

# Air solenoid valve

## VZWD-L-M22C-M-N18-20-V-2AP4-15

FESTO

Part number: 1491944



[PDF](#) General operating condition

## 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            | Plug<br>As per EN 175301-803<br>Rectangular design   |
| Nominal width                    | 2 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   | 50   |
| Pressure difference              | 0 MPa  |
| Differential pressure            | 0 bar  |
| Pressure difference              | 0 psi  |
| Coil characteristics             | 110 V AC: 50/60 Hz, initial power 10.5 VA, holding power 8.0 VA  |
| Insulation class                 | F  |
| Permissible voltage fluctuations | +/- 10%  |
| Duty cycle                       | 100%   |
| Reset method                     | Mechanical spring  |
| Type of control                  | directly   |
| Symbol                           | 00992979   |
| Medium pressure                  | 0 MPa ... 1.5 MPa  |

| Feature   | Value                                       |
|---|---|
| Medium pressure                                   | 0 bar ... 15 bar                            |
| Medium pressure                                   | 0 psi ... 217.5 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                                      | 0.13 m <sup>3</sup> /h                      |
| Normal nominal flow rate (normalized to DIN 1343) | 140 l/min                                   |
| On switching time                                 | 25 ms                                       |
| Switching time off                                | 10 ms                                       |
| Note on materials                                 | RoHS compliant                              |
| LABS (PWIS) conformity                            | VDMA24364 Zone III                          |
| Housing material                                  | Brass                                       |
| Material number of housing                        | CW614N                                      |
| Seals material                                    | FPM   |
| Armature tube material                            | High-alloy steel                            |
| Product weight                                    | 300 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)                  | 1 - Low corrosion stress                    |
| Max. tightening torque for connecting thread      | 10 Nm                                       |
| Max. tightening torque for coil fastening         | 2 Nm  |