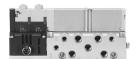
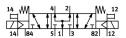
Air solenoid valve VMPA1-M1H-B-S-M7-PI

Part number: 533387







General operating condition

Data sheet

Actuation type Electrical Valve size 10 mm Standard nominal flow rate 300 l/min Pneumatic working port Operating voltage 24V DC Operating pressure -0.09 MPa 1 MPa Operating pressure -0.9 bar 10 bar Structural design Reset method Kechanical 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 Sott Mounting position Any Manual override Detenting Non-detenting Type of control Pilot air supply port External Flow direction Reversible Symbol Lap Overlap Signal status display yes Pilot pressure MPa O 3 MPa 0 MPa Switchill flow rate with QS-6 Switching time off 35 ms On switching time Changeover time	Feature	Value
Valve size 10 mm Standard nominal flow rate 300 l/min Pneumatic working port M7 Operating yorkings port 0.09 MPa 1 MPa Operating pressure 0.09 MPa 1 MPa Operating pressure 1.09 Mar 1 Obar 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 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 Pfess In mounted state as per EC 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 Reversible Symbol 00991031 Lap Overlap Signal status display yes Pilot pressure MPa Out State With QS-6 Switching time 0 35 ms On switching time 0 10 ms Changeover time 15 ms	Valve function	5/3, pressurized
Standard nominal flow rate Pneumatic working port Operating yoltage 24V DC Operating pressure 0.09 MPa 1 MPa Operating pressure 1-0.9 bar 10 bar Structural design Piston gate valve Reset method Mechanical spring 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 Ple5 In mounted state as per EU EMC Soft In mounted state as per EU EMC Soft Mounting position Manual override Detenting Non-detenting Pilot air supply port External Flow direction Reversible Symbol Operating principle Overlap Signal status display Pilot pressure MPa Sola MPa Signal status display Pilot pressure MPa Signal status display Pilot pressure MPa Signal status display Pilot pressure MPa Out MPa Standard nominal flow rate with QS-6 Son witching time On switching time On switching time On switching time Changeover time 15 ms On switching time Changeover time Day Day Any Day Degree of Description	Actuation type	Electrical
Pneumatic working port Operating voltage 24V DC Operating pressure 0.09 MPa 1 MPa Operating pressure 0.9 bar 10 bar Structural design Reset method Reset method Reset method Certification CE marking (see declaration of conformity) RESET WORKS STRUCTURE AS PET LE MCC STRUCTURE AS per EU ROHS directive As per EU RO	Valve size	10 mm
Operating voltage 24V DC Operating pressure -0.09 MPa 1 MPa Operating pressure -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 MCA 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 Reversible Symbol 00991031 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-6 300 I/min Switching time off 35 ms On switching time 10 ms Changeover time <td>Standard nominal flow rate</td> <td>300 l/min</td>	Standard nominal flow rate	300 l/min
Operating pressure Operating Operation Operating Oper	Pneumatic working port	M7
Operating pressure 5.7 by bar 10 bar Structural design Reset method Mechanical spring 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 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 Reversible Symbol Lap Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 Switching time off On switching time On switching time I om s Changeover time 15 ms	Operating voltage	24V DC
Structural design Piston gate valve Reset method Mechanical spring Certification c U. U. s Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive BUKCA 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 Soft Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled Flow direction Reversible Symbol 00991031 Lap Overlap Signal status display yes Pilot pressure MPa Pilot pressure MPa Distance A Soft On switching time off Switching time off On switching time 10 ms Changeover time Pions Culture A Soft Mechanical spring Auge (U.) As per EU EMC directive CUL S Recognized (OL) As per EU EMC directive CUL S Recognized (OL) As per EU EMC directive CUL S Recognized (OL) As per EU EMC directive CUL S Recognized (OL) As per EU EMC directive CUL S Recognized (OL) As per EU EMC directive Defend To UK instructions for EMC To UK RoHS instructions PiP65 In UK RoHS instructions PiP65 In With Row Control option Sowitching time off Out RoHS As per EU EMC directive As per EU EMC directive Cult RoHS instructions Duk RoHS instructions Duk RoHS instructions PiP65 To UK RoHS directive Duk RoHS directive To UK RoHS d	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 Oo991031 Lap Overlap Signal status display yes Pilot pressure MPa Dilot pressure Abar Suitability for vacuum Standard nominal flow rate with QS-6 Switching time On switching time 10 ms Changeover time Pilo ms Clangeover time Pilo marketive As per EU RMC directive As per EU RMC To UK ROHS To UK ROHS To UK RO	Operating pressure	-0.9 bar 10 bar
