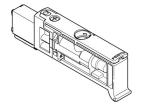
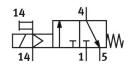
Air solenoid valve VUVB-ST12-M32C-MZD-QX-D-1T1

FESTO

Part number: 576002





General operating condition

Data sheet

Actuation type Electrical Valve size 12 mm Standard nominal flow rate Pneumatic working port Q5-6 Operating pressure 0.2 MPa 0.8 MPa Operating pressure 2 bar 8 bar Structural design Poppet valve with return spring Degree of protection Nominal width 4 mm Eschaust air function Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Non-detenting Non-detenting Non-reversible Symbol Information on operating pressure 2 bar 8 bar Switching time off 1 4 ms On switching time off On switching time Max. positive test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse with 0 signal Max. negative test pulse with 0 signal Max. poperating resistance Premissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with oil ubrication possible (required for further use) Shock resistance Shock resistance	Feature	Value
Valve size Standard nominal flow rate 240 I/min 400 I/min Pneumatic working port QS-6 Operating pressure 0.2 MPa 0.8 MPa Operating pressure 2 bar 8 bar Structural design Poppet valve with return spring Degree of protection IP65 Nominal width 4 mm Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot controlled Pilot controlled Pilot controlled Pilot air supply port External Flow direction Non-reversible Symbol Information on operating pressure 0 -0.8 bar with external pilot air 0.8 MPa Pilot pressure MPa Pilot pressure MPa 0.2 MPa 0.8 MPa Pilot pressure MPa On switching time off 1 4 ms On switching time 6 ms Switching time off On switching time Max. positive test pulse with 0 signal 800 µs Max. negative test pulse with 0 signal Max. negative test pulse on 1 signal Coli characteristics 2 A V DC: 1.0 W Permissible voltage fluctuations Operating medium Compressed air as per ISO 8573-1:2010 [7:4-4] Information on operating and pilot media Operation medium less with severity level 1 as per FN 942017-5 and EN 60068-2-27 Shock resistance Shock resistance Shock resistance	Valve function	3/2, closed, monostable
Standard nominal flow rate Pneumatic working port QS-4 QS-6 Operating pressure Q2-2 MFa 0.8 MFa Operating pressure Q2-2 bar 8 bar Structural design Poppet valve with return spring Degree of protection Nominal width Amm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot air supply port External Flow direction Non-reversible Symbol Operating pressure Q-8. Bar with external pilot air Q-9. Bar with e	Actuation type	Electrical
Preumatic working port QS-4 QS-6 Operating pressure Q2 MPa 0.8 MPa Operating pressure 2 bar 8 bar Structural design Poppet valve with return spring Degree of protection Pressure Pressure Sort Pressure Sort Pressure P	Valve size	12 mm
Operating pressure Operating pressure 2 bar8 bar Structural design Peoper dave with return spring Degree of protection IP65 Nominal width 4 mm Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot-controlled External Flow direction Non-reversible Symbol Information on operating pressure 0 - 0.8 bar with external pilot air 0 - 8 witching time off On switching time off On switching time O	Standard nominal flow rate	240 l/min 400 l/min
Operating pressure 2 bar 8 bar Structural design Poppet valve with return spring Degree of protection IP65 Nominal width 4 mm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot air supply port External Flow direction Non-reversible Symbol 00992123 Information on operating pressure 0 - 0.8 bar with external pilot air O - 8 bar with exter	Pneumatic working port	· ·
Structural design Poppet valve with return spring Degree of protection IP65 Nominal width 4 mm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol 0992123 Information on operating pressure 0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot air 9 - 8 bar with external pilot air 9 - 8 bar with external pilot air 0 - 8 bar with external pilot air	Operating pressure	0.2 MPa 0.8 MPa
Degree of protection IP65 Nominal width 4 mm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot air supply port External Flow direction Non-reversible Symbol 00992123 Information on operating pressure 0-0.8 bar with external pilot air 0-8 bar with external pilot air Pilot pressure MPa 0.2 MPa 0.8 MPa Pilot pressure 2 bar 8 bar Switching time off 0 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 4-/- 10 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Operation with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Operating pressure	2 bar 8 bar
Nominal width 4 mm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol 00992123 Information on operating pressure 0 - 0.8 bar with external pilot air 0 - 8	Structural design	Poppet valve with return spring
Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot-controlled Pilot controlled Pilot air supply port External Flow direction Non-reversible Symbol 100992123 Information on operating pressure 0 - 0.8 bar with external pilot air 0 - 8 bar	Degree of protection	IP65
