

# Solenoid valve

## VZWD-L-M22C-M-N14-25-V-2AP4-22

Part number: 1491960

**FESTO**



## Data sheet

| Feature                          | Value                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Design                           | Directly actuated poppet valve                                                                                               |
| Type of actuation                | Electrical                                                                                                                   |
| Sealing principle                | Soft                                                                                                                         |
| Mounting position                | Any                                                                                                                          |
| Type of mounting                 | Inline installation                                                                                                          |
| Connection Process valve         | 1/4 NPT                                                                                                                      |
| Electrical connection            | Type A<br>Plug<br>To EN 175301-803<br>Square design                                                                          |
| Nominal size                     | 2.5 mm                                                                                                                       |
| Valve function                   | 2/2-way, single solenoid, closed                                                                                             |
| Manual override                  | None                                                                                                                         |
| Flow direction                   | Non-reversible                                                                                                               |
| Medium                           | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases<br>Mineral oil<br>Water<br>Neutral fluids<br>Other media on request |
| Nominal pressure PN              | 100                                                                                                                          |
| Pressure difference              | 0 MPa<br>0 bar<br>0 psi                                                                                                      |
| Characteristic coil data         | 110 V AC: 50/60 Hz, pick-up power 19.0 VA, holding power 16.0 VA                                                             |
| Insulation material class        | F                                                                                                                            |
| Permissible voltage fluctuations | +/-10%                                                                                                                       |
| Duty cycle                       | 100%                                                                                                                         |
| Type of reset                    | Mechanical spring                                                                                                            |

| Feature                                               | Value                                                |
|-------------------------------------------------------|------------------------------------------------------|
| Type of piloting                                      | Direct                                               |
| 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                                |
| Media temperature                                     | -10 °C...80 °C                                       |
| Ambient temperature                                   | -10 °C...35 °C                                       |
| Leakage rate to EN 12266-1                            | A                                                    |
| Flow rate Kv                                          | 0.16 m <sup>3</sup> /h                               |
| Standard nominal flow rate (standardised to DIN 1343) | 170 l/min                                            |
| Switching time on                                     | 20 ms                                                |
| Switching time off                                    | 18 ms                                                |
| Note on materials                                     | RoHS compliant                                       |
| LABS (PWIS) conformity                                | VDMA24364 zone III                                   |
| Material housing                                      | Cast brass                                           |
| Material number housing                               | CW617N                                               |
| Material seals                                        | Fluoro rubber                                        |
| Material plunger tube                                 | High-alloy steel                                     |
| Product weight                                        | 550 g                                                |
| CE mark (see declaration of conformity)               | To EU Low Voltage Directive                          |
| UKCA marking (see declaration of conformity)          | To UK regulations 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                                                 |