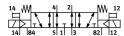
Air solenoid valve VMPA2-M1H-E-G1/8-PI Part number: 537967







General operating condition

Data sheet

Actuation type Electrical Valve size 20 mm Standard nominal flow rate 500 l/min Pneumatic working port Operating voltage 24V DC Operating pressure Operating pressure Operating pressure 3 bar 8 bar Structural design Reset method Mechanical spring Certification Cet marking (see declaration of conformity) As per EU ENC directive 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 Seating principle Soft Mounting position Manual override Detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Symbol O0991032 Lap Doverlap Signal status display yes Pilot pressure 3 bar 8 bar Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Feature	Value
Valve size 20 mm Standard nominal flow rate 590 l/min Pneumatic working port 61/8 Operating yoltage 24V DC Operating pressure 0.3 MPa 0.8 MPa Operating pressure 9 3 bar 8 bar Structural design Piston gate valve Reset method Mechanical spring Certification c c UL 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 Piess Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot controlled Internal Flow direction Non-reversible Symbol 00991032 Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa Flot pressure MPa On switching time off 47 ms On switching time off 47 ms On switching time (11 ms Changeover time) 23 ms	Valve function	5/3, exhausted
Standard nominal flow rate 590 l/min Pneumatic working port G1/8 Operating pressure 0.3 MPa 0.8 MPa Operating pressure 3 bar 8 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 PiP65 In mounted state as sper ELC 60529 Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot air supply port Internal Flow direction Non-reversible Symbol 00991032 Lap Overlap Signal status display Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa 0.3 MPa 0.8 MPa Standard nominal flow rate with QS-8 590 l/min Switching time Changeover time 23 ms	Actuation type	Electrical
Preumatic working port Operating voltage 24V DC Operating pressure 0.3 MPa 0.8 MPa Operating pressure 3 bar 8 bar Structural design Reset method Mechanical spring Certification CE marking (see declaration of conformity) MKCA marking (see declaration of conformity) As per EU RHG directive As per EU RHG directi	Valve size	20 mm
Operating voltage 24V DC Operating pressure 0.3 MPa 0.8 MPa Operating pressure 3 bar 8 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 RMS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK instructions for EMC To UK RoHS instructions Degree of protection Pies Exhaust air function Soft Mounting position Any Manual override Soft Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991032 Lalap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa 0.3 MPa 0.8 MPa Standard nominal flow rate with QS-8 S90 I/min Switching time off 47 ms On switching time off 11 ms Changeover time 23 ms	Standard nominal flow rate	590 l/min
Operating pressure Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method Cetrification CE marking (see declaration of conformity) As per EU EMC directive As per EU BMC directive As per EU BMC directive Out K RoHS 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 Non-detenting Type of control Pilot air supply port Internal Plow direction Non-reversible Symbol Operating pressure MPa Pilot pressure MPa Pilot pressure MPa Oyerlap Signal status display Pilot pressure MPa Distriction Switching time off A7 ms On switching time Changeover time 23 ms	Pneumatic working port	G1/8
Operating pressure 3 bar 8 bar Structural design Reset method Mechanical spring Certification C UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive 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 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 Pilot air supply port Internal Flow direction Non-reversible Symbol Lap Symbol Ooyerlap Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off On switching time 11 ms Changeover time 23 ms	Operating voltage	24V DC
Structural design Piston gate valve Reset method Mechanical spring Certification c CUL us - Recognized (DL) CE marking (see declaration of conformity) As per EU EMC directive 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 Pilot air supply port Internal Flow direction Non-reversible Symbol 00991032 Lap 00verlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa Distriction Non-reversible Suitability for vacuum Standard nominal flow rate with QS-8 Switching time off 47 ms On switching time Changeover time 23 ms	Operating pressure	0.3 MPa 0.8 MPa
