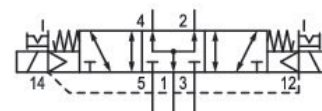


AVENTICS Series CD01-PA Standardized valve systems (ISO 15407-1)

The AVENTICS Series CD01-PA is the flexible valve system according to ISO 15407-1. The Series offers pneumatic or electrical control, vacuum or pressure of up to 16 bar, dual-pressure application, pressure-zones, ATEX certification, and various accessories allow for a wide range of modularity.



Technical data

Industry

Industrial

Activation

Electrically

Version

Pressurized Center

Compressed air connection output

base plate DIN ISO 15407-1

Min. working pressure

-0.95 bar

Max. working pressure

16 bar

Operational voltage

24 V DC

Operational voltage DC

24 V

Voltage tolerance DC

-10% / +10%

Manual override

with detent

Electrical connection type

Plug

Electrical connection size

M12x1

Electrical connection number of poles

4-pin

Sealing principle

Soft seal

Pilot

External

Certificates

Free of substances that impair surface wetting in the coating process

Standards

ISO 15407-1

Pilot valve width

26 mm

Valve type

Spool valve, positive overlapping

5/3-directional valve, Series CD01-PA

2023-12-13

5763850520

Connection type	Plate connection
Compressed air connection input	base plate DIN ISO 15407-1
Compressed air connection, exhaust	base plate DIN ISO 15407-1
Compressed air connection pilot input	base plate DIN ISO 15407-1
Compressed air connection pilot exhaust	base plate DIN ISO 15407-1
Power consumption DC	1.6 W
Frame size	26 mm
Min. control pressure	3 bar
Max. control pressure	10 bar
Min. ambient temperature	-15 °C
Max. ambient temperature	50 °C
Min. medium temperature	-15 °C
Max. medium temperature	50 °C
Medium	Compressed air
Max. particle size	50 µm
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³
Standard compressed air connection	according to ISO 15407-1
Nominal flow Qn 1 to 2	750 l/min
Nominal flow Qn 2 to 3	650 l/min
Protection class with connection	IP65
Protective circuit	43 V bi-directional
LED status display	Yellow
Duty cycle	100 %
Typ. switch-on time	27 ms
Typ. switch-off time	55 ms
Mounting screws	M4 with hexagon socket
Mounting screw tightening torque	2.5 Nm
Weight	0.3 kg
Housing material	Polyamide Polyoxymethylene
Seal material	Acrylonitrile butadiene rubber
Part No.	5763850520

Technical information

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.

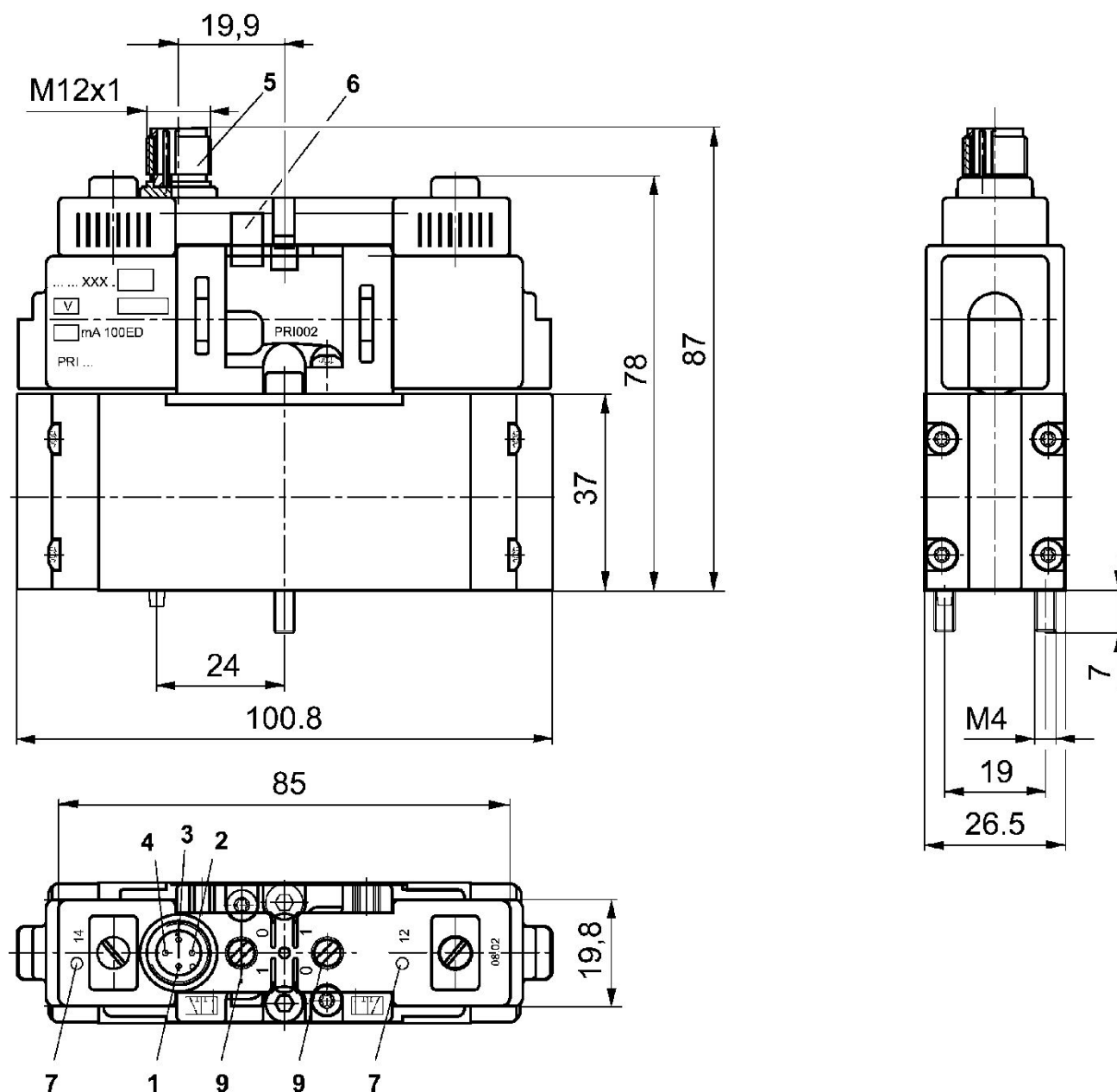
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in <https://www.emerson.com/en-us/support>).

5/3-directional valve, Series CD01-PA

2023-12-13

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Dimensions



1) not assigned 2) magnet 12 3) 0 V 4) magnet 14 5) metal round plug M12x1 6) positioning pin 7) yellow valve switching state LED 9) manual override