

# Solenoid valve

## VZWD-L-M22C-M-G14-20-V-1P4-40-R1

Part number: 1491858

**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         | G1/4                                                                                                                         |
| Electrical connection            | Type A<br>Plug<br>To EN 175301-803<br>Square design                                                                          |
| Nominal size                     | 2 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         | 24 V DC: 11.0 W                                                                                                              |
| Insulation material class        | H                                                                                                                            |
| Permissible voltage fluctuations | +/-10%                                                                                                                       |
| Duty cycle                       | 100%                                                                                                                         |
| Type of reset                    | Mechanical spring                                                                                                            |

| Feature                                               | Value                                              |
|-------------------------------------------------------|----------------------------------------------------|
| Type of piloting                                      | Direct                                             |
| Medium pressure                                       | 0 MPa...4 MPa<br>0 bar...40 bar<br>0 psi...580 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                                          | 0.13 m <sup>3</sup> /h                             |
| Standard nominal flow rate (standardised to DIN 1343) | 140 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                                      | High-alloy stainless steel                         |
| Material number housing                               | 1,4305                                             |
| Material seals                                        | Fluoro rubber                                      |
| Material plunger tube                                 | High-alloy steel                                   |
| Product weight                                        | 650 g                                              |
| Degree of protection                                  | IP65                                               |
| Corrosion resistance class CRC                        | 3 - high corrosion stress                          |
| Max. tightening torque for connecting thread          | 35 Nm                                              |
| Max. tightening torque for coil fastening             | 2 Nm                                               |