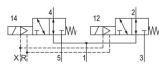
2x3/2-directional valve, Series AV05 R422103081

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 NO/NO, with spring return NO/NO Double Solenoid Soft seal Plate connection without

With collective pilot air exhaust

600 I/min 600 I/min 520 I/min 0.45 2.07 I/(s*bar)

-0.9 bar



2x3/2-directional valve, Series AV05

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Max. working pressure Min. control pressure Max. control pressure

Operational voltage Operational voltage DC Voltage tolerance DC

LED status display Power consumption DC

Typ. switch-on time Typ. switch-off time

Pilot

Duty cycle

Protection class with connection

10 bar 3 bar 8 bar
IP65 24 V DC 24 V -10% / +10%
External Yellow 0.55 W
100 % 16 ms 25 ms

Blocking principle Min. ambient temperature Max. ambient temperature Min. medium temperature Max. medium temperature Medium Min. oil content of compressed air Max. oil content of compressed air Max. particle size

Mounting screws Mounting screw tightening torque Tightening torque tolerance Weight Base plate principle, multiple -10 °C 60 °C -10 °C 60 °C Compressed air 0 mg/m³ 5 mg/m³ 40 μm

Hexalobular socket (TORX) ISO 10664-8 0.5 Nm ±0,1 mT 0.064 kg

Material Housing material Seal material

Material end plate Part No.

Polyamide fiber-glass reinforced Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber Polyamide fiber-glass reinforced R422103081



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.

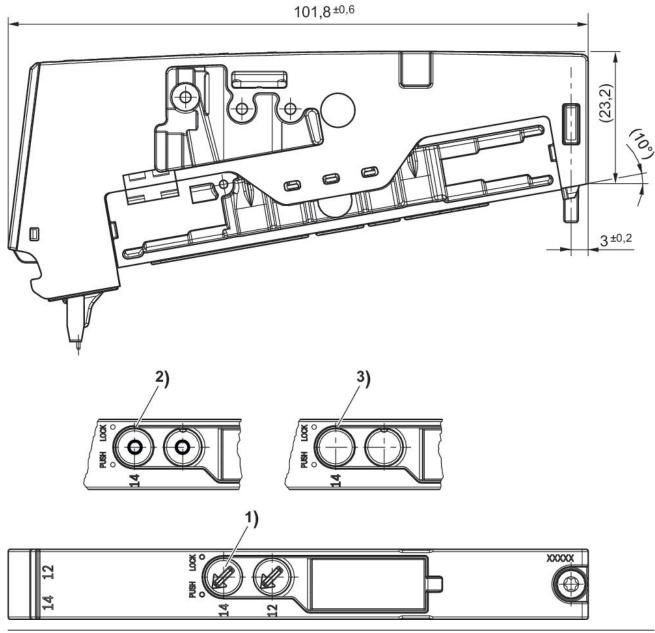
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



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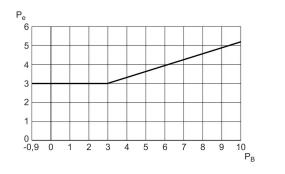
Dimensions



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.

