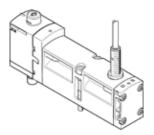
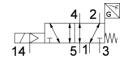
## solenoid valve **VSVA-B-M52-MZH-A1-1T1L-APX-0.5**Part number: 8033057







## **Data sheet**

Feature	Value
Valve function	5/2 monostable
Type of actuation	electrical
Width	26 mm
Standard nominal flow rate	1,100 l/min
Operating pressure MPa	-0.09 1 MPa
Operating pressure	-0.9 10 bar
Design structure	Piston slide
Type of reset	mechanical spring
KC mark	KC-EMV
CE mark (see declaration of conformity)	to EU directive for EMC
Protection class	IP65
	NEMA 4
Nominal size	9 mm
Exhaust-air function	throttleable
	Via throttle plate
	Via individual sub-base
Sealing principle	soft
Assembly position	Any
Manual override	Pushing
Type of piloting	Piloted
Pilot air supply	external
Flow direction	Any
Measuring principle	Inductive
Overlap	Positive overlap
Reverse polarity protection sensor	For all electrical connections
Signal status display	LED
Switching position sensing	Normal position with sensor
Switching status display sensor	LED
Pilot pressure MPa	0.3 1 MPa
Pilot pressure	3 10 bar
Flow rate of valve	1,400 l/min
Flow rate of valve on individual sub-base	1,200 l/min
Optimised flow rate of valve pneumatically concatenated flow	1,350 l/min
Flow rate of pneumatically linked valve	1,100 l/min
Switching time off	54 ms
Switching time on	20 ms
Valve - sensor switching time on	60 ms
Valve - sensor switching time off	11 ms
Duty cycle	100 %
Max. positive test pulse with logic 0	1,200 μs
Max. negative test pulse with logic 1	1,100 μs
Nominal operating voltage DC	24 V
Switch output	PNP
Characteristic coil data	24 V DC: 1.6 W
Surge strength	2.5 kV
Degree of contamination	3



