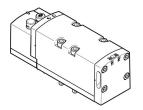
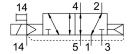
Air solenoid valve VSVA-B-M52-AZD-D2-1T1L

FESTO

Part number: 560820





Data sheet

Actuation type Electrical Width \$2 mm Standard nominal flow rate 2900 l/min Pneumatic working port Sub-base, size 2 as per ISO 5599-2 G1/2 Operating voltage 24V DC Operating pressure -0.09 MPa 1 MPa Operating pressure -0.9 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification Cut us - Recognized (OL) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive Degree of protection IP65 NEMA 4 Width dimension 59 mm Type code VSVA Exhaust air function With flow control option Via thrortte plate Via Individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-2 Manual override Detenting Non-detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Any Symbol Op991050 Signal status display Pilot pressure How rate of pneumatic valve How rate of pneumatic valve Doptimized flow rate of pneumatic valve Doptimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve flow and the valve flow and valve flow flow and valve flow flow flow flow flow flow flow flow	Feature	Value
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Standard nominal flow rate Pneumatic working port Sub-base, size 2 as per ISO 5599-2 G1/2 Operating voltage Querating pressure Operating one one pressure Operating one operation Operating one operation Operating operation Operating one operation Operation of operation Operation one operation Operation of operation one operation of operation one operation on	Actuation type	Electrical
Pneumatic working port Sub-base, size 2 as per ISO 5599-2 G1/2 Operating voltage 24V DC Operating pressure -0.09 MPa 1 MPa Operating pressure -0.9 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification CUL us - Recognized (OL) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive Degree of protection NEMA 4 Width dimension S9 mm Type code V5VA With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-2 Manual override Detenting Non-detenting Type of control Pilot air supply port External Flow direction Any Syymbol Opgrain status display LED Pilot pressure MPa Ion and Any Ion and Any Ion Conforms to status display LED Pilot pressure MPa Ion and Any Ion Conform to part In MPa Ion Conforms to status display LED Pilot pressure MPa Ion and Any Ion Conform to part In MPa Ion Conforms to permantic valve In MPa Ion and In MPa Ion Conform to permantic valve on individual sub-base A000 I/min Control reconcileration Conform to permantic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on the concept of the concept	Width	52 mm
G1/2 Operating voltage Operating pressure Operating position Operating Operating Operation Operation Operating Operation Op	Standard nominal flow rate	2900 l/min
Operating pressure Piston gate valve Reset method Pneumatic spring Certification CUL us - Recognized (OL) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive Degree of protection Piess NEMA 4 Width dimension S9 mm Type code VSVA Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-2 Manual override Detenting Non-detenting Pilot air supply port External Flow direction Any Symbol Operating pressure Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve on individual sub-base	Pneumatic working port	
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Structural design Piston gate valve Reset method Pneumatic spring Certification CUL us - Recognized (OL) KC characters KCE MC CE marking (see declaration of conformity) As per EU EMC directive Degree of protection IP65	Operating pressure	-0.09 MPa 1 MPa
Reset method Pneumatic spring Certification Cultus - Recognized (OL) KC characters KC EMC CE marking (see declaration of conformity) As per EU EMC directive Degree of protection P65 NEMA 4 Width dimension 59 mm Type code VSVA Exhaust air function With flow control option Via thrortite plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-2 Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol Oo991050 Signal status display LED Pilot pressure An Oa MPa 1 MPa Pilot pressure Brow rate of pneumatic valve Plow rate of pneumatic valve on individual sub-base 2900 L/min Polymine Polym	Operating pressure	-0.9 bar 10 bar
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KC characters KC Emarking (see declaration of conformity) As per EU EMC directive Degree of protection IP65 NEMA 4 Width dimension 59 mm Type code VSVA Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-2 Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol Signal status display LED Pilot pressure MPa O. 3 MPa 1 MPa Pilot pressure IFOW rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Optimized flow rate of pneumatic valve pneumatically concatenated flow Pilot-incomplement As per EU EMC directive NEME As per EU E	Reset method	Pneumatic spring
Et marking (see declaration of conformity) Degree of protection Pe65 NEMA 4 Width dimension Type code Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Conforms to standard Mounting position Any Conforms to standard Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol Signal status display LED Pilot pressure MPa Pilot pressure John And John And John	Certification	c UL us - Recognized (OL)
Degree of protection IP65 NEMA 4 Width dimension 59 mm Type code VSVA Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard IS0 5599-2 Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol Sognal status display LED Pilot pressure MPa 0.3 MPa 1 MPa Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve pneumatically concatenated flow Detimized flow rate of pneumatic valve pneumatically concatenated flow 2900 I/min	KC characters	KC EMC
NEMA 4 Width dimension 59 mm Type code VSVA Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-2 Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol 00991050 Signal status display LED Pilot pressure MPa 0.3 MPa 1 MPa Pilot pressure MPa Pilot rate of pneumatic valve on individual sub-base 3400 l/min Flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	CE marking (see declaration of conformity)	As per EU EMC directive
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Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 5599-2 Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol O0991050 Signal status display LED Pilot pressure MPa O.3 MPa 1 MPa Pilot pressure When John air John	Width dimension	59 mm
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Conforms to standard Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol 00991050 Signal status display LED Pilot pressure MPa 0.3 MPa 1 MPa Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 I/min	Sealing principle	Soft
Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Any Symbol O0991050 Signal status display LED Pilot pressure MPa O.3 MPa 1 MPa Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 I/min	Mounting position	Any
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Pilot air supply port External Flow direction Any Symbol 00991050 Signal status display LED Pilot pressure MPa 0.3 MPa 1 MPa Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Manual override	1 9
Flow direction Any Symbol O0991050 Signal status display LED Pilot pressure MPa O.3 MPa 1 MPa Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve 4000 l/min Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Type of control	Pilot-controlled
Symbol 00991050 Signal status display LED Pilot pressure MPa 0.3 MPa 1 MPa Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve 4000 l/min Flow rate of pneumatic valve on individual sub-base 3400 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Pilot air supply port	External
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Pilot pressure MPa 0.3 MPa 1 MPa 3 bar 10 bar Flow rate of pneumatic valve 4000 l/min Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Symbol	00991050
Pilot pressure 3 bar 10 bar Flow rate of pneumatic valve 4000 l/min Flow rate of pneumatic valve on individual sub-base 3400 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Signal status display	LED
Flow rate of pneumatic valve 4000 l/min Flow rate of pneumatic valve on individual sub-base 3400 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Pilot pressure MPa	0.3 MPa 1 MPa
Flow rate of pneumatic valve on individual sub-base Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Pilot pressure	3 bar 10 bar
Optimized flow rate of pneumatic valve pneumatically concatenated flow 2900 l/min	Flow rate of pneumatic valve	4000 l/min
	Flow rate of pneumatic valve on individual sub-base	3400 l/min
Switching time off 45 ms	Optimized flow rate of pneumatic valve pneumatically concatenated flow	2900 l/min
	Switching time off	45 ms

