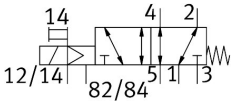
# Solenoid valve
# VUVX-B14-M52-MZT-F-1R8L

Part number: 8243294






## Data sheet

| Feature | Value |
|---|---|
| Valve function | 5/2-way, single solenoid |
| Type of actuation | Electrical |
| Valve size | 14 mm |
| Nominal flow rate standardised according to ISO 8778 | 595 l/min |
| Operating voltage | 24 V DC |
| Operating pressure | -0.09 MPa...0.8 MPa<br>-0.9 bar...8 bar |
| Design | Piston slide with sealing ring |
| Width | 14.4 mm |
| Nominal size | 3.9 mm |
| Exhaust-air function | Can be throttled |
| Sealing principle | Soft |
| Mounting position | Any |
| Manual override | Detenting via accessory |
| Type of piloting | Piloted |
| Pilot air supply | External |
| Flow direction | Reversible |
| lap | Underlap |
| Signal status display | Yes |
| Pilot pressure | 0.25 MPa...0.8 MPa<br>2.5 bar...8 bar |
| Suitability for vacuum | Yes |
| b value | 0.36 |
| C value | 2.35 l/sbar |
| Nominal flow rate standardised to ISO 8778 exhaust 2-3 | 570 l/min |
| Max. switching frequency | 3 Hz |
| Switching time off | 26 ms |
| Switching time on | 7 ms |
| Duty cycle | 100% |
| Permissible voltage fluctuations | +/-10% |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gas |

| Feature | Value |
|---|---|
| Note on operating and pilot medium | Ester oil < 0.1mg/m³, according to ISO 8573-1:2010 [-:-:2]<br>Lubricated operation possible (in which case lubricated operation will always be required) |
| Corrosion resistance class CRC | 2 - Moderate corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Storage temperature | -20 °C...60 °C |
| Suitable for use with food | NSF H1 |
| Media temperature | -10 °C...60 °C |
| Relative air humidity | 5 - 95% |
| Pilot medium | Compressed air to ISO 8573-1:2010 [7:4:4]<br>Inert gas |
| Ambient temperature | -10 °C...60 °C |
| Max. tightening torque for valve mounting | 0.96 Nm |
| Product weight | 71 g |
| Pilot air port 12/14 | Sub-base |
| Pilot exhaust port 82/84 | 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 |
| Note on materials | RoHS compliant |
| Material seals | HNBR<br>NBR |
| Material dynamic seals | HNBR<br>TPE-U(PU) |
| Material housing | Anodised wrought aluminium alloy |
| Material spring | High-alloy stainless steel |
| Material piston slide | POM |
| Material screws | High-alloy stainless steel |