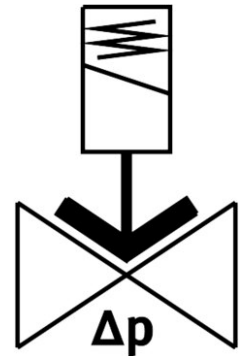


# Air solenoid valve VZWM-L-M22C-N1-F5-R1

Part number: 546174

**FESTO**



 General operating condition

## Data sheet

| Feature                          | Value                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------|
| Structural design                | servo-controlled                                                                       |
| Actuation type                   | Electrical                                                                             |
| Sealing principle                | Soft                                                                                   |
| Mounting position                | Preferably upright                                                                     |
| Type of mounting                 | Line installation                                                                      |
| Fitting connection               | 1 NPT                                                                                  |
| Electrical connection            | Solenoid coil type MH-..., coil can be ordered as an accessory                         |
| Nominal width                    | 25 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                | 3.5 MPa                                                                                |
| Overload pressure                | 35 bar                                                                                 |
| Overload pressure                | 507.5 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                                 | 10.7 m <sup>3</sup> /h                             |
| Standard nominal flow rate                   | 11700 l/min                                        |
| On switching time                            | 15 ms                                              |
| Response time "on" for liquid media          | 300 ms                                             |
| Switching time off                           | 12 ms                                              |
| Response time "off" for liquid media         | 950 ms                                             |
| b-value                                      | 0.57                                               |
| C value                                      | 41 l/sbar                                          |
| Note on materials                            | RoHS-compliant                                     |
| LABS (PWIS) conformity                       | VDMA24364 zone III                                 |
| Housing material                             | Cast stainless steel                               |
| Material number of housing                   | 1.4581                                             |
| Seals material                               | NBR                                                |
| Armature tube material                       | High-alloy steel                                   |
| Product weight                               | 1100 g                                             |
| CE marking (see declaration of conformity)   | as per EU pressure equipment directive             |
| UKCA marking (see declaration of conformity) | according to UK regulations for pressure equipment |
| Corrosion resistance class (CRC)             | 3 - High corrosion stress                          |
| Max. torque for cover screw                  | 30 Nm                                              |
| Max. tightening torque for connecting thread | 350 Nm                                             |
| Max. tightening torque for coil fastening    | 2 Nm                                               |