

5/3-directional valve, Series AV05

- 5/3
- Qn = 650 l/min
- closed center
- Plate connection
- Manual override : with detent without detent without

double solenoidPilot : 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 $0 \dots 5 \text{ mg/m}^3$ Nominal flow Qn 650 l/minNominal flow $1 \triangleright 2$ 650 l/minNominal flow $2 \triangleright 3$ 520 l/min

Pilot control exhaust With collective pilot air exhaust

Protection class with connection IP65
LED status display Yellow
Duty cycle 100 %
Typ. switch-on time 13 ms
Typ. switch-off time 13 ms

mounting screws Hexalobular socket (TORX) ISO 10664-8

Technical data

Part No.	МО		Operational	Voltage tolerance
			voltage	
			DC	DC
R422103004		closed center	24 V	-10% / +10%
R422103005		closed center	24 V	-10% / +10%
R422103079	_	-	24 V	-10% / +10%

Part No.	Power consumption	Flow conductance	Flow conductance
	DC	b	C-value
R422103004	0,55 W	0,37	2,49 l/(s*bar)
R422103005	0,55 W	0,37	2,49 l/(s*bar)
R422103079	0,55 W	0,37	2,49 l/(s*bar)



Nominal flow Qn at 6 bar and $\Delta p = 1$ 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

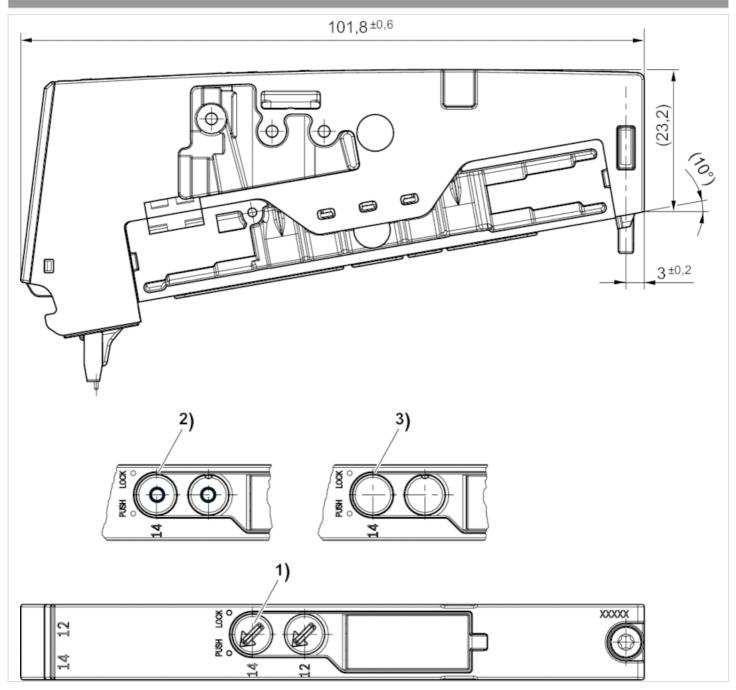
Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
End plate	Polyamide fiber-glass reinforced





Dimensions

Dimensions



- 1) Manual override: with detent
- 2) manual override: without detent
- 3) Manual override: without detent

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