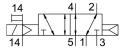
## Air solenoid valve VMPA14-M1HF-M-PI

**FESTO** 

Part number: 578806





## **Data sheet**

elative air humidity  ap  Overlap  Overlap  Overlap  MPA-1: 670 I /min  MPA-5: 550 I /min  MPA-6: 670 I /min  MPA-5: 550 I /min  MPA-6: 500 I /min  MPA-6: 500 I /min	Feature	Value
ote on standard nominal flow rate  MPA-L: 670 l/min MPA-S: 550 l/min MPA-S	Valve function	5/2, monostable
ote on standard nominal flow rate  MPA:: 670 I/min MPAS:: 550 I/min MPAS:: 590 I/min MPAS::	Relative air humidity	Max. 90 % at 40 ℃
MPA-S: 550 l/min perating pressure perating pressure MPa	Lap	Overlap
Into pressure MPa  Cituation type  Electrical  alve size  14 mm  550 I/min 670 I/min  perating voltage  perating pressure  -0.9 bar 10 bar  esign  Piston gate valve  eset method  Pneumatic spring  egree of protection  In mounted state as per IEC 60529  ertification  cut Lu s - Recognized (OI)  ywPA14  eating principle  soft  dounting position  Any  lanual override  ow direction  Perenting  Poet of control  ow direction  Reversible  own direction  Reversible  ymbol  jignal status display  ignal status display  italiot pressure  italiot pressure  italiot pressure  abar 8 bar  uitability for vacuum  yes  tandard nominal flow rate with QS-8  witching time off  as positive test pulse with 0 signal  lax. negative test pulse with 0 signal  ermissible voltage fluctuations  y+25 %  perating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Note on standard nominal flow rate	
Letutation type alve size as per EC 60529 artification alve code alvin size size alve	Operating pressure	-0.09 MPa 1 MPa
tandard nominal flow rate  tandard nominal flow rate  550 l/min 670 l/min  550 l/min 670	Pilot pressure MPa	0.3 MPa 0.8 MPa
tandard nominal flow rate  perating voltage  perating pressure  esign  Piston gate valve  eset method  peratification  peratification  per code  ealing principle  lounting position  lanual override  protection  protection  protection  protection  protection  Any  lanual override  protection  p	Actuation type	Electrical
perating voltage 24V DC  perating pressure -0.9 bar 10 bar  esign Piston gate valve  eset method Pneumatic spring  egree of protection Piero (So 29)  ertification c UL us - Recognized (OL)  //Pec code VMPA14  ealing principle Soft  lounting position Any  lanual override Detenting  //Pe of control Pilot-controlled  //Pe of control Pilot-controlled  //Pe sw direction Reversible  //Pe supplied Soft  //Pe supplied Soft  //Pe of control Pilot-controlled  //Pe of control Pilot-controlled  //Pe supplied Soft  //Pe supplied Soft  //Pe supplied Soft  //Pe supplied Soft  //Pe of control Pilot-controlled  //Pe supplied Soft	Valve size	14 mm
perating pressure esign Piston gate valve eset method Pneumatic spring egree of protection Ple65 In mounted state as per IEC 60529 ertification C UL us - Recognized (OL) VMPA14 ealing principle Soft lounting position Any lanual override Piot-controlled ow direction Piot-controlled ow direction Reversible ymbol ginal status display giot pressure 3 bar 8 bar uitability for vacuum yes tandard nominal flow rate with QS-8 uitability for vacuum tandard nominal flow rate with QS-8 uitability fine soff n switching time 13 ms lax. positive test pulse with 0 signal lax. negative test pulse with 0 signal ermissible voltage fluctuations +/-25 % perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Standard nominal flow rate	550 l/min 670 l/min
Piston gate valve eset method Pneumatic spring egree of protection Ple65 In mounted state as per IEC 60529 ertification C UL us - Recognized (OL) VMPA14 ealing principle Soft Iounting position Any Idanual override Piot-controlled Ow direction Reversible Vmbb1 Owed isgnal status display Viptor sucuum Viptor sucuum Viptor acudum Viptor in switching time off n switching time In switching ti	Operating voltage	24V DC
