

**Air solenoid valve**  
**VZWD-L-M22C-M-N14-50-V-1P4-5-R1**  
Part number: 1491901

**FESTO**



**Data sheet**

| Feature                          | Value                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Structural design                | Directly controlled poppet valve                                                                                                     |
| Actuation type                   | Electrical                                                                                                                           |
| Sealing principle                | Soft                                                                                                                                 |
| Mounting position                | Any                                                                                                                                  |
| Type of mounting                 | Line installation                                                                                                                    |
| Fitting connection               | 1/4 NPT                                                                                                                              |
| Electrical connection            | Form A<br>Plug<br>as per EN 175301-803<br>Rectangular design                                                                         |
| Nominal width                    | 5 mm                                                                                                                                 |
| Valve function                   | 2/2, closed, monostable                                                                                                              |
| Manual override                  | None                                                                                                                                 |
| Flow direction                   | Non-reversible                                                                                                                       |
| Medium                           | Compressed air as per ISO 8573-1:2010 [7:4:4]<br>Inert gas<br>Mineral oil<br>Water<br>Neutral liquids<br>Other flow media on request |
| Nominal pressure of fitting PN   | 100                                                                                                                                  |
| Pressure difference              | 0 MPa<br>0 psi                                                                                                                       |
| Differential pressure            | 0 bar                                                                                                                                |
| Coil characteristics             | 24 V DC: 11.0 W                                                                                                                      |
| Insulation class                 | H                                                                                                                                    |
| Permissible voltage fluctuations | +/- 10 %                                                                                                                             |
| Duty cycle                       | 100%                                                                                                                                 |
| Reset method                     | Mechanical spring                                                                                                                    |

| Feature                          | Value                                                |
|----------------------------------|------------------------------------------------------|
| Type of control                  | Direct                                               |
| Medium pressure                  | 0 MPa...0.5 MPa<br>0 bar...5 bar<br>0 psi...72.5 psi |
| Max. viscosity                   | 22 mm²/s                                             |
| Temperature of medium            | -10 °C...80 °C                                       |
| Ambient temperature              | -10 °C...35 °C                                       |
| Leak rate to EN 12266-1          | A                                                    |
| Flow rate Kv                     | 0.35 m³/h                                            |
| Standard nominal flow rate       | 375 l/min                                            |
| On switching time                | 20 ms                                                |
| Switching time off               | 18 ms                                                |
| Note on materials                | RoHS-compliant                                       |
| LABS (PWIS) conformity           | VDMA24364 zone III                                   |
| Housing material                 | High-alloy stainless steel                           |
| Material number of housing       | 1.4305                                               |
| Seals material                   | FPM                                                  |
| Product weight                   | 650 g                                                |
| Degree of protection             | IP65                                                 |
| Corrosion resistance class (CRC) | 3 - High corrosion stress                            |