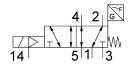
Solenoid valve VSVA-B-M52-MZD-A1-1T1L-ANP

FESTO

Part number: 560743





General operating condition

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 MPa 1 MPa
Operating pressure	-0.9 bar 10 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
Symbol	00997391
Measuring principle	Inductive
lap	Overlap
Reverse polarity protection sensor	For all electrical connections
Signal status display	LED
Switching position sensing	Normal position via sensor
Switching status display sensor	LED
Pilot pressure	0.3 MPa 1 MPa
Pilot pressure	3 bar 10 bar

Flow rate of Valve on individual sub-base 1200 U/min 1350 U/min	Feature	Value
Valve flow rate, pneumatically inked, flow optimized 1350 l/min Flow rate of pneumatically inked, flow optimized 1100 l/min Flow rate of pneumatically inked, flow optimized 1100 l/min Switching, time of 20 ms Valve - sensor switching time of 11 ms Duty cycle 100% Max. positive test pulse with 0 signal 1200 µs Max. negative test pulse with 1 signal 1100 µs Moninal operating voltage DC 24 V Switching output NPN Characteristic coll data 24 V DC: 1.6 W Immunity to surge 2.5 kW Permissible voltage fluctuations 4,7 1.0 % Operating medium Compressed air to ISO 8973-1:2010 [7:4:4] Note on operating and pilot medium Unbridated operation possible (in withich ase lubricated operation will always be required) Vibration resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-2 T Cornosion resistance class CRC 0 - No cornosion stress Carbos in resistance class CRC 0 - No cornosion stress Carbos in resistance class CRC 0 - No cornosion stress Carbos in resistance class CRC 0 - No c	Flow rate of valve	1400 l/min
Flow rate of pneumatically interlinked valve Switching time of 20 ms Valve - sensor switching time of 20 ms Valve - sensor switching time of 11 ms Usubry cycle 100% Max. possitive test pulse with 1 signal Max. negative test pulse with 1 signal Max. person to switching time of 24 V 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 4/-10 % Operating medium Note on operating and pilot medium Subvas be required on selection test with severity level 2 to FN 942017 4 and EN 6006-8-2 6 Shock resistance Shock resistance Shock test with severity level 2 to FN 942017 5 and EN 6006-8-2 6 Shock resistance class CRC O No corrosion sreistance dass CRC O No corrosion sreistance dass CRC Anablemature 5 °C 50 °C Max. rightening forque for valve mounting 1.8 Mm 2.2 Nm Product weight of consensor Readicular fluctuations 9 List of Amales and Poly Consensor 10 Nm 2.2 Nm Product weight of consensor 10 Nm 2.2 Nm Product weight of consensor 10 Nm 2.2 Nm Product weight operator Readicular fluggles sensor 10 Nm 2.2 Nm Product weight operator Pulsed Ideal current sensor 200 mA Max. weithching frequency sensor 10 Nm 2.2 Nm Pulse Pulse of mounting Pulse Floric factor connection Pulse Floric factor pure to Science of mit to ISO 15407-2 Flore without port 2 Sub-base size 26 mm to ISO 15407-2 Flore without connection, port 2 Sub-base size 26 mm to ISO 15407-2 Sub-base size 26 mm to ISO 15407-2	Flow rate of valve on individual sub-base	1200 l/min
Switching time of	Valve flow rate, pneumatically linked, flow optimized	1350 l/min
20 ms	Flow rate of pneumatically interlinked valve	1100 l/min
20 ms	Switching time off	54 ms
Valve - sensor switching time on 60 ms Valve - sensor switching time off 11 ms 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 k W Polluton degree 3 Permissible voltage fluctuations 4/-10 % Operating medium Compressed air to 150 85/31-12010[7.44] Uubricated operating notified to 100 perating nedium Uubricated operation possible (in which case lubricated operation will always be required) Vibration resistance Shock resistance Processed Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-6 Shock resistance Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-6 Shock resistance Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-7 Corrosion resistance class CRC 0-No corrosion stress VDMAx236-8 1/32-1 LABS (PWIS) conformity VDMAx236-8 1/32-1 Madia temperature 5-5 °C 50 °C Relative air humidity 0-90% Sound pressure level 85 dS(A) Ambient temperature 5-5 °C 50 °C Max. tightening torque for valve mounting 1.8 Nm 2.2 Nm Product weight 0-4 Shock resistance Pulsed Voltage drop sensor 10 V 30 V Short-circuit strength sensor 10 V 30 V Short-c		20 ms
Valve - sensor switching time off Duty cycle 100% Max. positive test pulse with 0 signal 1100 µs Nominal operating wotage DC 24 V Switching output NPN Characteristic coil data NPN Characteristic coil data 124 V DC: 1.6 W Immunity to surge 2.5 kW Pollution degree 3 Permissible voltage fluctuations 4/- 10 % Operating medium Compressed air to 150 8573-1:2010 [7:4:4] Note on operating and pilot medium Lubricated operating 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 kest with severity level 2 to FN 942017-5 and EN 60068-2-7 Corrosion resistance class CRC On No corrosion stress Carbon formity VDMA2364-81/82-1 Media temperature 5-°C 50 °C Relative air humidity 5-°C		60 ms