Preumatic spring  legree of protection  Protection  IP65 In mounted state as per IEC 60529  ertification  CUL us - Recognized (OL)  VMPA14  leading principle  Soft  lounting position  Any  lanual override  Detenting Non-detenting  Von-detenting  Von-detenting  Von-detenting  Vmbol  Reversible  Vmbol  ginal status display  gits of pressure  uitability for vacuum  yes  latandard nominal flow rate with QS-8  witching time off  13 ms  lax, positive test pulse with 0 signal  lax, negative test pulse with 0 signal  lermissible voltage fluctuations  +/- 25 %  Compressed air as per ISO 8573-1:2010 [7:4:4]	Operating pressure	-0.9 bar 10 bar
egree of protection IP65 In mounted state as per IEC 60529  ertification c UL us - Recognized (OL)  ype code VMPA14  ealing principle Soft  founting position Any  lanual override Piotecting  ype of control Piotecting  you direction Reversible  ymbol 00991066  ignal status display yes  ilot pressure 3 bar 8 bar  uitability for vacuum yes  tandard nominal flow rate with QS-8 550 l/min 670 l/min  witching time off 20 ms  in switching time 13 ms  lax, positive test pulse with 0 signal 400 µs  lextines in sur is part is pulse with 0 signal 400 µs  lextines in sur is part is pulse with 0 signal 400 µs  lextines in sur is part is pulse in signal 400 µs  lextines medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Design	Piston gate valve
In mounted state as per IEC 60529 ertification c UL us - Recognized (OL)  Appe code VMPA14  Soft  Jounting position Any  Journal override Pilot-controlled  Any  Journal override Pilot-controlled  Any  Journal oversible  Jo	Reset method	Pneumatic spring
ype code  yMPA14  Soft  lounting position  Any  lanual override  Detenting Non-detenting  ype of control  prilot-controlled  ow direction  Reversible  ymbol  jonal status display  yes  silot pressure  uitability for vacuum  yes  tandard nominal flow rate with QS-8  in switching time  n switching time  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  ermissible voltage fluctuations  +/- 25 %  perating medium  WMPA14  Any  MMPA14  Soft  Any  MMPA14  Any  HMPA14  Any  HMPA14  Any  HMPA14  Any  HMPA14  Any  HMPA14  Any  HMPA14  Any  HAP  Soft  Any  Horitage fluctuations  yes  Soft tontrolled  00991066  Reversible  0991066  Seversible  2091066  Soft  3 bar 8 bar  yes  Soft l/min 670 l/min  20 ms  13 ms  lax. positive test pulse with 0 signal  400 µs  lax. negative test pulse on 1 signal  Compressed air as per ISO 8573-1:2010 [7:4:4]	Degree of protection	In mounted state
sealing principle  lounting position  Any  Detenting Non-detenting  Ape of control  Pilot-controlled  ow direction  Reversible  ymbol  o0991066  ignal status display  illot pressure  uitability for vacuum  yes  tandard nominal flow rate with QS-8  in switching time off  n switching time  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  ermissible voltage fluctuations  +/- 25 %  Compressed air as per ISO 8573-1:2010 [7:4:4]	Certification	c UL us - Recognized (OL)
lanual override    Detenting   Non-detenting     Vipe of control   Pilot-controlled     Ow direction   Reversible     Oype of control   Oype of control     Oype of control   Pilot-controlled     Oype of control   Oype of control     Oype of control   Pilot-controlled     Oype of control   Pilot-controlled     Oype of control   Oype of control     Oype of control   Oype of	Type code	VMPA14
Detenting Non-detenting Pilot-controlled  ype of control Pilot-controlled  ow direction Reversible  ymbol 00991066  ignal status display yes  ilot pressure 3 bar 8 bar  uitability for vacuum yes  tandard nominal flow rate with QS-8 550 l/min 670 l/min  witching time off 20 ms  n switching time 13 ms  lax. positive test pulse with 0 signal 400 µs  lax. negative test pulse on 1 signal 200 µs  ermissible voltage fluctuations +/- 25 %  perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Sealing principle	Soft
