
















# 5/2-directional valve, Series AV05

- 5/2
- $Q_n = 700 \text{ l/min}$
- Plate connection
- Manual override : with detent without detent without
- 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
Medium	Compressed air
Max. particle size	40 µm
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Nominal flow $Q_n$	700 l/min
Nominal flow 1 ► 2	700 l/min
Nominal flow 2 ► 3	600 l/min
Pilot control exhaust	With collective pilot air exhaust
Protection class with connection	IP65
LED status display	Yellow
Duty cycle	100 %
mounting screws	Hexalobular socket (TORX) ISO 10664-8
Mounting screw tightening torque	0,5 Nm
Tightening torque tolerance	±0,1 mT
Weight	See table below

## Technical data

Part No.		MO	Operational voltage	Voltage tolerance
			DC	DC
R422103000			24 V	-10% / +10%
R422103001			24 V	-10% / +10%
R422103077		—	24 V	-10% / +10%
R422103012			24 V	-10% / +10%
R422103013			24 V	-10% / +10%
R422103083		—	24 V	-10% / +10%
R422103002			24 V	-10% / +10%
R422103003			24 V	-10% / +10%
R422103078		—	24 V	-10% / +10%

Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
R422103000	0,55 W	0,38	2,54 l/(s*bar)	17 ms

Part No.	Power consumption	Flow conductance	Flow conductance	Typ. switch-on time
	DC	b	C-value	
R422103001	0,55 W	0,38	2,54 l/(s*bar)	17 ms
R422103077	0,55 W	0,38	2,54 l/(s*bar)	17 ms
R422103012	0,55 W	0,38	2,54 l/(s*bar)	16 ms
R422103013	0,55 W	0,38	2,54 l/(s*bar)	16 ms
R422103083	0,55 W	0,38	2,54 l/(s*bar)	16 ms
R422103002	0,55 W	0,38	2,54 l/(s*bar)	13 ms
R422103003	0,55 W	0,38	2,54 l/(s*bar)	13 ms
R422103078	0,55 W	0,38	2,54 l/(s*bar)	13 ms

Part No.	Typ. switch-off time	Weight
R422103000	26 ms	0,058 kg
R422103001	26 ms	0,058 kg
R422103077	26 ms	0,058 kg
R422103012	22 ms	0,061 kg
R422103013	22 ms	0,061 kg
R422103083	22 ms	0,061 kg
R422103002	13 ms	0,064 kg
R422103003	13 ms	0,064 kg
R422103078	13 ms	0,064 kg

Nominal flow Q<sub>n</sub> 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).

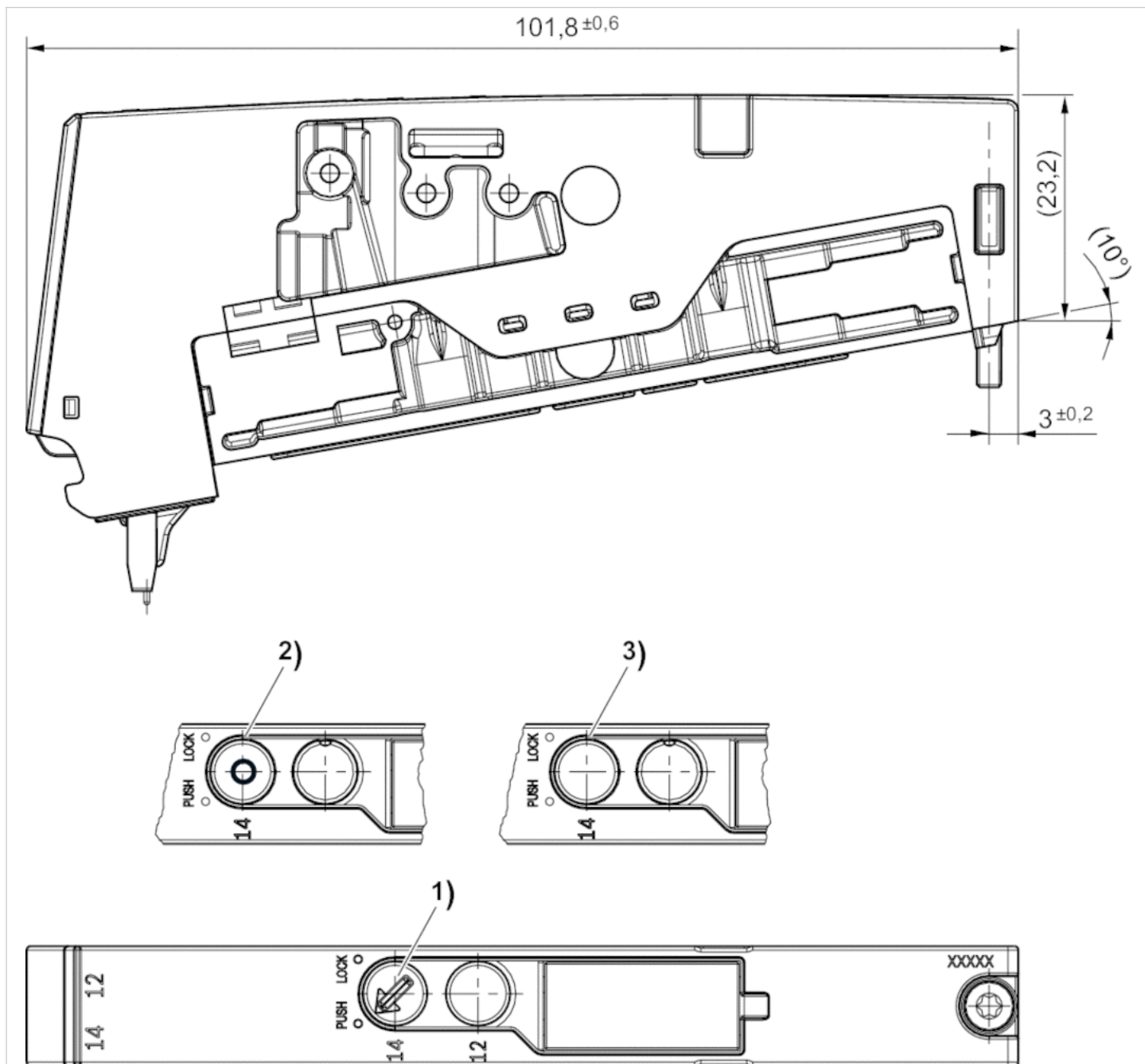
The pilot type (external/internal) is not implemented in the valve, but in the end plate of the valve system.

