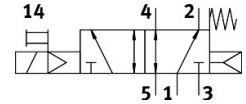



Solenoid valve VUVG-L18-M52-RT-G14-1H2L-F1A

Part number: 8172835

FESTO



 General operating condition

Data sheet

| Feature | Value |
|---|--|
| Valve function | 5/2-way, monostable |
| Type of actuation | Electric |
| Valve size | 18 mm |
| Standard nominal flow rate (standardised to DIN 1343) | 1300 l/min |
| pneumatic working port | G1/4 |
| Operating voltage | 24V DC |
| Operating pressure | 0.25 MPa ... 0.8 MPa |
| Operating pressure | 2.5 bar ... 8 bar |
| Design | Piston gate valve |
| Type of reset | Mechanical spring Pneumatic spring |
| Approval | RCM trademark c UL us - Recognized (OL) |
| Certificate issuing authority | UL MH19482 |
| Degree of protection | IP40 |
| Nominal size | 6.9 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 | Internal |
| Symbol | 00992233 |
| lap | Indefinite overlap |
| Pilot pressure | 0.25 MPa ... 0.8 MPa |
| Pilot pressure | 2.5 bar ... 8 bar |
| Suitability for vacuum | no |
| Switching time off | 41 ms |
| Switching time on | 20 ms |
| Duty cycle | 100% |
| Max. positive test pulse with 0 signal | 700 µs |
| Max. negative test pulse with 1 signal | 900 µs |
| 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] |

| Feature | Value |
|--|--|
| 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 | Suitable for battery production according to the Festo internal definition of the degree of severity F1A with restrictions regarding the use of Cu/Zn/Ni |
| Cleanroom class | Class 5 according to ISO 14644-1 |
| Storage temperature | -20 °C ... 60 °C |
| Media temperature | -5 °C ... 50 °C |
| Ambient temperature | -5 °C ... 50 °C |
| Product weight | 154 g |
| Electrical connection | 2-pin Plug pattern H, horizontal connection Plugs |
| Type of mounting | Either: On manifold rail With through-hole |
| Pneumatic connection, port 1 | G1/4 |
| Pneumatic connection, port 2 | G1/4 |
| Pneumatic connection, port 3 | G1/4 |
| Pneumatic connection, port 4 | G1/4 |
| Pneumatic connection, port 5 | G1/4 |
| Note on materials | RoHS-compliant |
| Material seals | HNBR NBR |
| Material housing | Wrought aluminium alloy |
| Material screws | Coated steel |