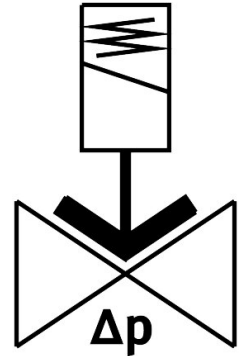
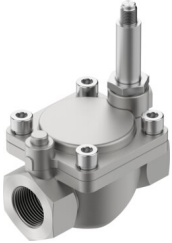


# Air solenoid valve VZWM-L-M22C-G1-F5-R1

Part number: 546166

**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               | G1                                                                                     |
| Electrical connection            | Solenoid coil type MH-... , coil can be ordered as an accessory                        |
| Nominal width                    | 25 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                | 3.5 MPa<br>35 bar<br>507.5 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                                      | 10.7 m³/h                                          |
| Normal nominal flow rate (normalized to DIN 1343) | 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                                               |