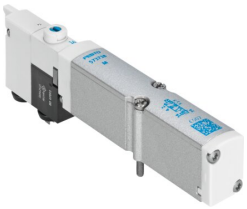
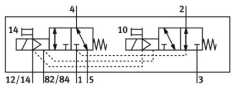
Solenoid valve
VMPA14-M1HF-HS-PI

Part number: 578821





General operating condition

Data sheet

Feature	Value
Valve function	2x3/2-way, open/closed, monostable
Type of actuation	Electrical
Valve size	14 mm
Standard nominal flow rate (standardised to DIN 1343)	470 l/min ... 520 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 To IEC 60529
Sealing principle	Soft
Mounting position	Any
Manual override	Detenting Non-detenting
Type of piloting	Piloted
Flow direction	Reversible
Symbol	00992876
lap	Overlap
Signal status display	Yes
Pilot pressure	0.4 MPa ... 0.8 MPa
Pilot pressure	4 bar ... 8 bar
Suitability for vacuum	Yes
Note on standard nominal flow rate	MPA-C: 550 l/min MPA-L: 520 l/min MPA-S: 470 l/min
Standard nominal flow rate with QS-8	470 l/min ... 550 l/min
Switching time off	20 ms
Switching time on	12 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)

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