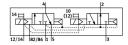
Air solenoid valve VMPA2-M1H-H-G1/8-PI Part number: 537970







General operating condition

Data sheet

Actuation type Electrical Valve size 20 mm Standard nominal flow rate Pneumatic working port Operating pressure Operating pressure Operating pressure 3 bar 8 bar Structural design Reset method Certification CE marking (see declaration of conformity) Degree of protection IP65 Exhaust air function Seating principle Solt Mounting position Any Manual override Pilot or controlled Pilot air supply port Internal	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 0.8 MPa Operating pressure 9 3 bar 8 bar Structural design Pleston gate valve Reset method Pneumatic spring Certification c UL 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 Ple5 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 Internal Ellow direction Non-reversible Symbol 00991813 Lap Overlap Signal status display yes Pilot pressure MPa O 3 MPa 0.8 MPa Pilot pressure MPa O 3 MPa 0.8 MPa Signal status display yes Pilot pressure MPa O 3 MPa 0.8 MPa Signal flow for se with 0 Signal 400 μs Manual positive test pulse with 0 Signal Max. positive test pulse with 0 Signal Max. positive test pulse with 0 Signal	Valve function	2x3/2, open/closed, monostable
Standard nominal flow rate 550 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 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 Internal Flow direction Non-reversible Symbol 00991813 Lap Overlap Signal status display Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa 0.3 MPa 0.8 MPa Sithability for vacuum Non-switching 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 0.8 MPa Operating pressure 3 bar 8 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 p	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 Pneumatic spring Certification c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU RobtS directive As per EU RobtS directive UKCA marking (see declaration of conformity) To UK instructions for EMC TO UK RobtS 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 Mounting position Any Manual override Detenting Type of control Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Symbol 00991813 Lap Overlap Signal status display yes Pilot pressure 3 bar 8 bar	Standard nominal flow rate	550 l/min
Operating pressure Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method Pneumatic spring Cctrification CLU us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU BMC 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 air supply port Internal Flow direction Non-reversible Symbol Lap Overlap Signal status display yes Pilot pressure MPa Out and supply pressure Builtability for vacuum Switching time off Switching time Switching time Max. positive test pulse with 0 signal Max. positive test pulse with 0 signal	Pneumatic working port	G1/8
Operating pressure 3 bar 8 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 CE 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 00991813 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 ROHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK ROHS instructions Degree of protection Piece of Piece	Operating pressure	0.3 MPa 0.8 MPa
Reset method Certification Cettification Cet	Operating pressure	3 bar 8 bar
Certification c UL us - Recognized (OU) 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 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 Internal Flow direction Non-reversible Symbol Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum Switching time Max. positive test pulse with 0 signal Max. positive test pulse with 0 signal	Structural design	Piston gate valve
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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 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 Internal Flow direction Non-reversible Symbol 00991813 Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure WPa Suitability for vacuum no Standard nominal flow rate with QS-8 Switching time off 28 ms Max. positive test pulse with 0 signal Mind mounted state as per IEC 60529 With flow control option Soft Any With flow control option Soft Any Mind flow control option Soft Any Mind flow control option Soft Any Mon-reversible Non-reversible Overlap Ves Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa 3 bar 8 bar Suitability for vacuum 8 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 Internal 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 portInternalFlow directionNon-reversibleSymbol00991813LapOverlapSignal 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 portInternalFlow directionNon-reversibleSymbol00991813LapOverlapSignal 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 controlled Pilot air supply port Internal Flow direction Non-reversible Symbol O0991813 Lap Overlap Signal status display yes 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 28 ms Max. positive test pulse with 0 signal Non-reversible Non-re	Mounting position	Any
Pilot air supply port Flow direction Non-reversible Symbol Ooyerlap Signal status display Pilot pressure MPa Pilot pressure Pilot pressure 3 bar 8 bar Suitability for vacuum Standard nominal flow rate with QS-8 Switching time off On switching time Max. positive test pulse with 0 signal Internal Non-reversible Non-reversible Ooyerlap Overlap Overlap 3 bar 8 MPa 3 bar 8 bar 550 l/min 8 ms 400 μs	Manual override	
Flow direction Non-reversible O0991813 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 Max. positive test pulse with 0 signal Non-reversible Non-reversibl	Type of control	Pilot-controlled
Symbol 00991813 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	Internal
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	00991813
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 ℃ 50 ℃
Relative air humidity	Max. 90 % at 40 °C
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
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