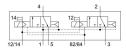
Air solenoid valve VMPA1-M1H-K-PI

Part number: 533347





Data sheet

Relative air humidity Max. 90 % at 40 °C Lap Overlap Actuation type Electrical Valve size 10 mm Standard nominal flow rate 230 l/min Operating voltage 24V DC Operating pressure 3 bar 10 bar Design Piston gate valve Reset method Pneumatic spring Degree of protection as per IEC 60529 IP65 Certification Type code VMPA1 Sealing principle Soft Mounting position Any Manual override Non- detenting Symbol 00991809 Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum no Switching time off 20 ms On switching time 10 ms Max. negative test pulse on 1 signal 400 ps Max. negative test pulse on 1 signal Operation test with oseril-2010 [7:4:4] Oppressing medium Compressed air as per IS0 8573-1:2010 [7:4:4] Operating medium Operation test with oseverty level 2 as per FN 942017-4 and EN 60068-2-6	Feature	Value
LapOverlapActuation typeElectricalValve size10 mmStandard nominal flow rate230 l/minOperating voltage24V DCOperating pressure3 bar 10 barDesignPiston gate valveReset methodPneumatic springDegree of protectionas per IEC 60529IP65CertificationCertificationc UL us - Recognized (OL)Type codeVMPA1Sealing principleSoftMounting positionAnyManual overridePiot-controlledFlow direction0991809Signal statu displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time10 msMax, positive test pulse with 0 signal400 µsMax, positive test pulse on 1 signal200 µsPermissible voltage fluctuations+/-25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil ulbrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-5 and EN 6068-2-27	Valve function	2x3/2, closed, monostable
Actuation type Electrical Valve size 10 mm Standard nominal flow rate 230 l/min Operating voltage 24V DC Operating ressure 3 bar 10 bar Design Piston gate valve Reset method Pneumatic spring Degree of protection as per IEC 60529 (P665 Certification c UL us - Recognized (OL) Type code VMPA1 Sealing principle Soft Mounting position Any Manual override Non- detenting Detenting Symbol 00991809 Signal status display yes Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with Q5-6 230 l/min Switching time 10 ms Max. negative test pulse on 1 signal 200 µs Max. negative test pulse on 1 signal 200 µs Permissible voltage fluctuations +7 25 % Operation mediam Operaton with oil lubrication possible (required for further use) </td <td>Relative air humidity</td> <td>Max. 90 % at 40 °C</td>	Relative air humidity	Max. 90 % at 40 °C
Valve size 10 mm Standard nominal flow rate 230 l/min Operating voltage 24V DC Operating pressure 3 bar 10 bar Design Piston gate valve Reset method Pneumatic spring Degree of protection as per IEC 60529 Pfe65 Certification Cull us - Recognized (OL) Type code WMPA1 Soft Sealing principle Soft Mounting position Any Manual override Non-detenting Detenting Detenting Type of control Pilot-controlled Flow direction 00991809 Signal status display yes Standard nominal flow rate with QS-6 230 l/min Switching time off 20 ms On ssituching time 10 ms Max, negative test pulse with 0 signal 400 µs Max, negative test pulse on 1 signal 200 µs Permissible Oxitage fluctuations 4/- 25 % Operating medium Compressed air as per ISO 8573-1:2010 [7:4:4] Operat	Lap	Overlap
Standard nominal flow rate230 l/minOperating voltage24V DCOperating pressure3 bar 10 barDesignPiston gate valveReset methodPneumatic springDegree of protectionas per IEC 60529IP65Certificationc UL us - Recognized (OL)Type codeVMPA1Sealing principleSoftMounting positionAnyManual overridePilot-controlledFlow directionPilot-controlledFlow direction00991809Signal status displayyesVibrib for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn sultiving time10 msMax. pasitive test pulse on 1 signal400 µsMax. negative test pulse quicutations4/-25 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Operating mediumOperation with oil ubrication test with severity level 2 as per FN 942017-5 and EN 6068-2-27	Actuation type	Electrical
Operating voltage24V DCOperating pressure3 bar 10 barDesignPiston gate valveReset methodPneumatic springDegree of protectionas per IEC 60529IP65CertificationCut Us - Recognized (OL)Type codeVMPA1Sealing principleSoftMounting positionAnyManual overrideNon-detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse on 1 signal400 µsMax. positive test pulse on 1 signal200 µsPermissible voltage fluctuations+/-25 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil Ubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-6 and Et	Valve size	10 mm
Operating pressure 3 bar 10 bar Design Piston gate valve Reset method Pneumatic spring Degree of protection as per IEC 60529 IP65 Certification Cut us - Recognized (OL) Type code VMPA1 Soft Sealing principle Soft Mounting position Any Manual override Non-detenting Operating of control Pilot-controlled Flow direction Non-reversible Symbol O9991809 Signal status display yes Pilot pressure 3 bar 8 bar Suitability for vacuum no Standard nominal flow rate with QS-6 230 l/min Switching time off 20 ms On switching time 10 ms Max. negative test pulse with 0 signal 4000 µs Max. negative test pulse on 1 signal 200 µs Permissible voltage fluctuations +/- 25 % Operating medium Compressen 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) Vib	Standard nominal flow rate	230 l/min
