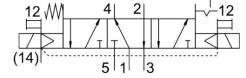


Air solenoid valve VSVA-B-P53BD-ZD-A2-1T1L

FESTO

Part number: 8031817



[PDF](#) [General operating condition](#)

Data sheet

Feature	Value
Valve function	5/3, connection 4 pressurized, 2 exhausted
Actuation type	Electrical
Width	18 mm
Normal nominal flow rate (normalized to DIN 1343)	370 l/min
Pneumatic working port	Sub-base, size 18 mm according to ISO 15407-2 G1/8
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring Electrical actuation
Certification	c UL us - Recognized (OL)
Certificate issuing authority	UL MH19482
Degree of protection	IP65 NEMA 4
Nominal width	5 mm
Exhaust air function	With flow control option Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting Covered
Type of control	Pilot-controlled
Pilot air supply port	External Internal
Flow direction	Non-reversible
Symbol	00992924
Lap	Underlap
Signal status display	LED
Pilot pressure MPa	0.3 MPa ... 1 MPa
Pilot pressure	3 bar ... 10 bar
Flow rate of pneumatic valve on individual sub-base	400 l/min
Optimized flow rate of pneumatic valve, pneumatically concatenated flow	430 l/min
Optimized flow rate of pneumatic valve pneumatically concatenated flow	370 l/min

Feature	Value
Asymmetrical switching time off	28 ms for control side 12
Asymmetrical switching time on	12 ms for control side 12 9 ms for control side 14
Duty cycle	100%
Max. positive test pulse with 0 signal	1500 µs
Max. negative test pulse on 1 signal	800 µs
Nominal operating voltage DC	24 V
Coil characteristics	24 V DC: 1.6 W
Surge resistance	2.5 kV
Contamination level	3
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 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)
Ambient temperature	-5 °C ... 50 °C
Max. tightening torque for valve mounting	0.8 Nm ... 1.2 Nm
Product weight	172 g
Electrical connection	4-pin Plug as per ISO 15407-2
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base, size 18 mm as per ISO 15407-2
Pilot exhaust air port 82/84	Ducted Not ducted Optionally:
Pneumatic connection 1	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 2	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 3	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 4	Sub-base, size 18 mm as per ISO 15407-2
Pneumatic connection 5	Sub-base, size 18 mm as per ISO 15407-2
Note on materials	RoHS-compliant
Seals material	FPM NBR
Housing material	Die-cast aluminum PA
Material of screws	Steel, galvanized