Air solenoid valve VSVA-B-M52-MZ-A2-1T1L-APX-0.5

FESTO

Part number: 8033495





Data sheet

Feature	Value
Valve function	5/2, monostable
Actuation type	Electrical
Width	18 mm
Standard nominal flow rate	550 l/min
Pneumatic working port	Sub-base, size 18 mm according to ISO 15407-2 G1/8
Operating pressure	-0.09 MPa1 MPa -0.9 bar10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive
Degree of protection	IP65 NEMA 4
Nominal width	5 mm
Exhaust air function	With flow control option Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Manual override	Covered
Type of control	Pilot-controlled
Pilot air supply port	External
Flow direction	Non-reversible
Measuring principle	Inductive
Lap	Overlap
Sensor reverse polarity protection	For all electrical connections
Signal status display	LED
Switching position sensing	Normal position with sensor
Sensor switching status indication	LED
Pilot pressure MPa	0.3 MPa1 MPa
Pilot pressure	3 bar10 bar
Flow rate of pneumatic valve	750 l/min

Optimized flow rate of pneumatic valve, pneumatically concatenated flow Springer flow rate of pneumatic valve pneumatically concatenated flow Springer flow rate of pneumatic valve pneumatically concatenated flow Springer flow rate of pneumatic valve pneumatically concatenated flow Springer flow rate of pneumatic valve sensor OR switching time 12 ms Pneumatic valve sensor OR switching time 19 ms Debty cycle 100% Place york to sensor or springer flow flow flow flow flow flow flow flow	Feature	Value
Optimized flow rate of pneumatic valve, pneumatically concatenated flow of politic valve of pneumatic valve pneumatically concatenated flow of politic valve of pneumatic valve pneumatically concatenated flow of politic valve of pneumatic val	Flow rate of pneumatic valve on individual sub-base	600 l/min
Switching time of 38 ms 12 ms	Optimized flow rate of pneumatic valve, pneumatically concatenated flow	700 l/min
20	Optimized flow rate of pneumatic valve pneumatically concatenated flow	550 l/min
Preumatic valve - sensor ON switching time off 9 ms Preumatic valve - sensor on Switching time off 9 ms Jones	Switching time off	38 ms
Preumatic valve - sensor switching time off Duty cycle 100% Max. positive test pulse with o signal Max. negative test pulse with o signal Max. negative test pulse on 1 signal 800 µs Max. negative test pulse on 1 signal 800 µs Max. negative test pulse on 1 signal 800 µs Monital operating voltage DC 24 V POC. 1.6 W Surge resistance 2,5 kW Contamination level 3 Remission operating edium Contamination level 3 Remission voltage fluctuations 4-7.10 % Compressed air as per ISO 8573-1;2010 [74-44] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Whation resistance Remission operating and pilot media Operation with oil lubrication possible (required for further use) Whation resistance Remission operating and pilot media Operation with oil lubrication possible (required for further use) Whation resistance Remission operating and pilot media Operation with oil lubrication possible (required for further use) Whation resistance Remission operating and pilot media Operation with oil lubrication possible (required for further use) Whation resistance Remission of the service of required for further use) Whation resistance Remission of the service of required for further use) Whation resistance Remission resistance lass (RCQ) On No corrosion stress Remission resistance lass (RCQ) On No corrosion stress Remission resistance lass (RCQ) On No corrosion stress Remission remission of the service of required for further use) Remission remission of the service of required for further use) Remission remission of the service of required for further use) Remission remission of the service of resistance Remission remission of the service of resistance Remission remission of the service of resistance of required for further use) Remission remission of the service of required for further use) Remission remission of the service of required for further use) Remission remission of the service of required for further use) Remission remission of the service of required for further use)	On switching time	12 ms
Duty cycle	Pneumatic valve - sensor ON switching time	32 ms
Max. positive test pulse on 1 signal Max. positive test pulse on 1 signal Max. negative test pulse on 1 signal Max. positive test with severity level 2 as per FN 942017-4 and 1 signal Max. positi	Pneumatic valve - sensor switching time off	9 ms
