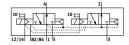
Air solenoid valve VMPA2-M1H-N-S-G1/8-PI Part number: 537978







General operating condition

Data sheet

Actuation type Electrical Valve size 20 mm Standard nominal flow rate Pheumatic working port Operating pressure Operating pressure Operating pressure 3 bar 10 bar Structural design Piston gate valve Reset method Pheumatic spring Certification CE marking (see declaration of conformity) As per EU EMC directive As per EU RMS directive UKCA marking (see declaration of conformity) To UK RMS instructions Degree of protection IP65 In mounted state as per IEC 60529 Exhaust air function Soati Mounting position Any Manual override Detenting When the support of the controlled Pilot air supply port External Flow direction Non-reversible Symbol Lap Overlap Signal status display yes Pilot pressure MPa Distruction on withing time Bims Mox positive test pulse with 0 signal Manual position for a minument of the support of t	Feature	Value
Valve size 20 mm Standard nominal flow rate 550 l/min Pneumatic working port 61/8 Operating yoltage 24V DC Operating pressure 0.3 MPa 1 MPa Operating pressure 93 bar 10 bar Structural design Piessure 97 lesting aget valve Reset method Pneumatic 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 Piessure 3 bar 10 New York Piessure 3 New York Piessure 3 bar 10 New York Piessure 3 New York Piessure 3 bar 10 New York Piessure 3 New York Piessure 3 Dar 10 New York Piessure 3 New York Piessure 3 Dar 10 New York Piessure 3 New York Piessure 3 Dar 10 New York Piessure 3 New York Piessure 3 Dar 10 New York Piessure 3 Dar 10 New York Piessure 4 New York Piessure 3 Dar 10 New York Piessure 4 New York Piessure	Valve function	2x3/2, open, monostable
Standard nominal flow rate 550 l/min Pneumatic working port G1/8 Operating pressure 0.3 MPa 1 MPa Operating pressure 3 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification c UL us - Recognized (DL) 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 Ple5s In mounted state as per EU EMC Stote Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Pilot air supply port External Flow direction Non-reversible Symbol 00991812 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 Smitching time off 28 ms Max. positive test pulse with 0 signal 400 μs	Actuation type	Electrical
Pneumatic working port G1/8 Operating voltage 24V DC Operating pressure 0.3 MPa 1 MPa Operating pressure 3 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification c UL us - Recognized (OU) CE marking (see declaration of conformity) As per EU EMC directive As per EU RoHS directive As	Valve size	20 mm
Operating voltage 24V DC Operating pressure 0.3 MPa 1 MPa Operating pressure 3 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive MECA marking (see declaration of conformity) To UK instructions for EMC TO UK ROHS instructions TO UK ROHS instructions Degree of protection IP65 Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Detenting Non-detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol 00991812 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-8 550 I/min Switching time off 28 ms On switching time 8 ms Max. positive test p	Standard nominal flow rate	550 l/min
Operating pressure Operating pressure 3 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification CE marking (see declaration of conformity) As per EU EMC directive As per EU BMC directive As per EU BMC for Citive As per EU BMC for Citive As per EU BMC for Citive 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 air supply port External Flow direction Non-reversible Symbol Lap Ooyerlap Signal status display yes Pilot pressure MPa O, 3 MPa 0.8 MPa Jabar 8 bar Suitability for vacuum Switching time off On switching time 8 ms Max. positive test pulse with 0 signal	Pneumatic working port	G1/8
Operating pressure 3 bar 10 bar Structural design Piston gate valve Reset method Pneumatic spring Certification c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU RoHS 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 External Flow direction Non-reversible Symbol 00991812 Lap Overlap Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 \$50 I/min Switching time off 28 ms On switching time off 28 ms Max. positive test pulse with 0 signal 400 μs	Operating voltage	24V DC
Structural design Piston gate valve Reset method Pneumatic spring Certification CUL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU BMSH Siterctive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Degree of protection Piefs In mounted state as per IEC 60529 Exhaust air function Soft Mounting position Any Manual override Detenting Non-detenting Non-detenting Pilot controlled Pilot controlled Pilot air supply port External Flow direction Non-reversible Symbol Oo991812 Lap Overlap Overlap Signal status display yes Pilot pressure MPa O.3 MPa O.8 MPa Pilot pressure MPa Pilot pressure MPa Switching time off Os signal Max. positive test pulse with O signal Max. positive test pulse with O signal	Operating pressure	0.3 MPa 1 MPa
