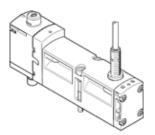
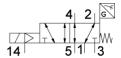
Solenoid valve VSVA-B-M52-MZH-A1-1T1L-APX-0.5 Part number: 8033057







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
Working pressure	-0.9 10 bar
Design structure	Piston slide
Type of reset	mechanical spring
KC mark	KC-EMV
CE symbol (see declaration of conformity)	according to EU-EMV guideline
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
Lap	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 subbase	1,200 l/min
Optimized 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



Feature	Value
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
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC	0 - No corrosion stress
PWIS 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	281 g
Operating voltage range, DC sensor	10 30 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	± 10 %
Voltage drop sensor	<= 2 V
Electrical connection	4-pin
Electrical connection	Plug
	according to ISO 15407-2
Sensor connection	Plug
Selisor connection	Cable
	4-pin
	M12x1
	0,5 m
Mounting type	On subbase
Auxiliary pilot air port 12/14	Manifold block, size 26 mm acc. to ISO 15407-2
Pilot exhaust port 82/84	Optional
Pilot exnaust port 82/84	Ducted
	Non-ducted
Programatic connection port 1	
Pneumatic connection, port 1 Pneumatic connection, port 2	Manifold block, size 26 mm acc. to ISO 15407-2
• • • • • • • • • • • • • • • • • • • •	Manifold block, size 26 mm acc. to ISO 15407-2 Manifold block, size 26 mm acc. to ISO 15407-2
Pneumatic connection, port 3 Pneumatic connection, port 4	Manifold block, size 26 mm acc. to ISO 15407-2 Manifold block, size 26 mm acc. to ISO 15407-2
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Pneumatic connection, port 5 Materials note	Manifold block, size 26 mm acc. to ISO 15407-2
	Conforms to RoHS
Material seals	FPM NBR
Material housing	Aluminum die cast
	PA PA
Material screws	Galvanized steel
Switching element function	Normally closed contact