

Solenoid valve

VSVA-B-P53U-ZH-A2-1R5L

FESTO

Part number: 546783



 [General operating condition](#)

Data sheet

Feature	Value
Valve function	5/3-way, pressurised
Type of actuation	Electrical
Construction width	18 mm
Standard nominal flow rate (standardised to DIN 1343)	450 l/min
pneumatic working port	Sub-base size 18 mm to ISO 15407-1 Sub-base size 02 to VDMA 24563
Operating voltage	24 V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Design	Piston gate valve
Type of reset	Mechanical spring
Approval	C-Tick c UL us - Recognised (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive
UKCA marking (see declaration of conformity)	To UK RoHS instructions
Degree of protection	IP65
Nominal size	5 mm
Exhaust-air function	Can be throttled
Sealing principle	Soft
Mounting position	Any
Conforms to standard	ISO 15407-1 VDMA 24563
Manual override	Non-detenting
Type of piloting	Piloted
Pilot air supply	External
Flow direction	Reversible
Symbol	00992940
lap	Overlap
Reverse polarity protection	For all electrical connections
Additional functions	Safety shut-off
Signal status display	LED
Pilot pressure	0.3 MPa ... 0.8 MPa
Pilot pressure	3 bar ... 8 bar
Flow rate of valve	650 l/min
Flow rate of valve on individual sub-base	500 l/min
Flow rate of pneumatically interlinked valve	450 l/min

Feature	Value
Switching time off	36 ms
Switching time on	15 ms
Operational voltage range DC	21.6 V ... 26.4 V
Duty cycle	100%
Max. positive test pulse with 0 signal	500 µs
Max. negative test pulse with 1 signal	500 µs
Characteristic coil data	24 V DC: low-current phase 1.0 W, high-current phase 2.4 W
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	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Media temperature	-5 °C ... 50 °C
Relative air humidity	0 - 90%
Protection against direct and indirect contact	PELV
Ambient temperature	-5 °C ... 50 °C
Max. tightening torque for valve mounting	0.9 Nm ... 1.1 Nm
Product weight	140 g
Electrical connection	3-pin M12x1 Central plug Round design
Type of mounting	On sub-base
Note on materials	RoHS compliant