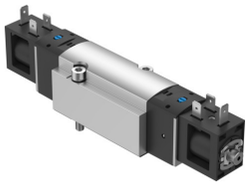
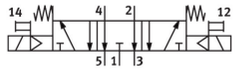
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Solenoid valve
VSVA-BK-P53E-D-D1-1B2

Part number: 8166595

FESTO





General operating condition

Data sheet

Feature	Value
Valve function	5/3 exhausted
Type of actuation	Electric
Construction width	38 mm
Valve size	42 mm
Standard nominal flow rate (standardised to DIN 1343)	1200 l/min
pneumatic working port	Sub-base size 1 to ISO 5599-1
Operating voltage	24V DC
Operating pressure	0.3 MPa ... 0.8 MPa
Operating pressure	3 bar ... 8 bar
Design	Piston slide with sealing ring
Type of reset	Mechanical spring
Degree of protection	IP65 With plug socket To IEC 60529
Nominal size	6.3 mm
Grid dimension	43 mm
Exhaust-air function	With flow control option
Sealing principle	Soft
Mounting position	optional
Conforms to standard	ISO 5599-1
Manual override	Detenting Non-detenting
ISO code	157
Type of piloting	Pilot actuated
Pilot air supply	Internal
Flow direction	Non-reversible
Symbol	00991082
lap	Underlap
Signal status display	With accessories
b value	0.26
C value	5.63 l/sbar
Flow rate of valve	1289 l/min
Flow rate of valve on individual sub-base	1289 l/min
Flow rate of pneumatically interlinked valve	1283 l/min
Switching time off	37.4 ms
Switching time on	12.4 ms

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Feature	Value
Switching time reversal	18.9 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	2500 µs
Max. negative test pulse with 1 signal	1100 µs
Nominal operating voltage DC	24 V
Characteristic coil data	24 V DC: 3.3 W
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	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Media temperature	-5 °C ... 50 °C
Pilot medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C ... 50 °C
Max. tightening torque for valve mounting	5 Nm
Product weight	402 g
Electrical connection	Type B To industry standard (11 mm)
Type of mounting	On sub-base
Breather connection	Not ducted
Pneumatic connection, port 1	Sub-base size 1 to ISO 5599-1
Pneumatic connection, port 2	Sub-base size 1 to ISO 5599-1
Pneumatic connection, port 3	Sub-base size 1 to ISO 5599-1
Pneumatic connection, port 4	Sub-base size 1 to ISO 5599-1
Pneumatic connection, port 5	Sub-base size 1 to ISO 5599-1
Note on materials	RoHS-compliant
Material seals	HNBR NBR
Material housing	Wrought aluminium alloy
Material piston slide	Wrought aluminium alloy
Material screws	Galvanised steel