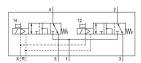
### 2x3/2-directional valve, Series AV03 R422102856

#### Series AV03

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

Compressed air connection input Compressed air connection output Compressed air connection, exhaust Pilot control exhaust

Nominal flow Qn Nominal flow Qn 1 to 2

Min. working pressure Max. working pressure Industrial Electrically Spool valve, negative overlapping 2x 3/2 NC/NC, with spring return Double Solenoid Soft seal Plate connection without detent

Base plate Base plate Base plate with directional pilot air exhaust

300 l/min 300 l/min

-0.9 bar 10 bar



# 2x3/2-directional valve, Series AV03

R422102856

Material end plate

Part No.

Min. control pressure	3 bar
Max. control pressure	8 bar
Protection class with connection	IP65
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
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	20 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
Material	
	Dolyomido fibor alogo reinforced
Housing material Seal material	Polyamide fiber-glass reinforced
	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubb
Material front plate	Polyamide fiber-glass reinforced
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Polyamide

R422102856

rubber

#### Technical information

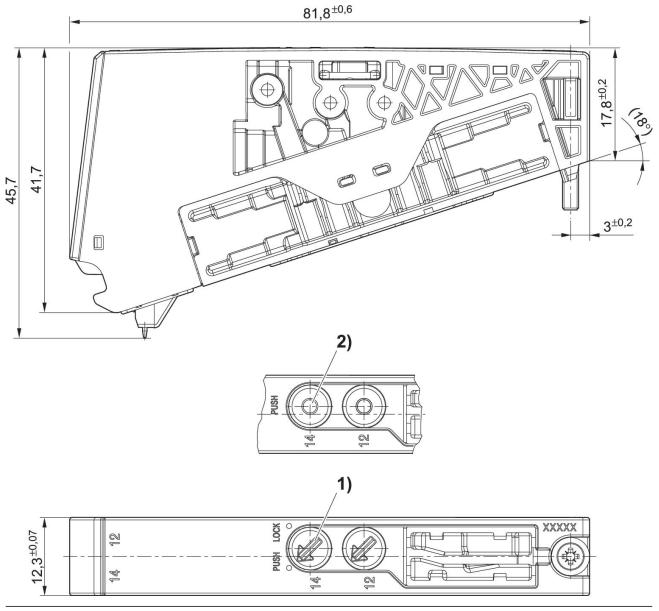
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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



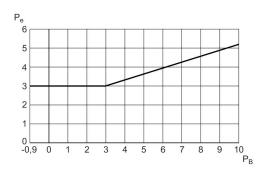
1) with detent

## 2x3/2-directional valve, Series AV03

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2) without detent

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



P<sub>B</sub> = Working pressure

Pe = external control pressure, min.

