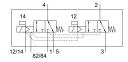
## Solenoid valve VUVG-B10-T32C-MZT-F-1T1L-F1A

Part number: 8141518







## **Data sheet**

Actuation type  Electrical  Valve size  10 mm  Standard nominal flow rate  130 l/min  Flange  Operating voltage  24V DC  Operating pressure  -0.09 MPa1 MPa -0.9 bar10 bar  Structural design  Reset method  Certification  Certification  Certification  Degree of protection  Exhaust air function  Exhaust air function  With flow control option  Sealing principle  Soft  Mounting position  Manual override  Detenting  Non-detenting  Fliot air supply port  External  Flow direction  Lap  Overlap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure  Max. switching frequency  3 Hz  Switching time  10 ms  Duty cycle  10 ms  Duty cycle  10 ms	Feature	Value
Valve size  Standard nominal flow rate  Standard nominal flow rate  Pneumatic working port  Flange  Operating voltage  Operating pressure  -0.09 MPa1 MPa -0.9 bar10 bar  Structural design  Piston gate valve  Reset method  Certification  Cul. us - Recognized (OL)  Degree of protection  Exhaust air function  With flow control option  Sealing principle  Soft  Mounting position  Manual override  Detenting  Non-detenting  Pilot-controlled  External  Flow direction  Lap  Overlap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed directi boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  O.2 MPa0.8 MPa  Pilot pressure  J bar8 bar  Max. switching frequency  3 Hz  Switching time  On switching time  Do switching time  Do switching time  On switching time  Do switching time  Do syswitching time  Do syswitching time  Do ms  Duty cycle  I DO SA	Valve function	2x3/2, closed, monostable
Standard nominal flow rate Pneumatic working port Pneumatic working pressure  -0.90 MPa1 MPa -0.90 bar1 Obar Structural design Piston gate valve Reset method Mechanical spring Certification  c UL us - Recognized (OL) Degree of protection Pl40 Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Reversible Lap Overlap Variants Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Signal status display LED Max08 MPa Pilot pressure MPa Max. switching frequency 3 Hz Switching frequency 3 Hz Switching fime Duty cycle 100%	Actuation type	Electrical
Pneumatic working port Operating voltage Operating voltage Operating pressure Piston gate valve Reset method Operating pressure Operating Operation Operating Operation Operation Operating Operating Operating Operation Operation Operation Operating Operation Operative Operation Op	Valve size	10 mm
Operating voltage Operating pressure Piston gate valve Reset method Mechanical spring Certification Cult us - Recognized (OL) Degree of protection IP40 Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Oup Variants Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Signal status display LED Pilot pressure Max. switching frequency 3 Hz Switching frequency 3 Hz Switching frequency 5 On switching time Duty cycle 100%	Standard nominal flow rate	130 l/min
Operating pressure Operating protection Operation pr	Pneumatic working port	Flange
Structural design Piston gate valve Reset method Mechanical spring Certification Certi	Operating voltage	24V DC
Reset method  Certification  Cultus - Recognized (OL)  Degree of protection  IP40  Exhaust air function  With flow control option  Sealing principle  Soft  Mounting position  Manual override  Mondetenting  Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Lap  Overlap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  O.2 MPa0.8 MPa  Pilot pressure  As a vicking frequency  3 Hz  Switching frime off  On switching time  Duty cycle  100%	Operating pressure	
Certification cUL us - Recognized (OL) Degree of protection IP40 Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Lap Overlap Overlap Variants Watals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Signal status display LED Pilot pressure MPa 0.2 MPa0.8 MPa Pilot pressure MPa 2 bar8 bar Max. switching frequency 3 Hz Switching time off 20 ms Out ycycle 100%	Structural design	Piston gate valve
Degree of protection  Exhaust air function  Sealing principle  Soft  Mounting position  Any  Manual override  Detenting Non-detenting  Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Lap  Overlap  Variants  Wetals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  O.2 MPaO.8 MPa  Pilot pressure  Max. switching frequency  3 Hz  Switching time  10 ms  Duty cycle  100%	Reset method	Mechanical spring
