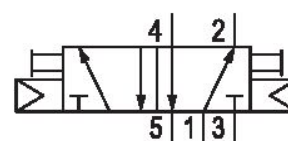
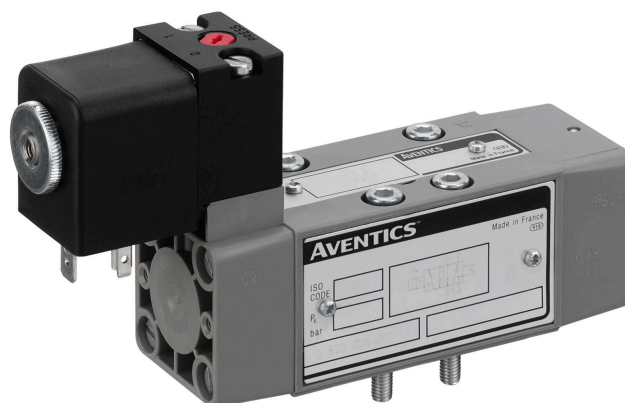


5/2-directional valve, Series IS12, size 1

0820024992

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

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
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

| | |
|---|---|
| Compressed air connection input Base plate ISO 5599-1 | Oil content of compressed air min. 0 mg/m ³ |
| Compressed air connection, exhaust Base plate ISO 5599-1 | Oil content of compressed air max. 5 mg/m ³ |
| Compressed air connection pilot input Base plate ISO 5599-1 | Protection class with connection IP65 |
| Compressed air connection pilot exhaust Base plate ISO 5599-1 | Compatibility index 15 |
| basic valve with electrical connector Basic valve without coil | Duty cycle 100 % |
| Frame size ISO 1 | Typ. switch-on time 16 ms |
| Control pressure min. 1 bar | Typ. switch-off time 16 ms |
| Control pressure max. 10 bar | mounting screws M5 with hexagon socket |
| Min. ambient temperature -10 °C | Mounting screw tightening torque 2.2 Nm |
| Max. ambient temperature 50 °C | Weight 0.33 kg |
| Min. medium temperature -10 °C | Housing material Polyamide |
| Max. medium temperature 50 °C | Seal material Acrylonitrile butadiene rubber |
| Medium Compressed air | Material front plate Polyamide |
| Max. particle size 5 µm | Part No. 0820024992 |

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

