3/2-directional valve, Series DO22, M5

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- · 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 Industrial Activation Electrically

Note Archive product: Do not use in new

constructions!

Frame size DO22

Valve type Poppet valve

Switching principle 3/2, with spring return

Valve function NC

Sealing principle Soft seal

Connection type Pipe connection

Manual override with detent

Compressed air connection M5

Standard compressed air connection according to ISO 16030

Compressed air connection input M5
Compressed air connection output M5
Compressed air connection, exhaust M5

Nominal flow Qn 40 I/min
Nominal flow Qn 1 to 2 40 I/min
Nominal flow Qn 2 to 3 52 I/min

Min. working pressure 0 bar

Series DO

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Max. working pressure 10 bar

Electrical connection size Form B, industry

Protection class with connection IP65

Reverse polarity protection Protected against polarity reversal

Operational voltage 24 V AC
Operational voltage AC at 50 Hz 24 V

Voltage tolerance AC 50 Hz -10 % / +10 %

Coil width 22 mm Pilot valve width 22 mm 14 Compatibility index Nominal resistance 26 Ω Holding power AC 50 Hz 8.9 VA Holding power AC 60 Hz 7.3 VA Switch-on power AC 50 Hz 12 VA Switch-on power AC 60 Hz 9.9 VA

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 μ m

Weight 0.134 kg

Material

Housing material Die cast zinc
Seal material Fluorocaoutchouc



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Part No. 0820019005

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!

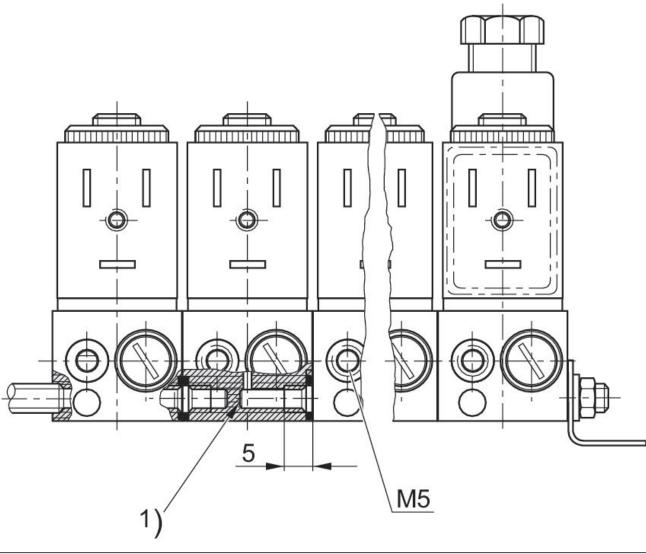
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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).

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Overview drawing



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

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Dimensions

AVENTICS

