

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

0820024462

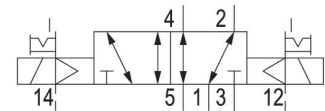
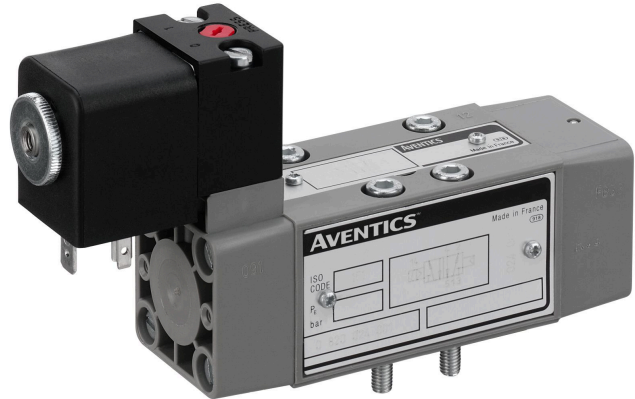
Series IS12,
size 1

2025-02-10

- Qn max. 2500 l/min
- Electrical control
- Pneumatic control
- Width: 42 mm, 56 mm

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 1 and 2 with Form A or central M12 connectors.



Technical data

| | |
|----------------------------------|-----------------------------------|
| Industry | Industrial |
| Activation | Electrically |
| Nominal flow Qn | 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 | Double Solenoid |
| Sealing principle | Soft seal |
| Pilot | External |
| ATEX | ATEX optional |
| 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 |

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| 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 | 1 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 | 54 |
| Duty cycle | 100 % |
| Typ. switch-on time | 16 ms |
| Typ. switch-off time | 16 ms |
| Mounting screws | M5 with hexagon socket |
| Mounting screw tightening torque | 2.2 Nm |
| Weight | 0.33 kg |
| Housing material | Polyamide |
| Seal material | Acrylonitrile butadiene rubber |
| Material front plate | Polyamide |
| Part No. | 0820024462 |

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

