



5/2-directional valve, Series AV03

- 5/2

- Qn = 300 I/min

- Plate connection

- Manual override : with detent without detent

- single solenoid double solenoid

- Pilot : External



Type Spool valve, positive overlapping

Activation Electrically
Pilot External

Sealing principle Soft sealing

Blocking principle Base plate principle, multiple

Working pressure min./max.

-0,9 ... 10 bar

Control pressure min./max.

3 ... 8 bar

Ambient temperature min./max.

-10 ... 60 °C

Medium temperature min./max.

-10 ... 60 °C

Compressed air

Max. particle size 40 µm

Oil content of compressed air 0 ... 5 mg/m³
Nominal flow Qn 300 l/min

Pilot control exhaust with directional pilot air exhaust

Protection class with connection IP65
Protective circuit Z-diode

Reverse polarity protection Protected against polarity reversal

LED status display Yellow
Duty cycle 100 %

mounting screws Hexalobular socket (TORX) ISO 10664-8

Mounting screw tightening torque 0,5 Nm

Weight See table below

Technical data

Part No.		MO	Operational	Voltage tolerance
			voltage	
			DC	DC
R422102503	**************************************	<u> </u>	24 V	-10% / +10%
R422102504	# 1 2 a		24 V	-10% / +10%
R422102426		<u> </u>	24 V	-10% / +10%
R422102424	M1 4 2) X 3 115 -		24 V	-10% / +10%
R422102427			24 V	-10% / +10%
R422102425	* 1 2 W		24 V	-10% / +10%

Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
R422102503	0,55 W	0,29	1,17 l/(s*bar)	10 ms
R422102504	0,55 W	0,29	1,17 l/(s*bar)	10 ms
R422102426	0,55 W	0,29	1,17 l/(s*bar)	8 ms
R422102424	0,55 W	0,29	1,17 l/(s*bar)	12 ms
R422102427	0,55 W	0,29	1,17 l/(s*bar)	8 ms



Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
R422102425	0,55 W	0,29	1,17 l/(s*bar)	12 ms

Part No.	Typ. switch-off time	Weight
R422102503	17 ms	0,045 kg
R422102504	17 ms	0,045 kg
R422102426	8 ms	0,048 kg
R422102424	17 ms	0,043 kg
R422102427	8 ms	0,048 kg
R422102425	17 ms	0,043 kg

Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

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 under 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 the MediaCentre).

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

Technical information

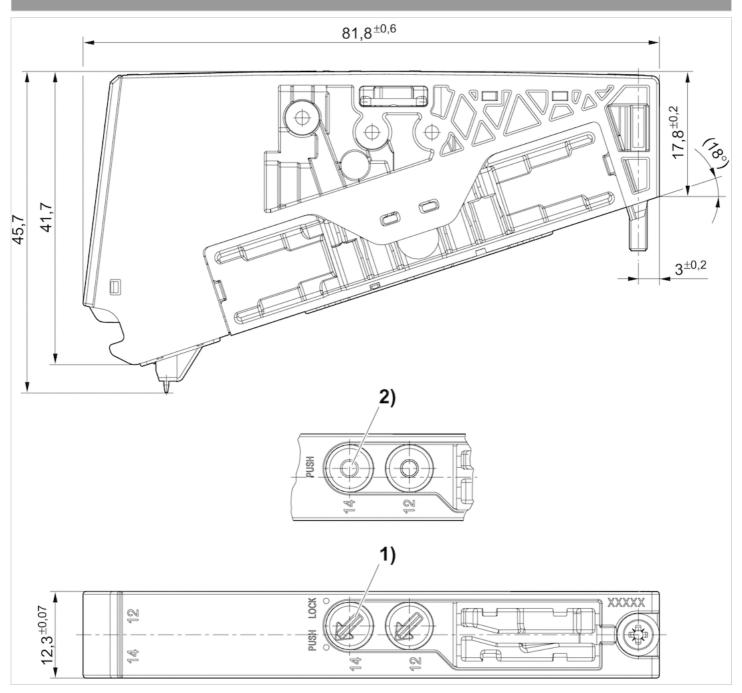
Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
Front plate	Polyamide fiber-glass reinforced
End plate	Polyamide





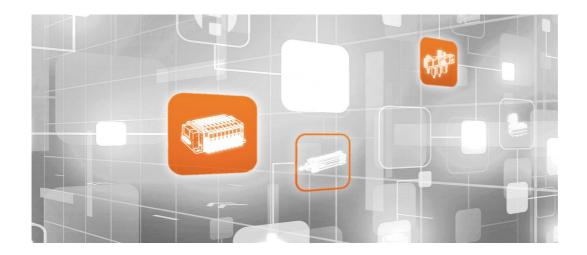
Dimensions

Dimensions



- 1) with detent
- 2) without detent

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