Permissible voltage fluctuation Operating medium Note on operating and pilot medium Ubbricated operation possible (subsequently required operation) Vibration resistance Transport application test at severity level 2 in accordance with FN : 60068-2-6 Shock resistance Shock resistance Shock resistance (assification CRC (assignment) (box of CRC) O - No corrosion stress VDMA24364-81/82-L Medium temperature Sound pressure level (assification CRC) Ambient temperature Sound pressure level (assignment) (box of CRC) Shock resistance classification CRC (box of CRC) WIS conformity Medium temperature Sound pressure level (box of CRC) Shock resistance classification CRC (considered in the Max of CRC) Sound pressure level (box of CRC) Sound pressure level (considered in the Max of CRC) Sound pressure level (considered in the Max of CRC) Sound pressure level (considered in the Max of CRC) Sound pressure level (considered in the Max of CRC) Sound pressure level (considered in the Max of CRC) Sound pressure level (considered in the Max of CRC) Sound (considered in the Max of CRC) Soun	
Note on operating and pilot medium  Vibration resistance  Transport application test at severity level 2 in accorda 942017-4 and EN 60068-2-6  Shock resistance  Shock test with severity level 2 in accordance with FN 160068-2-7  Corrosion resistance classification CRC  0 - No corrosion stress  WIS conformity  VDMA24364-B1/B2-L  Medium temperature  -5 50 °C  Relative air humidity  0 - 90 %  Sound pressure level  85 dB(A)  Ambient temperature  -5 50 °C  Max. tightening torque, valve mounting  1.8 2.2 Nm  Product weight  Operating voltage range, DC sensor  10 30 V  Short-circuit strength sensor  Idle current sensor  Max. output current sensor  Max. output current sensor  Max. output current sensor  \$4 10 %  Voltage drop sensor  10 %  Voltage drop sensor  Electrical connection  Plug  Cable  4-pin  M12x1  0,5 m  Mounting type  On sub-base  Auxillary pilot air port 12/14  Pilot exhaust port 82/84  Optional  Ducted  Non-ducted  Pneumatic connection, port 1  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2	
Operation)  Vibration resistance  Transport application test at severity level 2 in accorde 942017-4 and EN 60068-2-6  Shock resistance  Shock test with severity level 2 in accordance with FN 60068-2-27  Corrosion resistance classification CRC  O - No corrosion stress  PWIS conformity  WDMA24364-81/B2-L  Medium temperature -5 50 °C  Relative air humidity O - 90 %  Sound pressure level 85 dB(A)  Ambient temperature -5 50 °C  Max. tightening torque, valve mounting 1.8 2.2 km  Product weight Operating voltage range, DC sensor 10 30 V  Short-circuit strength sensor  Idle current sensor  Max. output current sensor  Max. owtput current sensor  Amax. owtput current sensor  \$10 mA\$  Max. owtput current sensor  \$200 mA\$  Max. wwitching frequency sensor \$5,000 Hz  Residual ripple sensor  \$10 %  Voltage drop sensor  \$2 V  Electrical connection  Plug  Cable 4-pin  M12x1 0,5 m  Mounting type  An anifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 1  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2	:4:4]
Shock resistance   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with severity level 2 in accordance with FN source   Shock test with Shock test with Shock test with Shock   Shock tes	for further
G0068-2-27   Corrosion resistance classification CRC	nce with FN
PWIS conformity  Medium temperature  550 °C  Relative air humidity  0 - 90 %  Sound pressure level  85 dB(A)  Ambient temperature  1.82.2 km  Product weight  Operating voltage range, DC sensor  1030 V  Short-circuit strength sensor  Idle current sensor  4 = 10 mA  Max. output current sensor  Max. output current sensor  Anax. switching frequency sensor  200 mA  Max. switching frequency sensor  \$1030 V  Short-circuit strength sensor  4 = 10 mA  Max. output current sensor  \$200 mA  Max. switching frequency sensor  \$5,000 Hz  Residual ripple sensor  4 = 2 V  Electrical connection  Plug  according to ISO 15407-2  Sensor connection  Mounting type  On sub-base  Auxiliary pilot air port 12/14  Manifold block, size 26 mm acc. to ISO 15407-2  Pheumatic connection, port 1  Manifold block, size 26 mm acc. to ISO 15407-2  Pheumatic connection, port 2  Manifold block, size 26 mm acc. to ISO 15407-2  Pheumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pheumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pheumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pheumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pheumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2	942017-5 and EN
Medium temperature Relative air humidity O - 90 % Sound pressure level Ambient temperature -5 50 °C Max. tightening torque, valve mounting 1.8 2.2 Nm Product weight Operating voltage range, DC sensor Pulsing Idle current sensor Relative air humidity Residual ripple sensor Follage drop sensor Electrical connection Plug Cable 4-pin Plug Cable 4-pin M12x1 O,5 m  Mounting type  Auxillary pilot air port 12/14 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 2 Pneumatic connection, port 3 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 3 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 3 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2	
Relative air humidity  Sound pressure level  Ambient temperature  -5 50 °C  Max. tightening torque, valve mounting  Product weight  Qperating voltage range, DC sensor  10 30 V  Short-circuit strength sensor  Idle current sensor  Max. output current sensor  Max. owitching frequency sensor  200 mA  Max. switching frequency sensor  Electrical connection  Plug  according to ISO 15407-2  Pilot exhaust port 82/84  Optional  Ducted  Non-ducted  Pneumatic connection, port 1  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 2  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2	
Sound pressure level 85 dB(A) Ambient temperature -550 °C Max. tightening torque, valve mounting 1.8 2.2 Nm Product weight 281 g Operating voltage range, DC sensor 1030 V Short-circuit strength sensor Pulsing Idle current sensor (~10 mA Max. output current sensor 200 mA Max. switching frequency sensor 5,000 Hz Residual ripple sensor (~2 V Electrical connection 4-pin Plug according to ISO 15407-2  Sensor connection Plug Cable 4-pin M12x1 0,5 m Mounting type On sub-base Auxiliary pilot air port 12/14 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 1 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 2 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 3 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 3 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 3 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 3 Manifold block, size 26 mm acc. to ISO 15407-2 Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2	
Ambient temperature  -5 50 °C  Max. tightening torque, valve mounting  1.8 2.2 Nm  Product weight  281 g  Operating voltage range, DC sensor  10 30 V  Short-circuit strength sensor  Idle current sensor  4 = 10 mA  Max. output current sensor  Max. witching frequency sensor  Residual ripple sensor  200 mA  We should ripple sensor  4-pin  Plug  according to ISO 15407-2  Sensor connection  Mounting type  Auxiliary pilot air port 12/14  Pilot exhaust port 82/84  Optional  Ducted  Non-ducted  Pneumatic connection, port 1  Pneumatic connection, port 2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4	
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Product weight  Operating voltage range, DC sensor  10 30 V  Short-circuit strength sensor  Idle current sensor  Amax. output current sensor  Residual ripple sensor  Voltage drop sensor  Electrical connection  Plug  Cable  4-pin  Plug  Cable  4-pin  M12x1  0,5 m  Mounting type  Auxiliary pilot air port 12/14  Pilot exhaust port 82/84  Optional  Ducted  Non-ducted  Pneumatic connection, port 1  Pneumatic connection, port 2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4	
Operating voltage range, DC sensor	
Short-circuit strength sensor	
Short-circuit strength sensor	
Max. output current sensor  Max. switching frequency sensor  Residual ripple sensor  \$\frac{10 \text{ Mo}}{200 \text{ Mo}}\$  Voltage drop sensor  \$\frac{10 \text{ Mo}}{200 \text{ Mo}}\$  Voltage drop sensor  \$\frac{10 \text{ Mo}}{200 \text{ Mo}}\$  Electrical connection  \$\frac{10 \text{ Mo}}{200 \text{ Mo}}\$  Plug  according to ISO 15407-2  Plug  Cable  4-pin  M12x1  0,5 m  Mounting type  \$\text{ On sub-base}\$  Auxiliary pilot air port 12/14  Pilot exhaust port 82/84  Optional  Ducted  Non-ducted  Pneumatic connection, port 1  Pneumatic connection, port 2  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4	
Max. switching frequency sensor  Residual ripple sensor  \$\frac{\text{to 10 \%}}{\text{Voltage drop sensor}}\$  \$\frac{\text{to 10 \%}}{\text{d-pin}}\$  Flug  according to ISO 15407-2  Sensor connection  Plug  Cable  4-pin  M12x1  0,5 m  Mounting type  Auxiliary pilot air port 12/14  Pilot exhaust port 82/84  Pilot exhaust port 82/84  Pneumatic connection, port 1  Pneumatic connection, port 2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 3  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4  Manifold block, size 26 mm acc. to ISO 15407-2  Pneumatic connection, port 4	
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Pneumatic connection, port 4 Manifold block, size 26 mm acc. to ISO 15407-2	
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reneumanic connections, Dore 5 - EManifold block, Size 76 mm acc. to ISO 15407-7	
Materials note Conforms to RoHS	
Material seals FPM	
NBR	
Material housing Aluminium die cast	
PA	
Material screws Galvanised steel	
Switching element function Normally closed contact	