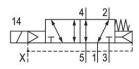
5/2-directional valve, Series AV05 R422103077

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 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 Max. working pressure

Industrial Electrically Spool valve, positive overlapping 2/2, with spring/air spring return Single Solenoid Soft seal Plate connection without

With collective pilot air exhaust

700 I/min 700 I/min 600 I/min 0.38 2.54 I/(s*bar)

-0.9 bar 10 bar



5/2-directional valve, Series AV05

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Material end plate

Part No.

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%
C	
Pilot	External
LED status display	Yellow
Power consumption DC	0.55 W
Duty cycle	100 %
Typ. switch-on time	17 ms
Typ. switch-off time	26 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/m ³
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	0.058 kg
Material	
Housing material	Polyamide fiber-glass reinforced
Seal material	Acrylonitrile butadiene rubber
	Hydrogenated acrylonitrile butadiene rubber

2024-03-19

Polyamide fiber-glass reinforced

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Technical information

The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

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).

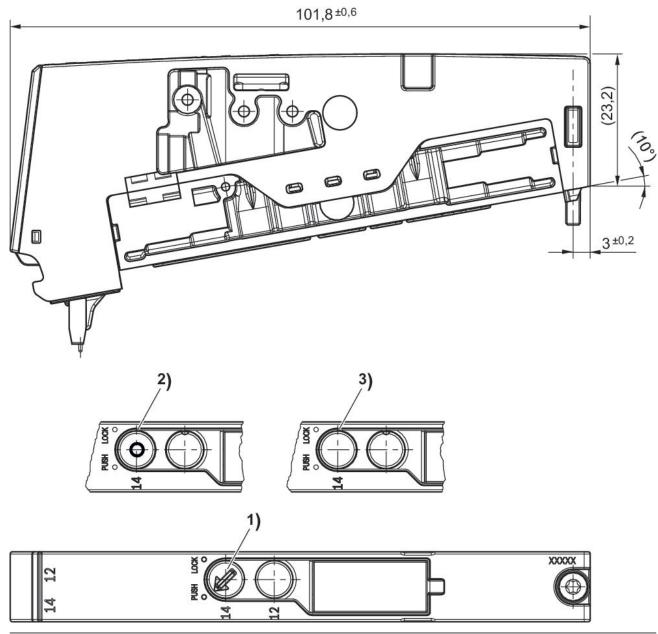
Dimensions



5/2-directional valve, Series AV05

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Single Solenoid



1) Manual override: with detent

2) manual override: without detent
3) Manual override: without detent

