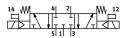
Air solenoid valve VSVA-B-P53C-H-A1-1R5L

FESTO

Part number: 534559





General operating condition

Data sheet

Actuation type Electrical Width 26 mm Standard nominal flow rate 1000 l/min Pheumatic working port Operating yoltage 24V DC Operating pressure 0,3 MPa 0,8 MPa Operating pressure 3 bar 8 bar Structural design Reset method Mechanical spring Certification RCM compliance mark clu U.s. Recognized (01) CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK RoHS instructions Degree of protection Pf65 Nominal width 9 mm Width dimension Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Mounting position Any Conforms to standard Mondard Width Non-detenting Flot control Plot air supply port Internal Flow direction Additional functions Signal status display LED b-value D-value D-val	Feature	Value
Width 26 mm Standard nominal flow rate 1000 l/min Pneumatic working port 5ub-base, size 26 mm according to ISO 15407-1 Operating yottage 24V DC Operating pressure 0.3 MPa 0.8 MPa Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method Mechanical spring Certification RCM compliance mark cull us - Recognized (OL) CE marking (see declaration of conformity) As per EUR directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection IP65 NEMA 4 Nominal width 9 mm Width dimension 2 mm Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-reversible Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991080 Lap Reverse polarity protection for all electrical connections Additional functions Signal status display LED D-value	Valve function	5/3, closed
Standard nominal flow rate 1000 l/min Sub-base, size 26 mm according to ISO 15407-1 Operating yoltage 24V DC 0, and may according to ISO 15407-1 0, and may according yoltage 0.3 MPa 0.8 MPa 0.5 MPa	Actuation type	Electrical
Preumatic working port Operating voltage 24V DC Operating pressure 0.3 MPa 0.8 MPa Operating pressure 9 biston gate valve Reset method Reset meth	Width	26 mm
Operating voltage 24V DC Operating pressure 0.3 MPa 0.8 MPa Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method Mechanical spring Certification RCM compliance mark cUL us - Recognized (OU) CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC TO UK RoHS instructions Degree of protection IP65 NEMA 4 Nominal width 9 mm Width dimension 27 mm Exhaust air function With flow control option Visa throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991080 Lap Overlap Reverse polarity protection for all electrical connections Additional functions Holding current reduction Signal status display LED b-value 0.24	Standard nominal flow rate	1000 l/min
Operating pressure Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method Mechanical spring Certification Reflection Reflectio	Pneumatic working port	Sub-base, size 26 mm according to ISO 15407-1
Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method Mechanical spring Certification RCM compliance mark c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ONB instructions Degree of protection P65 NEMA 4 Nominal width 9 mm Width dimension 27 mm Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard Any Conforms to standard Manual override Non-detenting Tiple of control Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991080 Lap Reverse polarity protection Additional functions Signal status display LED Evalue Signal status display LED Evalue Sealing point LED Lace Mechanical spring Mechanical spring Mechanical spring Reverse polarity protection Mechanical spring Mechanical spring Piston gate valve Mechanical spring Piston gate valve Culture - RAM Mechanical spring Reverse polarity protection Any Conforms to standard Mon-reversible Oo24	Operating voltage	24V DC
Structural design Piston gate valve Reset method Mechanical spring Certification RCM compliance mark c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection Pie65 NEMA 4 Nominal width 9 mm Width dimension 27 mm Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991080 Lap 0091080 Additional functions Holding current reduction Safety shut-down Signal status display LED Evalue 1024	Operating pressure	0.3 MPa 0.8 MPa
Reset method Certification RCM compliance mark c U us - Recognized (OL) CE marking (see declaration of conformity) DEGE marking (see declaration of conformity) UKCA marking (see declaration of conformity) DEGE marking (see declaration of EMC TO UK ROHS instructions PEMS WERNA 4 NOMINEM 4 NOMINEM 644	Operating pressure	3 bar 8 bar
Certification RCM compliance mark c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC TO UK ROHS instructions Degree of protection IP65 NEMA 4 Nominal width 9 mm Width dimension 27 mm Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991080 Lap Overlap Reverse polarity protection For all electrical connections Additional functions Signal status display LED D-value	Structural design	Piston gate valve
c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection Ple65 NEMA 4 Nominal width 9 mm With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Conforms to standard Any Conforms to standard Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Overlap Reverse polarity protection Additional functions Signal status display LED D-value O.24	Reset method	Mechanical spring
UKCA marking (see declaration of conformity) To UK instructions Degree of protection IP65 NEMA 4 Nominal width 9 mm Width dimension Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Reverse polarity protection Additional functions Signal status display b-value O 0,24	Certification	
