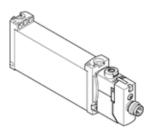
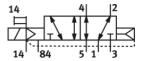
## Solenoid valve VUVG-B14-M52-AZT-F-1R8L Part number: 574245

**FESTO** 

This type is suitable for vacuum.





## **Data sheet**

Working pressure	Feature	Value
Valve size  Standard nominal flow rate  Standard nominal flow rate  Operating pressure MPa  Operating pressure  Operating pressure  Operating pressure  Piston slide  Type of reset  Authorization  RCM Mark  CUL us - Recognized (OL)  Protection class  IP65  with plug socket  Nominal size  Short municular function  Exhaust-air function  Exhaust-air function  Sealing principle  Soft Assembly position  Manual override  Operating pressure MPa  Positive overlap  Pliot air supply  external  Lap  Positive overlap  Pliot pressure MPa  O.25 0.8 MPa  Pliot pressure MPa  O.25 0.8 MPa  Pliot pressure MPa  O.25 0.8 MPa  Switching time on  Duty cycle  100 %  Max. negative step Julse with logic O  Max. positive test pulse with logic O  Corresion resistance  I ransport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance Cases in the corrosion stress  VDMA24364-81/82-1.	Valve function	5/2 monostable
Standard nominal flow rate Operating pressure MPa Operating pressure MPa Operating pressure MPa Operating pressure MPa Operating pressure Operating operati	Type of actuation	electrical
Operating pressure MPa  Operating pressure  Operating time on  Duty cycle  Max. positive test pulse with logic 1  Characteristic coil data  Permissible voltage fluctuation  Operating medium  Operating medium  Operating medium  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure  Operating pressure with pressure of the	Valve size	14 mm
Working pressure Design structure Piston slide Type of reset Air spring Authorization CUL us - Recognized (OL) Protection class IP65 with plug socket Nominal size So. 6m Exhaust-air function throttleable Sealing principle soft Any Manual override Ditotal supply Lap Plot air supply Lap Positive overlap Pilot pressure MPa Duty cycle Switching time off Switching time off Switching time on Duty cycle Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 More and pressure Permissible votage fluctuation Lubricated operation Vibration resistance Pirot presistance Shock resistance Shock sets with severy level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock resistance Shock kest with severy level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock kest with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock kest with severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock kest with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7 Shock resistance Shock resistance classification CRC Shock resistance consoin stress Shock resistance consoin stress Shock resistance consoin stress Shock resistance consoin stress Shock resistance Shock resistance consoin stress Shock resistance consoin stress Shock resistance consoin stress Shock resistance capacity required for further consoin stress Shock resistance capacity required for further consoin stress Shock resistance capacity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance capacity required for further consoin stress Shock resistance capacity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock re	Standard nominal flow rate	520 630 l/min
Design structure Type of reset Air spring Authorization RCM Mark C UL us - Recognized (OL) Protection class IP65 with plug socket Nominal size 5.6 mm Exchaust-air function Sealing principle Soft Assembly position Any Manual override detenting Pushing Covered Pushing Covered Type of piloting Pilot air supply external Lap Positive overlap Pilot pressure AD 25 0.8 MPa Pilot pressure Ditty pressure Duty cycle Switching time off 22 ms Switching time off Duty cycle Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Doperating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Urbration resistance Final Fin	Operating pressure MPa	-0.09 1 MPa
Type of reset Air spring Authorization CUL us - Recognized (OL) Protection class IP65 with plug socket Nominal size 5.6 mm Exhaust-air function throttleable Sealing principle soft Any Manual override Any Manual override Pilot air supply external Lap Positive overlap Pilot pressure MPa Pilot pressure MPa Pilot pressure MPa Switching time off Switching time on Duty cycle Max. negative test pulse with logic 0 Max. negative test pulse with logic 1 Operating medium Any Residency Permissible voltage fluctuation Vibration resistance Filot pressure Filot pressure by 100 % Covered Cov	Working pressure	-0.9 10 bar
