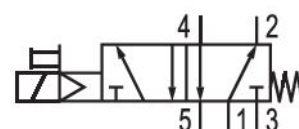
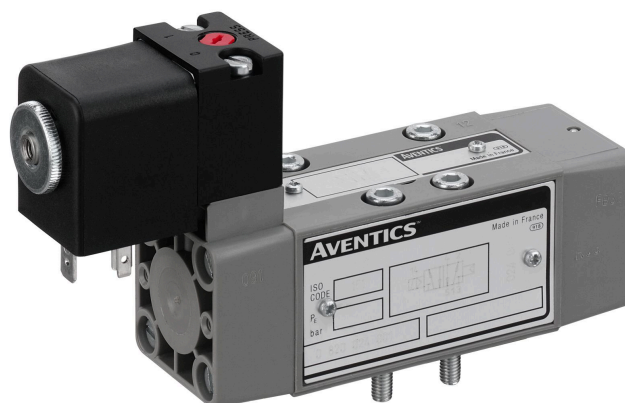


5/2-directional valve, Series IS12, size 1

0820024076

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.
2.2 bar

Working pressure max
10 bar

DC operating voltage
24 V

Voltage tolerance DC
-10% / +10%

Manual override
without 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

Valve type
Spool valve, positive overlapping

Blocking principle

Single base plate principle

Connection type

Plate connection

Return

With 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

Power consumption DC

4.5 W

Nominal resistance

128 Ω

Frame size

ISO 1

Control pressure min.

2.2 bar

Control pressure max.

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

Oil content of compressed air min.

0 mg/m³

Oil content of compressed air max.

5 mg/m³

Protection class with connection

IP65

Compatibility index

15

Duty cycle

100 %

Typ. switch-on time

18 ms

Typ. switch-off time

40 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.

0820024076

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

