

# Angle seat valve

## VZXF-L-M22C-M-B-N2-450-M1-V4B2T-50-3

Part number: 3540144

FESTO



## Data sheet

| Feature                        | Value                                                                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Structural design              | Poppet valve with piston actuator                                                                                                                    |
| Actuation type                 | Pneumatic                                                                                                                                            |
| Sealing principle              | Soft                                                                                                                                                 |
| Mounting position              | Any                                                                                                                                                  |
| Type of mounting               | In-line installation                                                                                                                                 |
| Cable connection               | Threaded sleeve 2 NPT as per ANSI/ASME B 1.20.1                                                                                                      |
| Nominal width                  | 45 mm                                                                                                                                                |
| Valve function                 | 2/2-way, closed, monostable                                                                                                                          |
| Flow direction                 | Non-reversible<br>Under valve seat, for gaseous and liquid media                                                                                     |
| Medium pressure                | 0 MPa...0.3 MPa<br>0 bar...3 bar                                                                                                                     |
| Nominal pressure of fitting PN | 40                                                                                                                                                   |
| Exhaust air function           | Cannot be throttled                                                                                                                                  |
| Reset method                   | Mechanical spring                                                                                                                                    |
| Type of control                | Externally controlled                                                                                                                                |
| Pneumatic connection           | Internal thread G1/8                                                                                                                                 |
| Operating pressure             | 0.6 MPa...1 MPa<br>6 bar...10 bar<br>87 psi...145 psi                                                                                                |
| Medium                         | Vapor<br>Hydraulic fluid based on mineral oil<br>Inert gas<br>Mineral oil<br>Water<br>Filtered compressed air, 200 µm filter mesh<br>Neutral liquids |
| Operating medium               | Compressed air as per ISO 8573-1:2010 [7:4:4]                                                                                                        |
| Max. viscosity                 | 600 mm <sup>2</sup> /s                                                                                                                               |
| Temperature of medium          | -40 °C...200 °C                                                                                                                                      |
| Ambient temperature            | -10 °C...60 °C                                                                                                                                       |
| Flow rate Kv                   | 19.5 m <sup>3</sup> /h                                                                                                                               |
| Note on materials              | RoHS compliant                                                                                                                                       |
| LABS (PWIS) conformity         | VDMA24364 Zone III                                                                                                                                   |

| Feature                                      | Value                                              |
|----------------------------------------------|----------------------------------------------------|
| Valve housing material                       | Cast stainless steel                               |
| Material number, fitting housing             | 1,4408                                             |
| Spindle seal material                        | PTFE                                               |
| Seat seal material                           | PTFE                                               |
| Product weight                               | 3500 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)             | 2 - Moderate corrosion stress                      |
| Drive housing material                       | Brass, nickel-plated                               |