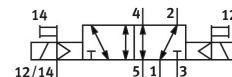


Solenoid valve

VUVG-L10-B52-ZT-M7-1H2L-F1A

Part number: 8164360

FESTO



Data sheet

Feature	Value
Valve function	5/2, bistable
Actuation type	Electrical
Valve size	10 mm
Standard nominal flow rate	370 l/min
Pneumatic working port	M7
Operating voltage	24V DC
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Structural design	Piston gate valve
Certification	RCM compliance mark c UL us - Recognized (OL)
Certificate issuing authority	UL MH19482
Degree of protection	IP40
Nominal width	4 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	0.15 MPa...0.8 MPa
Pilot pressure	1.5 bar...8 bar
Suitability for vacuum	yes
Changeover time	8 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	700 µs
Max. negative test pulse on 1 signal	900 µs
Coil characteristics	24 V DC: 0.8 W
Permissible voltage fluctuations	+/- 10 %

Feature	Value
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	Product corresponds to Festo's internal product definition 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, 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	45 g
Electrical connection	2-pin Connection diagram H, horizontal connection Plug
Type of mounting	On terminal strip With through-hole Optionally:
Pilot air port 12/14	M3
Pneumatic connection 1	M7
Pneumatic connection 2	M7
Pneumatic connection 3	M7
Pneumatic connection 4	M7
Pneumatic connection 5	M7
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Wrought aluminum alloy
Material of screws	Steel, coated