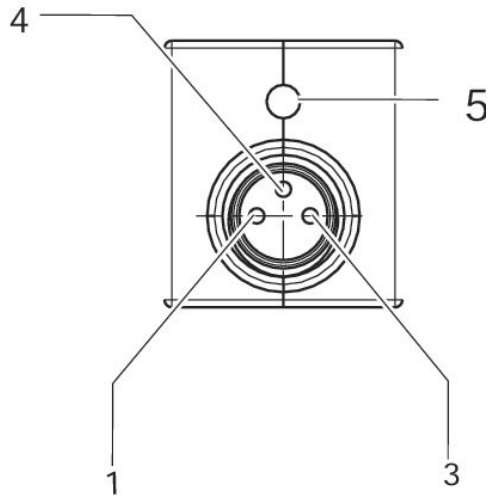
3) Pilot blanking plate

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PIN assignment for valve plug connectors



Pin assignment (1) Pin not assigned (3) 0 V (4) 24 V (5) LED Note: Bipolar protective circuit to prevent overvoltage