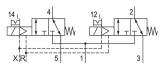
2x3/2-directional valve, Series AV05 R422103006

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 Activation Valve type Switching principle Valve function Actuating control Sealing principle Connection type Manual override

Pilot control exhaust

Nominal flow Qn Nominal flow Qn 1 to 2 Nominal flow Qn 2 to 3 Flow conductance b Flow conductance C

Min. working pressure

Industrial Electrically Spool valve, positive overlapping 2x 3/2 NC/NC, with spring return NC/NC Double Solenoid Soft seal Plate connection with detent

With collective pilot air exhaust

650 I/min 650 I/min 520 I/min 0.38 2.46 I/(s*bar)

-0.9 bar



2x3/2-directional valve, Series AV05

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Max. working pressure

2024-03-19

Min. control pressure	3 bar
Max. control pressure	8 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	0.066 kg
Material	
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
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10 bar

Material end plate Part No.

Polyamide fiber-glass reinforced Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber Polyamide fiber-glass reinforced R422103006



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.

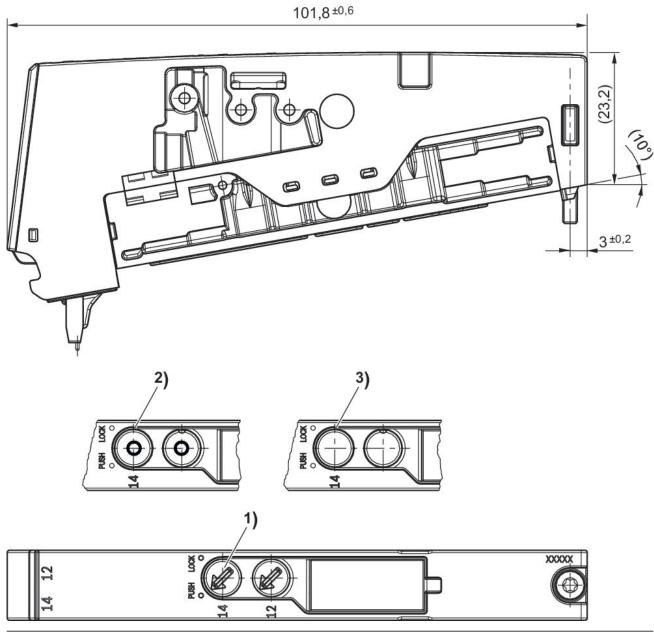
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



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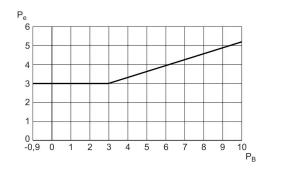
Dimensions



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_B = Working pressure Pe = external control pressure, min.

