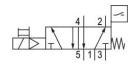
Series IS12-PM, size 1





Technical data

Industry Industrial
Activation Electrically
Nominal flow Qn 2500 I/min

Compressed air connection output Base plate DIN ISO 5599 size 2

Min. working pressure 3 bar
Max. working pressure 10 bar
Operational voltage 24 V DC
Operational voltage DC 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

Pilot

Standards

Valve type Spool valve, positive overlapping

Blocking principle Single base plate principle

R422003657

Connection type Plate connection

Return with differential piston

Compressed air connection input

Base plate DIN ISO 5599 size 2

Compressed air connection, exhaust

Base plate DIN ISO 5599 size 2

Compressed air connection pilot input

Base plate DIN ISO 5599 size 2

Compressed air connection pilot exhaust M5 Power consumption DC 4.4 W **ISO 2** Frame size Min. control pressure 3 bar 10 bar Max. control pressure Min. ambient temperature 0°C 50 °C Max. ambient temperature 0°C Min. medium temperature Max. medium temperature 60 °C

Medium Compressed air

 $\begin{tabular}{lll} Max. particle size & 5 μm \\ Min. oil content of compressed air & 0 mg/m^3 \\ Max. oil content of compressed air & 0.01 mg/m^3 \\ \end{tabular}$

Protection class with connection IP65
Compatibility index 15
Duty cycle 100 %
Switch-on time 20 ms
Switch-off time 50 ms

Type sensor electronic PNP, with LED

Electrical connection for sensor Plug
Sensor port size M8
Sensor number of poles 3-pin
Voltage drop sensor U at Imax $\leq 2,5 \text{ V}$

Vibration resistance sensor 10 - 55 Hz, 1 mm Shock resistance sensor 30 g / 11 ms Protection class sensor acc. to DIN EN 61140 Class III

Sensor with knurled screw

Cable length sensor 0.3 m

Mounting screws M6 with hexagon socket

Weight 0.61 kg
Housing material Polyamide
Aluminum

Seal material Acrylonitrile butadiene rubber

Part No. R422003657

Technical information

When the valve is not actuated, the sensor sends a signal through pin 4 of the sensor connection.

When the valve is actuated, the sensor does not send a signal through pin 4 of the sensor connection.

The valve with position detection is possible to be used in categories 3 and 4 according to ISO 13849 in order to reach a Performance Level (PL) of the control system up to PL = e.

On its own, the valve with position detection is not a safety component and is not a complete safety solution. It is designed to increase the diagnostic coverage (DC) of the control system.

For use in categories 3 to 4, additional requirements of DIN EN ISO 13849-1:2008-12 (e.g. CCF, DC, PLr, software, systematic errors) are taken into consideration by the user.

The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

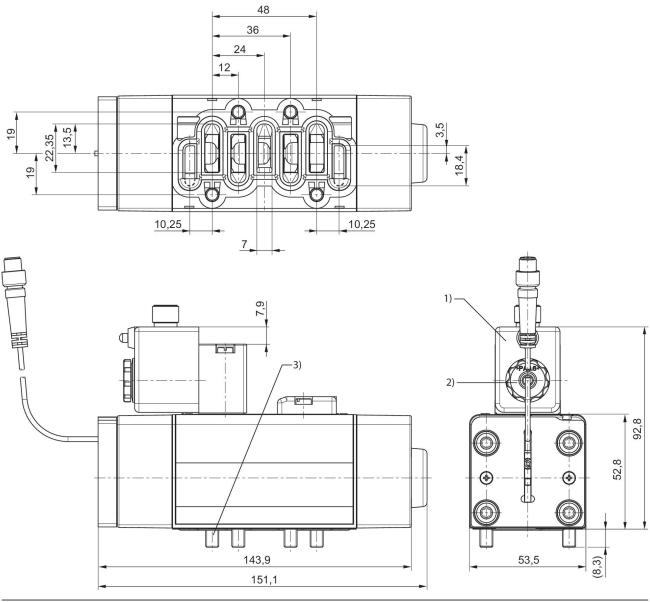
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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).

Dimensions

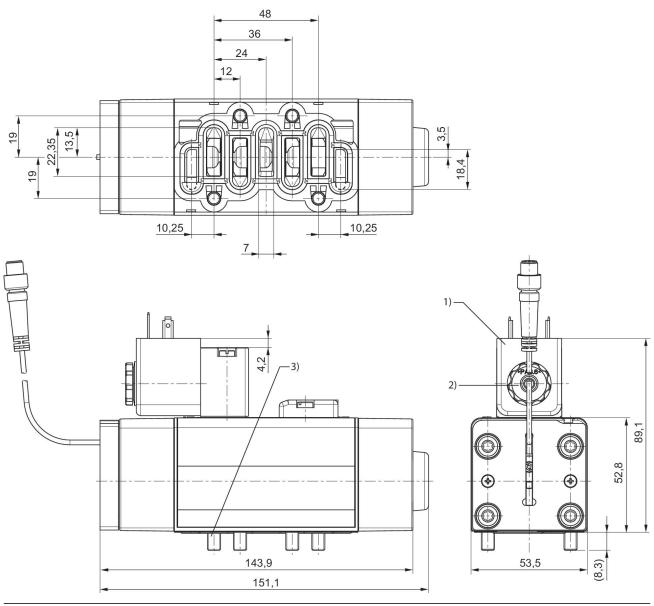
Fig. 2



- 1) Adjustable coil 3x90°
 2) Tightening torque for lock nut: 0.6 + 0.2 Nm
 3) Tightening torque for mounting screws: 4,0 ± 0,5 Nm

Dimensions

Fig. 1



- Adjustable coil 3x90°
 Tightening torque for lock nut: 0.6 + 0.2 Nm
 Tightening torque for mounting screws: 4,0 ± 0,5 Nm