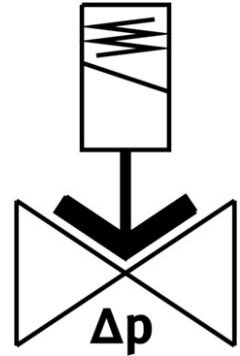


# Air solenoid valve VZWM-L-M22C-N14-F5-R1

Part number: 546170

FESTO



 General operating condition

## Data sheet

| Feature                              | Value                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------|
| Structural design                    | Diaphragm valve<br>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 MH-..., coil can be ordered as an accessory                         |
| Nominal width                        | 13 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      | 0.5 bar ... 6 bar                                                                      |
| Medium pressure of gaseous media     | 0.5 bar ... 10 bar                                                                     |
| Differential pressure                | 0.5 bar                                                                                |
| Type of control                      | Pilot-controlled                                                                       |
| 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  | 80 ms                                                                                  |
| Switching time off                   | 10 ms                                                                                  |
| Response time "off" for liquid media | 210 ms                                                                                 |

| Feature                                      | Value                     |
|----------------------------------------------|---------------------------|
| b-value                                      | 0.3                       |
| C value                                      | 6 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                               | 400 g                     |
| Corrosion resistance class (CRC)             | 3 - High corrosion stress |
| Max. torque for cover screw                  | 20 Nm                     |
| Max. tightening torque for connecting thread | 35 Nm                     |
| Max. tightening torque for coil fastening    | 2 Nm                      |