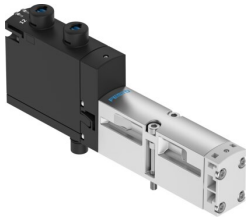
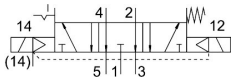
Solenoid valve
VSVA-B-P53EP-Z-A2-1T1L

Part number: 8039192





General operating condition

Data sheet

Feature	Value
Valve function	5/3 exhausted
Type of actuation	Electric
Construction width	18 mm
Standard nominal flow rate (standardised to DIN 1343)	380 l/min
pneumatic working port	Sub-base size 18 mm to ISO 15407-1 G1/8
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Design	Piston gate valve
Type of reset	Mechanical spring Electrical actuation
Degree of protection	IP65 NEMA 4
Nominal size	5 mm
Exhaust-air function	With flow control option Via throttle plate Via individual sub-base
Sealing principle	Soft
Mounting position	optional
Manual override	Covered
Type of piloting	Pilot actuated
Pilot air supply	External
Flow direction	Non-reversible
Symbol	00995441
lap	Overlap
Signal status display	LED
Pilot pressure	0.3 MPa ... 1 MPa
Pilot pressure	3 bar ... 10 bar
Flow rate of valve on individual sub-base	390 l/min
Valve flow rate, pneumatically linked, flow optimized	460 l/min
Flow rate of pneumatically interlinked valve	380 l/min
Non symmetrical switching time off	30 ms for control side 14
Non symmetrical switching time on	10 ms for control side 12 13 ms for control side 14
Duty cycle	100%
Max. positive test pulse with 0 signal	1500 µs

Feature	Value
Max. negative test pulse with 1 signal	800 µs
Nominal operating voltage DC	24 V
Characteristic coil data	24 V DC: 1.6 W
Immunity to surge	2.5 kV
Pollution degree	3
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	0 - No corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-5 °C ... 50 °C
Relative air humidity	0 - 90%
Sound pressure level	85 dB(A)
Ambient temperature	-5 °C ... 50 °C
Max. tightening torque for valve mounting	0.8 Nm ... 1.2 Nm
Product weight	170 g
Electrical connection	4-pin Plugs To ISO 15407-2
Type of mounting	On sub-base
Pilot air port 12/14	Sub-base size 18 mm to ISO 15407-2
Pilot exhaust port 82/84	Ducted Not ducted Either:
Pneumatic connection, port 1	Sub-base size 18 mm to ISO 15407-2
Pneumatic connection, port 2	Sub-base size 18 mm to ISO 15407-2
Pneumatic connection, port 3	Sub-base size 18 mm to ISO 15407-2
Pneumatic connection, port 4	Sub-base size 18 mm to ISO 15407-2
Pneumatic connection, port 5	Sub-base size 18 mm to ISO 15407-2
Note on materials	RoHS-compliant
Material seals	FPM NBR
Material housing	Die-cast aluminium PA
Material screws	Galvanised steel