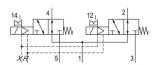
## **Series AV05**

The AVENTICS Series AV03/AV05 provide a reliable basis for both compact handling systems and complex automation solutions. Within machine safety the Series AV03/AV05 offers intelligent solutions that significantly reduce your effort in creating a safe design. With the integration of the fieldbus and I/O-modules of the Series AES, also all requirements for distributed control are available. The Series AV03/AV05 is easy to configure, easy to use and easy to extend as well as IIoT futureproof thanks to the integration of OPC UA and the Digital Twin





# Technical data

Industry Industrial Activation Electrically

Valve type Spool valve, positive overlapping
Switching principle 2x 3/2 NO/NO with spring return

Switching principle 2x 3/2 NO/NO, with spring return Valve function NO/NO

Valve function NO/NO
Actuating control Double Solenoid

Sealing principle Soft seal

Connection type Plate connection

Manual override with detent

Pilot control exhaust With collective pilot air exhaust

Nominal flow Qn 600 I/min
Nominal flow Qn 1 to 2 600 I/min
Nominal flow Qn 2 to 3 520 I/min
Flow conductance b 0.45

Flow conductance C 2.07 l/(s\*bar)

Min. working pressure -0.9 bar

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Max. working pressure10 barMin. control pressure3 barMax. control pressure8 bar

Protection class with connection IP65
Operational voltage 24 V DC
Operational voltage DC 24 V

Voltage tolerance DC -10% / +10%

Pilot External LED status display Yellow Power consumption DC 0.55 W

Duty cycle 100 %
Typ. switch-on time 16 ms
Typ. switch-off time 25 ms

Blocking principle Base plate principle, multiple

Min. ambient temperature -10 °C

Max. ambient temperature 60 °C

Min. medium temperature -10 °C

Max. medium temperature 60 °C

Medium Compressed air

Min. oil content of compressed air 0 mg/m³
Max. oil content of compressed air 5 mg/m³
Max. particle size 40 µm

Mounting screws Hexalobular socket (TORX) ISO 10664-8

Mounting screw tightening torque 0.5 Nm
Tightening torque tolerance ±0,1 mT
Weight 0.064 kg

#### Material

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

Hydrogenated acrylonitrile butadiene rubber

Material end plate Polyamide fiber-glass reinforced

Part No. R422103008

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# Technical information

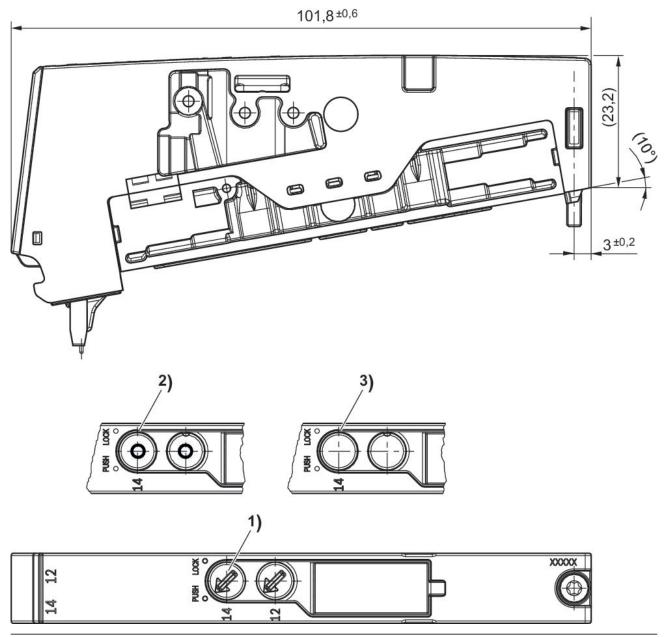
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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).

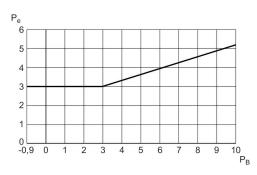
# **Dimensions**



- Manual override: with detent
   manual override: without detent
   Manual override: without detent

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Control pressure: see diagram for min., max. 8 bar



P<sub>B</sub> = Working pressure
Pe = external control pressure, min.