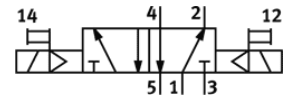
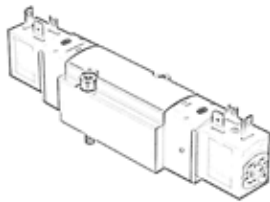


solenoid valve

VSVA-BK-B52-D-D1-1B2

Part number: 8166592

FESTO



Data sheet

Feature	Value
Valve function	5/2 bistable
Type of actuation	electrical
Width	38 mm
Valve size	42 mm
Standard nominal flow rate	1,200 l/min
Operating pressure MPa	0.3 ... 0.8 MPa
Operating pressure	3 ... 8 bar
Design structure	Piston slide with sealing ring
Protection class	IP65 with plug socket to IEC 60529
Nominal size	6.3 mm
Grid dimension	43 mm
Exhaust-air function	throttleable
Sealing principle	soft
Assembly position	Any
Conforms to standard	ISO 5599-1
Manual override	detenting Pushing
ISO code	155
Type of piloting	Piloted
Pilot air supply	Internal
Flow direction	non reversible
Overlap	Underlap
Signal status display	with accessories
b value	0.26
C value	5.91 l/sbar
Flow rate of valve	1,341 l/min
Flow rate of valve on individual sub-base	1,341 l/min
Flow rate of pneumatically linked valve	1,313 l/min
Switching time reversal	10.5 ms
Duty cycle	100 %
Max. positive test pulse with logic 0	2,500 µs
Max. negative test pulse with logic 1	1,100 µs
Nominal operating voltage DC	24 V
Characteristic coil data	24 V DC: 3.3 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	1 - Low corrosion stress
PWIS conformity	VDMA24364 zone III

Feature	Value
Medium temperature	-5 ... 50 °C
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Ambient temperature	-5 ... 50 °C
Max. tightening torque, valve mounting	5 Nm
Product weight	400 g
Electrical connection	Plug pattern type B to EN 175301-803 To industry standard (11 mm)
Mounting type	On sub-base
Scavenging orifice connection	Non-ducted
Pneumatic connection, port 1	Connection plate size 1 as per ISO 5599-1
Pneumatic connection, port 2	Connection plate size 1 as per ISO 5599-1
Pneumatic connection, port 3	Connection plate size 1 as per ISO 5599-1
Pneumatic connection, port 4	Connection plate size 1 as per ISO 5599-1
Pneumatic connection, port 5	Connection plate size 1 as per ISO 5599-1
Materials note	Conforms to RoHS
Material seals	HNBR NBR
Material housing	Wrought Aluminium alloy
Material Piston slide	Wrought Aluminium alloy
Material screws	Galvanised steel