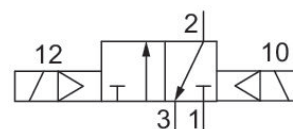


3/2-directional valve, Series CD07-LT

R414012257

General series information
Series CD07-LT

- AVENTICS series CD07-LT consists of various spool valves with an extremely durable aluminum housing. CD07-LT is designed to operate under extreme ambient temperatures from -40 °C to +70 °C and extended voltage tolerance from -30 % to +25 %. The CD07-LT series is ideal for applications in harsh environments and complies with international standards for railroad applications.



Technical data

Industry

Activation

Frame size

Valve type

Switching principle

Valve function

Actuating control

Sealing principle

Connection type

Manual override

Compressed air connection

Compressed air connection input

Compressed air connection output

Compressed air connection, exhaust

Rail

Electrically

CD07-LT

Spool valve, positive overlapping

3/2, double solenoid

NC

Double Solenoid

soft seal

Pipe connection

without

flange

flange

flange

flange

| | |
|---------------------------------------|-------------------------------------|
| Nominal flow Qn | 1000 l/min |
| Nominal flow Qn 1 to 2 | 1000 l/min |
| Nominal flow Qn 2 to 3 | 1000 l/min |
| Working pressure min. | 3 bar |
| Working pressure max | 10 bar |
| Control pressure min. | 3 bar |
| Control pressure max. | 10 bar |
| Electrical connection type | Plug |
| Electrical connection size | EN 175301-803, form A |
| Electrical connection number of poles | 3-pin |
| Connector standard | EN 175301-803:2006 |
| Protection class with connection | IP65 |
| Reverse polarity protection | Protected against polarity reversal |
| Operational voltage | 24 V DC |
| DC operating voltage | 24 V |
| Voltage tolerance DC | -30% / +25% |
| Pilot | Internal |
| Pilot valve width | 30 mm |
| Power consumption DC | 5.5 W |
| Duty cycle | 100 % |
| Typ. switch-on time | 110 ms |
| Typ. switch-off time | 110 ms |
| Min. ambient temperature | -40 °C |
| Max. ambient temperature | 70 °C |
| Min. medium temperature | -40 °C |
| Max. medium temperature | 70 °C |
| Medium | Compressed air |
| Oil content of compressed air min. | 0 mg/m ³ |
| Oil content of compressed air max. | 1 mg/m ³ |
| Max. particle size | 50 µm |
| Weight | 0.76 kg |

Material

| | |
|------------------|--|
| Housing material | Aluminum, anodized Polyamide fiber-glass reinforced |
| Material Coil | Stainless Steel Polyamide |
| Seal material | Hydrogenated nitrile butadiene rubber Polyurethane Silicon |
| Part No. | R414012257 |

Technical information

Nominal flow Q_n at 6 bar and $\Delta p = 1$ bar

Pilot valve mounting on top

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

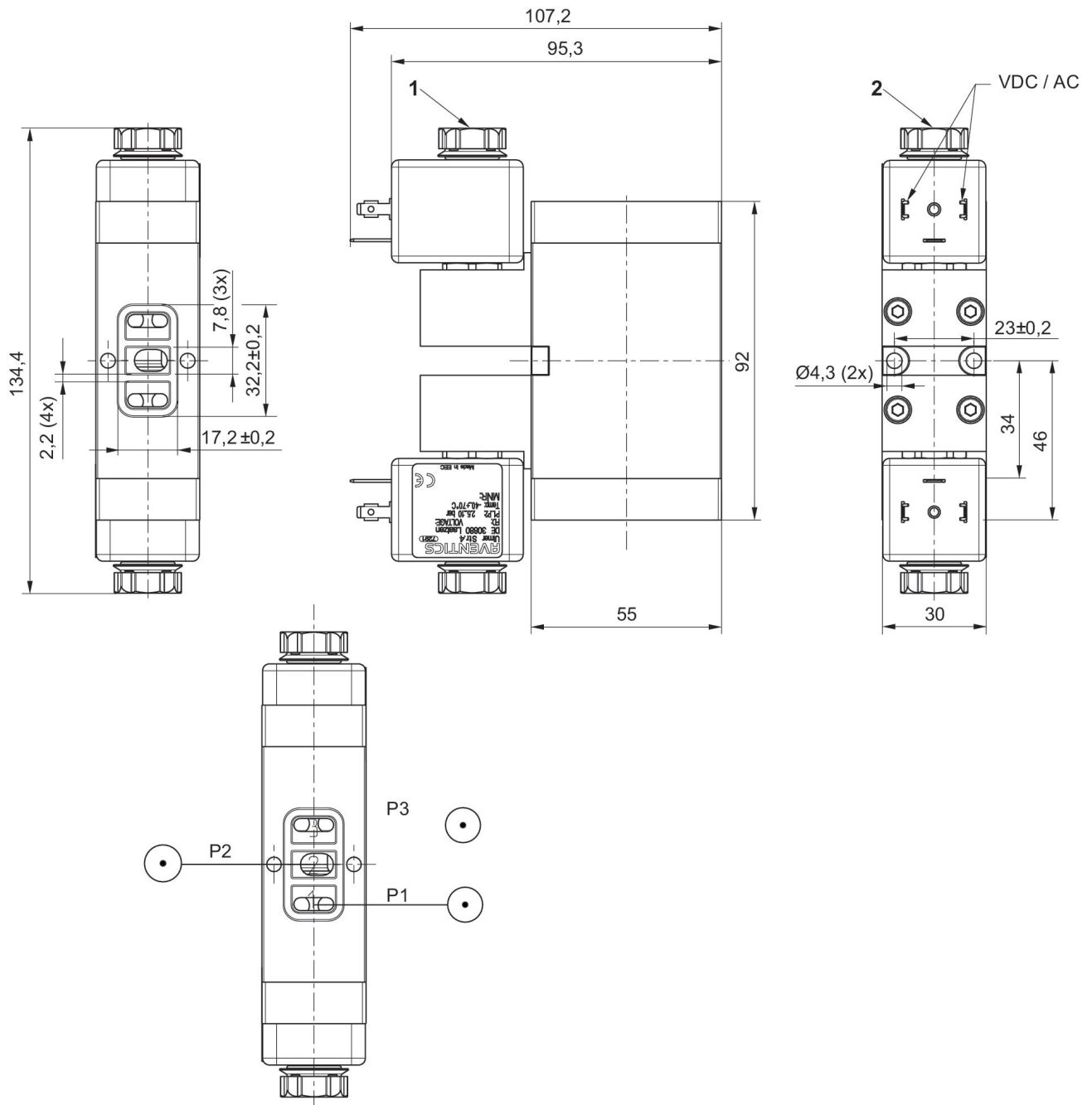
The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

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>).

The protection class is only ensured when the plug is mounted properly. For detailed information, see operating instructions.

Dimensions in mm



- 1) Silencer
- 2) Valve plug connector form A, EN 175301-803