Authorization RCM Mark c UL us - Recognized (Ot) Protection class   IP65   with plug socket   Nominal size   5.6 mm   Exhaust-air function throttleable   Sealing principle   soft   Assembly position   Any   Manual override   detenting   Pushing   Covered   Type of piloting   Piloted   Pilot air supply   external   Lap   Positive overlap   Pilot pressure MPa   0.25 0.8 MPa   Pilot pressure   2.5 8 bar   Suitability for vacuum   Yes   Switching time off   22 ms   Switching time on   14 ms   Duty cycle   100 %   Max. positive test pulse with logic 0   700 µs   Max. positive test pulse with logic 1   900 µs   Characteristic coil data   24 V DC: 1 W   Permissible voltage fluctuation   4/-10 %   Operating medium   Compressed air in accordance with ISO8573-1:2010 [7:4:4]   Note on operating and pilot medium   Unbricated operation possible (subsequently required for further operation)   Vibration resistance   Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-26   PMIS conformity   VDMA24364-B1/62-L	Design structure	Piston slide
c UL us - Recognized (OL)  Protection class  IP65 with plug socket  Nominal size  5.6 mm  Exhaust-air function  throttleable  Sealing principle Assembly position  Manual override  Pushing Covered  Pushing Covered  Pilot air supply  Lap Positive overlap Pilot pressure MPa Pilot pressure  Switching time on  Duty cycle  Max. negative test pulse with logic 0  Max. positive test pulse with logic 1  Operating medium  Note on operating and pilot medium  Vibration resistance  Shock resistance  Corrosion resistance  Corrosion resistance classification CRC  PMIS conformity  VDMA24364-B1/52-L  Corrosion resistance classification CRC  PMIS conformity  VDMA24364-B1/52-L  Corposacrons of the conformity  VDMA24364-B1/52-L  Corposacrons of the corrosion stress  PMIS conformity  VDMA24364-B1/52-L	Type of reset	Air spring
Protection class    P65   with plug socket	Authorization	RCM Mark
Protection class    P65   with plug socket		c UL us - Recognized (OL)
Nominal size Exhaust-air function Exhaust-air function Sealing principle Assembly position Any Manual override Pilot air supply Manual override Pilot air supply Manual override Manual Overri	Protection class	
Exhaust-air function throttleable Sealing principle Assembly position Any Manual override detenting Pushing Covered Type of piloting Pilot air supply external Lap Positive overlap Pilot pressure MPa Pilot pressure MPa Switching time off 22 ms Switching time on Duty cycle Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Doractic cil data Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Utbricated operation possible (subsequently required for further operation) Vibration resistance Shock resistance Shock resistance Shock resistance Shock resistance classification CRC PWIS Conformity VDMA24364-B1/B2-L		with plug socket
Sealing principle Assembly position Any Manual override  Metenting Pushing Covered  Type of piloting Pilot air supply External Lap Positive overlap Pilot pressure MPa 2.5 8 bar Suitability for vacuum Yes Switching time off 22 ms Switching time on 14 ms Luty cycle 100 % Max. positive test pulse with logic 0 Max. positive test pulse with logic 1 Operatings test pulse with logic 1 Operatings wolld ata Permissible voltage fluctuation April 24 V DC: 1 W Permissible voltage fluctuation Operating medium Compressed air in accordance with ISO8573-1:2010 [7:4:4] Note on operating and pilot medium Ubricated operation possible (subsequently required for further operation) Vibration resistance Transport application test at severity level 2 in accordance with FN 942017-5 and EN 60068-2-6 Shock resistance Shock resistance Corrosion stress PWIS conformity VDMA24364-B1/B2-L	Nominal size	5.6 mm
Assembly position  Manual override  Manual override  Aletenting Pushing Covered  Type of piloting Piloted Piloted Piloted Positive overlap Pilot pressure MPa Positive overlap Pilot pressure MPa Positive overlap Pilot pressure Positive overlap Positive	Exhaust-air function	throttleable
Manual override  detenting Pushing Covered  Type of piloting Piloted  Pilot air supply external Lap Positive overlap Pilot pressure MPa Pilot pressure MPa Pilot pressure 2.5 8 bar Suitability for vacuum Yes Switching time off 22 ms Switching time on 14 ms Duty cycle 100 % Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Operating medium Note on operating and pilot medium Verenubrating medium Note on operating and pilot medium Uibriation resistance Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C Shock resistance Shock test suits external Positive deternation stress VDMA24364-B1/B2-L  VDMA24364-B1/B2-L  VDMA24364-B1/B2-L	Sealing principle	soft
Pushing Covered  Type of piloting Pilot air supply external Lap Positive overlap Pilot pressure MPa Pilot pressure MPa Pilot pressure Pes Switching time off Pilot Pressure Pilot pressure Pilot pressure Pes Switching time off Pilot Pressure Pilot pressure Pes Switching time off Pes Switching time on Puty Cycle Pilot Pressure Pilot Pressure Pes Switching time on Puty Cycle Pilot Pressure Pilot Pressure Pilot Pressure Pes Switching time on Puty Cycle Pilot Pressure Pilot Pilot Pressure Pilot Pressure Pilot Pressure Pilot Pressure Pilot Pilot Pressure Pilot Pilot Pressure Positive Pressure Pilot Pressure Pilot Pressure Pilot Pressure Positive Pressure Pilot Pressure Pes Pilot	Assembly position	Any