## Technical information

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

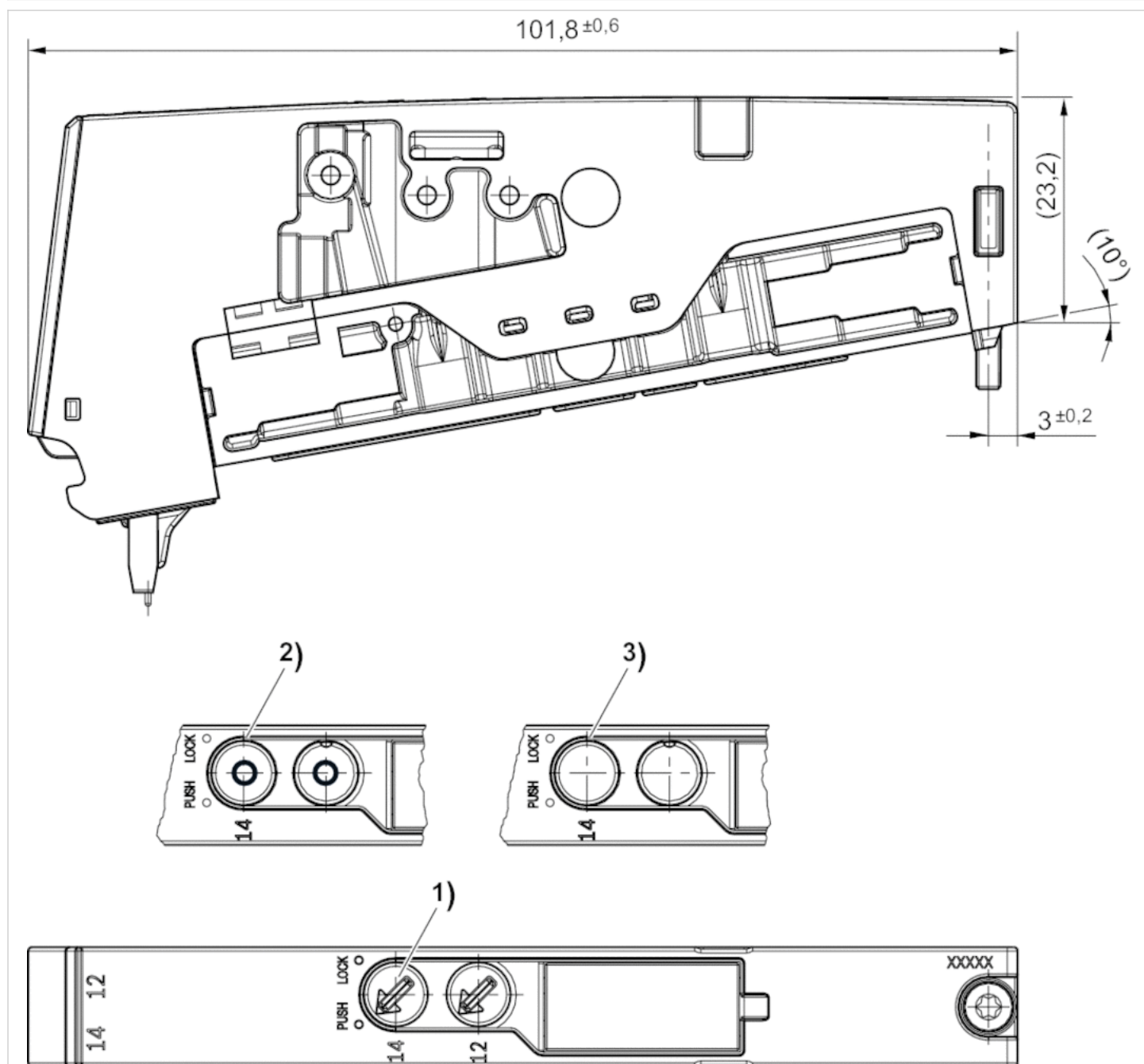
## Dimensions

### Dimensions, single solenoid



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

## Dimensions



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

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