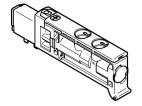
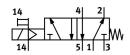
## Air solenoid valve VUVB-ST12-M52-MZH-QX-D-1T1

**FESTO** 

Part number: 558369





General operating condition

## **Data sheet**

Actuation type  Actuation type  All Electrical  12 mm  240 I/min 400 I/min  240 I/min 400 I/min  240 I/min 400 I/min  250 eneumatic working port  25	Feature	Value
Table size  12 mm  Standard nominal flow rate  240 l/min 400 l/min  Operating pressure  0.28 MPa 0.8 MPa  Operating pressure  2.8 bar 8 bar  Operating pressure  2.8 bar 8 bar  Operating pressure  2.8 bar 8 bar  Operating pressure  Operating pressure  2.8 bar 8 bar  Operating pressure  Operating time off  Operating time  Operating medium	Valve function	5/2, monostable
Standard nominal flow rate  Peneumatic working port  QS-4 QS-6 QS-6 QS-6 QS-6 QS-6 QS-6 QS-6 QS-6	Actuation type	Electrical
Operating pressure Operating medium Operating pressure Operating press	Valve size	12 mm
Operating pressure Operating width Operating pressure Operating width operating operating operating operating width Operating width Operating width Operating width Operating width operating operating operating operating operating operating operating width Operating width Operating width Operating width Operating width Operating width operating operating operating operating width Operating	Standard nominal flow rate	240 l/min 400 l/min
Departing pressure  2.8 bar 8 bar  Poppet valve with return spring  Reset method  Mechanical spring  Pef6  Nominal width  4 mm  Schaust air function  Without flow control option  Sealing principle  Soft  Mounting position  Any  Manual override  Non-detenting  Pilot-controlled  Pilot air supply port  External  Row direction  Non-reversible  Symbol  normation on operating pressure  Pilot pressure  2.8 bar 8 bar  With external pilot air  On switching time off  14 ms  Don switching time  Max. positive test pulse with 0 signal  Max. negative test pulse on 1 signal  Departing medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Departing medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Pneumatic working port	· ·
Structural design Poppet valve with return spring Reset method Mechanical spring IP65  Amm IP65 Nominal width Amm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Pilot-controlled Pilot air supply port External Clow direction Non-reversible Symbol 00991009 Information on operating pressure 0-0.8 bar with external pilot air 0-8 bar with e	Operating pressure	0.28 MPa 0.8 MPa
Reset method  Mechanical spring Degree of protection  IP65 Nominal width  4 mm  Exhaust air function  Without flow control option  Sealing principle  Soft Mounting position  Any Manual override  Non-detenting Pilot-controlled  Pilot-controlled  Pilot air supply port  External  Plow direction  Non-reversible  Symbol  00991009  Information on operating pressure  0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 8 bar 0 8 MPa  Pilot pressure MPa  0.28 MPa 0.8 MPa  Poins witching time  0 on switching time  Duty cycle  Max. positive test pulse with 0 signal  Max. negative test pulse on 1 signal  300 µs  Permissible voltage fluctuations  +/-10 %  Compressed air as per ISO 8573-1:2010 [7:4:4]	Operating pressure	2.8 bar 8 bar
Degree of protection  Nominal width  Exhaust air function  Without flow control option  Sealing principle  Mounting position  Manual override  Pilot-controlled  Pilot air supply port  External  Flow direction  Non-reversible  Symbol  Operating pressure  Pilot pressure MPa  On switching time off  On switching time  Max. positive test pulse with 0 signal  Max. negative test pulse on 1 signal  Coil characteristics  Permissible voltage fluctuations  Pilot on the direction on the pressure on the pressure on the pressure of th	Structural design	Poppet valve with return spring
A mm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Pipe of control Pilot-controlled Pilot air supply port External Plow direction Non-reversible Symbol 00991009 Information on operating pressure 0-8 bar with external pilot air Pilot pressure MPa 0.28 MPa 0.8 MPa Pilot pressure MPa 0.28 m a 0.8 MPa Pilot pressure MPa 0.5 bar 8 bar Switching time off 14 ms On switching time 6 ms Duty cycle 100% Max. positive test pulse with 0 signal 800 µs Max. negative test pulse on 1 signal 300 µs Coil characteristics 24 V DC: 1.0 W Permissible voltage fluctuations +/-10 % Compressed air as per ISO 8573-1:2010 [7:4:4]	Reset method	Mechanical spring
Exhaust air function Sealing principle Soft Mounting position Manual override Monaud override Monothing position Manual override Monothing position Monothing position Monothing position Monothing position Monothing principle Pilot-controlled Pilot-controlled Pilot air supply port External Non-reversible Symbol O0991009 Information on operating pressure O- 0.8 bar with external pilot air O- 8 b	Degree of protection	IP65
Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port External Non-reversible Symbol O0991009 Information on operating pressure O- 0.8 bar with external pilot air O- 8 bar with external pi	Nominal width	4 mm
