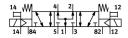
Air solenoid valve VMPA14-M1H-B-PI

Part number: 573719





General operating condition

Data sheet

InternationInternationinternation	Feature	Value
alve size14 mmandard nominal flow rate550 l/min 630 l/minperating voltage24V DCperating pressure-0.9 Ma 1 MPaperating pressure-0.9 bar 10 barructural designPiston gate valvesest methodMechanical springertificationc UL us - Recognized (OL)egree of protectionIP65In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingow directionIPiot-controlledow directionOverlapgrad status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure MPa0.3 MPa 0.8 MPalot pressure MPa3 bar 8 baruitability for vacuumyestote on standard nominal flow rateMPA-LS 050 l/min MPA-S: 550 l/minandard nominal flow rate with QS-8550 l/min 630 l/min m 630 l/minwitching time12 ms	Valve function	5/3, pressurized
andard nominal flow rate550 l/min 630 l/minperating voltage24V DCperating pressure-0.09 MPa 1 MPaperating pressure-0.9 bar 10 barructural designPiston gate valveeset methodMechanical springerificationc UL us - Recognized (OL)egree of protectionIP65In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overridePilot-controlledow directionReversiblevmbol00991031op pOverlapgral status displayyeslot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/min 630 l/minandard nominal flow rate with QS-8550 l/min 630 l/min masciling imen switching time12 ms	Actuation type	Electrical
perating voltage24V DCperating pressure-0.09 MPa 1 MPaperating pressure-0.9 bar 10 barructural designPiston gate valveeset methodMechanical springerificationc UL us - Recognized (OL)egree of protectionIP65In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingpred controlPilot-controlledow directionOverlapgal status displayyeslot pressure3 bar 0.8 MPalot pressure3 bar 0.8 MPauitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: S50 l/minwitching time off40 msnuskithing time12 ms	Valve size	14 mm
perating pressure-0.09 MPa 1 MPaperating pressure-0.9 bar 10 barrructural designPiston gate valvesest methodMechanical springct UL us - Recognized (OL)egree of protectionIP65 In mounted state as per IEC 60529saling principleSoftounting positionAnyanual overrideDetenting Non-detenting Non-detentingow directionPilot-controlledow directionOverlapgnal status displayyeslot pressure3 bar 8 baruitability for vacuum ote on standard nominal flow rateMPA-L: 630 I/min MPA-2: 550 I/min	Standard nominal flow rate	550 l/min 630 l/min
perating pressure-0.9 bar 10 barrructural designPiston gate valveeset methodMechanical springertificationc UL us - Recognized (OL)egree of protectionIP65In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingword directionPilot-controlledgree of controlOverlapgnal status displayyeslot pressure3 bar 8 baruitability for vacuumyesoto en standard nominal flow rateMPA-L: 630 I/min MPA-S: 550 I/minandard nominal flow rate550 I/min 630 I/min MPA-S: 550 I/minwitching time off40 msn switching time12 ms	Operating voltage	24V DC
Tructural designPiston gate valveesset methodMechanical springertificationc UL us - Recognized (OL)egree of protectionIP65 In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingoud directionPilot-controlledow directionReversibleout first displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-1: 6301/min MPA-5: 5501/minwitching time off40 msn switching time12 ms	Operating pressure	-0.09 MPa 1 MPa
eset methodMechanical springertificationc UL us - Recognized (OL)egree of protectionIP65 In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingoud controlPilot-controlledow directionReversibleow directionOverlap yesgnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 bar uitability for vacuumote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minwitching time off40 msn switching time12 ms	Operating pressure	-0.9 bar 10 bar
ertificationc UL us - Recognized (OL)egree of protectionIP65 In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingype of controlPilot-controlledow directionReversiblembol00991031ypOverlapgnal status displayyeslot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 I/min MPA-S: 550 I/minwitching time off40 msn switching time12 ms	Structural design	Piston gate valve