Duty cycle Max. positive test pulse with 0 signal Max. negative test pulse with 1 signal Nominal operating voltage DC Switching output NPN Annearceristic coil data Lav DC. 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations - y-10 % Operating medium Compressed air to ISO 8573-1:27010 [7:4:4] Note on operating and pilot medium Lubricated operation possible (in which case lubricated operation will always be required) Vibration resistance Shock resistance Shock resistance Shock resistance class CRC LABS (PWIS) conformity WDMA24364-8h [182-1. Media temperature 5 *C50 *C. Relative air humidity Sound pressure level Annibent temperature 4.5 *C50 *C. Max. sightening torque for valve mounting 1.8 Nm 2.2 Nim Product weight Doperating voltage range, DC sensor 100 Na. Shock less frequency sensor 4.00 Pags Shock connection Pulsed Idide current sensor 4.00 Pag 3. Pulsed Heldric person 1.00 Na. Aux. switching frequency sensor 2.2 V Electrical connection Pulse Product weight On sub-base Pilot air port 12/14 Pilot exhaust port 82/84 Ducted Not usub-base size 26 mm to ISO 15407-2 Penumatic connection, port 1 Sub-base size 26 mm to ISO 15407-2 Sub-base size 26 mm to ISO 15407-2 Sub-base size 26 mm to ISO 15407-2		11 ms
Max. negative test pulse with 1 signal Nominal operating voltage DC 2 AV Switching output NPN Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations -1/-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) Vibration resistance Transport application tests with severity level 2 to FN 942017-4 and EN 60068-2-6 60068-2-6 60068-2-6 Corrosion resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-0 Corrosion resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-0 Corrosion resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-0 Corrosion resistance class CCC -1 No corrosion self-81/8-1 Wedia temperature -5 °C 50 °C Relative air humidity -5 °C 50 °C Relative air humidity -5 °C 50 °C Max. dightening torque for valve mounting -1.8 km 2.2 km Product weight -0 perating voltage range, DC sensor -10 V 30 V Short-circuit strength sensor -10 V 30 V Short-circuit strength sensor -10 V 30 V Short-circuit strength sensor -10 V 30 V Residual ripple	Duty cycle	100%
Max. negative test pulse with 1 signal Nominal operating voltage DC 2 AV Switching output NPN Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations -1/-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) Vibration resistance Transport application tests with severity level 2 to FN 942017-4 and EN 60068-2-6 60068-2-6 60068-2-6 Corrosion resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-0 Corrosion resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-0 Corrosion resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-0 Corrosion resistance class CCC -1 No corrosion self-81/8-1 Wedia temperature -5 °C 50 °C Relative air humidity -5 °C 50 °C Relative air humidity -5 °C 50 °C Max. dightening torque for valve mounting -1.8 km 2.2 km Product weight -0 perating voltage range, DC sensor -10 V 30 V Short-circuit strength sensor -10 V 30 V Short-circuit strength sensor -10 V 30 V Short-circuit strength sensor -10 V 30 V Residual ripple	Max. positive test pulse with 0 signal	1200 μs
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Switching output NPN Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations 4/-10 % Operating medium Compressed air to ISO 8973-1:2010 [7:4-4] 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 O No corrosion stress LBS (PWIS) conformity WDMA24364-B1/B2-1 Media temperature 5° C 50 °C Relative air humidity O -90% Sound pressure level Assolute pressure level Max. tightening torque for valve mounting 1.8 Nm 2.2 Nm Product weight Q64 g Operating voltage range, DC sensor 10 V 30 V Short-circuit strength sensor pulsed Idle current sensor 410 mA Max. output current sensor 42 V Electrical connection Pulse Residual ripple sensor 1 10% Voltage drop sensor 1 10% Voltage drop sensor Electrical connection Plug 3 pin M8x.1 Type of mounting On sub-base Pilot exhaust port 82/84 Not ducted Either: Pneumatic connection, port 1 Pneumatic connection, port 2 Sub-base size 26 mm to ISO 15407-2 Fenumatic connection, port 2 Sub-base size 26 mm to ISO 15407-2		
Characteristic coil data 24 V DC: 1.6 W Immunity to surge 2.5 kV Pollution degree 3 Permissible voltage fluctuations 4/-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 Shock resistance Shock resistance Shock resistance class CRC O No corrosion stress Corrosion resistance class CRC O No corrosion stress LABS (PWIS) conformity WDMA24364-B182-L Media temperature 5-9 °C 50 °C Relative air humidity O -90% Sound pressure level Ababient temperature 5-9 °C 50 °C Max. dightening torque for valve mounting 1.8 Nm 2.2 Nm Product weight Operating voltage range, DC sensor 10 V 30 V Short-circuit strength sensor Pulsed Idle current sensor Alax. output current sensor Alax. output current sensor Alax. output current sensor 20 om A Max. switching frequency sensor Electrical connection Plug Sensor connection Plug Sensor connection Plug Frequency Product weight On sub-base Plot of mounting On sub-base Plot outced Not ducted Either: Preumatic connection, port 1 Peneumatic connection, port 2 Sub-base size 26 mm to ISO 15407-2		NPN
