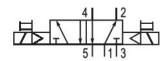
#### R422103860

#### **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, double solenoid
Actuating control Double 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 <20

# 5/2-directional valve, Series ES05 -inch

2024-04-02

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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  $\mu$ m

#### Material

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

Part No. R422103860

#### Technical information

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

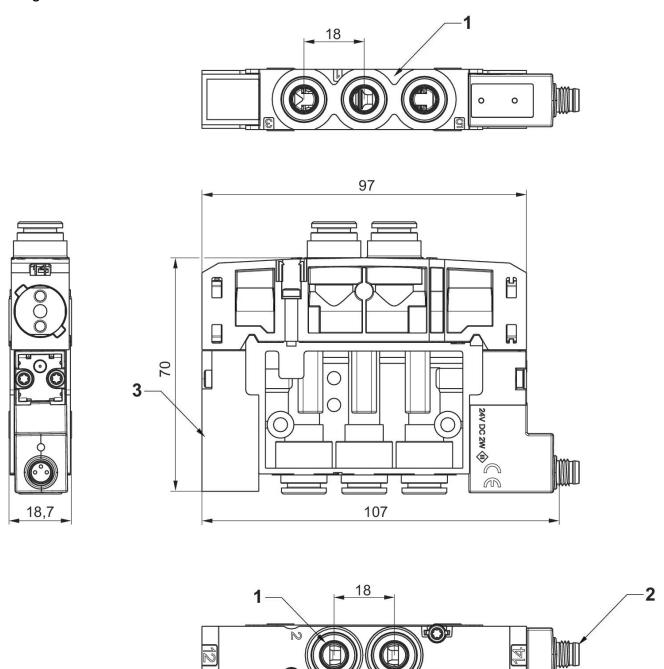
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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

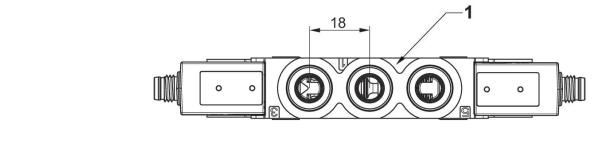


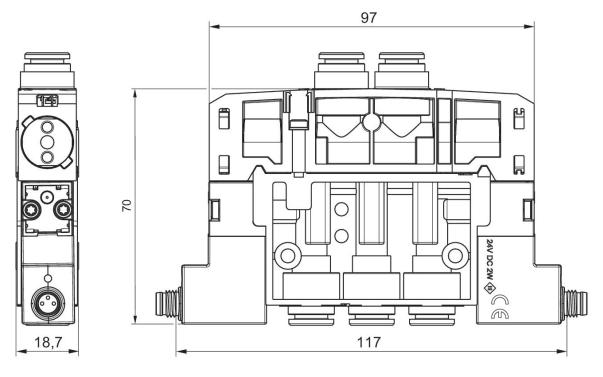
<sup>1)</sup> Connections [1 ,3 ,5, 2, 4] Ø 3/8

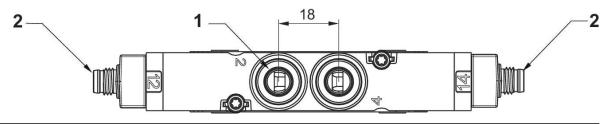
Fig. 2

<sup>2) 2</sup> pilot valves with external electrical connection M8x1 3) Pilot blanking plate

#### Double Solenoid



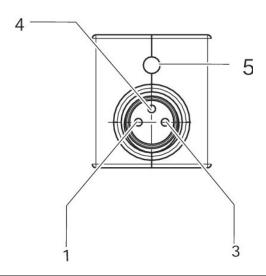




<sup>1)</sup> Connections [1,3,5,2,4] Ø 3/8 2) 2 pilot valves with external electrical connection M8x1

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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