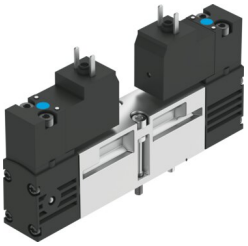
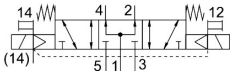
Air solenoid valve
VSVA-B-P53U-ZH-A2-5C1

Part number: 547163





Data sheet

Feature	Value
Valve function	5/3-way, pressurized
Actuation type	Electrical
Valve size	18 mm
Normal nominal flow rate (normalized to DIN 1343)	450 l/min
Pneumatic working port	Sub-base, size 18 mm as per ISO 15407-1 Connecting plate size 02 according to VDMA 24563 G1/8
Operating voltage	12V DC
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Degree of protection	IP65 NEMA 4
Nominal width	5 mm
Exhaust air function	Adjustable
Sealing principle	Soft
Mounting position	Any
Conforms to standard	ISO 15407-1 VDMA 24563
Manual override	Non-detenting
Type of control	Piloted
Pilot air supply port	External
Flow direction	Reversible
Lap	Positive overlap
Signal status display	LED
Pilot pressure MPa	0.3 MPa...1 MPa
Pilot pressure	3 bar...10 bar
Flow rate of pneumatic valve	650 l/min
Flow rate of pneumatic valve on individual sub-base	500 l/min
Optimized flow rate of pneumatic valve pneumatically concatenated flow	450 l/min
Switching time off	30 ms
On switching time	18 ms

Feature	Value
Changeover time	20 ms
Duty cycle	100%
Coil characteristics	12 V DC: 1.8 W
Permissible voltage fluctuations	-15% / +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
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C...50 °C
Relative air humidity	0 - 90%
Noise level	85 dB(A)
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C...50 °C
Max. tightening torque for valve mounting	1 Nm
Product weight	174 g
Electrical connection	Type C As per DIN EN 175301-803 Without PE conductor
Type of mounting	On sub-base
Auxiliary pilot air port 12	Sub-base, size 18 mm as per ISO 15407-1
Auxiliary pilot air port 14	Sub-base, size 18 mm as per ISO 15407-1
Pilot exhaust air port 82/84	Ducted Not ducted as per standard
Pneumatic connection 1	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 2	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 3	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 4	Sub-base, size 18 mm as per ISO 15407-1
Pneumatic connection 5	Sub-base, size 18 mm as per ISO 15407-1
Pilot interface	As per ISO 15218
Note on materials	RoHS compliant
Seals material	HNBR NBR
Housing material	Die-cast aluminum
Material of screws	Steel Galvanized