

5/3-directional valve, Series IS12, size 2

- ISO 5599-1
- ISO 2
- 5/3
- double solenoid
- closed center exhausted center pressurized center
- Qn = 1700-2400 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.	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	See table below
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	0,57 kg

Technical data

Part No.		MO		Operational voltage DC
0820028275			closed center	24 V
0820028276			closed center	24 V
0820028375			exhausted center	24 V
0820028376			exhausted center	24 V
0820028425			pressurized center	24 V
0820028426			pressurized center	24 V
0820028277			closed center	24 V
0820028278			closed center	24 V
0820028377			exhausted center	24 V
0820028378			exhausted center	24 V
0820028427			pressurized center	24 V
0820028428			pressurized center	24 V

Part No.	Voltage tolerance DC	Power consumption DC	Pilot	Nominal flow Qn
0820028275	-10% / +10%	0,35 W	Internal	2400 l/min
0820028276	-10% / +10%	0,35 W	External	2400 l/min
0820028375	-10% / +10%	0,35 W	Internal	1700 l/min
0820028376	-10% / +10%	0,35 W	External	1700 l/min
0820028425	-10% / +10%	0,35 W	Internal	1800 l/min
0820028426	-10% / +10%	0,35 W	External	1800 l/min
0820028277	-10% / +10%	0,35 W	Internal	2400 l/min
0820028278	-10% / +10%	0,35 W	External	2400 l/min
0820028377	-10% / +10%	0,35 W	Internal	1700 l/min
0820028378	-10% / +10%	0,35 W	External	1700 l/min
0820028427	-10% / +10%	0,35 W	Internal	1800 l/min
0820028428	-10% / +10%	0,35 W	External	1800 l/min

Part No.	Working pressure min./max.	Typ. switch-on time	Typ. switch-off time
0820028275	2,5 ... 10 bar	22 ms	-
0820028276	-0,9 ... 10 bar	22 ms	-
0820028375	2,5 ... 10 bar	20 ms	45 ms
0820028376	-0,9 ... 10 bar	20 ms	45 ms
0820028425	2,5 ... 10 bar	20 ms	-
0820028426	-0,9 ... 10 bar	20 ms	-
0820028277	2,5 ... 10 bar	22 ms	-
0820028278	-0,9 ... 10 bar	22 ms	-
0820028377	2,5 ... 10 bar	20 ms	45 ms
0820028378	-0,9 ... 10 bar	20 ms	45 ms
0820028427	2,5 ... 10 bar	20 ms	-
0820028428	-0,9 ... 10 bar	20 ms	-

Part No.	Electrical connection Pilot valve
0820028275	Plug M12 3-pin
0820028276	Plug M12 3-pin
0820028375	Plug M12 3-pin
0820028376	Plug M12 3-pin
0820028425	Plug M12 3-pin
0820028426	Plug M12 3-pin
0820028277	Plug M12 3-pin
0820028278	Plug M12 3-pin
0820028377	Plug M12 3-pin
0820028378	Plug M12 3-pin
0820028427	Plug M12 3-pin
0820028428	Plug M12 3-pin

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).

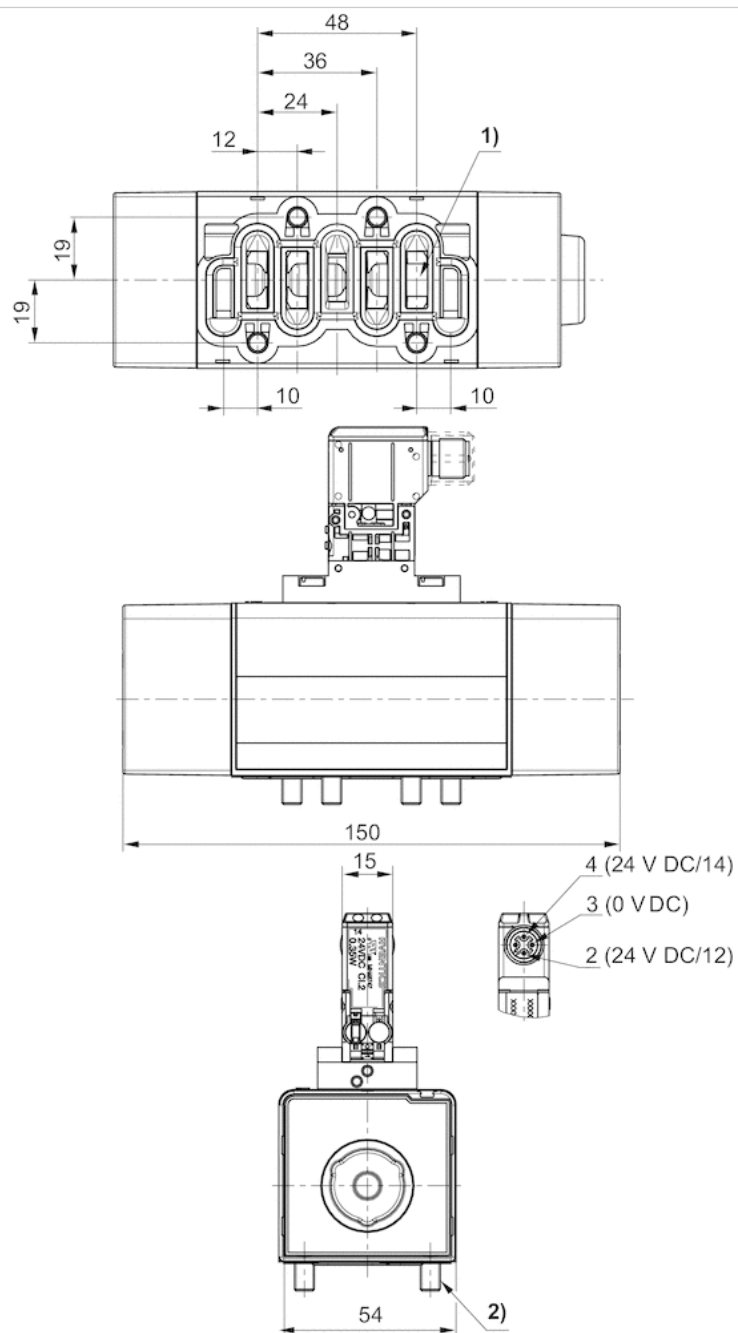
Switch-on power: 1 W for 40 ms

Technical information

Housing	Polyamide
Seals	Acrylonitrile butadiene rubber
Front plate	Polyamide

Dimensions

Dimensions



1) according to ISO 5599-1

2) 4 screws M4x40 DIN 912

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