5/2-directional valve, Series 581, size 1

- ISO 5599-1
- ISO 1
- 5/2
- With spring return
- single solenoid
- Qn = 1400 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 4-pin
- Manual override with detent without detent



Type	Spool valve
Sealing principle	Soft sealing
Blocking principle	Single base plate principle
Connection type	Plate connection
Standards	ISO 5599-1, ISO 1
Working pressure min./max.	-0.95 ... 10 bar
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	0 ... 50 °C
Medium temperature min./max.	0 ... 50 °C
Medium	Compressed air
Max. particle size	5 µm
Oil content of compressed air	0 ... 5 mg/m³
Nominal flow Qn	1400 l/min
Flow conductance C	5.2 l/(s*bar)
Protection class with connection	IP65
Duty cycle	100 %
Typ. switch-on time	12 ms
Typ. switch-off time	25 ms
Mounting screw	with hexagon socket
Mounting screw tightening torque	2 Nm
Weight	0.18 kg

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
5811112720			24 V	-10% / +10%
5811112710			24 V	-10% / +10%
5811110720			24 V	-10% / +10%
5811110710			24 V	-10% / +10%
5811113720			24 V	-10% / +10%
5811113710			24 V	-10% / +10%
5811111720			24 V	-10% / +10%
5811111710			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Electrical connection Pilot valve	Throttle
5811112720	0.35 W	External	Plug M12 4-pin	-
5811112710	0.35 W	External	Plug M12 4-pin	-
5811110720	0.35 W	Internal	Plug M12 4-pin	-
5811110710	0.35 W	Internal	Plug M12 4-pin	-
5811113720	0.35 W	External	Plug M12 4-pin	with throttle
5811113710	0.35 W	External	Plug M12 4-pin	with throttle
5811111720	0.35 W	Internal	Plug M12 4-pin	with throttle
5811111710	0.35 W	Internal	Plug M12 4-pin	with throttle

Connection 12 must be connected with atmospheres, 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).