Exhaust air function  Sealing principle  Soft  Mounting position  Any  Manual override  Detenting Non-detenting  Type of control  Pilot-controlled  External  Flow direction  Lap  Overlap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure  Duty cycle  Duty cycle  With flow control option  With flow control option  With flow control option  Soft Any  With flow control option  Soft Any  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  O.2 MPaO.8 MPa  2 bar8 bar  3 Hz  Switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle	Certification	c UL us - Recognized (OL)
Sealing principle  Mounting position  Any  Detenting Non-detenting  Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Lap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  O.2 MPaO.8 MPa  Pilot pressure  3 Hz  Switching frequency  3 Hz  Switching time off  20 ms  Duty cycle  100%	Degree of protection	IP40
Mounting position  Manual override  Detenting Non-detenting  Type of control  Pilot-controlled  External  Flow direction  Reversible  Lap  Overlap  Variants  Wetals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  O.2 MPa0.8 MPa  Pilot pressure  Aux. switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle  100%	Exhaust air function	With flow control option
Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Lap Overlap Variants Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils. Signal status display LED Pilot pressure MPa O.2 MPa0.8 MPa Pilot pressure 2 bar8 bar Max. switching frequency 3 Hz Switching time off 20 ms Duty cycle 100%	Sealing principle	Soft
Non-detenting  Type of control  Pilot-controlled  External  Flow direction  Lap  Overlap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  0.2 MPa0.8 MPa  Pilot pressure  2 bar8 bar  Max. switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle  100%	Mounting position	Any
Pilot air supply port  External  Flow direction  Lap  Overlap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  0.2 MPa0.8 MPa  Pilot pressure  2 bar8 bar  Max. switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle  100%	Manual override	
Flow direction  Reversible  Overlap  Variants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  O.2 MPa0.8 MPa  Pilot pressure  2 bar8 bar  Max. switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle  100%	Type of control	Pilot-controlled
Duty cycle  Overlap  Overlap  Overlap  Overlap  Overlap  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  EED  Pilot pressure MPa  O.2 MPa0.8 MPa  2 bar8 bar  3 Hz  Switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle  100%	Pilot air supply port	External
Wariants  Metals with copper, zinc or nickel as main constituent are excluded from use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  0.2 MPa0.8 MPa  Pilot pressure  2 bar8 bar  Max. switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle  100%	Flow direction	Reversible
use. Exceptions are nickel in steel, chemically nickel-plated surfaces, printed circuit boards, cables, electrical plug connectors and coils.  Signal status display  LED  Pilot pressure MPa  0.2 MPa0.8 MPa  Pilot pressure  2 bar8 bar  Max. switching frequency  3 Hz  Switching time off  20 ms  On switching time  10 ms  Duty cycle  100%	Lap	Overlap
Pilot pressure MPa 0.2 MPa0.8 MPa Pilot pressure 2 bar8 bar  Max. switching frequency 3 Hz  Switching time off 20 ms  On switching time 10 ms  Duty cycle 100%	Variants	
Pilot pressure 2 bar8 bar  Max. switching frequency 3 Hz  Switching time off 20 ms  On switching time 10 ms  Duty cycle 100%	Signal status display	LED
Max. switching frequency 3 Hz Switching time off 20 ms On switching time 10 ms Duty cycle 100%	Pilot pressure MPa	0.2 MPa0.8 MPa
Switching time off 20 ms On switching time 10 ms Duty cycle 100%	Pilot pressure	2 bar8 bar
On switching time 10 ms Duty cycle 100%	Max. switching frequency	3 Hz
Duty cycle 100%	Switching time off	20 ms
	On switching time	10 ms
Max. positive test pulse with 0 signal 1600 μs	Duty cycle	100%
	Max. positive test pulse with 0 signal	1600 μs

Feature	Value
Max. negative test pulse on 1 signal	3000 μs
Coil characteristics	22 V DC: 1.0 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
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 6 according to ISO 14644-1
Temperature of medium	-5 ℃60 ℃
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 ℃60 ℃
Product weight	59 g
Electrical connection	Via sub-base
Type of mounting	On terminal strip
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Wrought aluminum alloy