

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

- ISO 5599-1
- ISO 2
- 5/2
- With air spring return With spring return With differential piston
- single solenoid double solenoid
- Qn = 2500 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 2
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	2500 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	M6 with hexagon socket
Mounting screw tightening torque	4 Nm
Weight	See table below

Technical data

Part No.		MO	Operational voltage DC	Voltage tolerance DC
0820025250			24 V	-10% / +10%
0820025251			24 V	-10% / +10%
0820025300			24 V	-10% / +10%
0820025301			24 V	-10% / +10%
0820025325			24 V	-10% / +10%
0820025326			24 V	-10% / +10%
0820025329			24 V	-10% / +10%
0820025330			24 V	-10% / +10%
0820025252			24 V	-10% / +10%
0820025253			24 V	-10% / +10%
0820025302			24 V	-10% / +10%
0820025303			24 V	-10% / +10%
0820025327			24 V	-10% / +10%
0820025328			24 V	-10% / +10%
0820025331			24 V	-10% / +10%
0820025332			24 V	-10% / +10%

Part No.	Power consumption DC	Pilot	Working pressure min./max.
0820025250	0,35 W	Internal	2 ... 10 bar
0820025251	0,35 W	External	-0,9 ... 10 bar
0820025300	0,35 W	Internal	2,8 ... 10 bar
0820025301	0,35 W	External	-0,9 ... 10 bar
0820025325	0,35 W	Internal	2 ... 10 bar
0820025326	0,35 W	External	-0,9 ... 10 bar
0820025329	0,35 W	Internal	2 ... 10 bar
0820025330	0,35 W	External	-0,9 ... 10 bar
0820025252	0,35 W	Internal	2 ... 10 bar
0820025253	0,35 W	External	-0,9 ... 10 bar
0820025302	0,35 W	Internal	2,8 ... 10 bar
0820025303	0,35 W	External	-0,9 ... 10 bar
0820025327	0,35 W	Internal	2 ... 10 bar
0820025328	0,35 W	External	-0,9 ... 10 bar
0820025331	0,35 W	Internal	2 ... 10 bar
0820025332	0,35 W	External	-0,9 ... 10 bar

Part No.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820025250	2 ... 10 bar	24 ms	40 ms
0820025251	2 ... 10 bar	24 ms	40 ms
0820025300	2,2 ... 10 bar	20 ms	45 ms
0820025301	2,2 ... 10 bar	20 ms	56 ms
0820025325	1 ... 10 bar	18 ms	18 ms
0820025326	1 ... 10 bar	18 ms	18 ms

Part No.	Control pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820025329	1 ... 10 bar	-	-
0820025330	1 ... 10 bar	-	-
0820025252	2 ... 10 bar	24 ms	40 ms
0820025253	2 ... 10 bar	24 ms	40 ms
0820025302	2,2 ... 10 bar	20 ms	45 ms
0820025303	2,2 ... 10 bar	20 ms	56 ms
0820025327	1 ... 10 bar	18 ms	18 ms
0820025328	1 ... 10 bar	18 ms	18 ms
0820025331	1 ... 10 bar	-	-
0820025332	1 ... 10 bar	-	-

Part No.	Electrical connection Pilot valve	Weight
0820025250	Plug M12 3-pin	0,53 kg
0820025251	Plug M12 3-pin	0,53 kg
0820025300	Plug M12 3-pin	0,51 kg
0820025301	Plug M12 3-pin	0,51 kg
0820025325	Plug M12 3-pin	0,51 kg
0820025326	Plug M12 3-pin	0,51 kg
0820025329	Plug M12 3-pin	0,54 kg
0820025330	Plug M12 3-pin	0,54 kg
0820025252	Plug M12 3-pin	0,53 kg
0820025253	Plug M12 3-pin	0,53 kg
0820025302	Plug M12 3-pin	0,51 kg
0820025303	Plug M12 3-pin	0,51 kg
0820025327	Plug M12 3-pin	0,51 kg
0820025328	Plug M12 3-pin	0,51 kg
0820025331	Plug M12 3-pin	0,54 kg
0820025332	Plug M12 3-pin	0,54 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).