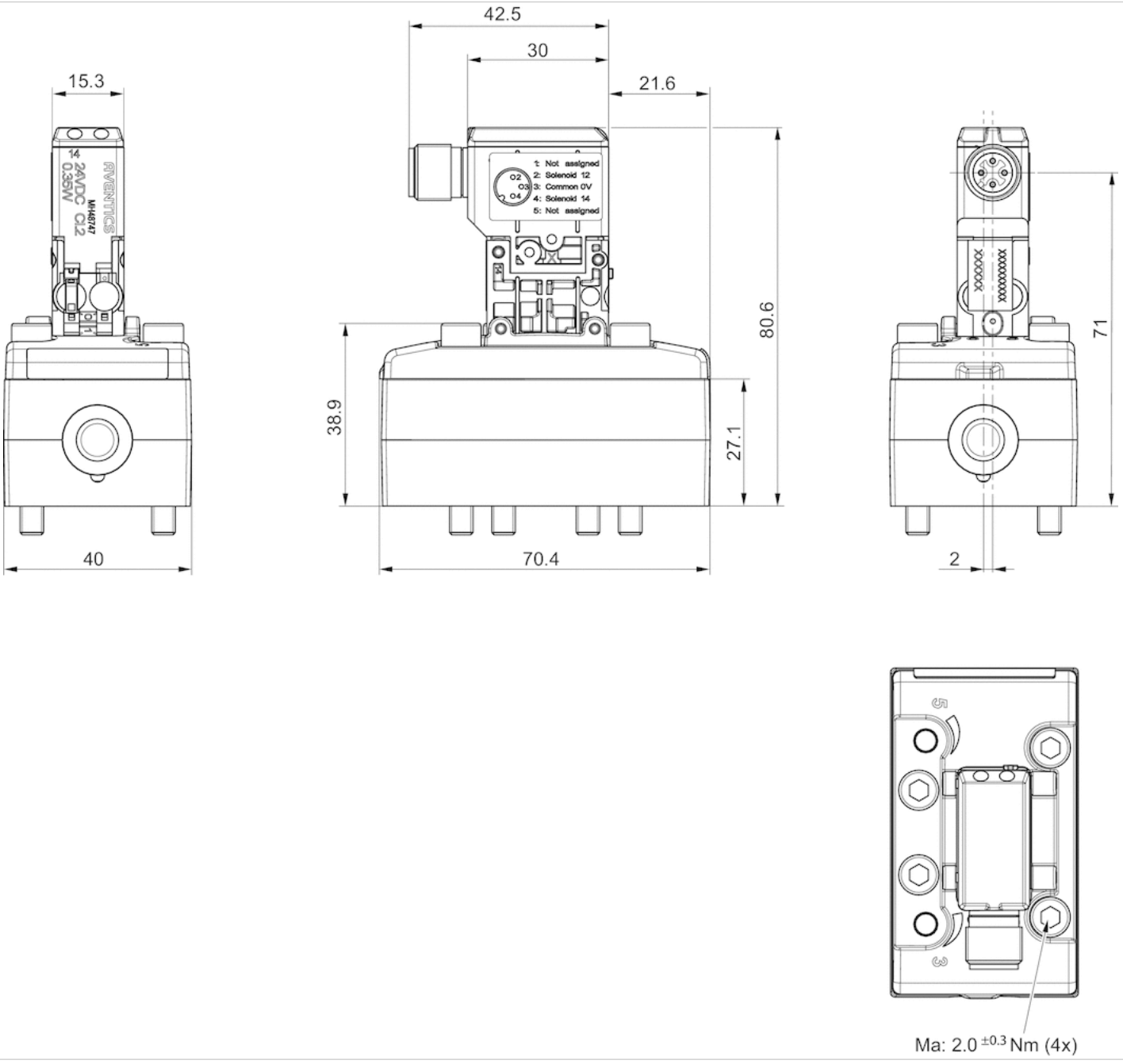
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

