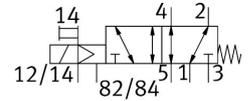


# Solenoid valve

## VUVX-BK10-M52-MZH-F-1T1L

FESTO

Part number: 8187057



## Data sheet

| Feature  | Value                                   |
|--|---|
| Valve function   | 5/2-way, monostable                     |
| Type of actuation                                      | Electric                                |
| Valve size   | 10 mm                                   |
| Nominal flow rate standardised according to ISO 8778   | 730 l/min                               |
| Operating voltage                                      | 24V DC                                  |
| Operating pressure                                     | -0.09 MPa...0.7 MPa<br>-0.9 bar...7 bar |
| Design   | Piston slide with sealing ring          |
| Type of reset  | Mechanical spring                       |
| Degree of protection                                   | IP65                                    |
| Width  | 10.35 mm                                |
| Nominal size   | 4.2 mm                                  |
| Exhaust-air function                                   | With flow control option                |
| Sealing principle                                      | Soft                                    |
| Mounting position                                      | optional                                |
| Manual override  | Non-detenting                           |
| Type of piloting                                       | Pilot actuated                          |
| Pilot air supply                                       | External                                |
| Flow direction   | Reversible                              |
| lap  | Underlap                                |
| Signal status display                                  | yes                                     |
| Pilot pressure   | 0.25 MPa...0.7 MPa<br>2.5 bar...7 bar   |
| Suitability for vacuum                                 | yes                                     |
| b value  | 0.36                                    |
| C value  | 2.76 l/sbar                             |
| Nominal flow rate standardised to ISO 8778 exhaust 2-3 | 700 l/min                               |
| Max. switching frequency                               | 3 Hz                                    |
| Switching time off                                     | 32 ms                                   |
| Switching time on                                      | 8 ms                                    |
| Duty cycle   | 100%                                    |
| Max. positive test pulse with 0 signal                 | 1400 µs                                 |

| Feature                                   | Value  |
|---|--|
| Max. negative test pulse with 1 signal    | 800 µs   |
| Characteristic coil data                  | 24 V DC: 0.35 W  |
| Permissible voltage fluctuations          | +/- 10 %   |
| Operating medium                          | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases   |
| Note on operating and pilot medium        | Ester oil < 0.1mg/m <sup>3</sup> , according to ISO 8573-1:2010 [:-:2]<br>Lubricated operation possible (in which case lubricated operation will always be required) |
| Vibration resistance                      | Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6   |
| Shock resistance                          | Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27  |
| Corrosion resistance class CRC            | 1 - Low corrosion stress   |
| LABS (PWIS) conformity                    | VDMA24364 zone III   |
| Storage temperature                       | -20 °C...70 °C   |
| Suitable for use with food                | See supplementary material information   |
| Media temperature                         | -5 °C...50 °C  |
| Relative air humidity                     | 5 - 95%  |
| Pilot medium                              | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gases   |
| Ambient temperature                       | -5 °C...50 °C  |
| Max. tightening torque for valve mounting | 0.375 Nm   |
| Product weight                            | 43.4 g   |
| Electrical connection                     | Plug-in  |
| Type of mounting                          | On sub-base  |
| Pilot air port 12/14                      | Sub-base   |
| Pilot exhaust port 82/84                  | Sub-base   |
| Pilot air port 12                         | Sub-base   |
| Pneumatic connection, port 1              | Sub-base   |
| Pneumatic connection, port 2              | Sub-base   |
| Pneumatic connection, port 3              | Sub-base   |
| Pneumatic connection, port 4              | Sub-base   |
| Pneumatic connection, port 5              | Sub-base   |
| Pneumatic port 82                         | Sub-base   |
| Note on materials                         | RoHS-compliant   |
| Material seals                            | HNBR   |
| Material dynamic seals                    | HNBR   |
| Material housing                          | Anodised wrought aluminium alloy   |
| Material spring                           | High-alloy stainless steel   |
| Material piston slide                     | POM  |
| Material screws                           | Stainless steel  |