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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 Sealing principle Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Ooy91032 Lap Overlap Signal status display yes Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Certification	c UL us - Recognized (OL)
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 Internal Flow direction Non-reversible Symbol Lap Oo991032 Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa0.8 MPa Pilot pressure 3 bar8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off 0.47 ms Changeover time 23 ms	CE marking (see declaration of conformity)	'
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Sealing principle Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Internal Flow direction Non-reversible Symbol Lap Overlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off On switching time 11 ms Changeover time Setting firm off 11 ms Changeover time Setting firm off Changeover time Setting firm off Any Detenting Non Any Any Any Detenting Non Any Any Any Any Any Any Any A	Degree of protection	In mounted state
Mounting position Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991032 Lap Overlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum Standard nominal flow rate with QS-8 Switching time off 47 ms On switching time 11 ms Changeover time Detenting Non-detenting Non-	Exhaust air function	With flow control option
Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol Oo991032 Lap Overlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum Standard nominal flow rate with QS-8 Switching time off 47 ms Changeover time Detenting Non-detenting Non-reversible Oo991032 Overlap Symbol Oo991032 Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa 3 bar 5 bor Non Symbol Non Sy	Sealing principle	Soft
Non-detenting Type of control Pilot controlled Pilot air supply port Internal Flow direction Non-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 no Standard nominal flow rate with QS-8 Switching time off 47 ms Changeover time 23 ms	Mounting position	Any
Pilot air supply port Flow direction Non-reversible Symbol Ooyerlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure Suitability for vacuum Standard nominal flow rate with QS-8 Switching time off On switching time Changeover time Internal Non-reversible Ooyerlap Overlap Overlap Overlap 3 bar 8 bar 5 90 l/min 11 ms Changeover time 23 ms	Manual override	
Flow direction Non-reversible O0991032 Lap Overlap Signal status display Pilot pressure MPa Pilot pressure 3 bar 8 bar Suitability for vacuum Standard nominal flow rate with QS-8 Switching time off On switching time Changeover time Non-reversible O0991032 Non-reversible O0991032 Non-reversible O0991032 Non-reversible Ons MPa Ves Switching 10 SMPa 0.8 MPa 10 SMPa 0.8 MPa 11 ms 11 ms Changeover time 23 ms	Type of control	Pilot-controlled
Symbol 00991032 Lap 0verlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure Suitability for vacuum no Standard nominal flow rate with QS-8 590 l/min Switching time off 47 ms On switching time Changeover time 23 ms	Pilot air supply port	Internal
Doerlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off On switching time 11 ms Changeover time Overlap Overlap Overlap Overlap Ves 590 l/min 11 ms Changeover time 23 ms	Flow direction	Non-reversible
Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Symbol	00991032
Pilot pressure MPa 0.3 MPa 0.8 MPa 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Lap	Overlap
Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 590 l/min Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Signal status display	yes
Suitability for vacuum Standard nominal flow rate with QS-8 Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Pilot pressure MPa	0.3 MPa 0.8 MPa
Standard nominal flow rate with QS-8 590 l/min Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Pilot pressure	3 bar 8 bar
Switching time off 47 ms On switching time 11 ms Changeover time 23 ms	Suitability for vacuum	no
On switching time 11 ms Changeover time 23 ms	Standard nominal flow rate with QS-8	590 l/min
Changeover time 23 ms	Switching time off	47 ms
-	On switching time	11 ms
Max. positive test pulse with 0 signal 400 μs	Changeover time	23 ms
	Max. positive test pulse with 0 signal	400 µs

Feature	Value
Max. negative test pulse on 1 signal	900 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	0.65 Nm
Product weight	325 g
Electrical connection	4-pin M8x1 Plug as per EN 60947-5-2
Type of mounting	With through-hole
Pneumatic connection 1	G1/8
Pneumatic connection 2	G1/8
Pneumatic connection 3	G1/8
Pneumatic connection 4	G1/8
Pneumatic connection 5	G1/8
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum