



2x3/2-directional valve, Series AV05

- 2x3/2
- Qn = 600-650 l/min
- NC/NC NO/NO NC/NO
- 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 size40 μmOil content of compressed air0 ... 5 mg/m³Nominal flow QnSee table belowNominal flow 1 ▶ 2See table below

Nominal flow 2 ► 3 520 I/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 16 ms
Typ. switch-off time 25 ms

mounting screws Hexalobular socket (TORX) ISO 10664-8

Weight See table below

Technical data

Part No.		MO		Operational	Voltage tolerance
				voltage	
				DC	DC
R422103006			NC/NC	24 V	-10% / +10%
R422103007	della della		NC/NC	24 V	-10% / +10%
R422103080	(A)	_	NC/NC	24 V	-10% / +10%
R422103008	Bellin Bellin		NO/NO	24 V	-10% / +10%
R422103009	FEX. In Sex. In		NO/NO	24 V	-10% / +10%
R422103081		_	NO/NO	24 V	-10% / +10%
R422103010		<u> </u>	NC/NO	24 V	-10% / +10%
R422103011	3-11-1- 3-12-1		NC/NO	24 V	-10% / +10%
R422103082		_	NC/NO	24 V	-10% / +10%





Part No.	Power consumption	Flow conductance	Flow conductance	Nominal flow Qn
	DC	b	C-value	
R422103006	0,55 W	0,38	2,46 l/(s*bar)	650 l/min
R422103007	0,55 W	0,38	2,46 l/(s*bar)	650 l/min
R422103080	0,55 W	0,38	2,46 l/(s*bar)	650 l/min
R422103008	0,55 W	0,45	2,07 l/(s*bar)	600 l/min
R422103009	0,55 W	0,45	2,07 l/(s*bar)	600 l/min
R422103081	0,55 W	0,45	2,07 l/(s*bar)	600 l/min
R422103010	0,55 W	0,45	2,07 l/(s*bar)	650 l/min
R422103011	0,55 W	0,45	2,07 l/(s*bar)	650 l/min
R422103082	0,55 W	0,45	2,07 l/(s*bar)	650 l/min

Part No.	Nominal flow 1 ► 2	Weight
R422103006	650 l/min	0,066 kg
R422103007	650 l/min	0,066 kg
R422103080	650 l/min	0,066 kg
R422103008	600 l/min	0,064 kg
R422103009	600 l/min	0,064 kg
R422103081	600 l/min	0,064 kg
R422103010	650 l/min	0,065 kg
R422103011	650 l/min	0,065 kg
R422103082	650 l/min	0,065 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).

Technical information

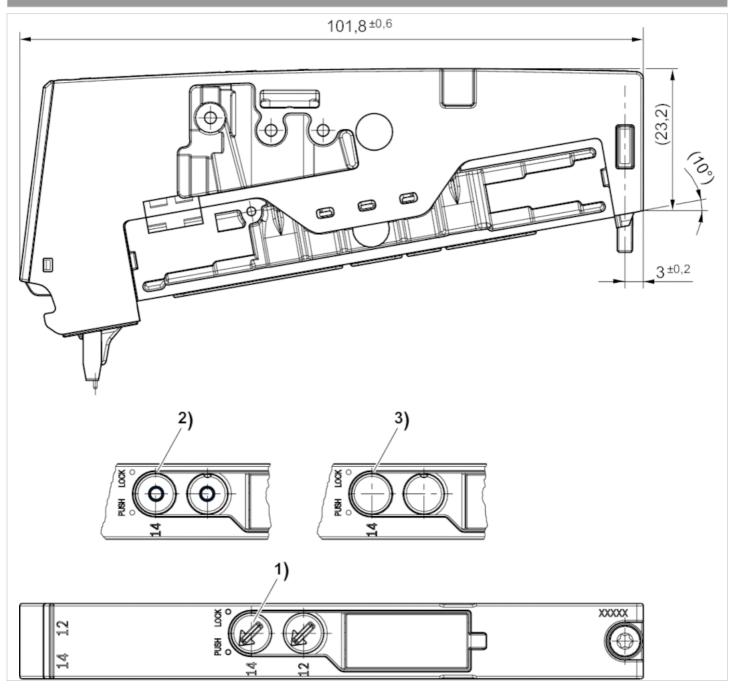
Material	
Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber Hydrogenated acrylonitrile butadiene rubber
End plate	Polyamide fiber-glass reinforced





Dimensions

Dimensions

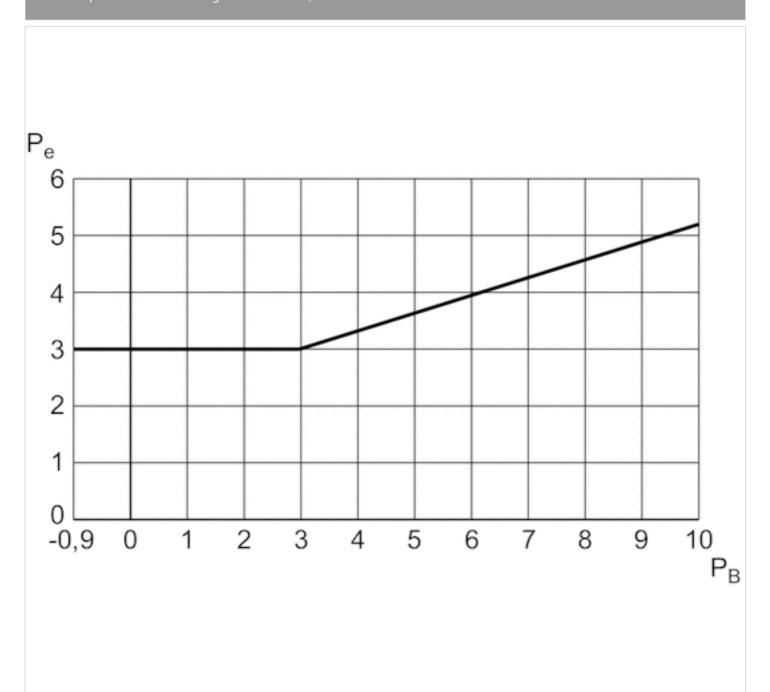


- 1) Manual override: with detent
- 2) manual override: without detent
- 3) Manual override: without detent



Diagrams

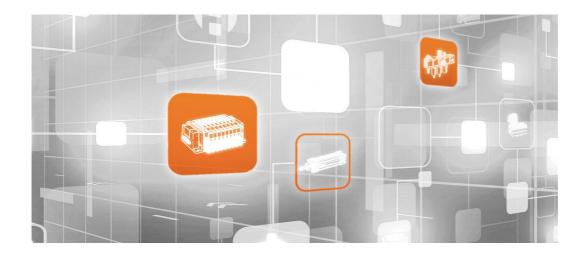
Control pressure: see diagram for min., max. 8 bar



PB= Working pressure

Pe = external control pressure, min.

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