

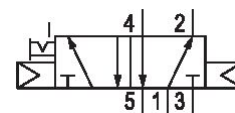
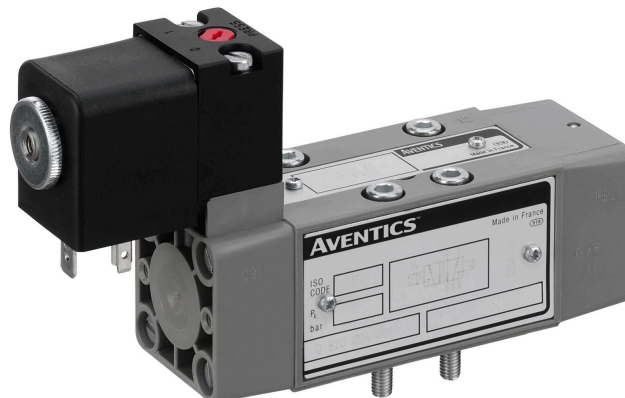
5/2-directional valve, Series IS12, size 1

2024-03-18

0820024993

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

Activation

Nominal flow Qn

Compressed air connection output

Min. working pressure

Max. working pressure

Manual override

Electrical connection type

Electrical connection size

Actuating control

Sealing principle

Pilot

Standards

Pilot valve width

Valve type

Blocking principle

Connection type

Return

Compressed air connection input

Industrial

Electrically

1060 l/min

Base plate ISO 5599-1

2 bar

10 bar

without detent

Plug

EN 175301-803, form A

Single Solenoid

Soft seal

Internal

ISO 5599-1

30 mm

Spool valve, positive overlapping

Single base plate principle

Plate connection

with air spring return

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 |
| Basic valve equipment | Basic valve without coil |
| 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 | 0.27 kg |
| Housing material | Polyamide |
| Seal material | Acrylonitrile butadiene rubber |
| Material front plate | Polyamide |
| Part No. | 0820024993 |

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

