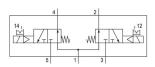
AVENTICS Series CD01-PA Standardized valve systems (ISO 15407-1)

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	NO/NO
Compressed air connection output	base plate DIN ISO 15407-1
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	with detent
Electrical connection type	Plug
Electrical connection size	M12x1
Electrical connection number of poles	4-pin
Sealing principle	Soft seal
Pilot	Internal
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



2x3/2-directional valve, Series CD01-PA

5763970520

Compressed air connection inputbase plate DIN ISO 15407-1Compressed air connection, exhaustbase plate DIN ISO 15407-1Compressed air connection pilot inputbase plate DIN ISO 15407-1Compressed air connection pilot exhaustbase plate DIN ISO 15407-1Power consumption DC1.6 WFrame size26 mmMin. control pressure3 barMax. control pressure10 barMin. ambient temperature-15 °CMax. ambient temperature50 °CMax. medium temperature50 °CMediumCompressed airMin. id content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³Standard compressed air connectionaccording to ISO 15407-1Nominal flow Qn 1 to 2800 l/minNominal flow Qn 2 to 3700 l/minProtection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screws tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubberProtection5763970520	Connection type	Plate connection
Compressed air connection, exhaustbase plate DIN ISO 15407-1Compressed air connection pilot inputbase plate DIN ISO 15407-1Compressed air connection pilot exhaustbase plate DIN ISO 15407-1Power consumption DC1.6 WFrame size26 mmMin. control pressure3 barMax. control pressure10 barMin. ambient temperature-15 °CMax. ambient temperature50 °CMax. medium temperature50 °CMediumCompressed airMax. particle size50 µmMin. oil content of compressed air0 mg/m³Standard compressed air5 mg/m³Standard compressed air connectionaccording to ISO 15407-1Nominal flow Qn 1 to 2800 l/minNominal flow Qn 2 to 3700 l/minProtective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-off time34 msMounting screwsM4 with hexagon socketMounting screwsM4 with hexagon socketMounting screwsPolyamidePolyamidePolyamidePolyamidePolyamidePolyamidePolyamidePolyamidePolyamide		base plate DIN ISO 15407-1
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Max. control pressure10 barMin. ambient temperature-15 °CMax. ambient temperature50 °CMin. medium temperature-15 °CMax. medium temperature50 °CMediumCompressed airMax. particle size50 µmMin. oil content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³Standard compressed air connectionaccording to ISO 15407-1Nominal flow Qn 1 to 2800 l/minNominal flow Qn 2 to 3700 l/minProtection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screws tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Min. control pressure	3 bar
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MediumCompressed airMax. particle size50 µmMin. oil content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³Standard compressed air connectionaccording to ISO 15407-1Nominal flow Qn 1 to 2800 l/minNominal flow Qn 2 to 3700 l/minProtection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Min. medium temperature	-15 °C
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Min. oil content of compressed air0 mg/m³Max. oil content of compressed air5 mg/m³Standard compressed air connectionaccording to ISO 15407-1Nominal flow Qn 1 to 2800 l/minNominal flow Qn 2 to 3700 l/minProtection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screws tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Medium	Compressed air
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Standard compressed air connectionaccording to ISO 15407-1Nominal flow Qn 1 to 2800 l/minNominal flow Qn 2 to 3700 l/minProtection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Min. oil content of compressed air	0 mg/m³
Nominal flow Qn 1 to 2800 l/minNominal flow Qn 2 to 3700 l/minProtection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Max. oil content of compressed air	5 mg/m³
Nominal flow Qn 2 to 3700 l/minProtection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Standard compressed air connection	according to ISO 15407-1
Protection class with connectionIP65Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screws tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Nominal flow Qn 1 to 2	800 l/min
Protective circuit43 V bi-directionalLED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Nominal flow Qn 2 to 3	700 l/min
LED status displayYellowDuty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Protection class with connection	IP65
Duty cycle100 %Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Protective circuit	43 V bi-directional
Typ. switch-on time26 msTyp. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	LED status display	Yellow
Typ. switch-off time34 msMounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Duty cycle	100 %
Mounting screwsM4 with hexagon socketMounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Typ. switch-on time	26 ms
Mounting screw tightening torque2.5 NmWeight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Typ. switch-off time	34 ms
Weight0.28 kgHousing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Mounting screws	M4 with hexagon socket
Housing materialPolyamide PolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Mounting screw tightening torque	2.5 Nm
Seal materialPolyoxymethyleneSeal materialAcrylonitrile butadiene rubber	Weight	0.28 kg
Seal material Acrylonitrile butadiene rubber	Housing material	
•		
Part No. 5763970520		-
	Part No.	5763970520

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.

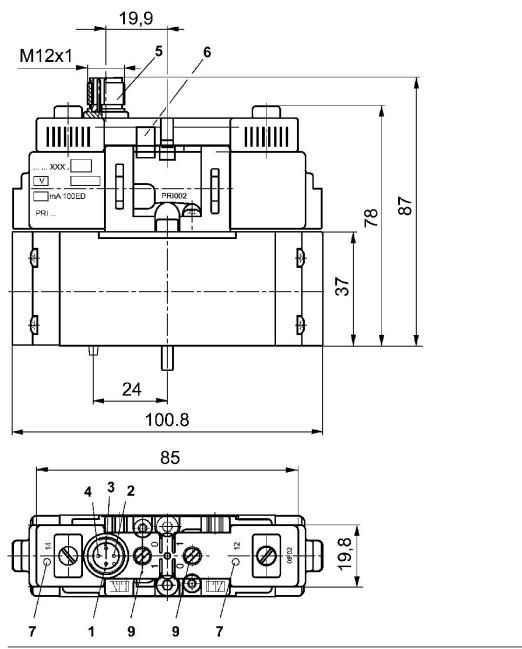
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).

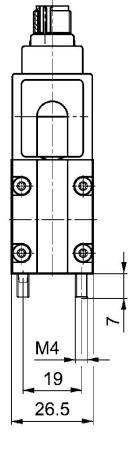


2x3/2-directional valve, Series CD01-PA

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Dimensions

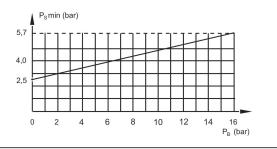




1) not assigned 2) magnet 12 3) 0 V 4) magnet 14 5) metal round plug M12x1 6) positioning pin 7) yellow valve switching state LED 9) manual override

5763970520

Minimum control pressure for externally piloted valves (depending on the working pressure)



P_B = Working pressure PS = control pressure

