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

**► Qn = 450 l/min ► Pilot valve width: 15 mm ► plate connection ► compressed air connection output: VDMA 02 base plate ► Electr. connection: Plug, ISO 15217, form C ► Can be assembled into blocks ► Manual override: without detent ► single solenoid, double solenoid ► Pilot: internal**



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| | |
|---|---|
| Standards | ISO 15407-1, 18 mm |
| Version | Spool valve, zero overlap |
| Sealing principle | Soft sealing |
| Blocking principle | Base plate principle, multiple |
| Working pressure min./max. | See table below |
| Ambient temperature min./max. | +0 °C / +50 °C |
| Medium temperature min./max. | +0 °C / +60 °C |
| Medium | Compressed air |
| Max. particle size | 5 µm |
| Oil content of compressed air | 0 mg/m³ - 5 mg/m³ |
| Pneumatic ports | VDMA 02 base plate |
| Connector standard | ISO 15217 |
| Protection classwith electrical connector/plug | IP65 |
| Duty cycle | 100 % |
| Mounting screw | M3 |
| Materials: | |
| Housing | Aluminum, anodized |
| Seals | Acrylonitrile Butadiene Rubber; Hydrogenated acrylonitrile butadiene rubber |
| Front plate | Polyamide |

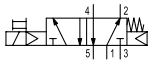
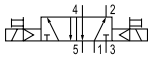
**Technical Remarks**

- 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 under 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, see chapter „Technical information“.

| Operational voltage | | | Voltage tolerance | | | Power consumption | Switch-on power | | Holding power | |
|---|---|---|---|---|---|---|---|---|---|---|
| DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz | DC | AC 50 Hz | AC 60 Hz | AC 50 Hz | AC 60 Hz |
| | | | | | | W | VA | VA | VA | VA |
| - | 24 V | 24 V | - | -10% / +10% | -10% / +10% | - | 2.2 | 2 | 1.6 | 1.4 |
| 24 V | - | - | -10% / +10% | - | - | 2 | - | - | - | - |
| 24 V | - | - | -10% / +10% | - | - | 1 | - | - | - | - |
| - | 110 V | 110 V | - | -10% / +10% | -10% / +10% | - | 2.2 | 2 | 1.6 | 1.4 |
| - | 230 V | 230 V | - | -10% / +10% | -10% / +10% | - | 2.2 | 2 | 1.6 | 1.4 |
| - | 24 V | - | - | -10% / +10% | -10% / +10% | - | 2.2 | 2 | 1.6 | 1.4 |

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| | MO | Operational voltage | | | Qn | Working pressure min./ max. | Control pressure min./ max. | Switch-on time | Switch-off time | | Note | Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DC | AC 50 Hz | AC 60 Hz | | | | | | | | |
| | | | | | [l/min] | [bar] | [bar] | [ms] | [ms] | [kg] | | |
|  |  | - | 24 V | 24 V | 450 | 2 / 10 | 2 / 10 | 11 | 14 | 0.11 | - | **0820038154** |
| | | 24 V | - | - | | | | 11 | 14 | | - | **0820038152** |
| | | 24 V | - | - | | | | 12 | 16 | | 1) | **0820038153** |
| | | - | 110 V | 110 V | | | | 11 | 14 | | - | **0820038155** |
| | | - | 230 V | 230 V | | | | 11 | 14 | | - | **0820038151** |
|  |  | - | 24 V | - | 450 | 1.5 / 10 | 1.5 / 10 | 8 | 8 | 0.16 | - | 0820038654 |
| | | 24 V | - | - | | | | 8 | 8 | | - | **0820038652** |
| | | 24 V | - | - | | | | 10 | 10 | | 1) | **0820038653** |
| | | - | 110 V | 110 V | | | | 8 | 8 | | - | **0820038655** |
| | | - | 230 V | 230 V | | | | 8 | 8 | | - | 0820038651 |

HHB = Manual override
1) Low power consumption
Nominal flow Qn at 6 bar and Δp = 1 bar

### Dimensions

