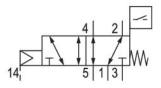
5/2-directional valve, Series IS12-PD, size 2

R422003654

Series IS12-PM, size 1





Technical data

Industry Industrial

Activation Electrically

Nominal flow Qn

2500 l/min

Switching principle

5/2

Compressed air connection output

Base plate DIN ISO 5599 size 2

Working pressure min.

-0.9 bar

Working pressure max

10 bar

Manual override

without

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 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

basic valve with electrical connector

Basic valve without coil

Frame size

ISO 2

Control pressure min.

3 bar

Control pressure max.

10 bar

Min. ambient temperature

0°C

Max. ambient temperature

50 °C

Min. medium temperature

0°C

Max. medium temperature

60 °C

Medium

Compressed air

Max. particle size

5 µm

Oil content of compressed air min.

0 mg/m³

Oil content of compressed air max.

0.01 mg/m³

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

Plua

Sensor port size

M8

Sensor number of poles

3-pin

Voltage drop sensor U at Imax

≤ 2,5 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 0.52 kg

Housing material

Polyamide Aluminum

Seal material

Acrylonitrile butadiene rubber

Part No. R422003654



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 $^{\circ}$ C under ambient and medium temperature and may not exceed 3 $^{\circ}$ C .

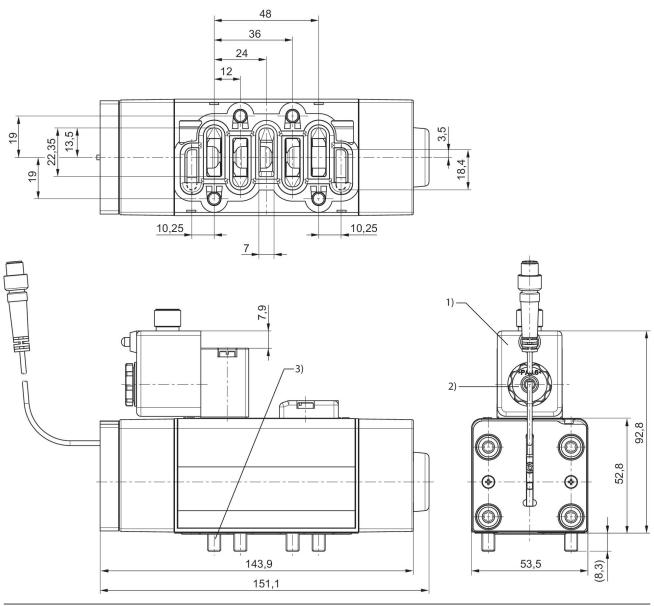
The oil content of compressed air must remain constant during the life cycle.

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

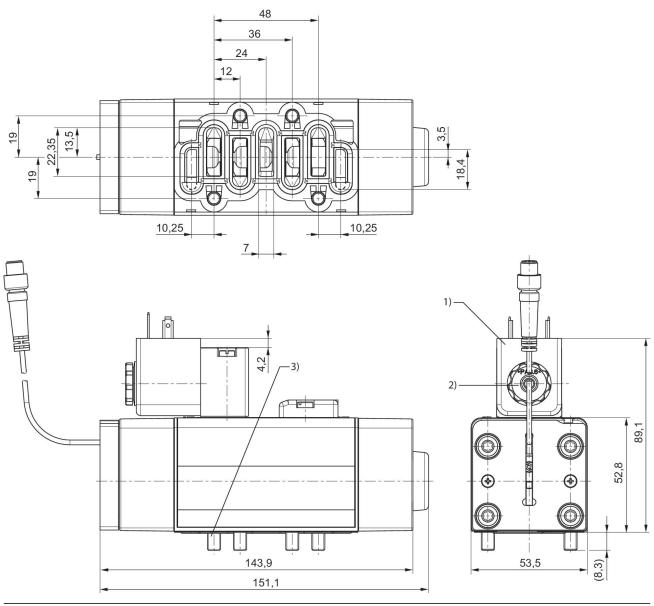


- 1) Adjustable coil 3x90°
 2) Tightening torque for lock nut: 0.6 + 0.2 Nm
 3) Tightening torque for mounting screws: 4,0 ± 0,5 Nm

Dimensions



Fig. 1



- 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

