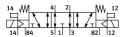
Air solenoid valve VMPA2-M1H-E-G1/8-PI Part number: 537967



Data sheet

Actuation typeElectricalValve size20 mmStandard nominal flow rate590 l/minPneumatic working portG1/8Operating voltage24 V DCOperating ressure0.3 MPa0.8 MPa 3 bar8 barStructural designPiston gate valveReset methodMechanical springCertificationC UL us - Recognized (OL)CE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)IO KI instructions for EMC To UK ROHS instructionsDegree of protectionIP65 In mounted state as per IEC 60529Exhaust air functionAnyMounting positionAnyManual overrideDetenting Non-detenting Non-detentingType of controlInternalFlot air supply portInternalFlot air supply portInternalFlot air supply portNon-reversibleLapOverlapSignal status displayyesPilot pressure3 bar8 barSuitability for vacuumNoStandard nominal flow rate with QS-8590 l/min	Feature	Value
Valve size 20 mm Standard nominal flow rate 590 l/min Pneumatic working port G1/8 Operating voltage 24V DC Operating pressure 0.3 MPa08 MPa 3 bar8 bar Structural design Piston gate valve Reset method Keset method Mechanical spring Certification C UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU RoKI's directive As per EU RoKI's instructions for EMC To UK instructions for EMC To UK RMS instructions To UK RMS instructions Degree of protection IP65 In mounted state as per EU Cos29 Exhaust air function Any Manual override Detenting Non-detenting Non-detenting Vipe of control Internal Flow direction Internal Flow direction Non-reversible Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa0.8 MPa Signal status display yes Pilot pressure MPa 0.3 MPa0.8 MPa </td <td>Valve function</td> <td>5/3, exhausted</td>	Valve function	5/3, exhausted
Standard nominal flow rate 590 l/min Pneumatic working port G1/8 Operating voltage 24V DC Operating pressure 0.3 MPa0.8 MPa 3 bar8 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 ENC directive As per EU ENC directive UKCA marking (see declaration of conformity) To UK instructions for EMC Degree of protection IP65 In mounted state as per IEC 60529 Schauster Exhaust air function Any Manual override Detenting Non-detenting Pilot-controlled Pilot air supply port Internal Flow direction Non-reversible Lap Overlap Signal status display yes Pilot pressure MPa 0.3 MPa0.8 MPa Signal status display Sear Signal status display Sear Sutability for vacuum no Standard nominal flow	Actuation type	Electrical
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Operating pressure 0.3 MPa0.8 MPa 3 bar8 bar Structural design Piston gate valve Reset method Mechanical spring Cerrification c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU EMC directive As per EU EMC directive As per EU EMC directive As per EU EMC directive Degree of protection IP65 In mounted state as per IEC 60529 Exhaust air function Soft Mounting position Any Manual override Detenting Non-detenting Non-detenting Type of control Pilot-controlled Pilot air supply port Internal Lap Overlap Signal status display yes Pilot pressure 3 bar8 bar Suitability for vacuum no Statuard nominal flow rate with QS-8 590 l/min	Pneumatic working port	G1/8
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Reset methodMechanical springCertificationc UL us - Recognized (OL)CE marking (see declaration of conformity)As per EU EMC directive As per EU RoHS directiveUKCA marking (see declaration of conformity)To UK instructions for EMC To UK RoHS instructionsDegree of protectionIP65 In mounted state as per IEC 60529Exhaust air functionWith flow control optionSealing principleSoftManual overrideDetenting Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleLapOverlapSignal status displayyesPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 1/min	Operating pressure	
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Mounting positionAnyManual overrideDetenting Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleLapOverlapSignal status displayyesPilot pressure MPa0.3 MPa0.8 MPaPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Exhaust air function	With flow control option
Manual overrideDetenting Non-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleLapOverlapSignal status displayyesPilot pressure MPa0.3 MPa0.8 MPaPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Sealing principle	Soft
Non-defentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleLapOverlapSignal status displayyesPilot pressure MPa0.3 MPa0.8 MPaPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Mounting position	Any
Pilot air supply portInternalPilot air supply portInternalFlow directionNon-reversibleLapOverlapSignal status displayyesPilot pressure MPa0.3 MPa0.8 MPaPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Manual override	
Flow directionNon-reversibleLapOverlapSignal status displayyesPilot pressure MPa0.3 MPa0.8 MPaPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Type of control	Pilot-controlled
LapOverlapSignal status displayyesPilot pressure MPa0.3 MPa0.8 MPaPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Pilot air supply port	Internal
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-8 590 l/min	Flow direction	Non-reversible
Pilot pressure MPa0.3 MPa0.8 MPaPilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Lap	Overlap
Pilot pressure3 bar8 barSuitability for vacuumnoStandard nominal flow rate with QS-8590 l/min	Signal status display	yes
Suitability for vacuum no Standard nominal flow rate with QS-8 590 l/min	Pilot pressure MPa	0.3 MPa0.8 MPa
Standard nominal flow rate with QS-8 590 l/min	Pilot pressure	3 bar8 bar
	Suitability for vacuum	no
Switching time off 47 ms	Standard nominal flow rate with QS-8	590 l/min
	Switching time off	47 ms

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Feature	Value
On switching time	11 ms
Changeover time	23 ms
Max. positive test pulse with 0 signal	400 µs
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 °C40 °C
Temperature of medium	-5 °C50 °C
Relative air humidity	Max. 90 % at 40 °C
Ambient temperature	-5 °C50 °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