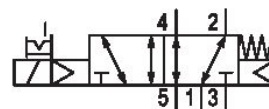


## AVENTICS Series CD02-AL Standardized valve systems (ISO 15407-1)

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 Qn                  | 450 l/min                         |
| Compressed air connection output | VDMA 02 base plate                |
| Min. working pressure            | 2 bar                             |
| Max. working pressure            | 10 bar                            |
| Operational voltage              | 110 V AC                          |
| Operational voltage AC at 50 Hz  | 110 V                             |
| Operational voltage AC at 60 Hz  | 110 V                             |
| Voltage tolerance AC 50 Hz       | -10% / +10%                       |
| Voltage tolerance AC 60 Hz       | -10% / +10%                       |
| Manual override                  | with detent                       |
| Electrical connection type       | Plug                              |
| Electrical connection size       | ISO 15217, form C                 |
| Sealing principle                | Soft seal                         |
| Pilot                            | Internal                          |
| Standards                        | ISO 15407-1                       |
| Pilot valve width                | 15 mm                             |
| Valve type                       | Spool valve, positive overlapping |

# 5/2-directional valve, Series CD02-AL

2023-12-13

0820038179

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|                                         |                                                                               |
|-----------------------------------------|-------------------------------------------------------------------------------|
| Blocking principle                      | Base plate principle, multiple                                                |
| Connection type                         | Plate connection                                                              |
| Return                                  | with spring/air spring return                                                 |
| 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                                                            |
| Holding power AC 50 Hz                  | 1.6 VA                                                                        |
| Holding power AC 60 Hz                  | 1.4 VA                                                                        |
| Switch-on power AC 50 Hz                | 2.2 VA                                                                        |
| Switch-on power AC 60 Hz                | 2 VA                                                                          |
| Frame size                              | 18 mm                                                                         |
| Min. control pressure                   | 2 bar                                                                         |
| Max. control pressure                   | 10 bar                                                                        |
| Min. ambient temperature                | 0 °C                                                                          |
| Max. ambient temperature                | 50 °C                                                                         |
| Min. medium temperature                 | 0 °C                                                                          |
| Max. medium temperature                 | 60 °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                      | ISO 15217                                                                     |
| Protection class with connection        | IP65                                                                          |
| Duty cycle                              | 100 %                                                                         |
| Typ. switch-on time                     | 11 ms                                                                         |
| Typ. switch-off time                    | 14 ms                                                                         |
| Mounting screws                         | M3                                                                            |
| Weight                                  | 0.11 kg                                                                       |
| Housing material                        | Aluminum                                                                      |
| Seal material                           | Acrylonitrile butadiene rubber<br>Hydrogenated acrylonitrile butadiene rubber |
| Material front plate                    | Polyamide                                                                     |
| Part No.                                | 0820038179                                                                    |

## 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>).

## Dimensions

