

# Air solenoid valve

## VZWD-L-M22C-M-N18-25-V-2AP4-22-R1

Part number: 1491968

**FESTO**



### Data sheet

| Feature                          | Value                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Structural design                | Directly actuated poppet valve                                                                                                       |
| Actuation type                   | Electrical                                                                                                                           |
| Sealing principle                | Soft                                                                                                                                 |
| Mounting position                | Any                                                                                                                                  |
| Type of mounting                 | In-line installation                                                                                                                 |
| Fitting connection               | 1/8 NPT                                                                                                                              |
| Electrical connection            | Type A<br>Plug<br>As per EN 175301-803<br>Rectangular design                                                                         |
| Nominal width                    | 2.5 mm                                                                                                                               |
| Valve function                   | 2/2-way, 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             | 110 V AC: 50/60 Hz, initial power 19.0 VA, holding power 16.0 VA                                                                     |
| Insulation class                 | F                                                                                                                                    |
| Permissible voltage fluctuations | +/- 10%                                                                                                                              |
| Duty cycle                       | 100%                                                                                                                                 |
| Reset method                     | Mechanical spring                                                                                                                    |

| Feature                                           | Value                                                |
|---------------------------------------------------|------------------------------------------------------|
| Type of control                                   | directly                                             |
| Medium pressure                                   | 0 MPa...2.2 MPa<br>0 bar...22 bar<br>0 psi...319 psi |
| Max. viscosity                                    | 22 mm <sup>2</sup> /s                                |
| Temperature of medium                             | -10 °C...80 °C                                       |
| Ambient temperature                               | -10 °C...35 °C                                       |
| Leak rate to EN 12266-1                           | A                                                    |
| Flow rate Kv                                      | 0.16 m <sup>3</sup> /h                               |
| Normal nominal flow rate (normalized to DIN 1343) | 170 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                                                  |
| Armature tube material                            | High-alloy steel                                     |
| Product weight                                    | 500 g                                                |
| CE marking (see declaration of conformity)        | As per EU low voltage directive                      |
| UKCA marking (see declaration of conformity)      | To UK instructions for electrical equipment          |
| Degree of protection                              | IP65                                                 |
| Corrosion resistance class (CRC)                  | 3 - High corrosion stress                            |
| Max. tightening torque for connecting thread      | 10 Nm                                                |
| Max. tightening torque for coil fastening         | 2 Nm                                                 |