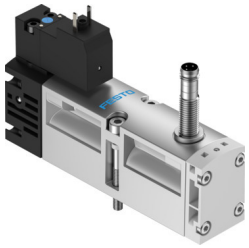
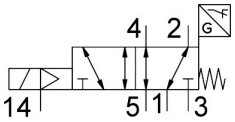
Air solenoid valve
VSVA-B-M52-MZ-A1-1C1-ANP

Part number: 560745





Data sheet

Feature	Value
Valve function	5/2, monostable
Actuation type	Electrical
Width	26 mm
Standard nominal flow rate	1100 l/min
Pneumatic working port	Sub-base, size 26 mm according to ISO 15407-1 Connecting plate size 01 according to VDMA 24563 G1/4
Operating voltage	24V DC
Operating pressure	-0.09 MPa...1.6 MPa -0.9 bar...16 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Certification	C-Tick c UL us - Recognized (OL)
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive
Certificate issuing authority	UL MH19482
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Degree of protection	IP65 NEMA 4
Nominal width	9 mm
Exhaust air function	With flow control option Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Conforms to standard	ISO 15407-1 VDMA 24563
Manual override	Covered
Type of control	Pilot-controlled
Pilot air supply port	External
Flow direction	Any
Measuring principle	Inductive
Lap	Overlap

Feature	Value
Sensor reverse polarity protection	For all electrical connections
Signal status display	With accessories
Switching position sensing	Normal position with sensor
Sensor switching status indication	LED
Pilot pressure MPa	0.3 MPa...1 MPa
Pilot pressure	3 bar...10 bar
Flow rate of pneumatic valve	1400 l/min
Flow rate of pneumatic valve on individual sub-base	1100 l/min
Optimized flow rate of pneumatic valve pneumatically concatenated flow	1100 l/min
Switching time off	41 ms
On switching time	21 ms
Pneumatic valve - sensor ON switching time	60 ms
Pneumatic valve - sensor switching time off	11 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	1800 µs
Max. negative test pulse on 1 signal	800 µs
Nominal operating voltage DC	24 V
Switching output	NPN
Coil characteristics	24 V DC: 1.8 W
Permissible voltage fluctuations	-15 % / +10 %
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Vibration resistance	Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C...50 °C
Relative air humidity	0 - 90 %
Noise level	85 dB(A)
Ambient temperature	-5 °C...50 °C
Max. tightening torque for valve mounting	1.8 Nm...2.2 Nm
Product weight	289 g
DC sensor operating voltage range	10 V...30 V
Sensor short circuit protection	Pulsed
Sensor idle current	10 mA
Max. output current, sensor	200 mA
Sensor max. switching frequency	5000 Hz
Sensor residual ripple	± 10 %
Sensor voltage drop	2 V
Electrical connection	Form C as per EN 175301-803 Without PE conductor
Sensor connection	Plug 3-pin M8x1
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base, size 26 mm as per ISO 15407-1
Pilot exhaust air port 82/84	Ducted Not ducted Optionally:
Pneumatic connection 1	Sub-base, size 26 mm as per ISO 15407-1
Pneumatic connection 2	Sub-base, size 26 mm as per ISO 15407-1
Pneumatic connection 3	Sub-base, size 26 mm as per ISO 15407-1
Pneumatic connection 4	Sub-base, size 26 mm as per ISO 15407-1

Feature	Value
Pneumatic connection 5	Sub-base, size 26 mm as per ISO 15407-1
Pilot interface	as per ISO 15218
Note on materials	RoHS-compliant
Seals material	FPM NBR
Housing material	Die-cast aluminum PA
Material of screws	Steel, galvanized
Switching element function	N/C contact