egree of protectionIP65 In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingrpe of controlPilot-controlledow directionReversiblembol00991031upOverlapgnal status displayyeslot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minwitching time off40 msn switching time12 ms	Reset method	Mechanical spring
In mounted state as per IEC 60529ealing principleSoftounting positionAnyanual overrideDetenting Non-detentingrpe of controlPilot-controlledow directionReversiblembol00991031opOverlapgnal status displayyeslot pressure3 bar 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minwitching time off40 msn switching time12 ms	Certification	c UL us - Recognized (OL)
ounting positionAnyanual overrideDetenting Non-detentingrpe of controlPilot-controlledow directionReversiblermbol00991031opOverlapgnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/min 630 l/minwitching time off40 msn switching time12 ms	Degree of protection	In mounted state
anual overrideDetenting Non-detentingrpe of controlPilot-controlledow directionReversibleymbol00991031opOverlapgnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minwitching time off40 msn switching time12 ms	Sealing principle	Soft
Non-detentingrpe of controlPilot-controlledow directionReversiblermbol00991031apOverlapgnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minandard nominal flow rate with QS-8550 l/min 630 l/min MPA-Si S50 l/minn switching time12 ms	Mounting position	Any
ow directionReversibleymbol00991031apOverlapgnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minrandard nominal flow rate with QS-8550 l/min 630 l/min MPA-Si 12 ms	Manual override	
InternationalInternationalymbol00991031apOverlapgnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/mincandard nominal flow rate with QS-8550 l/min 630 l/min MPA-Si for l/minwitching time off40 msn switching time12 ms	Type of control	Pilot-controlled
apOverlapgnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minstandard nominal flow rate with QS-8550 l/min 630 l/min MPA-Si standard nominal flow rate with QS-8witching time off40 msn switching time12 ms	Flow direction	Reversible
gnal status displayyeslot pressure MPa0.3 MPa 0.8 MPalot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/mincandard nominal flow rate with QS-8550 l/min 630 l/min MPA-S: 150 l/minwitching time off40 msn switching time12 ms	Symbol	00991031
Iot pressure MPa0.3 MPa 0.8 MPaIot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/mincandard nominal flow rate with QS-8550 l/min 630 l/minwitching time off40 msn switching time12 ms	Lap	Overlap
lot pressure3 bar 8 baruitability for vacuumyesote on standard nominal flow rateMPA-L: 630 l/min MPA-S: 550 l/minandard nominal flow rate with QS-8550 l/min 630 l/minwitching time off40 msn switching time12 ms	Signal status display	yes
uitability for vacuum yes ote on standard nominal flow rate MPA-L: 630 l/min MPA-S: 550 l/min randard nominal flow rate with QS-8 550 l/min 630 l/min witching time off 40 ms n switching time 12 ms	Pilot pressure MPa	0.3 MPa 0.8 MPa
ote on standard nominal flow rate MPA-L: 630 l/min MPA-S: 550 l/min randard nominal flow rate with QS-8 550 l/min 630 l/min witching time off 40 ms n switching time 12 ms	Pilot pressure	3 bar 8 bar
MPA-S: 550 l/min xandard nominal flow rate with QS-8 vitching time off 40 ms n switching time 12 ms	Suitability for vacuum	yes
witching time off 40 ms 12 ms	Note on standard nominal flow rate	
n switching time 12 ms	Standard nominal flow rate with QS-8	550 l/min 630 l/min
	Switching time off	40 ms
nangeover time 18 ms	On switching time	12 ms
	Changeover time	18 ms
ax. positive test pulse with 0 signal 400 μs	Max. positive test pulse with 0 signal	400 µs
ax. negative test pulse on 1 signal 200 µs	Max. negative test pulse on 1 signal	200 µs
ermissible voltage fluctuations +/- 25 %	Permissible voltage fluctuations	+/- 25 %
perating medium Compressed air as per ISO 8573-1:2010 [7:4:4]	Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
formation on operating and pilot media Operation with oil lubrication possible (required for further use)	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)

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Feature	Value
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 °C 50 °C
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	77 g
Type of mounting	With through-hole
Note on materials	RoHS-compliant
Seals material	NBR
Housing material	Die-cast aluminum