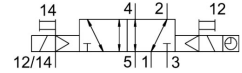


Solenoid valve

VSVA-B-TR1-B52-ZD-D1-1R5L

FESTO

Part number: 8037117



 [General operating condition](#)

Data sheet

Feature	Value
Valve function	5/2-way, bistable
Actuation type	Electrical
Width	42 mm
Normal nominal flow rate (normalized to DIN 1343)	1300 l/min
Pneumatic working port	Sub-base, size 1 according to ISO 5599-1 G1/4
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 1.6 MPa
Operating pressure	-0.9 bar ... 16 bar
Structural design	Piston gate valve
KC characters	KC-EMV
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Degree of protection	IP65 NEMA 4
Nominal width	11 mm
Width dimension	43 mm
Exhaust air function	Adjustable Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Conforms to standard	ISO 5599-1
Manual override	Detenting Non-detenting
Type of control	Piloted
Pilot air supply port	External
Flow direction	Any
Symbol	00995588
Lap	Positive overlap
Signal status display	LED
Pilot pressure MPa	0.3 MPa ... 1 MPa
Pilot pressure	3 bar ... 10 bar
Flow rate of pneumatic valve	2000 l/min
Flow rate of pneumatic valve on individual sub-base	1400 l/min
Optimized flow rate of pneumatic valve pneumatically concatenated flow	1300 l/min

Feature	Value
Changeover time	16 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	1400 µs
Max. negative test pulse on 1 signal	900 µs
Coil characteristics	24 V DC: 1.6 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)	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C ... 50 °C
Relative air humidity	0 - 90%
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-5 °C ... 50 °C
Product weight	460 g
Electrical connection	3-pin M12x1 Central plug Round design
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base, size 1 as per ISO 5599-1
Pilot exhaust air port 82/84	Ducted Not ducted as per standard Alternatively:
Pneumatic connection 1	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 2	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 3	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 4	Sub-base, size 1 as per ISO 5599-1
Pneumatic connection 5	Sub-base, size 1 as per ISO 5599-1
Note on materials	RoHS compliant
Seals material	FPM HNBR NBR
Housing material	Die-cast aluminum PA
Material of screws	Steel Galvanized