Pollution degree 3 Permissible voltage fluctuations	Characteristic coil data	24 V DC: 1.6 W
Pollution degree 3 Permissible voltage fluctuations	Immunity to surge	2.5 kV
Permissible voltage fluctuations Operating medium Compressed air to ISO 8573-1:2010 [7:4:4] Uubricated operating 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 VDMA24364-81/82-1. Media temperature -5 °C 50 °C Relative air humidity 0 - 90% Sound pressure level 85 dB(A) Ambient temperature -5 °C 50 °C Max. tightening torque for valve mounting 1.8 Nm 2.2 Nm Product weight Operating voltage range, DC sensor 10 V 30 V Short-circuit strength sensor Valde current sensor Valde c	· · · · · · · · · · · · · · · · · · ·	
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60068-2-6 Shock resistance Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27	Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will
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Media temperature 5-5 °C 50 °C Relative air humidity 0-90% Sound pressure level 85 dB(A) Ambient temperature -5 °C 50 °C Max. tightening torque for valve mounting 1.8 Nm 2.2 Nm Product weight 264 g Operating voltage range, DC sensor 10 V 30 V Short-circuit strength sensor Pulsed Idle current sensor 200 mA Max. output current sensor 200 mA Max. switching frequency sensor 5000 Hz Residual ripple sensor ± 10% Voltage drop sensor ± 10% Voltage drop sensor ± 2 V Electrical connection 4-pin Plugs To ISO 15407-2 Sensor connection Plug On sub-base Pilot air port 12/14 Sub-base size 26 mm to ISO 15407-2 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	Corrosion resistance class CRC	0 - No corrosion stress
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Relative air humidity Sound pressure level 85 dB(A) Ambient temperature -5 °C 50 °C Max. tightening torque for valve mounting 1.8 Nm 2.2 Nm Product weight 264 g Operating voltage range, DC sensor 10 V 30 V Short-circuit strength sensor Pulsed Idle current sensor 200 mA Max. output current sensor 200 mA Max. switching frequency sensor \$5000 Hz Residual ripple sensor \$10 % Voltage drop sensor \$2 V Electrical connection Plug To ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base size 26 mm to ISO 15407-2 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		·
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Max. switching frequency sensor Residual ripple sensor \$\frac{10\%}{2}\$ Voltage drop sensor \$\frac{4}{2}\$ V Electrical connection \$\frac{4}{2}\$ Ping Plugs To ISO 15407-2 Sensor connection \$\frac{1}{2}\$ Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base size 26 mm to ISO 15407-2 Plug And 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	Idle current sensor	
Max. switching frequency sensor Residual ripple sensor \$\frac{10\%}{2}\$ Voltage drop sensor \$\frac{4}{2}\$ V Electrical connection \$\frac{4}{2}\$ Ping Plugs To ISO 15407-2 Sensor connection \$\frac{1}{2}\$ Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Sub-base size 26 mm to ISO 15407-2 Plug And 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	Max. output current sensor	200 mA
Residual ripple sensor ± 10% Voltage drop sensor ≤2 V Electrical connection 4-pin Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 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	·	5000 Hz
Voltage drop sensor Electrical connection 4-pin Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 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		± 10%
Plugs To ISO 15407-2 Sensor connection Plug 3-pin M8x1 Type of mounting On sub-base Pilot air port 12/14 Pilot exhaust port 82/84 Ducted Not ducted Either: Pneumatic connection, port 1 Pneumatic connection, port 2 Sub-base size 26 mm to ISO 15407-2 Sub-base size 26 mm to ISO 15407-2 Sub-base size 26 mm to ISO 15407-2	Voltage drop sensor	≤2 V
3-pin M8x1 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 Sub-base size 26 mm to ISO 15407-2	Electrical connection	Plugs
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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	Type of mounting	On sub-base
Not ducted Either: Pneumatic connection, port 1 Pneumatic connection, port 2 Sub-base size 26 mm to ISO 15407-2 Sub-base size 26 mm to ISO 15407-2	Pilot air port 12/14	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 2 Sub-base size 26 mm to ISO 15407-2	Pilot exhaust port 82/84	Not ducted
71	Pneumatic connection, port 1	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 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	Pneumatic connection, port 4	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 5 Sub-base size 26 mm to ISO 15407-2	Pneumatic connection, port 5	Sub-base size 26 mm to ISO 15407-2
Note on materials RoHS-compliant	Note on materials	RoHS-compliant

Feature	Value
Material seals	FPM NBR
Material housing	Die-cast aluminium PA
Material screws	Galvanised steel
Switching element function	N/C contact