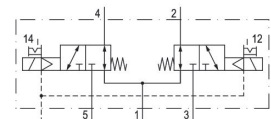
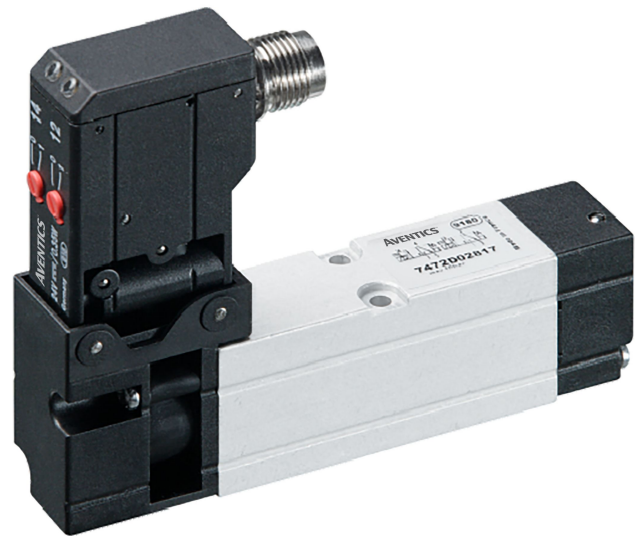


## AVENTICS Series CD02-AL Standardized valve systems (ISO 15407-1)

The AVENTICS Series CD02-AL complies with ISO 15407-1. The piloted controlled valves with a flow rate of up to 650 l/min consist of a robust aluminium body and are available with an individual connection plate as well as a valve system.



## Technical data

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Industry                              | Industrial                        |
| Activation                            | Electrically                      |
| Nominal flow Q <sub>n</sub>           | 450 l/min                         |
| Version                               | NO/NO                             |
| Compressed air connection output      | VDMA 02 base plate                |
| Min. working pressure                 | -0.8 bar                          |
| Max. working pressure                 | 10 bar                            |
| Operational voltage                   | 24 V DC                           |
| Operational voltage DC                | 24 V                              |
| Voltage tolerance DC                  | -15% / +20%                       |
| Manual override                       | with detent                       |
| Electrical connection type            | Plug                              |
| Electrical connection size            | M12                               |
| Electrical connection number of poles | 3-pin                             |
| Sealing principle                     | Soft seal                         |
| Pilot                                 | External                          |
| Standards                             | ISO 15407-1                       |
| Pilot valve width                     | 15 mm                             |
| Valve type                            | Spool valve, positive overlapping |

|                                         |                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------|
| Blocking principle                      | Base plate principle, multiple                                                |
| Connection type                         | Plate connection                                                              |
| Compressed air connection input         | VDMA 02 base plate                                                            |
| Compressed air connection, exhaust      | VDMA 02 base plate                                                            |
| Compressed air connection pilot exhaust | VDMA 02 base plate                                                            |
| Power consumption DC                    | 0.35 W                                                                        |
| Frame size                              | 18 mm                                                                         |
| Min. control pressure                   | 2.5 bar                                                                       |
| Max. control pressure                   | 10 bar                                                                        |
| Min. ambient temperature                | 0 °C                                                                          |
| Max. ambient temperature                | 50 °C                                                                         |
| Min. medium temperature                 | 0 °C                                                                          |
| Max. medium temperature                 | 50 °C                                                                         |
| Medium                                  | Compressed air                                                                |
| Max. particle size                      | 5 µm                                                                          |
| Min. oil content of compressed air      | 0 mg/m <sup>3</sup>                                                           |
| Max. oil content of compressed air      | 5 mg/m <sup>3</sup>                                                           |
| Connector standard                      | EN 61076-2-101                                                                |
| Protection class with connection        | IP65                                                                          |
| Protective circuit                      | TVS diode                                                                     |
| LED status display                      | Yellow                                                                        |
| Duty cycle                              | 100 %                                                                         |
| Typ. switch-on time                     | 12 ms                                                                         |
| Typ. switch-off time                    | 20 ms                                                                         |
| Mounting screws                         | M3                                                                            |
| Weight                                  | 0.12 kg                                                                       |
| Housing material                        | Aluminum                                                                      |
| Seal material                           | Acrylonitrile butadiene rubber<br>Hydrogenated acrylonitrile butadiene rubber |
| Material front plate                    | Polyamide                                                                     |
| Part No.                                | 7472D02827                                                                    |

## 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>).

# 2 x 3/2-directional valve, Series CD02-AL

2023-12-13

7472D02827

## Dimensions

