

Solenoid valve VMPA2-M1H-MS-C-PI

Part number: 8186955

FESTO



Data sheet

Feature	Value
Valve function	5/2-way, monostable
Type of actuation	Electric
Valve size	10 mm
Standard nominal flow rate (standardised to DIN 1343)	550 l/min...670 l/min
Operating voltage	24V DC
Operating pressure	-0.09 MPa...1 MPa -0.9 bar...10 bar
Design	Piston gate valve
Type of reset	Mechanical spring
Approval	c UL us - Recognized (OL)
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
Certificate issuing authority	UL MH19482
Degree of protection	IP65 In assembled state To IEC 60529
Sealing principle	Soft
Mounting position	optional
Manual override	Detenting Non-detenting
Type of piloting	Pilot actuated
Flow direction	Reversible
Switching element function	N/C contact
lap	Overlap
Signal status display	yes
Pilot pressure	0.3 MPa...0.8 MPa 3 bar...8 bar
Suitability for vacuum	yes
Note on standard nominal flow rate	1->2: 840 l/min 1->4: 670 l/min
Standard nominal flow rate with QS-6	670 l/min...840 l/min
Max. switching frequency	2 Hz
Switching time off	36 ms

Feature	Value
Switching time on	10 ms
Max. positive test pulse with 0 signal	400 µs
Max. negative test pulse with 1 signal	200 µs
Switching output	PNP
Permissible voltage fluctuations	+/- 25%
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	3 - high corrosion stress
Storage temperature	-20 °C...40 °C
Media temperature	-5 °C...50 °C
Relative air humidity	Max. 90% at 40°C
Ambient temperature	-5 °C...50 °C
Max. tightening torque for valve mounting	0.25 Nm
Product weight	140 g
Operating voltage range, DC sensor	10 V...30 V
Short-circuit strength sensor	Pulsed
Idle current sensor	10 mA
Max. output current sensor	200 mA
Max. switching frequency sensor	5000 Hz
Residual ripple sensor	± 10%
Voltage drop sensor	2 V
Sensor connection	Plug Cable 4-pin M12x1 0.5 m
Type of mounting	With through-hole
Note on materials	RoHS-compliant
Material seals	NBR
Material housing	PPA reinforced