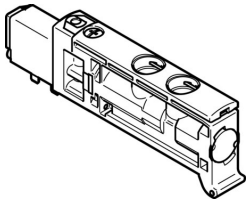
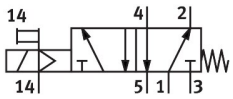
Air solenoid valve
VUVB-ST12-M52-MZD-QX-D-1T1

Part number: 570909





Data sheet

Feature	Value
Valve function	5/2-way, monostable
Actuation type	Electrical
Valve size	12 mm
Normal nominal flow rate (normalized to DIN 1343)	240 l/min...400 l/min
Pneumatic working port	QS-4 QS-6
Operating pressure	0.28 MPa...0.8 MPa 2.8 bar...8 bar
Structural design	Poppet valve with spring return
Reset method	Mechanical spring
Degree of protection	IP65
Nominal width	4 mm
Exhaust air function	Cannot be throttled
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of control	Piloted
Pilot air supply port	External
Flow direction	Non-reversible
Information on operating pressure	0 – 0.8 bar with external pilot air 0 - 8 bar with external pilot air
Pilot pressure MPa	0.28 MPa...0.8 MPa
Pilot pressure	2.8 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]

Feature	Value
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
Corrosion resistance class (CRC)	0 - No corrosion stress
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	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