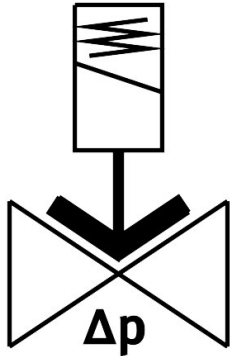


# Air solenoid valve VZWM-L-M22C-N38-F4

Part number: 546155

**FESTO**



## Data sheet

| Feature                          | Value                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------|
| Structural design                | Diaphragm valve<br>Servo-controlled                                                    |
| Actuation type                   | Electrical                                                                             |
| Sealing principle                | Soft                                                                                   |
| Mounting position                | Preferably upright                                                                     |
| Type of mounting                 | In-line installation                                                                   |
| Fitting connection               | 3/8 NPT                                                                                |
| Electrical connection            | Solenoid coil type MD-... , coil can be ordered as an accessory                        |
| Nominal width                    | 13.5 mm                                                                                |
| Valve function                   | 2/2-way, 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<br>0.5 bar...6 bar<br>7.25 psi...87 psi                             |
| Medium pressure of gaseous media | 0.05 MPa...1 MPa<br>0.5 bar...10 bar<br>7.25 psi...145 psi                             |
| Burst pressure                   | 4 MPa<br>40 bar<br>580 psi                                                             |
| Overload pressure                | 4 MPa<br>40 bar<br>580 psi                                                             |
| Pressure difference              | 0.05 MPa<br>7.25 psi                                                                   |
| Differential pressure            | 0.5 bar                                                                                |

| Feature                                           | Value                    |
|---------------------------------------------------|--------------------------|
| Type of control                                   | Piloted                  |
| Max. viscosity                                    | 22 mm²/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                                      | 2 m³/h                   |
| Normal nominal flow rate (normalized to DIN 1343) | 2100 l/min               |
| On switching time                                 | 8 ms                     |
| Response time "on" for liquid media               | 110 ms                   |
| Switching time off                                | 10 ms                    |
| Response time "off" for liquid media              | 210 ms                   |
| b-value                                           | 0.35                     |
| C value                                           | 8.8 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                                    | 450 g                    |
| Corrosion resistance class (CRC)                  | 1 - Low corrosion stress |
| Max. torque for cover screw                       | 20 Nm                    |
| Max. tightening torque for connecting thread      | 60 Nm                    |
| Max. tightening torque for coil fastening         | 0.5 Nm                   |