Reset method Certification Cettification Cet	Operating pressure	3 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 Sealing principle Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Pilot air supply port External Flow direction Non-reversible Symbol Oo991812 Lap Overlap Signal status display yes Pilot pressure MPa Pilot pressure 3 bar 0.8 MPa Suitability for vacuum no Standard nominal flow rate with QS-8 550 I/min Switching time off 28 ms Max. positive test pulse with 0 signal Max positive test pulse with 0 signal	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 Pilot air supply port External Flow direction Non-reversible Symbol 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 0.8 witching time 8 ms Max. positive test pulse with 0 signal	CE marking (see declaration of conformity)	'
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 External Flow direction Non-reversible Symbol 00991812 Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off 28 ms Max. positive test pulse with 0 signal Mind principle (Soft) With flow control option Soft Any With flow control option Soft Any Mon-reversible External Overlap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa 3 bar 8 bar 550 l/min Switching time off 28 ms Max. positive test pulse with 0 signal	UKCA marking (see declaration of conformity)	
Sealing principle Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled External Flow direction Non-reversible Symbol Lap Overlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off Oswitching time Max. positive test pulse with 0 signal	Degree of protection	In mounted state
Mounting positionAnyManual overrideDetenting Non-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol00991812LapOverlapSignal status displayyesPilot pressure MPa0.3 MPa 0.8 MPaPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-8550 l/minSwitching time off28 msMax. positive test pulse with 0 signal400 μs	Exhaust air function	With flow control option
Manual overrideDetenting Non-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionNon-reversibleSymbol00991812LapOverlapSignal status displayyesPilot pressure MPa0.3 MPa 0.8 MPaPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-8550 l/minSwitching time off28 msMax. positive test pulse with 0 signal400 μs	Sealing principle	Soft
Non-detenting Type of control Pilot air supply port External Flow direction Non-reversible Symbol Ooy91812 Lap Overlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure Suitability for vacuum Non Standard nominal flow rate with QS-8 Switching time off On switching time Max. positive test pulse with 0 signal Non-detenting Non-detenting Non-detenting Non-detenting Non-detenting Pilot-controlled Pilot-controlled Non-reversible Sveternal Ooy91812 Ooy91	Mounting position	Any
Pilot air supply port External Flow direction Non-reversible Symbol 00991812 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 28 ms On switching time 8 ms Max. positive test pulse with 0 signal	Manual override	1
Flow direction Non-reversible O0991812 Lap Overlap Signal status display Pilot pressure MPa Pilot pressure 3 bar 8 bar Suitability for vacuum Suitability for vacuum Switching time off On switching time 8 ms Max. positive test pulse with 0 signal	Type of control	Pilot-controlled
Symbol 00991812 Lap Overlap 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-8 550 l/min Switching time off 28 ms On switching time Max. positive test pulse with 0 signal 400 µs	Pilot air supply port	External
LapOverlapSignal status displayyesPilot pressure MPa0.3 MPa 0.8 MPaPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-8550 l/minSwitching time off28 msOn switching time8 msMax. positive test pulse with 0 signal400 μs	Flow direction	Non-reversible
Signal status display 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 28 ms On switching time 8 ms Max. positive test pulse with 0 signal	Symbol	00991812
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 28 ms On switching time 8 ms Max. positive test pulse with 0 signal	Lap	Overlap
Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-8 550 l/min Switching time off 28 ms On switching time 8 ms Max. positive test pulse with 0 signal 400 µs	Signal status display	yes
Suitability for vacuum Standard nominal flow rate with QS-8 Stol/min Switching time off 28 ms On switching time 8 ms Max. positive test pulse with 0 signal 400 µs	Pilot pressure MPa	0.3 MPa 0.8 MPa
Standard nominal flow rate with QS-8 550 l/min Switching time off 28 ms On switching time 8 ms Max. positive test pulse with 0 signal 400 µs	Pilot pressure	3 bar 8 bar
Switching time off 28 ms On switching time 8 ms Max. positive test pulse with 0 signal 400 µs	Suitability for vacuum	no
On switching time 8 ms Max. positive test pulse with 0 signal 400 µs	Standard nominal flow rate with QS-8	550 l/min
Max. positive test pulse with 0 signal 400 μs	Switching time off	28 ms
· · · · · · · · · · · · · · · · · · ·	On switching time	8 ms
Max. negative test pulse on 1 signal 900 μs	Max. positive test pulse with 0 signal	400 μs
	Max. negative test pulse on 1 signal	900 µs

Feature	Value
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 °C 50 °C
Relative air humidity	Max. 90 % at 40 ℃
Ambient temperature	-5 °C 50 °C
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
Pilot air port 12/14	M5
Pilot exhaust air port 82/84	M5
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