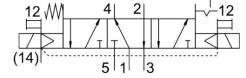


Solenoid valve VSVA-B-P53BD-ZD-A1-1T1L

FESTO

Part number: 8031816



[General operating condition](#)

Data sheet

Feature	Value
Valve function	5/3-way, port 4 pressurised, 2 exhausted
Type of actuation	Electrical
Construction width	26 mm
Standard nominal flow rate (standardised to DIN 1343)	850 l/min
pneumatic working port	Sub-base size 26 mm to ISO 15407-1 G1/4
Operating voltage	24 V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Design	Piston gate valve
Type of reset	Mechanical spring Electrical control
Approval	CSA (OL) c UL us - Recognised (Oil)
Degree of protection	IP65 NEMA 4
Nominal size	9 mm
Exhaust-air function	Can be throttled Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of piloting	Piloted
Pilot air supply	External
Flow direction	Non-reversible
Symbol	00992924
lap	Underlap
Signal status display	LED
Pilot pressure	0.3 MPa ... 1 MPa
Pilot pressure	3 bar ... 10 bar
Flow rate of valve on individual sub-base	900 l/min
Valve flow rate, pneumatically linked, flow optimized	950 l/min
Flow rate of pneumatically interlinked valve	850 l/min
Non symmetrical switching time off	26 ms for control side 12 36 ms for control side 14

Feature	Value
Non symmetrical switching time on	16 ms for control side 12 9 ms for control side 14
Duty cycle	100%
Max. positive test pulse with 0 signal	1200 µs
Max. negative test pulse with 1 signal	1100 µs
Nominal operating voltage DC	24 V
Characteristic coil data	24 V DC: 1.6 W
Immunity to surge	2.5 kV
Pollution degree	3
Permissible voltage fluctuations	+/-10%
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Corrosion resistance class CRC	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-5 °C ... 50 °C
Relative air humidity	0 - 90%
Sound pressure level	85 dB(A)
Ambient temperature	-5 °C ... 50 °C
Max. tightening torque for valve mounting	1.8 Nm ... 2.2 Nm
Product weight	301 g
Electrical connection	4-pin Plug To ISO 15407-2
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base size 26 mm to ISO 15407-1
Pilot exhaust port 82/84	Ducted Not ducted Either:
Pneumatic connection, port 1	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 2	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 3	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 4	Sub-base size 26 mm to ISO 15407-2
Pneumatic connection, port 5	Sub-base size 26 mm to ISO 15407-2
Note on materials	RoHS compliant
Material seals	Fluoro rubber NBR
Material housing	Die-cast aluminium Process automation
Material screws	Galvanised steel