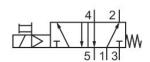
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AVENTICS Series ES05 Valve systems

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 Industrial Activation Electrically

Switching principle 5/2, with spring return
Actuating control Single Solenoid
Manual override without detent

Compressed air connection input Ø 3/8
Compressed air connection output Ø 3/8
Compressed air connection, exhaust Ø 3/8

Nominal flow Qn 610 I/min

Min. working pressure 3 bar Max. working pressure 8 bar

Electrical connection size M8x1
Electrical connection number of poles 3-pin
Protection class with connection IP65
Operational voltage 24 V DC
Operational voltage DC 24 V

Voltage tolerance DC -15% / +10%

Power consumption DC 2 W

Duty cycle 100 %
Switch-on time <20
Switch-off time <35

Min. ambient temperature5 °CMax. ambient temperature50 °CMin. medium temperature5 °C

5/2-directional valve, Series ES05 -inch

2024-04-02

R422103859

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 μ m

Material

Housing material Polyamide fiber-glass reinforced Seal material Acrylonitrile butadiene rubber

Part No. R422103859

Technical information

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

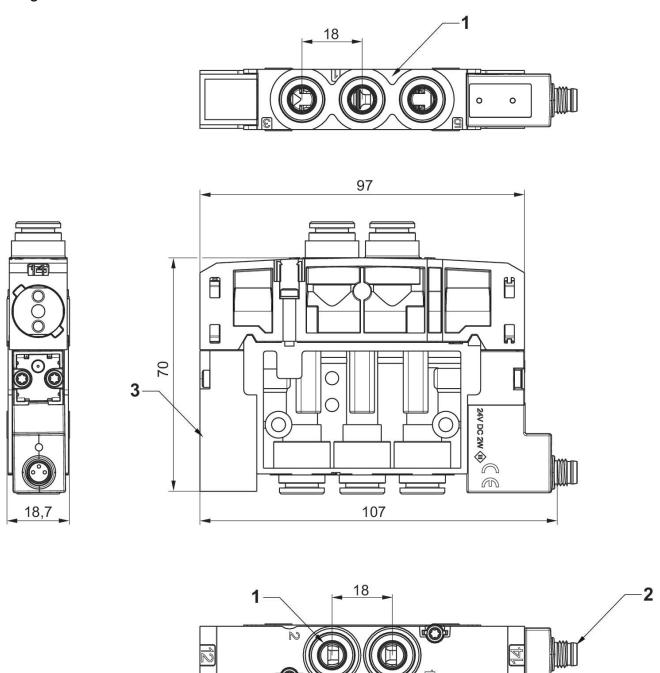
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

The oil content of compressed air must remain constant during the life cycle.

Exhaust air throttling may only be used in operating lines

Fig. 1

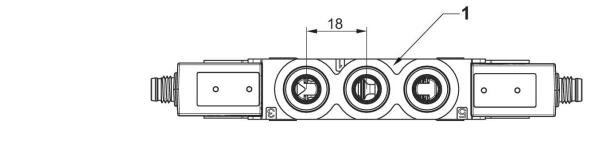
Single Solenoid

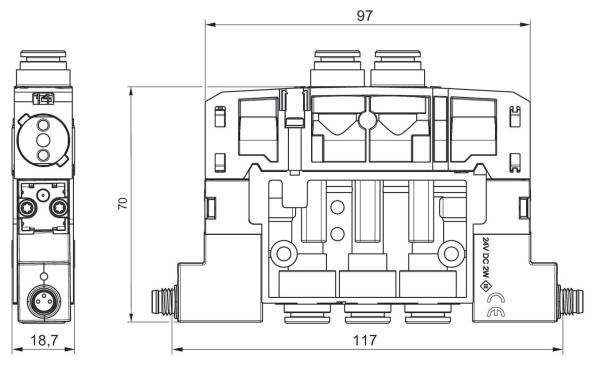


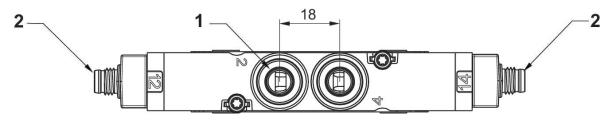
- 1) Connections [1 ,3 ,5, 2, 4] Ø 3/8
- 2) 2 pilot valves with external electrical connection M8x1 3) Pilot blanking plate

Fig. 2

Double Solenoid



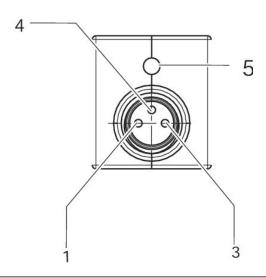




¹⁾ Connections [1,3,5,2,4] Ø 3/8 2) 2 pilot valves with external electrical connection M8x1

R422103859

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