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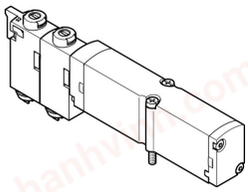
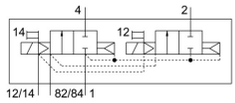
Solenoid valve
VMPA14-M1HF-D-PI

Part number: 578815





Data sheet

Feature	Value
Valve function	2x2/2-way, monostable, closed
Type of actuation	Electric
Valve size	14 mm
Standard nominal flow rate	550 l/min ... 650 l/min
Operating voltage	24V DC
Operating pressure	0.3 MPa ... 1 MPa
Operating pressure	3 bar ... 10 bar
Design	Piston gate valve
Type of reset	Pneumatic spring
Approval	c UL us - Recognized (OL)
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	Non-reversible
Symbol	00991803
lap	Positive overlap
Signal status display	yes
Pilot pressure	0.3 MPa ... 0.8 MPa
Pilot pressure	3 bar ... 8 bar
Suitability for vacuum	no
Note on standard nominal flow rate	MPA-C: 720 l/min MPA-L: 650 l/min MPA-S: 550 l/min
Standard nominal flow rate with QS-8	550 l/min ... 720 l/min
Switching time off	26 ms
Switching time on	9 ms
Max. positive test pulse with 0 signal	400 µs
Max. negative test pulse with 1 signal	200 µs
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)

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Feature	Value
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
Suitable for use with food	See supplementary material information
Media temperature	-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
Material seals	NBR
Material housing	Die-cast aluminium