Max. negative test pulse on 1 signal Nominal operating voltage DC 24 V With ling output PMP Coil characteristics 24 V DC: 1.6 W Surge resistance 2.5 kV Contamination level 3 Permissible voltage fluctuations -/-10 % Operating medium Compressed all as per ISO 8573-1:2010 [7.4:4] Information on operating and pilot media Operating with oil lubrication possible (required for further use) Transport application test with severity level 2 as per RN 942017-4 and eN 60068-2-6 Shock resistance Corrosion resistance class (CRC) 0 - No corrosion stress ASS (PMS) conformity VDMA2436-81/82-1 Emperature of medium -5°C.50 °C Max. lightening torque for valve mounting 0.8 Nm1.2 Nm Product weight 157 g Sensor short circuit protection Pulsed Sensor short circuit protection Pulsed Sensor wax. swiftching frequency Sensor wax. swiftching frequency Sensor rosidual ripple Electrical connection Pulse Bestor connection Pulse Bestor connection Pulse Bestor connection Pulse Present voltage drop 2 V Electrical tonnection Pulse Bestor voltage drop Electrical connection Sub-base, size 18 mm as per ISO 15407-2 Penumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Penumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Penumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Penumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	Duty cycle	100%
Nominal operating voltage DC	Max. positive test pulse with 0 signal	1500 μs
Nominal operating voltage DC	Max. negative test pulse on 1 signal	800 µs
Switching output PNP Coil characteristics 24 V DC: 1.6 W Surge resistance 2.5 kW Contamination level 3 Permissible voltage fluctuations 4/1 0 % 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) Albration resistance Transport application test with severity level 2 as per FN 942017-4 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27 Corrosion resistance class (CRC) O - No corrosion stress Albest FWIS conformity VDMA2436-84-81/82-1 Temperature of medium 5 °C50 °C Ambient temperature 4.5 °C50 °C Max. tightening torque for valve mounting O AN Mm. 1,2 km Product weight DC sensor operating voltage range 10 V30 V Sensor operating voltage range 10 V30 V Sensor operating voltage range 10 V30 V Sensor orbic current, sensor 200 mA Max. output current, sensor 200 mA Max. output current, sensor 200 mA Sensor max. switching frequency Sensor voltage drop 1 10 % Sensor voltage drop 2 V Electrical connection Plug Gable 4-pin M12x1 0.5 mm as per ISO 15407-2 Plug Gable 4-pin M12x1 0.5 mm as per ISO 15407-2 Plug The with a sensor specified of the specified of the specified of the production of the specified of the production of the specified of the production of the plug as per ISO 15407-2 Plug The with a specified of the production of the plug as per ISO 15407-2 Plug The with a specified of the plug Albert air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Preumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Preumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Preumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	Nominal operating voltage DC	24 V
24 V DC: 1.6 W	Switching output	PNP
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Cable 4-pin M12x1 0.5 m Type of mounting On sub-base Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2	Electrical connection	4-pin Plug
Pilot air port 12/14 Sub-base, size 18 mm as per ISO 15407-2 Pilot exhaust air port 82/84 Ducted Not ducted Optionally: Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Sensor connection	Cable 4-pin M12x1
Pilot exhaust air port 82/84 Ducted Not ducted Optionally: Pneumatic connection 1 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	Type of mounting	On sub-base
Not ducted Optionally: Pneumatic connection 1 Pneumatic connection 2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Pilot air port 12/14	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	Pilot exhaust air port 82/84	Not ducted
Pneumatic connection 3 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2 Sub-base, size 18 mm as per ISO 15407-2	Pneumatic connection 1	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 4 Sub-base, size 18 mm as per ISO 15407-2 Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	Pneumatic connection 2	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 5 Sub-base, size 18 mm as per ISO 15407-2	Pneumatic connection 3	Sub-base, size 18 mm as per ISO 15407-2
	Pneumatic connection 4	Sub-base, size 18 mm as per ISO 15407-2
Note on materials RoHS-compliant	Pneumatic connection 5	Sub-base, size 18 mm as per ISO 15407-2
	Note on materials	RoHS-compliant

Feature	Value
Seals material	FPM NBR
Housing material	Die-cast aluminum PA
Material of screws	Steel, galvanized
Switching element function	N/C contact