

# Solenoid valve

## VZWD-L-M22C-M-N14-25-V-1P4-22-R1

Part number: 1491898

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                          | Value                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Design                           | Directly actuated poppet valve                                                                                               |
| Type of actuation                | Electric                                                                                                                     |
| Sealing principle                | Soft                                                                                                                         |
| Mounting position                | optional                                                                                                                     |
| Type of mounting                 | In-line installation                                                                                                         |
| Connection Process valve         | 1/4 NPT                                                                                                                      |
| Electrical connection            | Type A<br>Plugs<br>To EN 175301-803<br>Square design                                                                         |
| Nominal size                     | 2.5 mm                                                                                                                       |
| Valve function                   | 2/2-way, closed, monostable                                                                                                  |
| 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                                                                                                                        |
| Pressure difference              | 0 bar                                                                                                                        |
| Pressure difference              | 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                                                                                                            |
| Type of piloting                 | Direct                                                                                                                       |
| Symbol                           | 00992979                                                                                                                     |
| Medium pressure                  | 0 MPa ... 2.2 MPa                                                                                                            |

| Feature                                               | Value                      |
|-------------------------------------------------------|----------------------------|
| Medium pressure                                       | 0 bar ... 22 bar           |
| Medium pressure                                       | 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                                      | High-alloy stainless steel |
| Material number housing                               | 1.4305                     |
| Material seals                                        | FPM                        |
| 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                       |