Sealing principle Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled External Flow direction Non-reversible Symbol 10992123 Information on operating pressure 0 - 0.8 bar with external pilot air 0 - 8 bar Switching time off 14 ms 0 ns witching time off 5 ms 0 ns witching time 6 ms 0 us witching time off 0 operating time with 0 signal 0 us witching time off 0 operating medium 0 operating medium 0 operating medium 0 operation with oil lubrication possible (required for further use) 0 operation resistance 0 Shock test with severity level 1 as per FN 942017-4 and EN 60068-2-27	Nominal width	4 mm
Mounting position Manual override Detenting Non-detenting Pilot-controlled Pilot-controlled Pilot is supply port External Flow direction Non-reversible Symbol Information on operating pressure O - 0.8 bar with external pilot air O - 8	Exhaust air function	Without flow control option
Manual override Detenting Non-detenting Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol 00992123 Information on operating pressure 0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 0.8 bar with external pilot	Sealing principle	Soft
Non-detenting Type of control Pilot air supply port External Flow direction Non-reversible Symbol O0992123 Information on operating pressure O - 0.8 bar with external pilot air O - 8 bar with external pilot air	Mounting position	Any
Pilot air supply port External Flow direction Non-reversible Symbol 00992123 Information on operating pressure 0 – 0.8 bar with external pilot air Pilot pressure MPa 0.2 MPa 0.8 MPa Pilot pressure 2 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 % 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 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Manual override	
Flow direction Non-reversible Symbol 10992123 Information on operating pressure 0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 8 bar with external pilot air 0.2 MPa 0.8 MPa Pilot pressure 2 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 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Vibration resistance Transport application 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	Type of control	Pilot-controlled
Symbol Information on operating pressure O - 0.8 bar with external pilot air O - 8 bar with external pilot air O - 9 bar with external pilot air O - 9 bar with external pilot air O - 9 bar with external pilo	Pilot air supply port	External
Information on operating pressure 0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot air 0.2 MPa 0.8 MPa 2 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 4/- 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 1 as per FN 942017-5 and EN 60068-2-27	Flow direction	Non-reversible
0 - 8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 8 MPa 0 - 8 MPa 2 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 4/- 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 1 as per FN 942017-5 and EN 60068-2-27	Symbol	00992123
Pilot pressure 2 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 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Vibration resistance Transport application 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	Information on operating pressure	
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 % 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 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Pilot pressure MPa	0.2 MPa 0.8 MPa
On switching time Duty 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] Information on operating and pilot media Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Pilot pressure	2 bar 8 bar
Duty cycle100%Max. 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]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	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] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	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] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	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] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	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] Information on operating and pilot media Operation with oil lubrication possible (required for further use) Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Max. negative test pulse on 1 signal	300 μs
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 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Coil characteristics	24 V DC: 1.0 W
Information on operating and pilot media Operation with oil lubrication possible (required for further use) Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Permissible voltage fluctuations	+/- 10 %
Vibration resistance Transport application test with severity level 1 as per FN 942017-4 and EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
EN 60068-2-6 Shock resistance Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
	Vibration resistance	
Corrosion resistance class (CRC) 0 - No corrosion stress	Shock resistance	Shock test with severity level 1 as per FN 942017-5 and EN 60068-2-27
	Corrosion resistance class (CRC)	0 - No corrosion stress

Feature	Value
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C 60 °C
Noise level	85 dB(A)
Ambient temperature	-5 °C 60 °C
Product weight	26.3 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