

Solenoid valve

VUVG-B14-P53E-ZT-F-1T1L-F1A

Part number: 8141533

FESTO



Data sheet

| Feature | Value |
|-----------------------------------------|------------------------------------------------------------------------------------------------|
| Valve function | 5/3 exhausted |
| Type of actuation | electrical |
| Valve size | 14 mm |
| Standard nominal flow rate | 470 l/min |
| Operating pressure MPa | -0.09 ... 1 MPa |
| Working pressure | -0.9 ... 10 bar |
| Design structure | Piston slide |
| Type of reset | mechanical spring |
| Authorization | c UL us - Recognized (OL) |
| Protection class | IP40 |
| Exhaust-air function | throttleable |
| Sealing principle | soft |
| Assembly position | Any |
| Manual override | detenting Pushing |
| Type of piloting | Piloted |
| Pilot air supply | external |
| Flow direction | reversible |
| Lap | Positive overlap |
| Variants | Recommended for production facilities for the manufacture of lithium-ion batteries |
| Signal status display | LED |
| Pilot pressure MPa | 0.3 ... 0.8 MPa |
| Pilot pressure | 3 ... 8 bar |
| Max. switching frequency | 3 Hz |
| Switching time off | 42 ms |
| Switching time on | 15 ms |
| Switching time reversal | 25 ms |
| Duty cycle | 100 % |
| Max. positive test pulse with logic 0 | 1,600 µs |
| Max. negative test pulse with logic 1 | 3,000 µs |
| Characteristic coil data | 22 V DC: 1 W |
| Permissible voltage fluctuation | +/- 10 % |
| Operating medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |
| Note on operating and pilot medium | Lubricated operation possible (subsequently required for further operation) |
| Vibration resistance | Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6 |
| Shock resistance | Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27 |
| Corrosion resistance classification CRC | 0 - No corrosion stress |
| PWIS conformity | VDMA24364 zone III |
| RSBP classification to CD-0033 | F1a |
| Cleanroom class | ISO class 6 |
| Medium temperature | -5 ... 60 °C |
| Pilot medium | Compressed air in accordance with ISO8573-1:2010 [7:4:4] |

| Feature | Value |
|-----------------------|------------------------|
| Ambient temperature | -5 ... 60 °C |
| Product weight | 95 g |
| Electrical connection | via manifold block |
| Mounting type | on manifold rail |
| Materials note | Conforms to RoHS |
| Material seals | HNBR NBR |
| Material housing | Wrought Aluminum alloy |