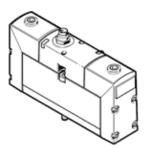
## solenoid valve **VSVA-B-P53C-ZH-A1-1R5L**Part number: 534549

**FESTO** 

with central plug, round design M12x1.



## **Data sheet**

Feature	Value
Valve function	5/3 closed
Type of actuation	electrical
Width	26 mm
Standard nominal flow rate	1,000 l/min
Operating pressure MPa	-0.09 1.6 MPa
Operating pressure	-0.9 16 bar
Design structure	Piston slide
Type of reset	mechanical spring
Authorisation	RCM Mark
	c UL us - Recognized (OL)
CE mark (see declaration of conformity)	to EU directive for EMC
UKCA marking (see declaration of conformity)	To UK instructions for EMC
	To UK RoHS instructions
Protection class	IP65
	NEMA 4
Nominal size	9 mm
Grid dimension	27 mm
Exhaust-air function	throttleable
	Via throttle plate
	Via individual sub-base
Sealing principle	soft
Assembly position	Any
Conforms to standard	ISO 15407-1
Manual override	Pushing
Type of piloting	Piloted
Pilot air supply	external
Flow direction	Any
Overlap	Positive overlap
Polarity protected	for all electrical connections
Additional functions	Reduction of holding current
	Safety shut-off
Signal status display	LED
Pilot pressure MPa	0.3 0.8 MPa
Pilot pressure	3 8 bar
b value	0.24
C value	4.35 l/sbar
Flow rate of valve	1,400 l/min
Flow rate of valve on individual sub-base	1,100 l/min
Flow rate of pneumatically linked valve	1,000 l/min
Switching time off	52 ms
Switching time on	20 ms
Duty cycle	100 %
Max. positive test pulse with logic 0	400 μs
Max. negative test pulse with logic 1	100 μs



Feature	Value
Nominal breakaway current per solenoid coil	110 mA up to 20 ms
Nominal current with current reduction	30 mA after 20 ms
Characteristic coil data	24 V DC: low-current phase 1 W, high-current phase 2.4 W
Permissible voltage fluctuation	+/- 10 %
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC	2 - Moderate corrosion stress
PWIS conformity	VDMA24364-B1/B2-L
Medium temperature	-5 50 °C
Relative air humidity	0 - 90 %
Protection against direct and indirect contact	Protective extra-low voltage with safe disconnection (PELV)
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Ambient temperature	-5 50 °C
Max. tightening torque, valve mounting	1.8 2.2 Nm
Product weight	270 g
Electrical connection	3-pin
	M12x1
	Central plug
	Round design
Mounting type	On sub-base
	With through-hole and screw
Auxiliary pilot air port 12/14	Connection plate size 26 mm, according to ISO 15407-1
Pilot exhaust port 82/84	Optional
	Not ducted as per standard
	Ducted
Materials note	Conforms to RoHS
Material seals	FPM
	HNBR
	NBR
Material housing	Aluminium die cast