

2x3/2-directional valve, Series AV03

- 2x3/2
- $Q_n = 250-300 \text{ l/min}$
- NC/NC NO/NO NC/NO
- Plate connection
- Manual override : with detent without detent
- double solenoid
- With spring return
- Pilot : External



Version	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^3
Nominal flow Q_n	See table below
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 %
Typ. switch-on time	16 ms
Typ. switch-off time	20 ms
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	Voltage tolerance
				DC	DC
R422102430			NC/NC	24 V	-10% / +10%
R422102432			NO/NO	24 V	-10% / +10%
R422102434			NC/NO	24 V	-10% / +10%
R422102431			NC/NC	24 V	-10% / +10%
R422102433			NO/NO	24 V	-10% / +10%
R422102435			NC/NO	24 V	-10% / +10%

Part No.	Power consumption	Flow conductance	Flow conductance	Nominal flow Q_n	Weight
	DC	b	C-value		
R422102430	0.55 W	0.29	1.17 l/(s*bar)	300 l/min	0.05 kg

Part No.	Power consumption	Flow conductance	Flow conductance	Nominal flow Qn	Weight
	DC	b	C-value		
R422102432	0.55 W	0.38	0.92 l/(s*bar)	250 l/min	0.049 kg
R422102434	0.55 W	0.38	0.92 l/(s*bar)	250 l/min	0.05 kg
R422102431	0.55 W	0.29	1.17 l/(s*bar)	300 l/min	0.05 kg
R422102433	0.55 W	0.38	0.92 l/(s*bar)	250 l/min	0.049 kg
R422102435	0.55 W	0.38	0.92 l/(s*bar)	250 l/min	0.05 kg

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.

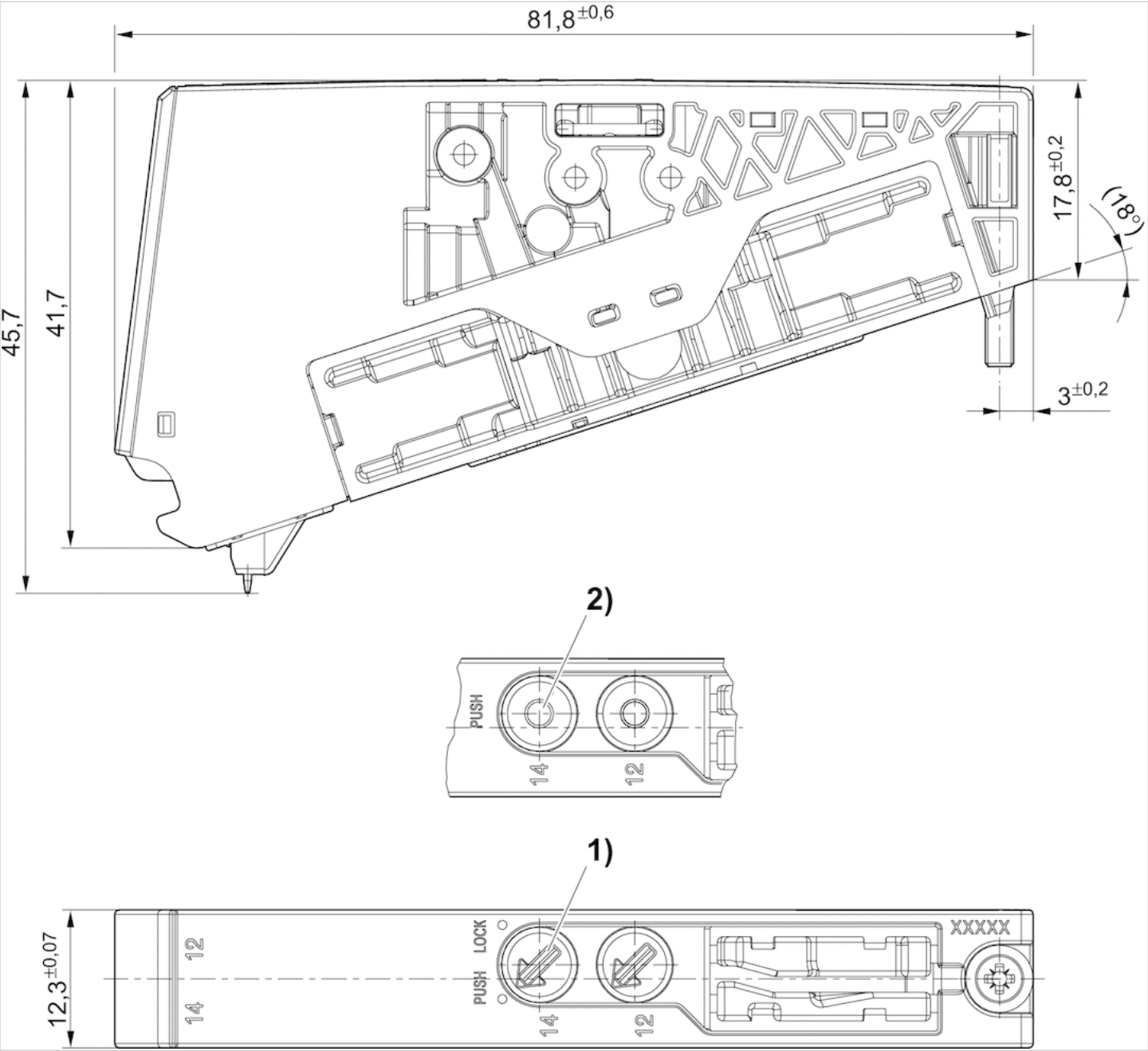
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

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

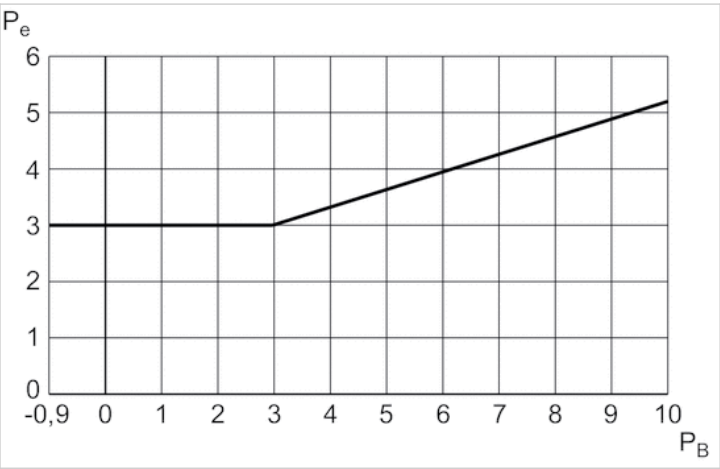
Dimensions



- 1) with detent
- 2) without detent

Diagrams

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



PB= Working pressure
Pe = external control pressure, min.