

# Solenoid valve

## VSVA-B-P53E-ZH-D2-F8-1B2

Part number: 8033820

**FESTO**



## Data sheet

Feature	Value
Valve function	5/3, exhausted
Actuation type	Electrical
Width	52 mm
Nominal flow rate standardized according to ISO 8778	3600 l/min
Pneumatic working port	Sub-base, size 2 according to ISO 5599-1
Operating voltage	24V DC
Operating pressure	-0.09 MPa...1.6 MPa -0.9 bar...16 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Degree of protection	IP65 NEMA 4
Nominal width	11.5 mm
Width dimension	53 mm
Exhaust air function	Via individual sub-base
Sealing principle	Soft
Mounting position	Any
Conforms to standard	ISO 5599-1
Manual override	Non-detenting
Type of control	Pilot-controlled
Pilot air supply port	External
Flow direction	Reversible
Lap	Overlap
Pilot pressure MPa	0.3 MPa...1 MPa
Pilot pressure	3 bar...10 bar
Suitability for vacuum	yes
b-value	0.23
C value	7.667 l/sbar
Flow rate of pneumatic valve	3400 l/min
Flow rate of pneumatic valve on individual sub-base	2700 l/min
Optimized flow rate of pneumatic valve pneumatically concatenated flow	1300 l/min
Max. switching frequency	5 Hz

Feature	Value
Switching time off	82 ms
On switching time	26 ms
Changeover time	40 ms
Duty cycle	100%
Coil characteristics	24 V DC: 3.3 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)
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-10 °C...50 °C
Relative air humidity	0 - 90 %
Noise level	85 dB(A)
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-10 °C...50 °C
Max. tightening torque for valve mounting	2 Nm
Product weight	777 g
Electrical connection	Form B
Type of mounting	On sub-base
Pilot air port 12	Sub-base, size 2 as per ISO 5599-1
Pilot air port 14	Sub-base, size 2 as per ISO 5599-1
Pneumatic connection 1	Sub-base, size 2 as per ISO 5599-1
Pneumatic connection 2	Sub-base, size 2 as per ISO 5599-1
Pneumatic connection 3	Sub-base, size 2 as per ISO 5599-1
Pneumatic connection 4	Sub-base, size 2 as per ISO 5599-1
Pneumatic connection 5	Sub-base, size 2 as per ISO 5599-1
Pilot interface	as per ISO 15218
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum
Material of screws	Steel