

# Air solenoid valve

## VZWD-L-M22C-M-G14-10-V-3AP4-90

FESTO

Part number: 1491996



[PDF](#) General operating condition

## 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               | G1/4   |
| Electrical connection            | Plug<br>as per EN 175301-803<br>Rectangular design   |
| Nominal width                    | 1 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  |
| Differential pressure            | 0 bar  |
| Pressure difference              | 0 psi  |
| Coil characteristics             | 230 V AC: 50/60 Hz, initial power 18.0 VA, holding power 15.0 VA   |
| Insulation class                 | F  |
| Permissible voltage fluctuations | +/- 10 %   |
| Duty cycle                       | 100%   |
| Reset method                     | Mechanical spring  |
| Type of control                  | Direct   |
| Symbol                           | 00992979   |
| Medium pressure                  | 0 MPa ... 9 MPa  |

| <b>Feature</b>                                    | <b>Value</b>                                |
|---|---|
| Medium pressure                                   | 0 bar ... 90 bar                            |
| Medium pressure                                   | 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                                       |
| 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      | 35 Nm                                       |
| Max. tightening torque for coil fastening         | 2 Nm  |