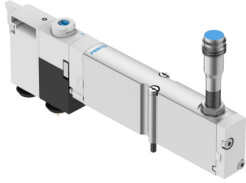# Solenoid valve
VMPA1-M1H-MSC-PI

Part number: 8186953

Data sheet

Feature	Value
Valve function	2x3/2, open, monostable
Actuation type	Electrical
Valve size	10 mm
Standard nominal flow rate	190 l/min
Operating voltage	24V DC
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Structural design	Poppet valve with return spring
Reset method	Mechanical spring
Certification	c UL us - Recognized (OL)
Certificate issuing authority	UL MH19482
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	Pilot-controlled
Flow direction	Reversible
Switching element function	N/C contact
Lap	Overlap
Signal status display	yes
Pilot pressure MPa	0.3 MPa...0.8 MPa
Pilot pressure	3 bar...8 bar
Suitability for vacuum	yes
Standard nominal flow rate with QS-6	360 l/min
Max. switching frequency	2 Hz
Switching time off	27 ms
On switching time	10 ms
Max. positive test pulse with 0 signal	400 µs
Max. negative test pulse on 1 signal	200 µs

Feature	Value
Switching output	PNP
Permissible voltage fluctuations	+/- 25 %
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)	3 - High corrosion stress
Storage temperature	-20 ºC...40 ºC
Temperature of medium	-5 ºC...50 ºC
Relative air humidity	Max. 90 % at 40 ºC
Ambient temperature	-5 ºC...50 ºC
Max. tightening torque for valve mounting	0.25 Nm
Product weight	96 g
DC sensor operating voltage range	10 V...30 V
Sensor short circuit protection	Pulsed
Sensor idle current	10 mA
Max. output current, sensor	200 mA
Sensor max. switching frequency	5000 Hz
Sensor residual ripple	± 10 %
Sensor voltage drop	2 V
Sensor connection	Plug Cable 4-pin M12x1 0.5 m
Type of mounting	With through-hole
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	PPA-reinforced