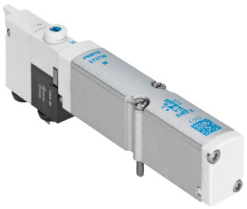
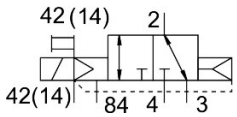
Air solenoid valve
VMPA14-M1HF-X-PI

Part number: 578810





Data sheet

Feature	Value
Valve function	3/2-way, closed, monostable
Actuation type	Electrical
Valve size	14 mm
Normal nominal flow rate (normalized to DIN 1343)	360 l/min...400 l/min
Operating voltage	24V DC
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Structural design	Piston gate valve
Reset method	Pneumatic spring
Certification	c UL us - recognized (OL)
Degree of protection	IP65 In mounted state As per IEC 60529
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of control	Piloted
Flow direction	Reversible
Lap	Positive overlap
Signal status display	Yes
Pilot pressure MPa	0.3 MPa...0.8 MPa
Pilot pressure	3 bar...8 bar
Suitability for vacuum	Yes
Note on standard nominal flow rate	MPA-C: 510 l/min MPA-L: 400 l/min MPA-S: 360 l/min
Standard nominal flow rate with QS-8	360 l/min...510 l/min
Switching time off	20 ms
On switching time	12 ms
Max. positive test pulse with 0 signal	400 µs
Max. negative test pulse on 1 signal	200 µs
Permissible voltage fluctuations	+/- 25%

Feature	Value
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)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-20 °C...40 °C
For use in the food industry	See supplementary material information
Temperature of medium	-5 °C...50 °C
Relative air humidity	Max. 90% at 40°C
Ambient temperature	-5 °C...60 °C
Max. tightening torque for valve mounting	0.65 Nm
Product weight	77 g
Type of mounting	With through-hole
Note on materials	RoHS compliant
Seals material	NBR
Housing material	Die-cast aluminum