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, 3-pin
- Manual override 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.	See table below
Control pressure min./max.	3 ... 10 bar
Ambient temperature min./max.	-10 ... 50 °C
Medium temperature min./max.	-10 ... 50 °C
Medium	Compressed air
Max. particle size	50 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	IP67
Protective circuit	Z-diode
Reverse polarity protection	Protected against polarity reversal
LED status display	Green
Duty cycle	100 %
Typ. switch-on time	15 ms
Typ. switch-off time	30 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
5811150160			24 V	-10% / +10%
5811151160			24 V	-10% / +10%
5811152160			24 V	-10% / +10%
5811153160			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.	Cable length
5811150160	2,2 W	Internal	3 ... 10 bar	0,5 m

Part No.	Power consumption DC	Pilot	Working pressure min./max.	Cable length
5811151160	2,2 W	Internal	3 ... 10 bar	0,5 m
5811152160	2,2 W	External	-0,95 ... 10 bar	0,5 m
5811153160	2,2 W	External	-0,95 ... 10 bar	0,5 m

Part No.	Electrical connection Pilot valve	Protected against polarity reversal	Throttle
5811150160	Plug 3-pin	Protected against polarity reversal	-
5811151160	Plug 3-pin	Protected against polarity reversal	with throttle
5811152160	Plug 3-pin	Protected against polarity reversal	-
5811153160	Plug 3-pin	Protected against polarity reversal	with throttle

Connection 12 must be connected with atmospheres, Nominal flow Qn at 6 bar and Δp = 1 bar, MO = Manual override

Technical information

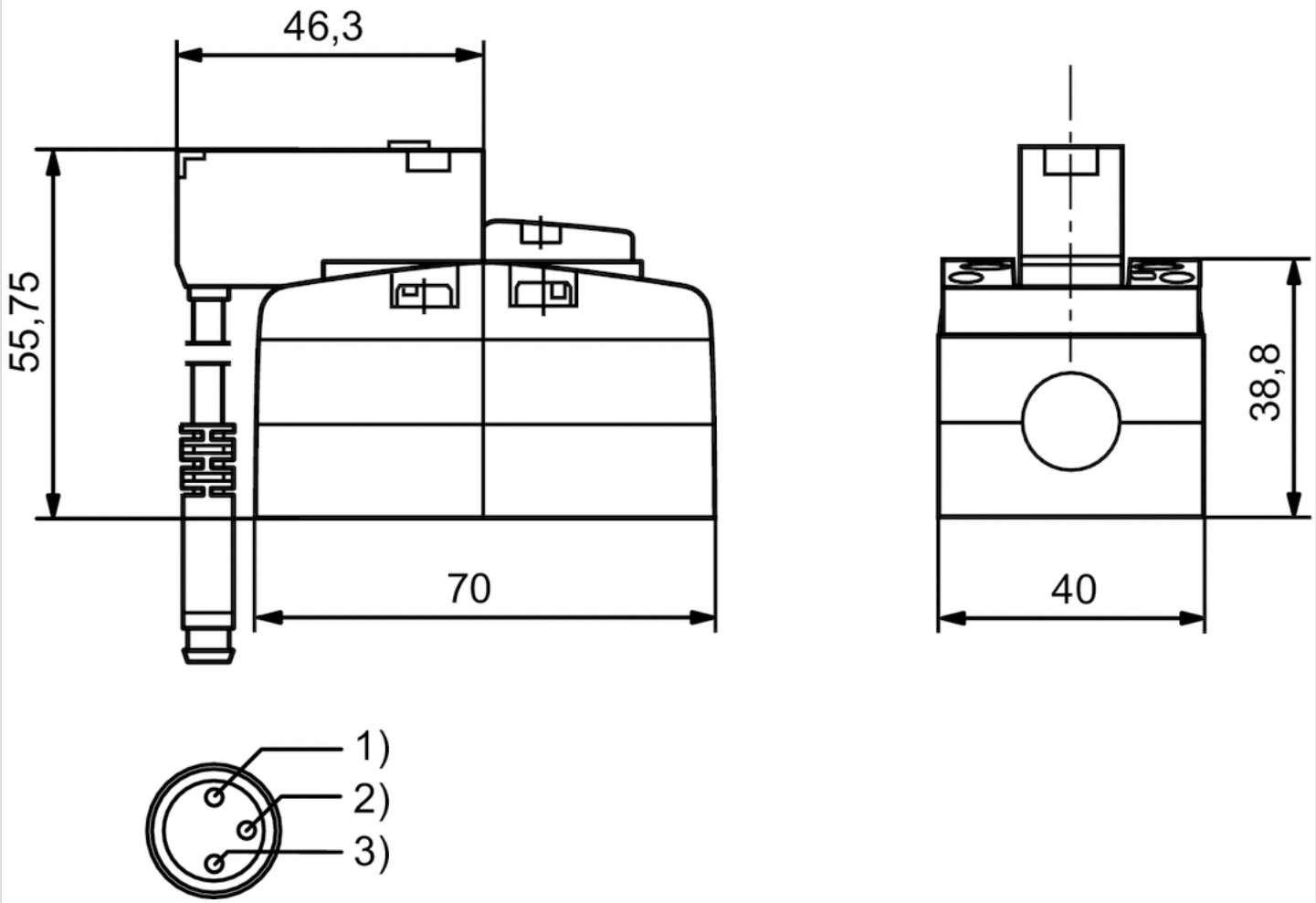
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the “Technical information” document (available in the MediaCentre).

Technical information

Housing	Polyamide fiber-glass reinforced
Seals	Acrylonitrile butadiene rubber

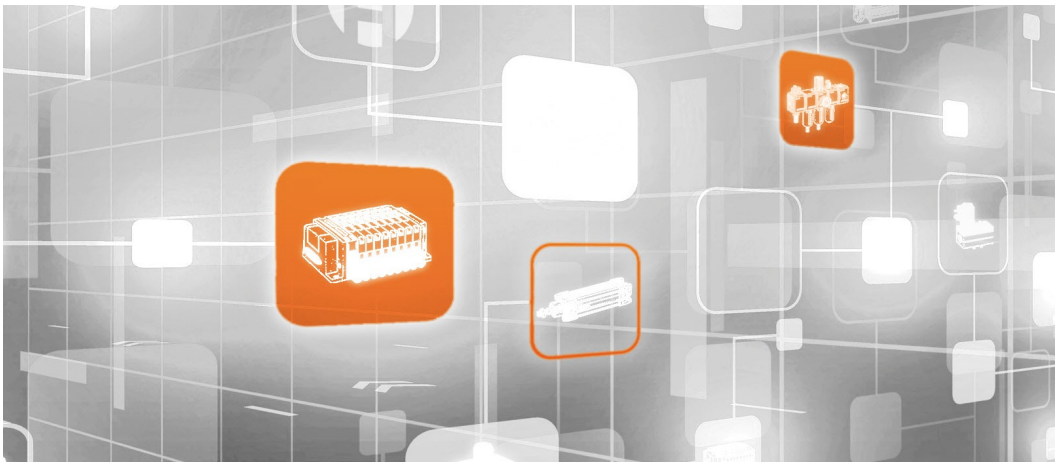
Dimensions

Dimensions



Pin assignment
1) brown (+24 V)
2) green/yellow (ground)
3) blue (0 V)

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