

# Air solenoid valve

## VZWD-L-M22C-M-N14-20-V-2AP4-40

Part number: 1491959

FESTO



### Data sheet

 General operating condition

| 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                    | 2 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             | 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                                                                                                                    |
| Type of control                  | Direct                                                                                                                               |
| Symbol                           | 00992979                                                                                                                             |
| Medium pressure                  | 0 MPa ... 4 MPa                                                                                                                      |

| Feature                                      | Value                                       |
|----------------------------------------------|---------------------------------------------|
| Medium pressure                              | 0 bar ... 40 bar                            |
| Medium pressure                              | 0 psi ... 580 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                      |
| Standard nominal flow rate                   | 140 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                                        |