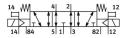
Air solenoid valve VMPA1-M1H-E-S-M7-PI

FESTO

Part number: 533389





General operating condition

Data sheet

Actuation type Electrical Valve size 10 mm Standard nominal flow rate 240 l/min Pneumatic working port Operating voltage Operating pressure Operating pressure Operating pressure Operating pressure Operating spressure Operating pressure Operating operative descriptions Operating operative des	Feature	Value
Valve size 10 mm Standard nominal flow rate 240 l/min Pneumatic working port M7 Operating yorlage 24V DC Operating pressure 0.09 MPa 1 MPa Operating pressure 1.09 Mar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification CUL us - Recognized (OL) CE marking (see declaration of conformity) As per EU BMC directive As per EU ROHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection P65 Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Exhaust air supply port External Flow direction Reversible Symbol 0.0991032 Lap Overlap Signal status display yes Pilot pressure MPa O 3 MPa 0.8 MPa Pilot pressure MPa O 10 ms Standard nominal flow rate with QS-6 Switching time 10 ms Changeover time 10 ms	Valve function	5/3, exhausted
Standard nominal flow rate 240 l/min Pneumatic working port M7 Operating pressure 0.0.9 Mpa 1 Mpa Operating pressure 1.0.9 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring Certification c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU ROHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Degree of protection Pipes Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot air supply port External Flow direction Reversible Symbol 0.0991032 Lap Overlap Signal status display Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa 0.3 MPa 0.8 MPa Standard nominal flow rate with QS-6 240 l/min Switching time (ID ms Changeover time 15 ms	Actuation type	Electrical
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Operating pressure Operating operation Operating Ope	Pneumatic working port	M7
Operating pressure 5.7 by bar 10 bar Structural design Reset method Certification CE marking (see declaration of conformity) As per EU EMC directive As per EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection P65 In mounted state as per IEC 60529 Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Lap Overlap Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 Switching time 10 ms Changeover time 15 ms	Operating voltage	24V DC
Structural design Piston gate valve Reset method Mechanical spring Certification CUL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU EMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Degree of protection IP65 In mounted state as per IEC 60529 Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Flow direction Reversible Symbol 00991032 Lap 00verlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa Distance of the supply for the supply for the supply for the supply of	Operating pressure	-0.09 MPa 1 MPa
Reset method Mechanical spring Certification c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU RMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection Pie65 In mounted state as per IEC 60529 Exhaust air function Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol Oo991032 Lap Overlap Signal status display yes Pilot pressure MPa Pilot pressure Abar Suitability for vacuum Standard nominal flow rate with QS-6 Switching time UL us - Recognized (OL) As per EU RMC directive As per EU RMC To UK ROHS To	Operating pressure	-0.9 bar 10 bar
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As per EU ROHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection IP65 In mounted state as per IEC 60529 Exhaust air function Exhaust air function Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Reversible Symbol O0991032 Lap Overlap Signal status display yes Pilot pressure MPa O13 MPa 0.8 MPa Pilot pressure Suitability for vacuum yes Standard nominal flow rate with QS-6 240 U/min Switching time off O1 switching time 10 ms Changeover time	Certification	c UL us - Recognized (OL)
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Mounting positionAnyManual overrideDetenting Non-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionReversibleSymbol00991032LapOverlapSignal status displayyesPilot pressure MPa0.3 MPa 0.8 MPaPilot pressure3 bar 8 barSuitability for vacuumyesStandard nominal flow rate with QS-6240 l/minSwitching time off35 msOn switching time10 msChangeover time15 ms	Exhaust air function	With flow control option
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Non-detenting Type of control Pilot controlled Pilot air supply port External Flow direction Reversible Symbol 00991032 Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 240 I/min Switching time off 0 switching time 10 ms Changeover time 15 ms	Mounting position	Any
Pilot air supply port External Flow direction Reversible Symbol 00991032 Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 240 l/min Switching time off 0n switching time 10 ms Changeover time External External External External Averable Averable Seversible 00991032 00991032 10991032 10991032 10 ms 15 ms	Manual override	
Flow direction Reversible Symbol 00991032 Lap Overlap Signal status display Pilot pressure MPa Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 Switching time off 0 ms Changeover time Reversible	Type of control	Pilot-controlled
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Doerlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 Switching time off On switching time 10 ms Changeover time Overlap Overlap Overlap Overlap Overlap Osland A Discount Suparation On MPa 0.8 MPa 3 bar 8 bar 2 40 l/min 35 ms On switching time off 10 ms Changeover time	Flow direction	Reversible
Signal status display Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 240 l/min Switching time off 35 ms On switching time 10 ms Changeover time 15 ms	Symbol	00991032
Pilot pressure MPa 0.3 MPa 0.8 MPa 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 240 l/min Switching time off 35 ms On switching time 10 ms Changeover time 15 ms	Lap	Overlap
Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 240 l/min Switching time off 35 ms On switching time 10 ms Changeover time 15 ms	Signal status display	yes
Suitability for vacuum Standard nominal flow rate with QS-6 Switching time off On switching time 10 ms Changeover time yes 240 l/min 35 ms 10 ms 15 ms	Pilot pressure MPa	0.3 MPa 0.8 MPa
Standard nominal flow rate with QS-6 Switching time off On switching time 10 ms Changeover time 15 ms	Pilot pressure	3 bar 8 bar
Switching time off 35 ms On switching time 10 ms Changeover time 15 ms	Suitability for vacuum	yes
On switching time 10 ms Changeover time 15 ms	Standard nominal flow rate with QS-6	240 l/min
Changeover time 15 ms	Switching time off	35 ms
-	On switching time	10 ms
Max. positive test pulse with 0 signal 400 μs	Changeover time	15 ms
	Max. positive test pulse with 0 signal	400 μs

Feature	Value
Max. negative test pulse on 1 signal	200 μs
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 possible (required for further use)
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
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Storage temperature	-20 °C 40 °C
Temperature of medium	-5 ℃ 50 ℃
Relative air humidity	Max. 90 % at 40 °C
Ambient temperature	-5 ℃ 50 ℃
Max. tightening torque for valve mounting	0.25 Nm
Product weight	143 g
Electrical connection	4-pin M8x1 Plug as per EN 60947-5-2
Type of mounting	With through-hole
Pilot air port 12/14	M5
Pilot exhaust air port 82/84	M5
Pneumatic connection 1	M7
Pneumatic connection 2	M7
Pneumatic connection 3	M7
Pneumatic connection 4	M7
Pneumatic connection 5	M7
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum