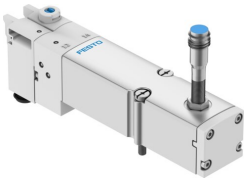
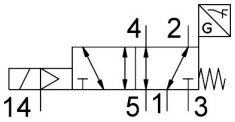
Solenoid valve
VMPA2-M1H-MSC-PI

Part number: 8186955





General operating condition
Solenoid valve
Product details
Category page
Spare parts

Data sheet

Feature	Value
Valve function	5/2-way, single solenoid
Type of actuation	Electrical
Valve size	20 mm
Standard nominal flow rate (standardised to DIN 1343)	670 l/min ... 840 l/min
Operating voltage	24 V DC
Operating pressure	-0.09 MPa ... 0.8 MPa
Operating pressure	-0.9 bar ... 8 bar
Design	Piston gate valve
Type of reset	Mechanical spring
Approval	c UL us - Recognised (Oil)
Degree of protection	IP65 In mounted state To IEC 60529
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of piloting	Piloted
Flow direction	Reversible
Symbol	00997391
Switching element function	N/C contact
lap	Overlap
Switching position indicator	Via built-in sensor
Signal status display	Yes
Pilot pressure	0.3 MPa ... 0.8 MPa
Pilot pressure	3 bar ... 8 bar
Suitability for vacuum	Yes
Note on standard nominal flow rate	MPA-L: 840 l/min MPA-S: 670 l/min
Standard nominal flow rate with QS-8	670 l/min
Standard nominal flow rate with QS-10	840 l/min
Max. switching frequency	2 Hz
Switching time off	36 ms

Feature	Value
Switching time on	8 ms
Max. positive test pulse with 0 signal	400 µs
Max. negative test pulse with 1 signal	900 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	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
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	0.65 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 3-pin M8x1
Type of mounting	With through-hole
Note on materials	RoHS compliant
Material seals	NBR
Material housing	Die-cast aluminium