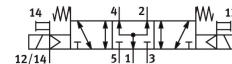
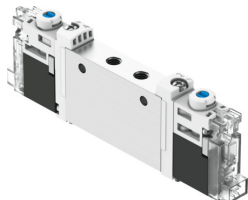


Solenoid valve

VUVG-L10-P53U-ZT-M7-1H2L-F1A

Part number: 8164363

FESTO



Data sheet

| Feature | Value |
|---|--|
| Valve function | 5/3-way, pressurised |
| Type of actuation | Electric |
| Valve size | 10 mm |
| Standard nominal flow rate (standardised to DIN 1343) | 290 l/min |
| pneumatic working port | M7 |
| Operating voltage | 24V DC |
| Operating pressure | -0.09 MPa...1 MPa -0.9 bar...10 bar |
| Design | Piston gate valve |
| Type of reset | Mechanical spring |
| Approval | RCM trademark c UL us - Recognized (OL) |
| Certificate issuing authority | UL MH19482 |
| Degree of protection | IP40 |
| Nominal size | 3.5 mm |
| Exhaust-air function | With flow control option |
| Sealing principle | Soft |
| Mounting position | optional |
| Manual override | Detenting Non-detenting Covered |
| Type of piloting | Pilot actuated |
| Pilot air supply | External |
| lap | Indefinite overlap |
| Pilot pressure | 0.3 MPa...0.8 MPa 3 bar...8 bar |
| Suitability for vacuum | yes |
| Switching time off | 36 ms |
| Switching time on | 14 ms |
| Switching time reversal | 19 ms |
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 700 µs |
| Max. negative test pulse with 1 signal | 900 µs |

| Feature | Value |
|--|--|
| Characteristic coil data | 24 V DC: 0.8 W |
| Permissible voltage fluctuations | +/- 10 % |
| Operating medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | 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 |
| Restrictions for environmental and media temperature | -5 ... 50° C Without holding current reduction |
| Shock resistance | Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance class CRC | 0 - No corrosion stress |
| LABS (PWIS) conformity | VDMA24364 zone III |
| Suitability for the production of Li-ion batteries | Product corresponds to the internal product definition from Festo for use in battery production: Metals with more than 1% by mass of copper, zinc or nickel are excluded from use. The exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils |
| Cleanroom class | Class 5 according to ISO 14644-1 |
| Storage temperature | -20 °C...60 °C |
| Media temperature | -5 °C...50 °C |
| Pilot medium | Compressed air to ISO 8573-1:2010 [7:4:4] |
| Ambient temperature | -5 °C...50 °C |
| Product weight | 55 g |
| Electrical connection | 2-pin Plug pattern H, horizontal connection Plugs |
| Type of mounting | On manifold rail With through-hole Either: |
| Pilot air port 12/14 | M3 |
| Pneumatic connection, port 1 | M7 |
| Pneumatic connection, port 2 | M7 |
| Pneumatic connection, port 3 | M7 |
| Pneumatic connection, port 4 | M7 |
| Pneumatic connection, port 5 | M7 |
| Note on materials | RoHS-compliant |
| Material seals | HNBR NBR |
| Material housing | Wrought aluminium alloy |
| Material screws | Coated steel |