Feature	Value
On switching time	40 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	1000 μs
Max. negative test pulse on 1 signal	3500 μs
Nominal pick-up current per solenoid coil	165 mA to 30 ms
Nominal current with current reduction	35 mA after 30 ms
Coil characteristics	24 V DC: 4.6 W
Surge resistance	2.5 kV
Contamination level	3
Permissible voltage fluctuations	+/- 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
Temperature of medium	-5 °C 50 °C
Relative air humidity	0 - 90 %
Ambient temperature	-5 °C 50 °C
Product weight	702 g
Electrical connection	Plug-in as per ISO 5599-2
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base, size 2 as per ISO 5599-2
Pilot exhaust air port 82/84	Optionally: Not ducted as per standard Ducted
Pneumatic connection 1	Sub-base, size 2 as per ISO 5599-2
Pneumatic connection 2	Sub-base, size 2 as per ISO 5599-2
Pneumatic connection 3	Sub-base, size 2 as per ISO 5599-2
Pneumatic connection 4	Sub-base, size 2 as per ISO 5599-2
Pneumatic connection 5	Sub-base, size 2 as per ISO 5599-2
Note on materials	RoHS-compliant
Seals material	FPM HNBR NBR
Housing material	Die-cast aluminum PA
Material of screws	Steel, galvanized