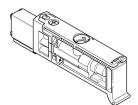
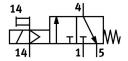
Air solenoid valve VUVB-ST12-M32C-MZH-QX-1T1

Part number: 575997





General operating condition

Data sheet

FeatureValueValve function3/2, closed, monostableActuation typeElectricalValve size12 mmStandard nominal flow rate204 //min 400 //minPneumatic working portQ5-4Q5-6Qperating pressureOperating pressure2 bar 8 BarStructural designPopper4 weich treturn springDegree of protectionPopper4 weich treturn springDegree of protectionWithout flow control optionStadiard nouning positionArivMounting positionNon detertingMounting positionNon detertingProper valueNonetertingPioper valueNonetertingPioper valueSoftMounting positionNon-reversiblePioper ontrolOperating pressurePiot aris upply portExternalFlow directionNon-reversiblePiot pressure2 bar & BarPiot pressure0.2 bar & BarDistripting time off14 msOn switching time off14 msOn switching time off0.3 picDistripting time off0.3 picOn switching time off on 1 signal30 picOut pressure0.4 picOrder stripting medium0.4 pic		
Actuation type Exctrical Valve size 12 mm Standard nominal flow rate 240 l/min 400 l/min 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 IP65 Nominal width 4 mm Stalang rinciple Soft Mounting position Ary Manual override Non-detenting Piot control Piot-controled Plot ari supply port External Flow direction 0.992123 Information on operating pressure 0 - 0.8 bar with external pilot air Or subtributing time 6 ms Duity cycle 100% Max, positive test pulse with 0 signal 800 µs Max, negative test pulse with 0 signal 800 µs Max, negative test pulse with 0 signal 300 µs Max, negative test pulse with 0 signal 300 µs Max, negative test pulse with 0 signal 00 peresta air as per 150 8573-1:2010 [7:4:4] <th>Feature</th> <th>Value</th>	Feature	Value
Valve size 12 mm Standard nominal flow rate 240 l/min 400 l/min Preumatic 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 IP65 Nominal width 4 mm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Pilot-controlled Pilot aris upply port External Flow direction Non-reversible Symbol 00992123 Information on operating pressure 0 - 0.8 bar with external pilot air Or subtring time 6 ms Duty cycle 100% Max, negative test pulse with 0 signal 800 µs Max, negative test pulse on 1 signal 200 µS Coil characteristics 24 V DC: 1.0 W Permissible voltage fluctuations 4-10% Operating endum Compressed air as per 150 8573-1:2010[7:4:4] Inform	Valve function	3/2, closed, monostable
Standard nominal flow rate 240 l/min 400 l/min Pneumatic working port QS-4 Qperating 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 Exhast air function Without flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Pilot ar supply port External Flow direction 09292123 Information on operating pressure 0 - 0.8 bar with external pilot air Pilot pressure MPa 0.2 MPa 0.8 MPa Duty cycle 10% Max. positive test pulse with 0 signal 800 µs Switching time off 6 ms Duty cycle 100% Max. positive test pulse on 1 signal 300 µs Coil characteristics 2/ VD C: 1.0 W Permissible voltage fluctuations +/-13% Operating medium Compressed air as per ISO 8573-1:2010[7:4:4] Direstest pulse with 0 signal 300 µs	Actuation type	Electrical
Pneumatic working port QS-4 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 1P65 Nominal width 4 mm Exhaust air function Without flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Pilot-controlled Plot air supply port External Flow direction Non-reversible Symbol 00992123 Information on operating pressure 0 - 0.8 bar with external pilot air Pilot pressure 2 bar 8 bar Switching time off 14 ms On switching time off 6 ms Duty cycle 100% Max, pasitive test pulse with 0 signal 800 µs Max, pasitive test pulse on 1 signal 300 µs Coil characteristics 24 V DC: 1.0 W Permissible voltage fluctuations +/-10% Operating medium	Valve size	12 mm
QS-6Operating pressure0.2 MPa 0.8 MPaOperating pressure2 bar 8 barStructural designPoppet valve with return springDegree of protectionIP65Nominal width4 mmExhaust air functionWithout flow control optionSealing principleSoftMounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow direction00992123Information on operating pressure0-0.8 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 	Standard nominal flow rate	240 l/min 400 l/min
Derived Depressure2 bar 8 barStructural designPoppet valve with return springDegree of protectionIP65Nomial width4 mmExhaust air functionWithout flow control optionSealing principleSoftMounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow direction00992123Information on operating pressure0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot air <br< td=""><td>Pneumatic working port</td><td></td></br<>	Pneumatic working port	
Structural designPoppet valve with return springDegree of protectionIP65Nominal width4 mmExhaust air functionWithout flow control optionSealing principleSoftMounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol0992123Information on operating pressure0 - 0.8 bar with external pilot airPilot pressure2 bar 0.8 MPaPilot pressure2 bar 0.8 MPaSwitching time off14 msOn suitching time off14 msDuty cycle100%Max. negative test pulse on 1 signal300 µsCoil characteristics24 V DC: 1.0 WPermissible voltage fluctuations+/-10 %Operating mediumOppression air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOppression air as per ISO 8573-1:2010[7:4:4]Solic kresistanceShock test with severity level 1 as per FN 942017-6 and EN 60068-2-6	Operating pressure	0.2 MPa 0.8 MPa