Mounting position  Any Manual override  Mon-detenting  Pilot-controlled  Pilot-controlled  Pilot air supply port  External  Powdirection  Non-reversible  Symbol  Op91009  Information on operating pressure  Pilot pressure MPa  Pilot pressure MPa  O.28 MPa 0.8 MPa  Pilot pressure  2.8 bar 8 bar  Switching time off  14 ms  On switching time  6 ms  Outy cycle  100%  Max. positive test pulse with 0 signal  Max. negative test pulse on 1 signal  Service of the signal  Max. negative test pulse on 1 signal  Outperating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Exhaust air function	Without flow control option
Manual override  Non-detenting  Pilot-controlled  Pilot air supply port  External  Non-reversible  Symbol  Oppliot air on operating pressure  O - 0.8 bar with external pilot air O - 8 bar with external pilot ai	Sealing principle	Soft
Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol O0991009 Information on operating pressure Pilot pressure MPa Dilot pressure Pilot pressure On switching time off On switching time On switchin	Mounting position	Any
External Flow direction Non-reversible Symbol O0991009 Information on operating pressure O- 0.8 bar with external pilot air O- 8 bar	Manual override	Non-detenting
Non-reversible Symbol O0991009 Information on operating pressure O - 0.8 bar with external pilot air O - 8 b	Type of control	Pilot-controlled
Symbol00991009Information on operating pressure0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.28 MPa 0.8 MPaPilot pressure2.8 bar 8 barSwitching time off14 msOn switching time6 msDuty cycle100%Wax. positive test pulse with 0 signal800 μsMax. negative test pulse on 1 signal300 μsCoil characteristics24 V DC: 1.0 WPermissible voltage fluctuations+/- 10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]	Pilot air supply port	External
nformation on operating pressure  0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot air 0 -	Flow direction	Non-reversible
0 - 8 bar with external pilot air  0 - 8 bar with external pilot air  0 .28 MPa 0.8 MPa  2.8 bar 8 bar  Switching time off 14 ms  On switching time 6 ms  Outy cycle 100%  Max. positive test pulse with 0 signal Max. negative test pulse on 1 signal 300 μs  Coil characteristics 24 V DC: 1.0 W  Permissible voltage fluctuations +/- 10 %  Operating medium  On - 8 bar with external pilot air  0 .28 MPa 0.8 MPa  2.8 bar 8 bar  14 ms  6 ms  6 ms  20 up  100%  20 Up  20 Up  21 Up  22 Up  23 Up  24 V DC: 1.0 W  24 Up  25 Up  26 Up  27 Up  27 Up  28 Deprating medium  On pressed air as per ISO 8573-1:2010 [7:4:4]	Symbol	00991009
Pilot pressure  2.8 bar 8 bar  Switching time off  14 ms  On switching time  6 ms  Outy cycle  100%  Max. positive test pulse with 0 signal  800 μs  Max. negative test pulse on 1 signal  300 μs  Coil characteristics  24 V DC: 1.0 W  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Information on operating pressure	'
Switching time off 14 ms On switching time 6 ms Outy cycle 100% Max. positive test pulse with 0 signal 800 µs Max. negative test pulse on 1 signal 300 µs Coil characteristics 24 V DC: 1.0 W Permissible voltage fluctuations +/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot pressure MPa	0.28 MPa 0.8 MPa
On switching time  6 ms  Outy cycle  100%  Max. positive test pulse with 0 signal  Max. negative test pulse on 1 signal  300 μs  Coil characteristics  24 V DC: 1.0 W  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot pressure	2.8 bar 8 bar
Duty cycle 100%  Max. positive test pulse with 0 signal 800 µs  Max. negative test pulse on 1 signal 300 µs  Coil characteristics 24 V DC: 1.0 W  Permissible voltage fluctuations +/- 10 %  Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	14 ms
Max. positive test pulse with 0 signal  Max. negative test pulse on 1 signal  Coil characteristics  24 V DC: 1.0 W  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	6 ms
Max. negative test pulse on 1 signal  Coil characteristics  24 V DC: 1.0 W  Permissible voltage fluctuations  +/- 10 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Duty cycle	100%
Coil characteristics 24 V DC: 1.0 W  Permissible voltage fluctuations +/- 10 %  Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. positive test pulse with 0 signal	800 µs
Permissible voltage fluctuations +/- 10 %  Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. negative test pulse on 1 signal	300 μs
Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Coil characteristics	24 V DC: 1.0 W
	Permissible voltage fluctuations	+/- 10 %
	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
nformation on operating and pilot media Operation with oil lubrication possible (required for further use)	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
/ibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6	Vibration resistance	
Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27

Feature	Value
Corrosion resistance class (CRC)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 ℃ 60 ℃
Noise level	85 dB(A)
Ambient temperature	-5 ℃ 60 ℃
Product weight	27.8 g
Electrical connection	Via sub-base
Type of mounting	On sub-base
Auxiliary pilot air port 14	Sub-base
Pneumatic connection 1	Sub-base
Pneumatic connection 3	Sub-base
Pneumatic connection 5	Sub-base
Note on materials	RoHS-compliant
Seals material	NBR TPE-U(PU)
Housing material	PA-reinforced
Piston slide material	Wrought aluminum alloy