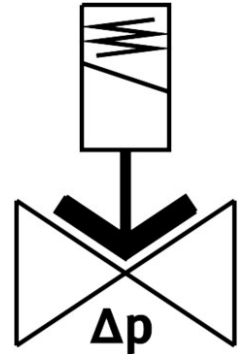


# Air solenoid valve VZWM-L-M22C-N14-F4

Part number: 546154

**FESTO**



## Data sheet

 General operating condition

| Feature                          | Value                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------|
| Structural design                | servo-controlled                                                                       |
| Actuation type                   | Electrical                                                                             |
| Sealing principle                | Soft                                                                                   |
| Mounting position                | Preferably upright                                                                     |
| Type of mounting                 | Line installation                                                                      |
| Fitting connection               | 1/4 NPT                                                                                |
| Electrical connection            | Solenoid coil type MD-..., coil can be ordered as an accessory                         |
| Nominal width                    | 13.5 mm                                                                                |
| Valve function                   | 2/2, closed, monostable                                                                |
| Flow direction                   | Non-reversible                                                                         |
| Medium                           | Compressed air as per ISO 8573-1:2010 [7:4:4]<br>Inert gas<br>Water<br>Neutral liquids |
| Medium pressure of liquid media  | 0.05 MPa ... 0.6 MPa                                                                   |
| Medium pressure of liquid media  | 0.5 bar ... 6 bar                                                                      |
| Medium pressure of liquid media  | 7.25 psi ... 87 psi                                                                    |
| Medium pressure of gaseous media | 0.05 MPa ... 1 MPa                                                                     |
| Medium pressure of gaseous media | 0.5 bar ... 10 bar                                                                     |
| Medium pressure of gaseous media | 7.25 psi ... 145 psi                                                                   |
| Burst pressure                   | 4 MPa                                                                                  |
| Burst pressure                   | 40 bar                                                                                 |
| Burst pressure                   | 580 psi                                                                                |
| Overload pressure                | 4 MPa                                                                                  |
| Overload pressure                | 40 bar                                                                                 |
| Overload pressure                | 580 psi                                                                                |
| Pressure difference              | 0.05 MPa                                                                               |
| Differential pressure            | 0.5 bar                                                                                |
| Pressure difference              | 7.25 psi                                                                               |
| Type of control                  | Pilot-controlled                                                                       |

| Feature                                      | Value                    |
|----------------------------------------------|--------------------------|
| Symbol                                       | 00995681                 |
| Max. viscosity                               | 22 mm <sup>2</sup> /s    |
| Temperature of medium                        | -10 °C ... 60 °C         |
| Temperature of liquid media                  | 5 °C ... 50 °C           |
| Ambient temperature                          | -10 °C ... 60 °C         |
| Flow rate Kv                                 | 1.6 m <sup>3</sup> /h    |
| Standard nominal flow rate                   | 1400 l/min               |
| On switching time                            | 8 ms                     |
| Response time "on" for liquid media          | 100 ms                   |
| Switching time off                           | 10 ms                    |
| Response time "off" for liquid media         | 200 ms                   |
| b-value                                      | 0.3                      |
| C value                                      | 6 l/sbar                 |
| Note on materials                            | RoHS-compliant           |
| LABS (PWIS) conformity                       | VDMA24364 zone III       |
| Housing material                             | Brass                    |
| Material number of housing                   | 2.0402                   |
| Seals material                               | NBR                      |
| Armature tube material                       | High-alloy steel         |
| Product weight                               | 500 g                    |
| Corrosion resistance class (CRC)             | 1 - Low corrosion stress |
| Max. torque for cover screw                  | 20 Nm                    |
| Max. tightening torque for connecting thread | 35 Nm                    |
| Max. tightening torque for coil fastening    | 0.5 Nm                   |