Pushing Covered  Type of piloting Pilot air supply external Lap Positive overlap Pilot pressure MPa Pilot pressure MPa Pilot pressure Pes Switching time off Pilot Pressure Pilot pressure Pilot pressure Pes Switching time off Pilot Pressure Pilot pressure Pes Switching time off Pes Switching time on Puty Cycle Pilot Pressure Pilot Pressure Pes Switching time on Puty Cycle Pilot Pressure Pilot Pressure Pilot Pressure Pes Switching time on Puty Cycle Pilot Pressure Pilot Pilot Pressure Pilot Pressure Pilot Pressure Pilot Pressure Pilot Pilot Pressure Pilot Pilot Pressure Positive Pressure Pilot Pressure Pilot Pressure Pilot Pressure Positive Pressure Pilot Pressure Pes Pilot	Manual override	detenting
Pilot air supply external  Lap Positive overlap Pilot pressure MPa Pilot pressure Pilot pressure 2.5 8 bar Suitability for vacuum Yes Switching time off 22 ms Switching time on Duty cycle 100 % Max. positive test pulse with logic 0 Max. negative test pulse with logic 1 Operating medium Permissible voltage fluctuation Operating medium Note on operating and pilot medium Vibration resistance Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C Shock resistance PWIS conformity VDMA24364-B1/B2-L  Positive overlap Positive overl		
Pilot air supply Lap Positive overlap Pilot pressure MPa 0.25 0.8 MPa Pilot pressure 2.5 8 bar Suitability for vacuum Yes Switching time off 22 ms Switching time on 14 ms Duty cycle 100 % Max. positive test pulse with logic 0 700 μs Max. negative test pulse with logic 1 900 μs Characteristic coil data 24 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 Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C Shock resistance Cassification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L		Covered
Pilot air supply Lap Positive overlap Pilot pressure MPa 0.25 0.8 MPa Pilot pressure 2.5 8 bar Suitability for vacuum Yes Switching time off 22 ms Switching time on 14 ms Duty cycle 100 % Max. positive test pulse with logic 0 700 μs Max. negative test pulse with logic 1 900 μs Characteristic coil data 24 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 Restriction ambient and medium temperature Without holding current reduction -5 - 50 °C Shock resistance Cassification CRC 2 - Moderate corrosion stress PWIS conformity VDMA24364-B1/B2-L	Type of piloting	Piloted
Pilot pressure MPa  O.25 0.8 MPa  Pilot pressure  2.5 8 bar  Suitability for vacuum  Yes  Switching time off  22 ms  Switching time on  Duty cycle  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Permissible voltage fluctuation  Operating medium  Note on operating and pilot medium  Vibration resistance  Restriction ambient and medium temperature  Shock resistance  Shock resistance  Corrosion resistance classification CRC  PWIS conformity  ODE Shock resistance  O.25 0.8 MPa  O.20 0.8 MPa  O.20 0.8 MPa  O.21 0.8 MPa  O.22 0.8 MPa  O.23 0.8 MPa  O.24 0.8 MPa  O.25 0.8 MPa  O.20	Pilot air supply	external
Pilot pressure  2.5 8 bar  Suitability for vacuum  Yes  Switching time off  22 ms  Switching time on  14 ms  Duty cycle  100 %  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Permissible voltage fluctuation  Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Uibricated 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  Restriction ambient and medium temperature  Shock resistance  Without holding current reduction  -5 - 50 °C  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 - Moderate corrosion stress  PWIS conformity  VDMA24364-B1/B2-L	Lap	Positive overlap
Suitability for vacuum  Switching time off  22 ms  Switching time on  14 ms  Duty cycle  100 %  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Characteristic coil data  Permissible voltage fluctuation  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  Restriction ambient and medium temperature  Without holding current reduction  -5 - 50 °C  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 - Moderate corrosion stress  PWIS conformity  VDMA24364-B1/B2-L	Pilot pressure MPa	0.25 0.8 MPa
Switching time off  22 ms  Switching time on  14 ms  Duty cycle  100 %  Max. positive test pulse with logic 0  700 µs  Max. negative test pulse with logic 1  Characteristic coil data  24 V DC: 1 W  Permissible voltage fluctuation  4/- 10 %  Operating medium  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Uubricated 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  Restriction ambient and medium temperature  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 - Moderate corrosion stress  PWIS conformity  VDMA24364-B1/B2-L	Pilot pressure	2.5 8 bar