To UK RoHS instructions Degree of protection IP65 NEMA 4 Nominal width 9 mm Width dimension Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Reverse polarity protection Additional functions Signal status display LED b-value O Quella	CE marking (see declaration of conformity)	As per EU EMC directive
Nema 4 Nominal width 9 mm Width dimension 27 mm Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol O0991080 Lap Overlap Reverse polarity protection for all electrical connections Additional functions Holding current reduction Safety shut-down Signal status display b-value 0.24	UKCA marking (see declaration of conformity)	
Width dimension Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991080 Lap Overlap Reverse polarity protection Additional functions Holding current reduction Safety shut-down Signal status display LED b-value O.24	Degree of protection	
Exhaust air function With flow control option Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991080 Lap Overlap Reverse polarity protection Additional functions Holding current reduction Safety shut-down Signal status display LED b-value Ootel With flow control option Via throttle plate Via individual sub-base Soft Via throttle plate Via individual sub-base Soft Via throttle plate Via individual sub-base Soft Any Soft Non-detenting Non-detenting Non-detenting Overlap Reverse polarity protection Holding current reduction Safety shut-down LED	Nominal width	9 mm
Via throttle plate Via individual sub-base Sealing principle Soft Mounting position Any Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991080 Lap Overlap Reverse polarity protection Additional functions Floding current reduction Signal status display LED b-value O 150 Soft Any Any ISO 15407-1 Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Pilot-controlled Non-reversible Oo991080 Lep Overlap Lep D-024	Width dimension	27 mm
Mounting position Conforms to standard ISO 15407-1 Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Overlap Reverse polarity protection Additional functions Signal status display b-value Any Any Any Any Any Any Any An	Exhaust air function	Via throttle plate
Conforms to standard Manual override Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Overlap Reverse polarity protection Additional functions Signal status display b-value ISO 15407-1 Non-detenting Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Pilot-controlled Polot-controlled Non-detenting Polot-controlled Polot-controlled Polot-controlled Non-detenting Polot-controlled P	Sealing principle	Soft
Manual override Type of control Pilot -controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Overlap Reverse polarity protection Additional functions Holding current reduction Signal status display LED b-value Non-detenting Non-detenting Pilot-controlled Internal Non-reversible Non-reversibl	Mounting position	Any
Type of control Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Overlap Reverse polarity protection Additional functions Holding current reduction Signal status display LED b-value Pilot-controlled Pilot	Conforms to standard	ISO 15407-1
Pilot air supply port Internal Flow direction Non-reversible Symbol 00991080 Lap Overlap Reverse polarity protection for all electrical connections Additional functions Holding current reduction Safety shut-down Signal status display LED b-value 0.24	Manual override	Non-detenting
Flow direction Non-reversible O0991080 Lap Overlap Reverse polarity protection Additional functions Holding current reduction Safety shut-down Signal status display b-value Non-reversible Non-reversible Overlap for all electrical connections Holding current reduction Safety shut-down LED 0.24	Type of control	Pilot-controlled
Symbol 00991080 Lap Overlap Reverse polarity protection for all electrical connections Additional functions Holding current reduction Safety shut-down Signal status display LED b-value 0.24	Pilot air supply port	Internal
Lap Overlap Reverse polarity protection for all electrical connections Additional functions Holding current reduction Safety shut-down Signal status display LED b-value 0.24	Flow direction	Non-reversible
Reverse polarity protection for all electrical connections Additional functions Holding current reduction Safety shut-down Signal status display LED 0.24	Symbol	00991080
Additional functions Holding current reduction Safety shut-down Signal status display LED b-value 0.24	Lap	Overlap
Safety shut-down Signal status display b-value Safety shut-down LED 0.24	Reverse polarity protection	for all electrical connections
b-value 0.24	Additional functions	
	Signal status display	LED
C value 4.35 l/sbar	b-value	0.24
	C value	4.35 l/sbar

Feature	Value
Flow rate of pneumatic valve	1400 l/min
Flow rate of pneumatic valve on individual sub-base	1100 l/min
Optimized flow rate of pneumatic valve pneumatically concatenated flow	1000 l/min
Switching time off	52 ms
On switching time	20 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	400 μs
Max. negative test pulse on 1 signal	100 μs
Nominal pick-up current per solenoid coil	110 mA to 20 ms
Nominal current with current reduction	30 mA after 20 ms
Coil characteristics	24 V DC: low-current phase 1.0 W, high-current phase 2.4 W
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)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C 50 °C
Relative air humidity	0 - 90 %
Protection against direct and indirect contact	PELV
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	1.8 Nm 2.2 Nm
Product weight	270 g
Electrical connection	3-pin M12x1 Central plug Round design
Type of mounting	On sub-base With through-hole and screw
Note on materials	RoHS-compliant
Seals material	FPM HNBR NBR
Housing material	Die-cast aluminum