

5/2-directional valve, Series IS12, size 1

- ISO 5599-1
- ISO 1
- 5/2
- With air spring return With spring return With differential piston
- single solenoid double solenoid
- Qn = 1060 l/min
- Compressed air connection output Base plate ISO 5599-1
- Electrical connection Plug, M12, 3-pin
- Manual override without detent with detent



Type	Spool valve, positive overlapping
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.	See table below
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	1060 l/min
Protection class with connection	IP65
LED status display	Yellow
Nominal resistance	1480 Ω
Duty cycle	100 %
Typ. switch-on time	See table below
Typ. switch-off time	See table below
Mounting screw	M5 with hexagon socket
Mounting screw tightening torque	2,2 Nm
Weight	See table below

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
0820024250			24 V	-10% / +10%
0820024251			24 V	-10% / +10%
0820024300			24 V	-10% / +10%
0820024301			24 V	-10% / +10%
0820024325			24 V	-10% / +10%
0820024326			24 V	-10% / +10%
0820024329			24 V	-10% / +10%
0820024330			24 V	-10% / +10%
0820024275			24 V	-10% / +10%
0820024276			24 V	-10% / +10%
0820024302			24 V	-10% / +10%
0820024303			24 V	-10% / +10%
0820024327			24 V	-10% / +10%
0820024328			24 V	-10% / +10%
0820024331			24 V	-10% / +10%
0820024332			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
0820024250	0,35 W	Internal	2 ... 10 bar
0820024251	0,35 W	External	-0,9 ... 10 bar
0820024300	0,35 W	Internal	2,2 ... 10 bar
0820024301	0,35 W	External	-0,9 ... 10 bar
0820024325	0,35 W	Internal	2 ... 10 bar
0820024326	0,35 W	External	-0,9 ... 10 bar
0820024329	0,35 W	Internal	2 ... 10 bar
0820024330	0,35 W	External	-0,9 ... 10 bar
0820024275	0,35 W	Internal	2 ... 10 bar
0820024276	0,35 W	External	-0,9 ... 10 bar
0820024302	0,35 W	Internal	2,2 ... 10 bar
0820024303	0,35 W	External	-0,9 ... 10 bar
0820024327	0,35 W	Internal	2 ... 10 bar
0820024328	0,35 W	External	-0,9 ... 10 bar
0820024331	0,35 W	Internal	2 ... 10 bar
0820024332	0,35 W	External	-0,9 ... 10 bar

Part No.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820024250	2,5 ... 10 bar	18 ms	30 ms
0820024251	2,5 ... 10 bar	18 ms	30 ms
0820024300	2,5 ... 10 bar	18 ms	35 ms
0820024301	2,5 ... 10 bar	18 ms	35 ms
0820024325	2,5 ... 10 bar	16 ms	16 ms
0820024326	2,5 ... 10 bar	16 ms	16 ms

Part No.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820024329	2,5 ... 10 bar	-	-
0820024330	2,5 ... 10 bar	-	-
0820024275	2,5 ... 10 bar	18 ms	30 ms
0820024276	2,5 ... 10 bar	18 ms	30 ms
0820024302	2,5 ... 10 bar	18 ms	35 ms
0820024303	2,5 ... 10 bar	18 ms	35 ms
0820024327	2,5 ... 10 bar	16 ms	16 ms
0820024328	2,5 ... 10 bar	16 ms	16 ms
0820024331	2,5 ... 10 bar	-	-
0820024332	2,5 ... 10 bar	-	-

Part No.	Electrical connection Pilot valve	Weight
0820024250	Plug M12 3-pin	0,25 kg
0820024251	Plug M12 3-pin	0,25 kg
0820024300	Plug M12 3-pin	0,26 kg
0820024301	Plug M12 3-pin	0,26 kg
0820024325	Plug M12 3-pin	0,26 kg
0820024326	Plug M12 3-pin	0,26 kg
0820024329	Plug M12 3-pin	0,26 kg
0820024330	Plug M12 3-pin	0,26 kg
0820024275	Plug M12 3-pin	0,25 kg
0820024276	Plug M12 3-pin	0,25 kg
0820024302	Plug M12 3-pin	0,26 kg
0820024303	Plug M12 3-pin	0,26 kg
0820024327	Plug M12 3-pin	0,26 kg
0820024328	Plug M12 3-pin	0,26 kg
0820024331	Plug M12 3-pin	0,26 kg
0820024332	Plug M12 3-pin	0,26 kg

Nominal flow Q_n 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).