Switching time on14 msDuty cycle100 %Max. positive test pulse with logic 0700 μsMax. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 WPermissible voltage fluctuation+/- 10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Restriction ambient and medium temperatureWithout holding current reduction -5 - 50 °CShock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-L	Suitability for vacuum	Yes
Switching time on14 msDuty cycle100 %Max. positive test pulse with logic 0700 μsMax. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 WPermissible voltage fluctuation+/- 10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Restriction ambient and medium temperatureWithout holding current reduction -5 - 50 °CShock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-L	Switching time off	22 ms
Duty cycle  Max. positive test pulse with logic 0  Max. negative test pulse with logic 1  Permissible voltage fluctuation  Operating medium  Note on operating and pilot medium  Vibration resistance  Restriction ambient and medium temperature  Shock resistance  Compressed are in accordance with ISO8573-1:2010 [7:4:4]  Lubricated operation possible (subsequently required for further operation)  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Without holding current reduction -5 - 50 °C  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 - Moderate corrosion stress  PWIS conformity  VDMA24364-B1/B2-L		14 ms
Max. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 WPermissible voltage fluctuation+/- 10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Restriction ambient and medium temperatureWithout holding current reduction -5 - 50 °CShock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-L	Duty cycle	100 %
Max. negative test pulse with logic 1900 μsCharacteristic coil data24 V DC: 1 WPermissible voltage fluctuation+/- 10 %Operating mediumCompressed air in accordance with ISO8573-1:2010 [7:4:4]Note on operating and pilot mediumLubricated operation possible (subsequently required for further operation)Vibration resistanceTransport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6Restriction ambient and medium temperatureWithout holding current reduction -5 - 50 °CShock resistanceShock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27Corrosion resistance classification CRC2 - Moderate corrosion stressPWIS conformityVDMA24364-B1/B2-L	Max. positive test pulse with logic 0	700 μs
Characteristic coil data  24 V DC: 1 W  Permissible voltage fluctuation  4/- 10 %  Compressed air in accordance with ISO8573-1:2010 [7:4:4]  Note on operating and pilot medium  Vibration resistance  Vibration ambient and medium temperature  Restriction ambient and medium temperature  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-7  Corrosion resistance classification CRC  PWIS conformity  VDMA24364-B1/B2-L		900 µs
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  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 - Moderate corrosion stress  PWIS conformity  VDMA24364-B1/B2-L	Characteristic coil data	24 V DC: 1 W
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  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 - Moderate corrosion stress  PWIS conformity  VDMA24364-B1/B2-L	Permissible voltage fluctuation	+/-10%
operation)  Vibration resistance  Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  Shock resistance  Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC  2 - Moderate corrosion stress  PWIS conformity  VDMA24364-B1/B2-L	Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
942017-4 and EN 60068-2-6  Restriction ambient and medium temperature  Without holding current reduction -5 - 50 °C  Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC 2 - Moderate corrosion stress  PWIS conformity VDMA24364-B1/B2-L	Note on operating and pilot medium	
-5 - 50 °C  Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC 2 - Moderate corrosion stress  VDMA24364-B1/B2-L	Vibration resistance	
Shock resistance Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27  Corrosion resistance classification CRC 2 - Moderate corrosion stress  VDMA24364-B1/B2-L	Restriction ambient and medium temperature	Without holding current reduction
PWIS conformity VDMA24364-B1/B2-L	Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN
PWIS conformity VDMA24364-B1/B2-L	Corrosion resistance classification CRC	2 - Moderate corrosion stress
,		
Medium temperature 1-5 60 °C	Medium temperature	-5 60 °C



Feature	Value
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Ambient temperature	-5 60 °C
Product weight	78 g
Electrical connection	Via electrical connection plate
Mounting type	on manifold rail
Materials note	Conforms to RoHS
Material seals	HNBR
	NBR
Material housing	Wrought Aluminum alloy