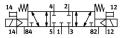
Air solenoid valve VMPA1-M1H-G-S-M7-PI

FESTO

Part number: 533388





General operating condition

Data sheet

Actuation type Electrical Valve size 10 mm Standard nominal flow rate 320 l/min Pneumatic working port Operating voltage Operating pressure Out us Recognized (Ol) Certification Cettification Cettification Cettification Cettification Cettification Cettification Cettification Out instructions for EMC To UK Roys Instructions Degree of protection IP65 In mounted state as per IEC 60529 Exhaust air function Soft Mounting position Any Manual override Detenting Non-detenting Vipe of control Pilot air supply port External Flow direction Reversible Symbol Owerlap Signal status display yes Pilot pressure MPa O 3 MPa 0.8 MPa Sultability for vacuum yes Standard nominal flow rate with QS-6 Switching time off 35 ms On workling time Changeover time In ms Consumers Ara Ara Ara Ara Ara Ara Ara A	Feature	Value
Valve size 10 mm Standard nominal flow rate 320 l/min Pneumatic working port M7 Operating yorkage 24V DC Operating pressure -0.09 MPa 1 MPa Operating pressure 10.9 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 BMC directive AS per EU BMC directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Degree of protection Piess as per EU GMS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Degree of protection Piess as per EU GMS 29 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 00991020 Lap Overlap Signal status display yes Pilot pressure MPa Overlap Pilot pressure MPa O 3 MPa 0.8 MPa Pilot pressure MPa O 3 MPa 0.8 MPa Pilot pressure MPa O 10 ms Changeover time 15 ms	Valve function	5/3, closed
Standard nominal flow rate 320 l/min Pneumatic working port M7 Operating yoltage 24V DC Operating pressure	Actuation type	Electrical
Pneumatic working port Operating voltage 24V DC Operating pressure Piston gate valve Reset method Mechanical spring Certification Cull us - Recognized (OU) CE marking (see declaration of conformity) As per EU EMC directive As per EU RoHS directive As per EU RoHS directive INCA 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 Operating principle Operating Signal status display Pilot pressure Joan Degree of None Any Pilot pressure Joan Degree of None Standard nominal flow rate with QS-6 Joan Manual overide Joan Manual overide On Signal status display Pilot pressure Joan Manual Operation Joan Manual Operation Reversible Oyerlap Signal status display Yes Standard nominal flow rate with QS-6 Joan Manual Operation Jo	Valve size	10 mm
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Operating pressure Operating Ope	Pneumatic working port	M7
Operating pressure Operating pressure Fiston 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 RMC 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 Ooyerlap Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 320 I/min Switching time off On switching time 10 ms Changeover time	Operating voltage	24V DC
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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 O0991020 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-6 320 I/min Switching time off O1 switching time 10 ms Changeover time 15 ms	Certification	c UL us - Recognized (OL)
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Non-detenting Type of control Pilot controlled Pilot air supply port External Flow direction Reversible Symbol O0991020 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 10 ms Changeover time 15 ms	Mounting position	Any
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Pilot pressure MPa 0.3 MPa 0.8 MPa 3 bar 8 bar Suitability for vacuum yes Standard nominal flow rate with QS-6 320 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-6 320 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 320 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	320 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