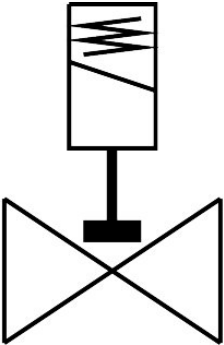


# Air solenoid valve

## VZWD-L-M22C-M-N18-10-V-1P4-90

Part number: 1491871

**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                    | 1 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             | 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                                   | directly                                            |
| Medium pressure                                   | 0 MPa...9 MPa<br>0 bar...90 bar<br>0 psi...1305 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                                      | 0.06 m <sup>3</sup> /h                              |
| Normal nominal flow rate (normalized to DIN 1343) | 60 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                                  | Cast brass                                          |
| Material number of housing                        | CW617N                                              |
| Seals material                                    | FPM                                                 |
| Armature tube material                            | High-alloy steel                                    |
| Product weight                                    | 550 g                                               |
| Degree of protection                              | IP65                                                |
| Corrosion resistance class (CRC)                  | 1 - Low corrosion stress                            |
| Max. tightening torque for connecting thread      | 10 Nm                                               |
| Max. tightening torque for coil fastening         | 2 Nm                                                |