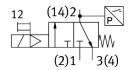
## Solenoid valve VMPA1-M1H-EU-PI

**FESTO** 

Part number: 8126793





## **Data sheet**

	ire	Value
Valve size Pneumatic working port M7 Operating voltage 24V DC Operating pressure 0,3 MPa0.8 MPa 3 bar8 bar Structural design Reset method Mechanical spring Degree of protection IP65 In mounted state as per IEC 60529 Sealing principle Mounting position Any Manual override Detenting Non-detenting Type of control Pilot air supply port Flow direction Lap Underlap Signal status display Pilot pressure MPa Permissible voltage fluctuations Pressible Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Vibration resistance Transport application test with severity level 2 as per FN 942017-	function	3/2, closed, monostable
Pneumatic working port  Operating voltage  24V DC  Operating pressure  0.3 MPa0.8 MPa 3 bar8 bar  Structural design  Reset method  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 air supply port  External  Flow direction  Lap  Signal status display  Pilot pressure  3 bar8 bar  Suitability for vacuum  Permissible voltage fluctuations  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	ition type	Electrical
Operating voltage       24V DC         Operating pressure       0.3 MPa0.8 MPa 3 bar8 bar         Structural design       Poppet valve with return spring         Reset method       Mechanical spring         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         Pilot air supply port       External         Flow direction       Non-reversible         Lap       Underlap         Signal status display       yes         Pilot pressure MPa       0.3 MPa0.8 MPa         Pilot pressure MPa       0.3 MPa0.8 MPa         Suitability for vacuum       no         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 not possible         Vibration resistance       Transport application test with severity level 2 as per FN 942017-	size	10 mm
Operating pressure  Operating pressure  Operating pressure  O.3 MPa0.8 MPa 3 bar8 bar  Structural design  Poppet valve with return spring  Mechanical spring  IP65 In mounted state as per IEC 60529  Sealing principle  Soft  Mounting position  Any  Manual override  Detenting Non-detenting  Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Non-reversible  Lap  Underlap  Signal status display  Pilot pressure MPa  Pilot pressure  Suitability for vacuum  Permissible voltage fluctuations  +/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	matic working port	M7
Structural design  Reset method  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 air supply port  External  Flow direction  Lap  Underlap  Signal status display  Pilot pressure MPa  Pilot pressure  Any  Any  Manual override  Detenting Non-reversible  Lunderlap  Underlap  Signal status display  Pilot pressure  Any  Any  Any  Non-reversible  Underlap  Underlap  Signal status display  Pilot pressure  Any  Any  Any  Non-reversible  Underlap  Underlap  Signal status display  Pilot pressure  Any  Any  Any  Non-reversible  Underlap  Underlap  Signal status display  Pilot pressure MPa  O.3 MPa0.8 MPa  Suitability for vacuum  Permissible voltage fluctuations  +/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	ating voltage	24V DC
Reset method  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  Pilot air supply port  External  Flow direction  Lap  Underlap  Signal status display  Pilot pressure MPa  Pilot pressure MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  Permissible voltage fluctuations  +/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	ating pressure	· - · · · · · · · · · · · · · · · · · ·
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  Pilot air supply port External Flow direction Non-reversible  Lap Underlap Signal status display yes Pilot pressure MPa 0.3 MPa0.8 MPa Pilot pressure MPa Dos MPa 0.3 MPa0.8 MPa Pilot pressure 3 bar8 bar Suitability for vacuum no 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 not possible Vibration resistance Transport application test with severity level 2 as per FN 942017-	tural design	Poppet valve with return spring
In mounted state as per IEC 60529  Sealing principle  Soft  Mounting position  Any  Manual override  Detenting Non-detenting  Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Non-reversible  Lap  Underlap  Signal status display  yes  Pilot pressure MPa  0.3 MPa0.8 MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  no  Permissible voltage fluctuations  1/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	method	Mechanical spring
Mounting position  Any  Manual override  Detenting Non-detenting Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Non-reversible  Lap  Underlap  Signal status display  Pilot pressure MPa  O.3 MPa0.8 MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  Permissible voltage fluctuations  +/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	ee of protection	In mounted state
Manual override  Detenting Non-detenting  Type of control  Pilot-controlled  Pilot air supply port  External  Flow direction  Non-reversible  Lap  Underlap  Signal status display  Pilot pressure MPa  O.3 MPa0.8 MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  Permissible voltage fluctuations  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	ng principle	Soft
Non-detenting  Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Lap Underlap Signal status display Pilot pressure MPa Pilot pressure 3 bar0.8 MPa Pilot pressure 3 bar8 bar Suitability for vacuum no Permissible voltage fluctuations +/- 25 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Information on operating and pilot media Vibration resistance Transport application test with severity level 2 as per FN 942017-	ting position	Any
Pilot air supply port  External  Flow direction  Non-reversible  Lap  Underlap  Signal status display  Pilot pressure MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  Permissible voltage fluctuations	al override	
Flow direction  Lap  Underlap  Signal status display  Pilot pressure MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  Permissible voltage fluctuations	of control	Pilot-controlled
Lap Underlap  Signal status display yes  Pilot pressure MPa 0.3 MPa0.8 MPa  Pilot pressure 3 bar8 bar  Suitability for vacuum no  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 not possible  Vibration resistance Transport application test with severity level 2 as per FN 942017-	air supply port	External
Signal status display  Pilot pressure MPa  0.3 MPa0.8 MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  no  Permissible voltage fluctuations  +/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	direction	Non-reversible
Pilot pressure MPa  0.3 MPa0.8 MPa  Pilot pressure  3 bar8 bar  Suitability for vacuum  no  Permissible voltage fluctuations  +/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-		Underlap
Pilot pressure 3 bar8 bar  Suitability for vacuum no  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 not possible  Vibration resistance Transport application test with severity level 2 as per FN 942017-	l status display	yes
Suitability for vacuum  Permissible voltage fluctuations  +/- 25 %  Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	pressure MPa	0.3 MPa0.8 MPa
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 not possible  Vibration resistance Transport application test with severity level 2 as per FN 942017-	pressure	3 bar8 bar
Operating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]  Information on operating and pilot media  Operation with oil lubrication not possible  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	bility for vacuum	no
Information on operating and pilot media  Operation with oil lubrication not possible  Vibration resistance  Transport application test with severity level 2 as per FN 942017-	issible voltage fluctuations	+/- 25 %
Vibration resistance Transport application test with severity level 2 as per FN 942017-	ating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
	nation on operating and pilot media	Operation with oil lubrication not possible
EN 60068-2-6	tion 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	< resistance	Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27
Corrosion resistance class (CRC) 1 - Low corrosion stress	sion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity VDMA24364 zone III	(PWIS) conformity	VDMA24364 zone III
Storage temperature -20 °C60 °C	ge temperature	-20 °C60 °C

Feature	Value
Temperature of medium	-5 °C50 °C
Relative air humidity	Max. 90 % at 40 ℃
Ambient temperature	-5 °C50 °C
Max. tightening torque for valve mounting	0.65 Nm
Product weight	32 g
Type of mounting	With through-hole
Pilot air port 12/14	M7
Pilot exhaust air port 82/84	M7
Pneumatic connection 1	M7
Pneumatic connection 2	Internal
Pneumatic connection 3	M7
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	PPA-reinforced
Material of screws	Steel, coated