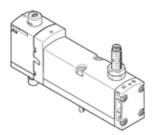
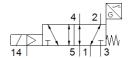
solenoid valve VSVA-B-M52-MZD-A1-1T1L-APP Part number: 560724







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	-0.9 10 bar
Design structure	Piston slide
Type of reset	mechanical spring
Authorisation	C-Tick
	CSA (OL)
	c UL us - Recognized (OL)
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	detenting
	Pushing
	Covered
Type of piloting	Piloted
Pilot air supply	external
,	Internal
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	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



Feature	Value
Switch output	PNP
Characteristic coil data	24 V DC: 1.6 W
Surge strength	2.5 kV
Degree of contamination	3
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
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	264 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	Plug
	according to ISO 15407-2
	4-pin
Sensor connection	Plug
	3-pin
	M8x1
Mounting type	On sub-base
Auxiliary pilot air port 12/14	Manifold block, size 26 mm acc. 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 4	Manifold block, size 26 mm acc. to ISO 15407-2
Pneumatic connection, port 5	Manifold block, size 26 mm acc. to ISO 15407-2
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