

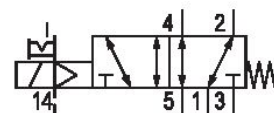
5/2-directional valve, Series IS12, size 1

2024-03-18

0820024951

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

Compressed air connection output

Base plate ISO 5599-1

Min. working pressure

-0.9 bar

Max. working pressure

10 bar

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

External

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
Basic valve equipment	Basic valve without coil
Frame size	ISO 1
Min. control pressure	2.2 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
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	0.28 kg
Housing material	Polyamide
Seal material	Acrylonitrile butadiene rubber
Material front plate	Polyamide
Part No.	0820024951

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