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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-controlled Pilot air supply port External Flow direction Reversible Symbol Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Suitability for vacuum yes Standard nominal flow rate with QS-6 300 I/min Switching time Changeover time 15 ms As per EU ROHS directive As per EU ROHS directions Du Kinate directions As per EU ROHS directions As per EU ROHS directions Descriptions As per EU ROHS directions As per EU ROHS directions Descriptions As per EU ROHS directions As per EU ROHS directions Descriptions As per EU ROHS directions Pl65 In mounted state as per IC e60529 Exhaust directions Any Mith flow control option Any Any Mith flow control option Any Mounting per IC e60529 Any Mounting per IC e60	Reset method	Mechanical spring
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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 Reversible Symbol 00991031 Lap 0verlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure MPa Suitability for vacuum yes Standard nominal flow rate with QS-6 300 I/min Switching time off 0.5 ms Changeover time 1 15 ms	UKCA marking (see declaration of conformity)	
Sealing principle Mounting position Any Manual override Detenting Non-detenting Type of control Pilot-controlled External Flow direction Symbol Lap Overlap Signal status display Pilot pressure MPa O.3 MPa 0.8 MPa Pilot pressure 3 bar 8 bar Suitability for vacuum Switching time off Os witching time 10 ms Changeover time Soft	Degree of protection	In mounted state
Mounting positionAnyManual overrideDetenting Non-detentingType of controlPilot-controlledPilot air supply portExternalFlow directionReversibleSymbol00991031LapOverlapSignal status displayyesPilot pressure MPa0.3 MPa 0.8 MPaPilot pressure3 bar 8 barSuitability for vacuumyesStandard nominal flow rate with QS-6300 l/minSwitching time off35 msOn switching time10 msChangeover time15 ms	Exhaust air function	With flow control option
Manual override Detenting Non-detenting Type of control Pilot air supply port External Flow direction Reversible Symbol Oo991031 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-6 Switching time off Oswitching time Changeover time Detenting Non-detenting Non-d	Sealing principle	Soft
Non-detenting Type of control Pilot controlled Pilot air supply port External Flow direction Reversible Symbol O0991031 Lap Overlap 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 15 ms	Mounting position	Any
Pilot air supply port External Flow direction Reversible Symbol Oo991031 Lap Overlap Signal status display yes 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 Changeover time External External External Reversible Suog91031 Overlap yes 3 bar 8 MPa 3 bar 9 bar 3 bar 8 bar 10 ms Changeover time	Manual override	1 ~
Flow direction Reversible Symbol O0991031 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 10 ms Changeover time Reversible	Type of control	Pilot-controlled
Symbol 00991031 Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa 0.8 MPa Pilot pressure Suitability for vacuum yes Standard nominal flow rate with QS-6 300 l/min Switching time off 35 ms On switching time Changeover time 15 ms	Pilot air supply port	External
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 Os MPa 0.8 MPa 3 bar 8 bar 3 bar 8 bar 10 ms 10 ms	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-6 300 l/min Switching time off 35 ms On switching time 10 ms Changeover time 15 ms	Symbol	00991031
Pilot pressure MPa 0.3 MPa 0.8 MPa 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 300 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-6 300 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 300 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 35 ms 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	300 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 ℃
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