













## 2x3/2-directional valve, Series LS04-AF

- Qn = 175-310 l/min
- pipe connection
- Compressed air connection output : Ø 4, Ø 6
- Electrical connection : Plug, M8, 3-pin
- Manual override : with detent
- Pilot : internal



Version	Spool valve, zero overlap
Activation	electrically
Pilot	internal
Sealing principle	Soft sealing
Working pressure min./max.	3 ... 7 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Nominal flow Qn	See table below
Connector standard	DIN EN 60947-5-2
Protection class acc. to DIN EN 61140, electrically	Class III
Protection class, with connection	IP65
Protective circuit	Z-diode
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	15 ms
Generic emission standard in accordance with EN 61000-6-4:2002	
Generic immunity standard in accordance with IEC 61000-6-2:2005	
mounting screws	M3
Mounting screw tightening torque	0,5 Nm
Weight	0,064 kg

### Technical data

Part No.		MO	Compressed air connection		
			Input	Output	
R422103577		NO/NO		Ø 4	Ø 4
R422103578		NO/NO		Ø 6	Ø 6
R422103585		NC/NC		Ø 4	Ø 4
R422103586		NC/NC		Ø 6	Ø 6
R422103593		NC/NO		Ø 4	Ø 4
R422103594		NC/NO		Ø 6	Ø 6

Part No.	Compressed air connection		Operating voltage	Voltage tolerance	Power consumption	Flow conductance
	Exhaust		DC	DC	DC	b
R422103577	Ø 4		24 V	-10% / +10%	1,3 W	0,4

Part No.	Compressed air connection	Operating voltage	Voltage tolerance	Power consumption	Flow conductance
	Exhaust	DC	DC	DC	b
R422103578	Ø 6	24 V	-10% / +10%	1,3 W	0,25
R422103585	Ø 4	24 V	-10% / +10%	1,3 W	0,4
R422103586	Ø 6	24 V	-10% / +10%	1,3 W	0,3
R422103593	Ø 4	24 V	-10% / +10%	1,3 W	0,4
R422103594	Ø 6	24 V	-10% / +10%	1,3 W	0,25

Part No.	Flow conductance	Nominal flow Qn
	C-value	
R422103577	0,8 l/(s*bar)	175 l/min
R422103578	1,2 l/(s*bar)	250 l/min
R422103585	0,8 l/(s*bar)	180 l/min
R422103586	1,5 l/(s*bar)	310 l/min
R422103593	0,8 l/(s*bar)	175 l/min
R422103594	1,2 l/(s*bar)	250 l/min

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.

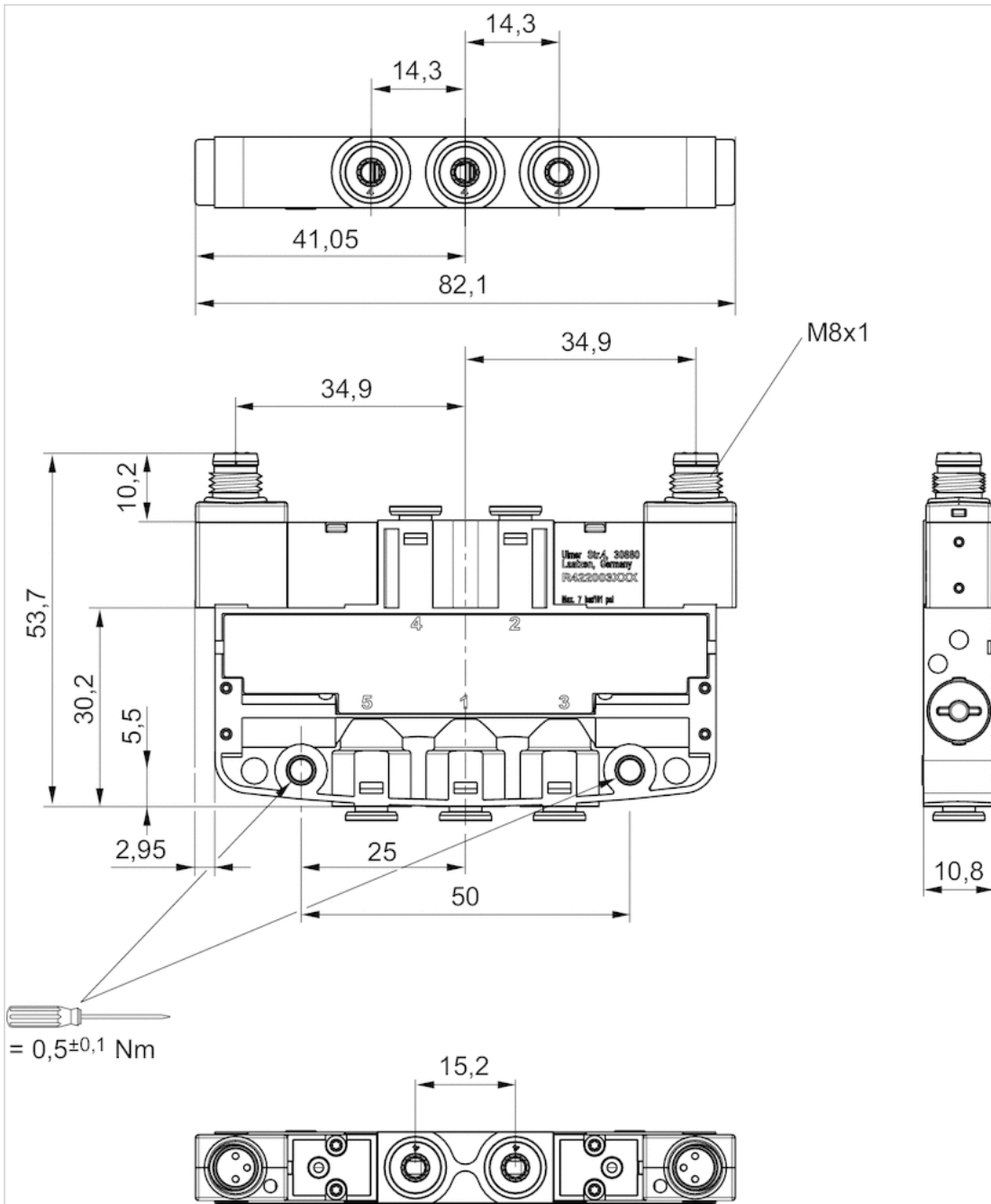
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

## Technical information

Material	
Housing	Polyoxymethylene
Seals	Acrylonitrile butadiene rubber, Hydrogenated nitrile butadiene rubber, Polyurethane

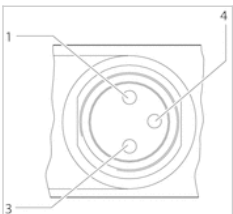
## Dimensions

### Dimensions



## Pin assignments

### PIN assignment for valve plug connectors



1) Pin not assigned 3) 0 V4) 24 V Note: Bi-polar protective circuit to prevent overvoltage