Degree of protectionIP65Nominal width4 mmExhaust air functionWithout flow control optionSealing principleSoftMounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol0992123Information on operating pressure0 - 0.8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn suitching time6 msDuty cycle100%Max. 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 methic 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	Operating pressure	2 bar 8 bar
Nominal width4 mmExhaust air functionWithout flow control optionSealing principleSoftMounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-eversibleSymbol00992123Information on operating pressure0 - 0.8 bar with external pilot air 0 - 8 barPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure flow14 ms 0 00 witching time offOn switching time6 msDuty cycle100%Max. negative test pulse with 0 signal800 µsMax. negative test pulse on 1 signal300 µsCoil characteristics24 V DC: 1.0 WPermissible voltage fluctuations4/-10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information no operating and pilot mediaOperation with oil lubrication possible (required for further use) Vibration resistanceShock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Structural design	Poppet valve with return spring
Exhaust air functionWithout flow control optionSealing principleSoftMounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol0992123Information on operating pressure0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure MPa0.2 MPa 0.8 MPaDuty cycle100%Max. negative test pulse with 0 signal800 µsMax. negative test pulse on 1 signal300 µsCoil characteristics24 V DC: 1.0 WPermissible voltage fluctuations+/ 10 %Operating mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Degree of protection	IP65
Sealing principleSoftMounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol00992123Information on operating pressure0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure MPa2 bar 8 barSwitching time off14 msOn switching time6 msDuty cycle100%Max. negative test pulse with 0 signal300 µsCoil characteristics24 V DC: 1.0 WPermissible voltage fluctuations4/-10 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information no 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 60068-2-6	Nominal width	4 mm
Mounting positionAnyManual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol00992123Information on operating pressure0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty cycle100%Max. negative test pulse with 0 signal300 μsMax. negative test pulse on 1 signal300 μsCoil characteristics24 V DC: 1.0 WPermissible voltage fluctuations4/- 10 %Operating mediumOperation with oil lubrication possible (required for further use)Vibration resistanceShock 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	Exhaust air function	Without flow control option
Manual overrideNon-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol00992123Information on operating pressure0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure ff14 msOn switching time off14 msOn switching time6 msDuty cycle100%Max. negative 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 942017-6 and EN 60068-2-6	Sealing principle	Soft
Type of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol00992123Information on operating pressure0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty cycle100%Max. 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 942017-5 and EN 60068-2-27	Mounting position	Any
InitialExternalFlow directionNon-reversibleSymbol00992123Information on operating pressure0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty cycle100%Max. negative 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 resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Manual override	Non-detenting
Flow directionNon-reversibleSymbol00992123Information on operating pressure0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty 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	Type of control	Pilot-controlled
Symbol00992123Information on operating pressure0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty 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 942017-5 and EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-7	Pilot air supply port	External
Information on operating pressure0 - 0.8 bar with external pilot air 0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty cycle100%Max. negative 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	Flow direction	Non-reversible
Number0 - 8 bar with external pilot airPilot pressure MPa0.2 MPa 0.8 MPaPilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty 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 mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 1 as per FN 942017-5 and EN 60068-2-27	Symbol	00992123
Pilot pressure2 bar 8 barSwitching time off14 msOn switching time6 msDuty 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 942017-5 and EN 60068-2-27	Information on operating pressure	
Switching time off14 msOn switching time6 msDuty 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 942017-5 and EN 60068-2-6Shock resistanceShock test with severity level 1 as per FN 942017-5 and EN 60068-2-75	Pilot pressure MPa	0.2 MPa 0.8 MPa
On switching time6 msDuty 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	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 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	On switching time	6 ms
Max. 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	Duty cycle	100%
Coil 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	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 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	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

FESTO

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