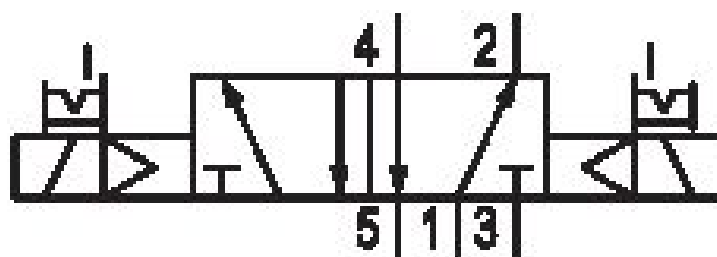
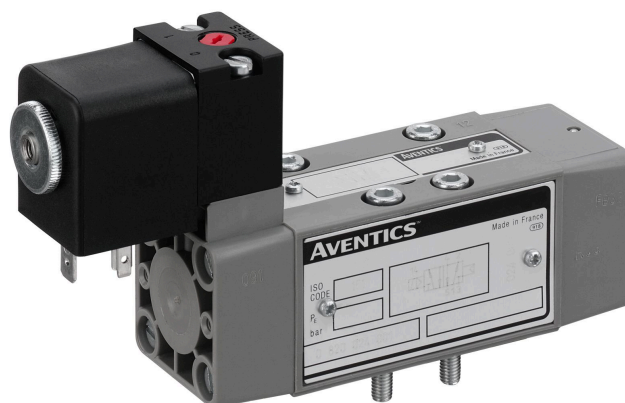


5/2-directional valve, Series IS12, size 1

0820024502

General series information
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 Q_n
1060 l/min

Switching principle
5/2

Compressed air connection output
Base plate ISO 5599-1

Working pressure min.
1 bar

Working pressure max
10 bar

DC operating voltage
24 V

Voltage tolerance DC
-10% / +10%

Manual override
with detent

Electrical connection type
Plug

Electrical connection size
EN 175301-803, form A

Actuating control
Double Solenoid

Sealing principle
Soft Seal

Pilot	Max. medium temperature
Internal	50 °C
Standards	Medium
ISO 5599-1	Compressed air
Pilot valve width	Max. particle size
30 mm	5 µm
Valve type	Oil content of compressed air min.
Spool valve, positive overlapping	0 mg/m ³
Blocking principle	Oil content of compressed air max.
Single base plate principle	5 mg/m ³
Connection type	Protection class with connection
Plate connection	IP65
Compressed air connection input	Compatibility index
Base plate ISO 5599-1	15
Compressed air connection, exhaust	Duty cycle
Base plate ISO 5599-1	100 %
Compressed air connection pilot input	Typ. switch-on time
Base plate ISO 5599-1	16 ms
Compressed air connection pilot exhaust	Typ. switch-off time
Base plate ISO 5599-1	16 ms
Power consumption DC	mounting screws
4.5 W	M5 with hexagon socket
Nominal resistance	Mounting screw tightening torque
128 Ω	2.2 Nm
Frame size	Weight
ISO 1	0.52 kg
Control pressure min.	Housing material
1 bar	Polyamide
Control pressure max.	Seal material
10 bar	Acrylonitrile butadiene rubber
Min. ambient temperature	Material front plate
-10 °C	Polyamide
Max. ambient temperature	Part No.
50 °C	0820024502
Min. medium temperature	
-10 °C	

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

Dimensions