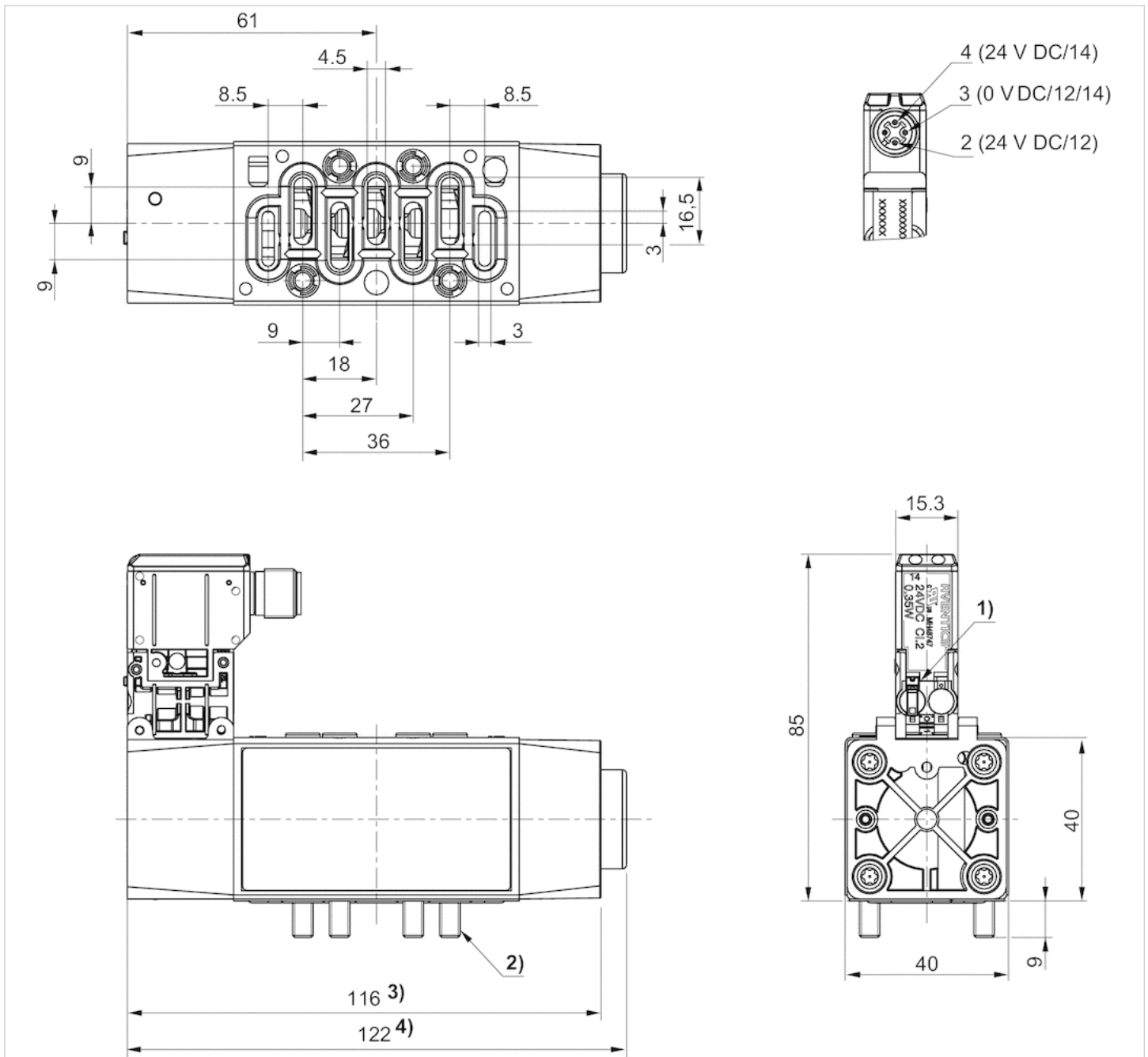
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



- 1) Manual override
- 2) 4 screws M4x40 DIN 912
- 3) with air return
- 4) With spring return

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