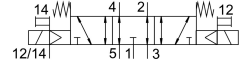


# Solenoid valve VUVG-L14-P53E-ZT-G18-1H2L-F1A

FESTO

Part number: 8164571



## Data sheet

Feature	Value
Valve function	5/3, exhausted
Actuation type	Electrical
Valve size	14 mm
Standard nominal flow rate	550 l/min
Pneumatic working port	G1/8
Operating voltage	24V DC
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Certification	RCM compliance mark c UL us - Recognized (OL)
Certificate issuing authority	UL MH19482
Degree of protection	IP40
Nominal width	5.6 mm
Exhaust air function	With flow control option
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting Covered
Type of control	Pilot-controlled
Pilot air supply port	External
Lap	Overlap
Pilot pressure MPa	0.3 MPa...0.8 MPa
Pilot pressure	3 bar...8 bar
Suitability for vacuum	yes
Switching time off	45 ms
On switching time	15 ms
Changeover time	28 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	700 µs

Feature	Value
Max. negative test pulse on 1 signal	900 µs
Coil characteristics	24 V DC: 0.8 W
Permissible voltage fluctuations	+/- 10 %
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Restricted ambient and media temperature	-5 - 50 °C Without holding power reduction
Shock resistance	Shock test with severity level 2 as per 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	Metals with more than 1% copper, zinc or nickel by mass are excluded from use. 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
Temperature of medium	-5 °C...50 °C
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C...50 °C
Product weight	89 g
Electrical connection	2-pin Connection diagram H, horizontal connection Plug
Type of mounting	Optionally: On terminal strip With through-hole
Pilot air port 12/14	M5
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Pneumatic connection 4	G1/8
Pneumatic connection 5	G1/8
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Wrought aluminum alloy
Material of screws	Steel, coated