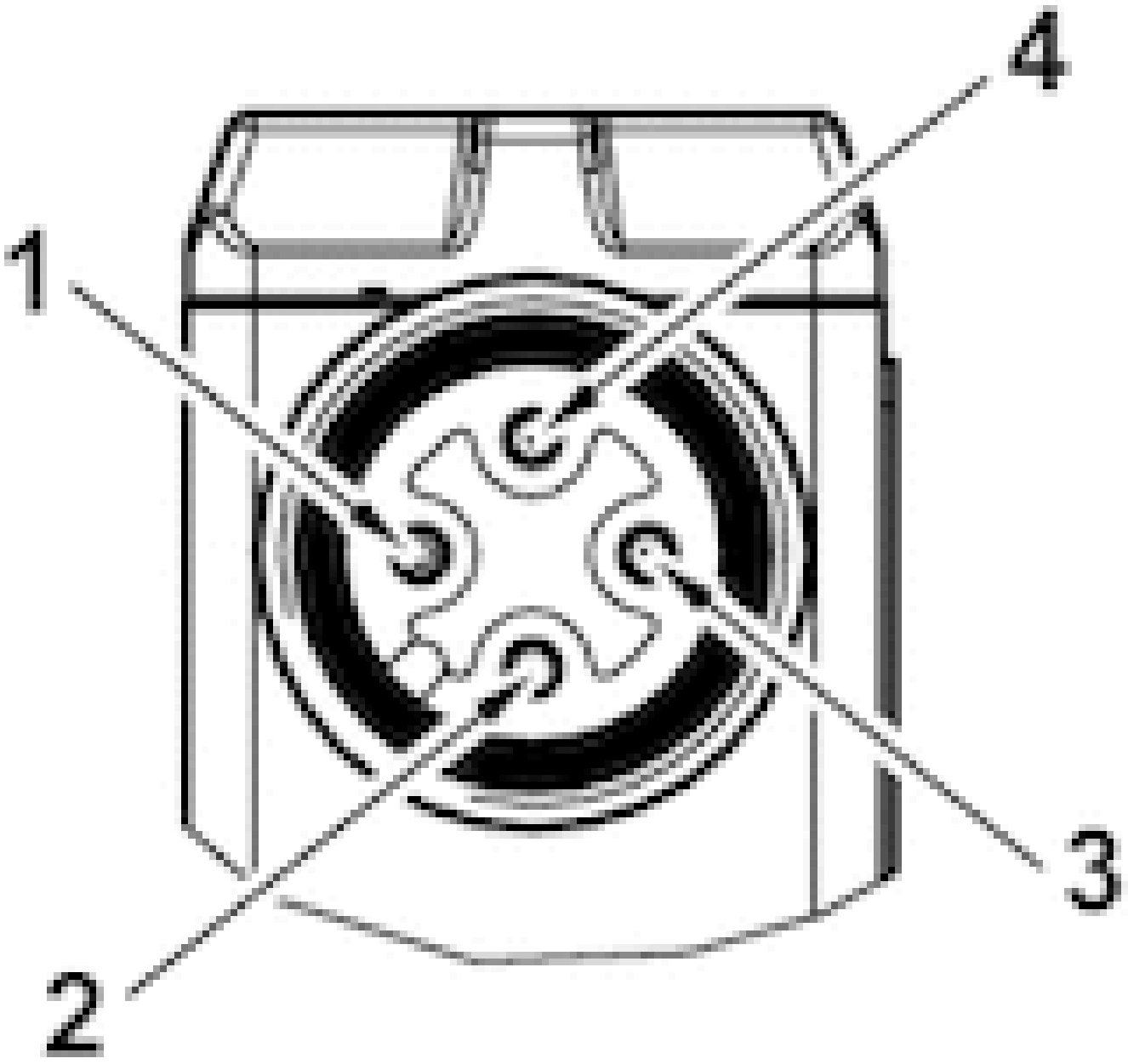
Dimensions

Dimensions



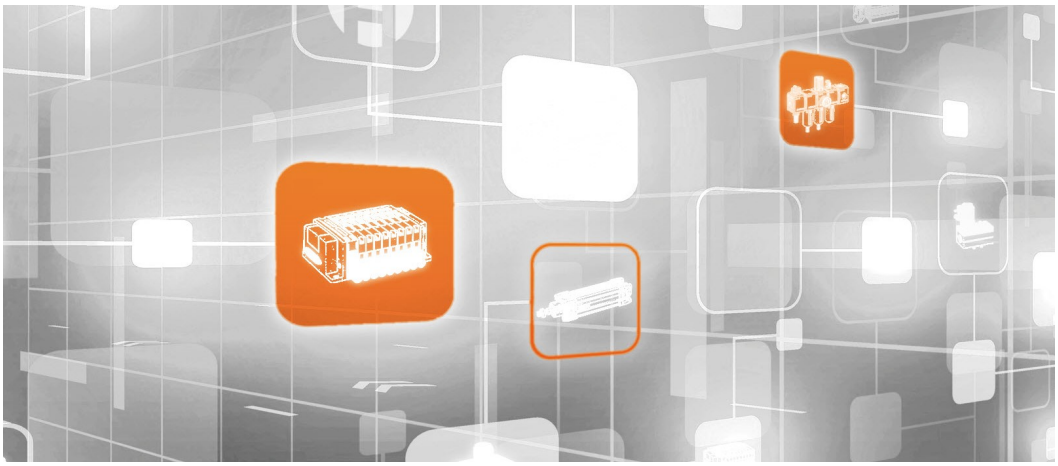
Pin assignments

Pin assignments



1) not assigned
2) Coil 12
3) 0 V DC
4) Coil 14

Efficient pneumatic solutions, our program: cylinders and drives, valves and valve systems, air supply management



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