DesignPiston gate valveReset methodPneumatic springas per IEC 60529IP65Certificationc UL us - Recognized (OL)Type codeVMPA1Sealing principleSoftMounting positionAnyManual overrideNon-detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax, negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/-25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with severity level 2 as per FN 942017-4 and EN 60068-2:6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2:77	Operating voltage	24V DC
Reset methodPneumatic springDegree of protectionas per IEC 60529 IP65Certificationc UL us - Recognized (OL)Type codeVMPA1Sealing principleSoftMounting positionAnyManual overrideNon-detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax, negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/-25 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Operating pressure	3 bar 10 bar
Degree of protectionas per IEC 60529 IP65Certificationc UL us - Recognized (OL)Type codeVMPA1Sealing principleSoftMounting positionAnyManual overrideNon-detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6	Design	Piston gate valve
IP65Certificationc UL us - Recognized (OL)Type codeVMPA1Sealing principleSoftMounting positionAnyManual overrideNon-detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barStandard nominal flow rate with QS-6230 //minSwitching time off20 msOn switching time10 msMax. negative test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Reset method	Pneumatic spring
Type codeVMPA1Sealing principleSoftMounting positionAnyManual overrideNon-detenting Detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time10 msMax. positive test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Degree of protection	
Sealing principleSoftMounting positionAnyManual overrideNon-detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per IS0 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Certification	c UL us - Recognized (OL)
Mounting positionAnyManual overrideNon-detenting DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time10 msMax. positive test pulse with 0 signal400 μsMax. negative test pulse on 1 signal200 μsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Type code	VMPA1
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DetentingType of controlPilot-controlledFlow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-77	Mounting position	Any
Flow directionNon-reversibleSymbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-67	Manual override	
Symbol00991809Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Type of control	Pilot-controlled
Signal status displayyesPilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/-25 %Operating mediumCompressed air as per ISO 8573-1:2010[7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Flow direction	Non-reversible
Pilot pressure3 bar 8 barSuitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 μsMax. negative test pulse on 1 signal200 μsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Symbol	00991809
Suitability for vacuumnoStandard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Signal status display	yes
Standard nominal flow rate with QS-6230 l/minSwitching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Pilot pressure	3 bar 8 bar
Switching time off20 msOn switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Suitability for vacuum	no
On switching time10 msMax. positive test pulse with 0 signal400 µsMax. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Standard nominal flow rate with QS-6	230 l/min
Max. positive test pulse with 0 signal400 μsMax. negative test pulse on 1 signal200 μsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Switching time off	20 ms
Max. negative test pulse on 1 signal200 µsPermissible voltage fluctuations+/- 25 %Operating mediumCompressed air as per ISO 8573-1:2010 [7:4:4]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	On switching time	10 ms
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	Max. positive test pulse with 0 signal	400 µs
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	Max. negative test pulse on 1 signal	200 µs
Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Permissible voltage fluctuations	+/- 25 %
Vibration resistanceTransport application test with severity level 2 as per FN 942017-4 and EN 60068-2-6Shock resistanceShock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
EN 60068-2-6 Shock resistance Shock test with severity level 2 as per FN 942017-5 and EN 60068-2-27	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
	Vibration resistance	
Corrosion resistance class (CRC) 1 - Low corrosion stress	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

FESTO

Feature	Value
Storage temperature	-20 °C 40 °C
Temperature of medium	-5 °C 50 °C
Ambient temperature	-5 ℃ 50 ℃
Max. tightening torque for valve mounting	0.25 Nm
Product weight	56 g
Type of mounting	With through-hole
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum