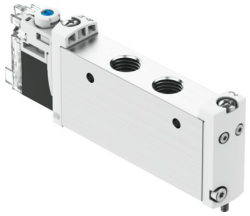
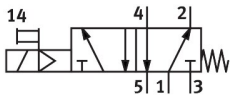
Solenoid valve
VUVG-L14-M52-MT-G18-1H2L-F1A

Part number: 8164557





Data sheet

Feature	Value
Valve function	5/2-way, monostable
Actuation type	Electrical
Valve size	14 mm
Normal nominal flow rate (normalized to DIN 1343)	730 l/min
Pneumatic working port	G1/8
Operating voltage	24V DC
Operating pressure	0.3 MPa...0.8 MPa 3 bar...8 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	Adjustable
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting Covered
Type of control	Piloted
Pilot air supply port	Internal
Lap	Positive overlap
Pilot pressure MPa	0.3 MPa...0.8 MPa
Pilot pressure	3 bar...8 bar
Suitability for vacuum	No
Switching time off	51 ms
On switching time	13 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	700 µs
Max. negative test pulse on 1 signal	900 µs

Feature	Value
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 current 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	Suitable for battery production with reduced Cu/Zn/Ni values (F1a)
Cleanroom suitability, measured according to ISO 14644-14	Class 5 according to ISO 14644-1
Storage temperature	-20 °C...60 °C
Temperature of medium	-5 °C...50 °C
Ambient temperature	-5 °C...50 °C
Product weight	70 g
Electrical connection	2-pin Connection diagram H, horizontal connection Plug
Type of mounting	Alternatively: On terminal strip With through-hole
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	Coated steel