

3/2-directional valve, Series DO22, M5

0820019014

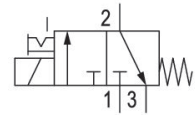
Series DO

2024-10-01

- Various connection options possible
- Assembly takes place on manifold strips
- Extensive voltage range
- ATEX version available

AVENTICS Series DO Directional valves

The AVENTICS Series DO offer a simple, reliable and robust solution for all classical pilot control functions with direct electrical operation.



Technical data

Industry

Activation

Note

Frame size

Valve type

Switching principle

Valve function

Sealing principle

Connection type

Manual override

Industrial

Electrically

Archive product: Do not use in new constructions!

DO22

Poppet valve

3/2, with spring return

NC

Soft seal

Pipe connection

with detent

Compressed air connection

Standard compressed air connection

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

M5

according to ISO 16030

M5

M5

M5

Nominal flow Q_n

Nominal flow Q_n 1 to 2

Nominal flow Q_n 2 to 3

40 l/min

40 l/min

52 l/min

Min. working pressure

2 bar

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Max. working pressure	7 bar
Electrical connection size	Form B, industry
Protection class with connection	IP65
Reverse polarity protection	Protected against polarity reversal
Operational voltage	24 V DC
Operational voltage DC	24 V
Voltage tolerance DC	-10 % / +10 %
Coil width	22 mm
Pilot valve width	22 mm
Compatibility index	13
Power consumption	Low power consumption
Power consumption DC	2.6 W
Nominal resistance	223 Ω
Duty cycle	100 %
Typ. switch-on time	22 ms
Typ. switch-off time	20 ms
Blocking principle	Single base plate principle
Blocking principle	Single valve
Can be assembled into blocks	Can be assembled into blocks
Min. ambient temperature	-10 °C
Max. ambient temperature	50 °C
Min. medium temperature	-10 °C
Max. medium temperature	50 °C
Medium	Compressed air
Min. oil content of compressed air	1 mg/m ³
Max. oil content of compressed air	5 mg/m ³
Max. particle size	5 µm
Weight	0.134 kg
Material	
Housing material	Die cast zinc
Seal material	Fluorocautchouc
Part No.	0820019014

Technical information

If the valves are blocked, the permissible ambient temperature drops to 35°C with a 100% duty cycle.

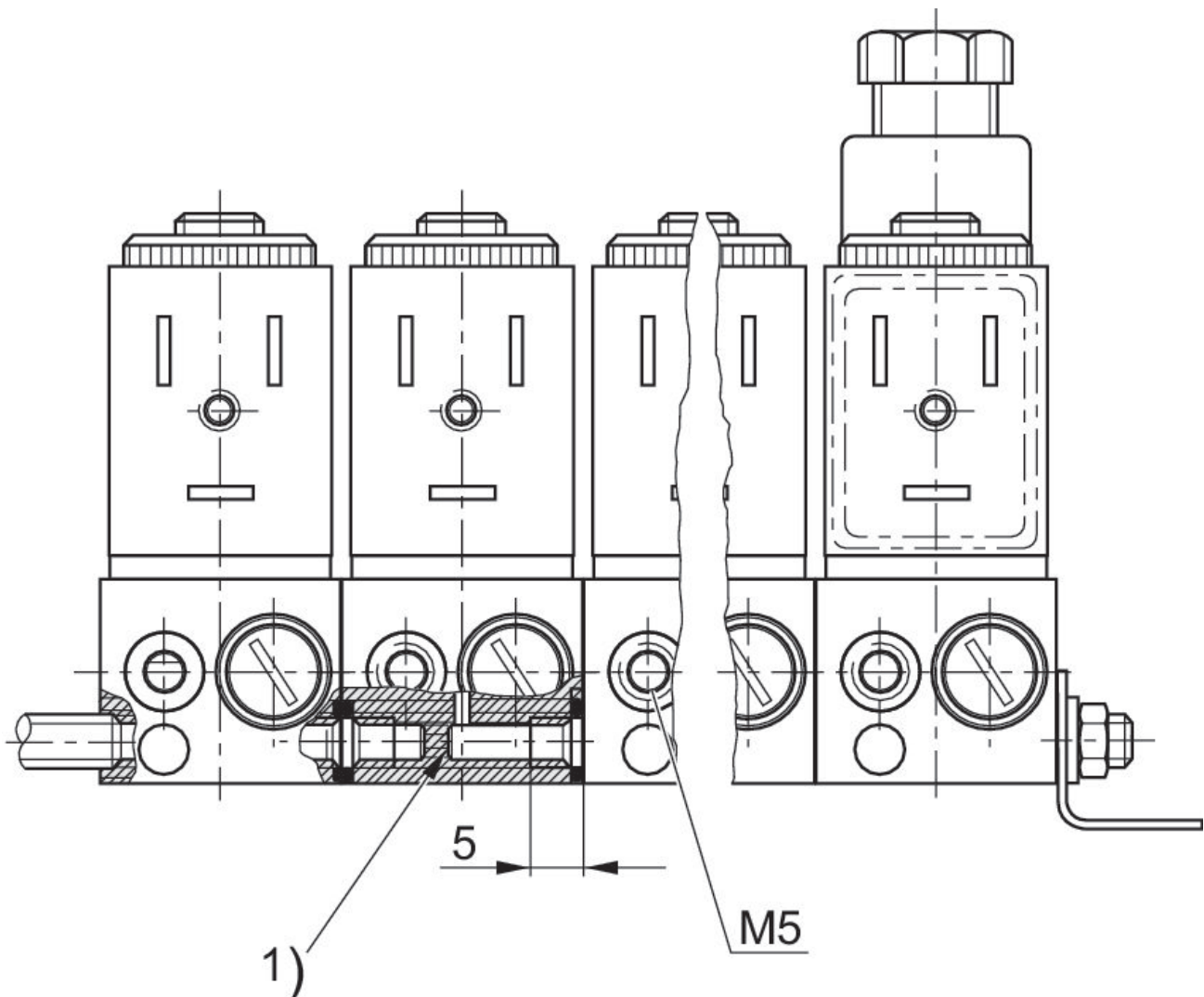
The min. control pressure must be adhered to, since otherwise faulty switching and valve failure may result!

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>).

Overview drawing



Before assembly, the blanking tab must be broken through with a punch (Ø4 mm).

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Dimensions

