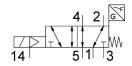
Solenoid valve VSVA-B-M52-MZD-A1-1T1L-ANC

FESTO

Part number: 560742





Data sheet

Feature	Value	
Valve function	5/2-way, monostable	
Type of actuation	Electric	
Construction width	26 mm	
Standard nominal flow rate (standardised to DIN 1343)	1100 l/min	
pneumatic working port	Sub-base size 26 mm to ISO 15407-2 G1/4	
Operating voltage	24V DC	
Operating pressure	-0.09 MPa1 MPa -0.9 bar10 bar	
Design	Piston gate valve	
Type of reset	Mechanical spring	
KC mark	KC-EMV	
CE mark (see declaration of conformity)	To EU EMC Directive	
UKCA marking (see declaration of conformity)	To UK instructions for EMC	
Degree of protection	IP65 NEMA 4	
Nominal size	9 mm	
Exhaust-air function	With flow control option Via throttle plate Via individual sub-base	
Sealing principle	Soft	
Mounting position	optional	
Manual override	Detenting Non-detenting Covered	
Type of piloting	Pilot actuated	
Pilot air supply	External Internal	
Flow direction	optional	
Measuring principle	Inductive	
lap	Overlap	
Reverse polarity protection sensor	For all electrical connections	
Signal status display	LED	
Switching position sensing	Normal position via sensor	

Feature	Value
Switching status display sensor	LED
Pilot pressure	0.3 MPa1 MPa
	3 bar10 bar
Flow rate of valve	1400 l/min
Flow rate of valve on individual sub-base	1200 l/min
Valve flow rate, pneumatically linked, flow optimized	1350 l/min
Flow rate of pneumatically interlinked valve	1100 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 0 signal	1200 μs
Max. negative test pulse with 1 signal	1100 µs
Nominal operating voltage DC	24 V
Switching output	NPN
Characteristic coil data	24 V DC: 1.6 W
Immunity to surge	2.5 kV
Pollution degree	3
Permissible voltage fluctuations	+/-10%
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-5 °C50 °C
Relative air humidity	0 - 90%
Sound pressure level	85 dB(A)
Ambient temperature	-5 ℃50 ℃
Max. tightening torque for valve mounting	1.8 Nm2.2 Nm
Product weight	307 g
Operating voltage range, DC sensor	10 V30 V
Short-circuit strength sensor	Pulsed
Idle current sensor	10 mA
Max. output current sensor	200 mA
Max. switching frequency sensor	5000 Hz
Residual ripple sensor	± 10%
Voltage drop sensor	2 V
Electrical connection	4-pin Plugs To ISO 15407-2
Sensor connection	Cable 2.5 m
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base size 26 mm to ISO 15407-2
Pilot exhaust port 82/84	Ducted Not ducted Either:
Pneumatic connection, port 1	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 2	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 3	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 4	Sub-base size 26 mm to ISO 15407-2
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Feature	Value
Pneumatic connection, port 5	Sub-base size 26 mm to ISO 15407-2
Note on materials	RoHS-compliant
Material seals	FPM NBR
Material housing	Die-cast aluminium PA
Material screws	Galvanised steel
Switching element function	N/C contact