

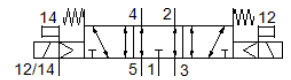
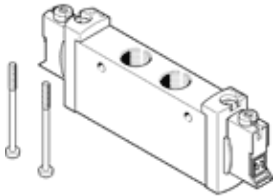
# solenoid valve

## VUVG-L18-P53E-ZT-G14-1P3

Part number: 574441

FESTO

This type is suitable for vacuum.



## Data sheet

Feature	Value
Valve function	5/3 exhausted
Type of actuation	electrical
Valve size	18 mm
Standard nominal flow rate	910 l/min
Operating pressure MPa	-0.09 ... 1 MPa
Operating pressure	-0.9 ... 10 bar
Design structure	Piston slide
Type of reset	mechanical spring
Authorisation	RCM Mark c UL us - Recognized (OL)
Protection class	IP40 IP65 with plug socket
Nominal size	6.3 mm
Exhaust-air function	throttleable
Sealing principle	soft
Assembly position	Any
Manual override	detenting Pushing Covered
Type of piloting	Piloted
Pilot air supply	external
Overlap	Indefinite overlap
Pilot pressure MPa	0.3 ... 0.8 MPa
Pilot pressure	3 ... 8 bar
Switching time off	48 ms
Switching time on	15 ms
Switching time reversal	29 ms
Duty cycle	100 %
Max. positive test pulse with logic 0	700 µs
Max. negative test pulse with logic 1	900 µs
Characteristic coil data	24 V DC: 1 W 24 V DC: low-current phase 0.3 W, high-current phase 1.0 W
Permissible voltage fluctuation	+/- 10 %
Operating medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation possible (subsequently required for further operation)
Vibration resistance	Transport application test at severity level 2 in accordance with FN 942017-4 and EN 60068-2-6
Restriction ambient and medium temperature	Without holding current reduction -5 - 50 °C
Shock resistance	Shock test with severity level 2 in accordance with FN 942017-5 and EN 60068-2-27
Corrosion resistance classification CRC	2 - Moderate corrosion stress

<b>Feature</b>	<b>Value</b>
PWIS conformity	VDMA24364-B1/B2-L
Medium temperature	-5 ... 60 °C
Pilot medium	Compressed air in accordance with ISO8573-1:2010 [7:4:4]
Ambient temperature	-5 ... 60 °C
Product weight	160 g
Electrical connection	Via electrical connection plate
Mounting type	on manifold rail with through hole Optional
Auxiliary pilot air port 12/14	M5
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 2	G1/4
Pneumatic connection, port 3	G1/4
Pneumatic connection, port 4	G1/4
Pneumatic connection, port 5	G1/4
Materials note	Conforms to RoHS
Material seals	HNBR NBR
Material housing	Wrought Aluminium alloy