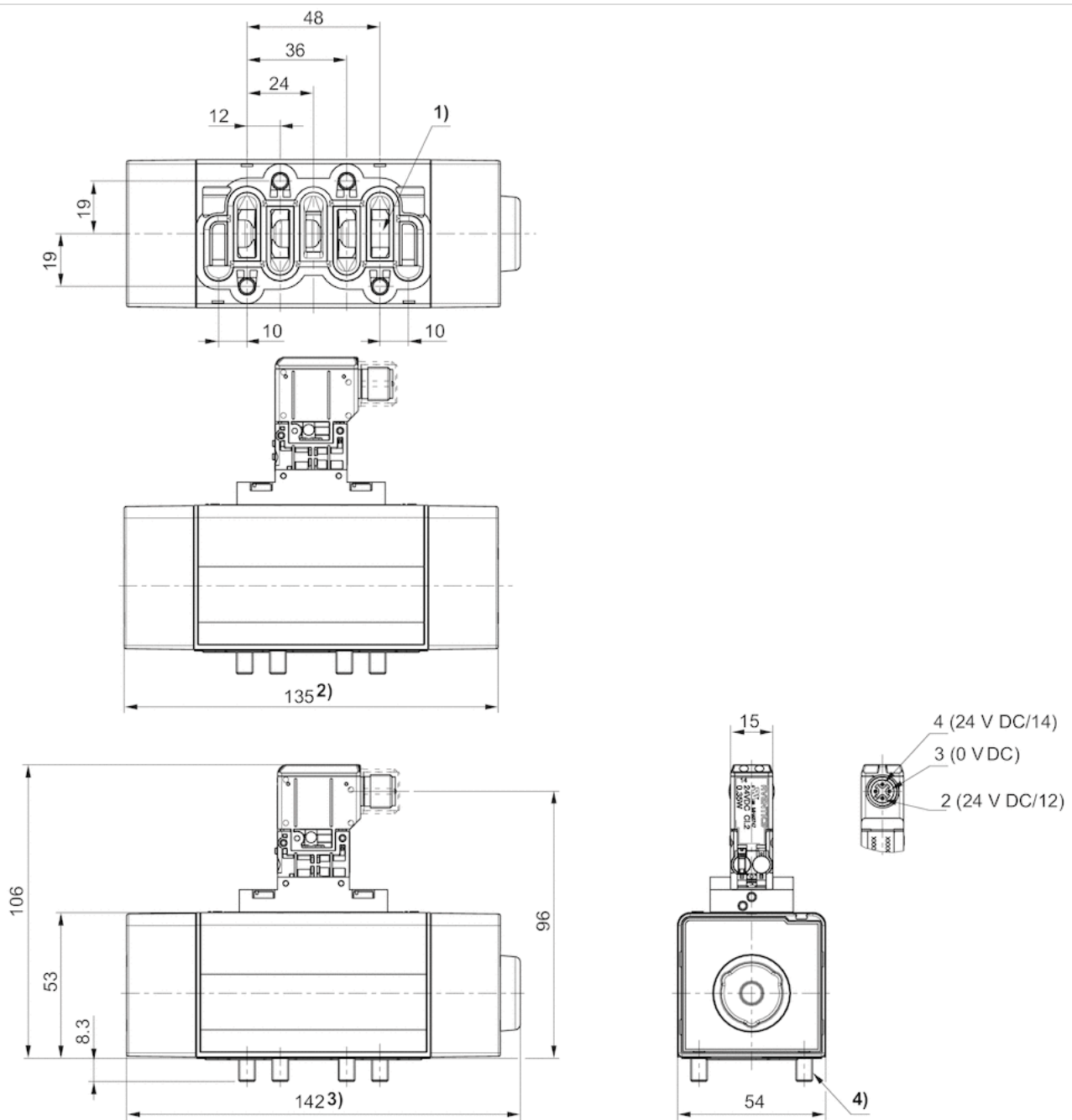
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



- 1) according to ISO 5599-1
- 2) with air return
- 3) With spring return
- 4) 4 screws M4x40 DIN 912

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