

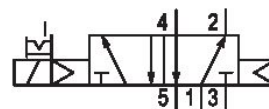
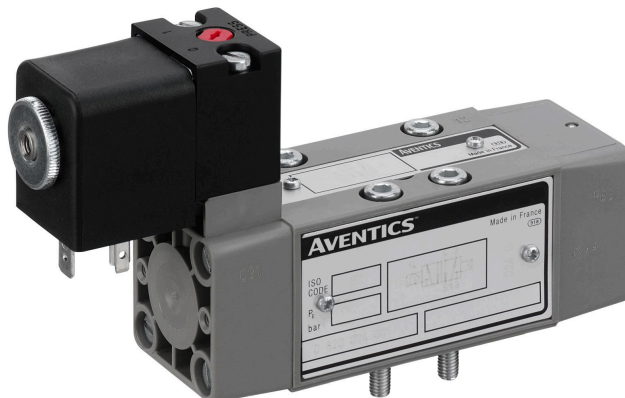
5/2-directional valve, Series IS12, size 1

2024-03-18

0820024003

Series IS12, size 1

The AVENTICS Series IS12 complies with the valve standard ISO 5599-1. The Series offers electrically controlled ISO valves of size IOS1 and 2 with Form A or central M12 connectors.



Technical data

Industry	Industrial
Activation	Electrically
Nominal flow Qn	1060 l/min
Compressed air connection output	Base plate ISO 5599-1
Min. working pressure	2 bar
Max. working pressure	10 bar
Operational voltage	24 V AC
Operational voltage AC at 50 Hz	24 V
Operational voltage AC at 60 Hz	24 V
Voltage tolerance AC 50 Hz	-10% / +10%
Voltage tolerance AC 60 Hz	-10% / +10%
Manual override	with detent
Electrical connection type	Plug
Electrical connection size	EN 175301-803, form A
Actuating control	Single Solenoid
Sealing principle	Soft seal
Pilot	Internal
Standards	ISO 5599-1
Pilot valve width	30 mm

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Valve type	Spool valve, positive overlapping
Blocking principle	Single base plate principle
Connection type	Plate connection
Return	with air spring return
Compressed air connection input	Base plate ISO 5599-1
Compressed air connection, exhaust	Base plate ISO 5599-1
Compressed air connection pilot input	Base plate ISO 5599-1
Compressed air connection pilot exhaust	Base plate ISO 5599-1
Holding power AC 50 Hz	8 VA
Holding power AC 60 Hz	5.6 VA
Switch-on power AC 50 Hz	11.5 VA
Switch-on power AC 60 Hz	9.5 VA
Nominal resistance	23.3 Ω
Frame size	ISO 1
Min. control pressure	2 bar
Max. control pressure	10 bar
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Medium	Compressed air
Max. particle size	5 μm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³
Protection class with connection	IP65
Compatibility index	15
Duty cycle	100 %
Typ. switch-on time	18 ms
Typ. switch-off time	33 ms
Mounting screws	M5 with hexagon socket
Mounting screw tightening torque	2.2 Nm
Weight	0.37 kg
Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material front plate	Polyamide
Part No.	0820024003

Technical information

ATEX optional: ATEX version can be produced by combining the basic valve without coil with an ATEX coil. ATEX ID: see ATEX coils catalog page.

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 less than 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 <https://www.emerson.com/en-us/support>).

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Dimensions

