

# Air solenoid valve

## VUVS-L25-P53E-MZD-G14-F8-1B2

FESTO

Part number: 575542



 [General operating condition](#)

## Data sheet

Feature	Value
Valve function	5/3 exhausted
Actuation type	Electrical
Valve size	26.5 mm
Normal nominal flow rate (normalized to DIN 1343)	1000 l/min
Pneumatic working port	G1/4
Operating voltage	24V DC
Operating pressure	-0.09 MPa ... 1 MPa
Operating pressure	-0.9 bar ... 10 bar
Structural design	Piston gate valve
Reset method	Mechanical spring
Certification	c UL us - recognized (OL)
Maritime classification	See certificate
Certificate issuing authority	DNVGL-TAA000011J
Degree of protection	IP65 With plug socket As per IEC 60529
Nominal width	6.3 mm
Exhaust air function	Adjustable
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of control	Piloted
Pilot air supply port	External
Flow direction	Reversible
Symbol	00991032
Lap	Positive overlap
Pilot pressure MPa	0.25 MPa ... 1 MPa
Pilot pressure	2.5 bar ... 10 bar
b-value	0.4
C value	4.3 l/sbar
Switching time off	48 ms
On switching time	14 ms
Changeover time	25 ms
Duty cycle	100%
Max. positive test pulse with 0 signal	2000 µs

Feature	Value
Max. negative test pulse on 1 signal	3600 µs
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)
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)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Cleanroom suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Temperature of medium	-10 °C ... 60 °C
Pilot medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Ambient temperature	-10 °C ... 60 °C
Product weight	430 g
Electrical connection	Form B As per industry standard (11 mm)
Type of mounting	On terminal strip With through-hole
Venting hole connection	Not ducted
Pilot exhaust air port 82	M5
Pilot exhaust air port 84	M5
Pilot air port 12	M5
Pilot air port 14	M5
Pneumatic connection 1	G1/4
Pneumatic connection 2	G1/4
Pneumatic connection 3	G1/4
Pneumatic connection 4	G1/4
Pneumatic connection 5	G1/4
Note on materials	RoHS compliant
Seals material	HNBR NBR
Housing material	Die-cast aluminum Painted
Piston slide material	Wrought aluminum alloy
Material of screws	Galvanized steel