Non-defenting  ype of control  pilot-controlled  Reversible  ymbol  00991066  ignal status display  ilot pressure  3 bar 8 bar  uitability for vacuum  yes  tandard nominal flow rate with QS-8  in switching time off  13 ms  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  ermissible voltage fluctuations  +/- 25 %  Compressed air as per ISO 8573-1:2010 [7:4:4]	Mounting position	Any
Reversible  ymbol  00991066  ignal status display  yes  ilot pressure  3 bar 8 bar  uitability for vacuum  yes  tandard nominal flow rate with QS-8  witching time off  20 ms  n switching time  13 ms  lax. positive test pulse with 0 signal  lax. negative test pulse on 1 signal  ermissible voltage fluctuations  +/- 25 %  perating medium  Reversible  Reversible  Reversible  90991066  yes  550 I/min 670 I/min  20 ms  13 ms  400 µs  200 µs  400 µs	Manual override	
yes ilot pressure ilot pressur	Type of control	Pilot-controlled
yes ilot pressure 3 bar 8 bar uitability for vacuum yes tandard nominal flow rate with QS-8 to ms n switching time 13 ms lax. positive test pulse with 0 signal lax. negative test pulse on 1 signal ermissible voltage fluctuations perating medium  yes 550 l/min 670 l/min 20 ms 13 ms 400 µs 12 ms 13 ms 14 ms 15 ms 15 ms 16 ms 17 ms 18 ms 18 ms 18 ms 18 ms 19	Flow direction	Reversible
illot pressure  illot pressure	Symbol	00991066
yes tandard nominal flow rate with QS-8 witching time off 20 ms n switching time 13 ms lax. positive test pulse with 0 signal 400 µs lax. negative test pulse on 1 signal 200 µs ermissible voltage fluctuations +/- 25 % perating medium  yes 550 l/min 670 l/min 20 ms 13 ms 400 µs 200 µs 400 µs	Signal status display	yes
tandard nominal flow rate with QS-8  standard nominal flow rate with QS-8  standard nominal flow rate with QS-8  20 ms  13 ms  lax. positive test pulse with 0 signal  400 µs  lax. negative test pulse on 1 signal  200 µs  ermissible voltage fluctuations  +/- 25 %  perating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Pilot pressure	3 bar 8 bar
witching time off 20 ms  n switching time 13 ms  lax. positive test pulse with 0 signal 400 µs  lax. negative test pulse on 1 signal 200 µs  ermissible voltage fluctuations +/- 25 %  perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Suitability for vacuum	yes
n switching time  13 ms  lax. positive test pulse with 0 signal  400 μs  lax. negative test pulse on 1 signal  200 μs  ermissible voltage fluctuations  +/- 25 %  perating medium  Compressed air as per ISO 8573-1:2010 [7:4:4]	Standard nominal flow rate with QS-8	550 l/min 670 l/min
lax. positive test pulse with 0 signal 400 µs  lax. negative test pulse on 1 signal 200 µs  ermissible voltage fluctuations +/- 25 %  perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Switching time off	20 ms
lax. negative test pulse on 1 signal  200 µs  +/- 25 %  perating medium  200 µs  Compressed air as per ISO 8573-1:2010 [7:4:4]	On switching time	13 ms
ermissible voltage fluctuations +/- 25 % perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. positive test pulse with 0 signal	400 μs
perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Max. negative test pulse on 1 signal	200 μs
	Permissible voltage fluctuations	+/- 25 %
oformation on operating and pilot media  Operation with oil lubrication possible (required for further use)	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)

Feature	Value
CE marking (see declaration of conformity)	As per EU EMC directive
Vibration 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 60068-2-27
Corrosion resistance class (CRC)	1 - Low corrosion stress
Storage temperature	-20 °C 40 °C
For use in the food industry	See supplementary material information
Temperature of medium	-5 ℃ 50 ℃
Ambient temperature	-5 ℃ 60 ℃
Max. tightening torque for valve mounting	0.65 Nm
Product weight	77 g
Type of mounting	With through-hole
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum