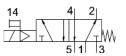
Air solenoid valve VSVA-B-M52-MH-A2-1R5L

Part number: 546768



Data sheet

Nominal width5 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyConforms to standardISO 15407-1 VDMA 24563Manual overrideNon-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionOo991003LapOverlapReverse polarity protectionfor all electrical connectionsAdditional functionsSafety shut-downSignal status displayLEDFlow rate of pneumatic valve on individual sub-base550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Feature	Value
Vidth 18 mm Standard nominal flow rate 550 l/min Pneumatic working port Sub-base, size 18 mm as per ISO 15407-1 Connecting plates size 02 according to VDMA 24563 Operating pressure 0.3 MPa0.8 MPa Operating pressure 0.3 MPa0.8 MPa Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method Mechanical spring Certification CTick CUL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive TO UK Instructions for EMC To UK Structural design Sinstructions Degree of protection IP65 Nominal width S mm Exhaust air function Soft Mounting position Any Conforms to standard ISO 15407-1 VDMA 24563 Manual override Non-detenting Pilot-controled Pilot ontrol Pilot-controled Pilot ari supply port Internal Flow direction Non-detenting Symbol Oo9991003 Lap Overlap	Valve function	5/2, monostable
Standard nominal flow rate 550 l/min Pneumatic working port Sub-base, size 18 mm as per ISO 15407-1 Connecting plate size 02 according to VDMA 24563 Operating voltage 24V DC Operating pressure 0.3 MPa0.8 MPa Operating pressure 3 bar 8 bar Structural design Piston gate valve Reset method C-Tick c UL us - Recognized (OL) Certification C-Tick c UL us - Recognized (OL) UKCA marking (see declaration of conformity) As per EU directive UKCA marking (see declaration of conformity) To UK Instructions for EMC To UK Roth's instructions Degree of protection IP65 Nominal width S mm Exabasti ai function With flow control option Stabasti are function ISO 15407-1 VOMA 24563 Manual override Non-detenting Type of control Piot controlled Piot controlled Non-detenting Symbol 00991003 Lap Overlap Reverse polarity protection For all electrical connections Additional functions Soft for all electrical connections Symbol 00991003 Soft	Actuation type	Electrical
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Operating pressure0.3 MPa 0.8 MPaOperating pressure3 bar 8 barStructural designPiston gate valveReset methodMechanical springCertificationCTick c UL us - Recognized (OL)CE marking (see declaration of conformity)As per EU EMC directiveUKCA marking (see declaration of conformity)To UK instructions for EMC to UK RoHS instructionsDegree of protectionIP65Nominal width5 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyConforms to standardISO 15407-1 VDMA 24563Type of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991003LapOverlapReverse polarity protectionFor all electrical connectionsAdditional functionsSafety shut-downSignal status displayLEDFlow rate of pneumatic valve pneumatically concatenated flow550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Pneumatic working port	
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Nominal width5 mmExhaust air functionWith flow control optionSealing principleSoftMounting positionAnyConforms to standardISO 15407-1 VDMA 24563Manual overrideNon-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionOo991003LapOverlapReverse polarity protectionfor all electrical connectionsAdditional functionsSafety shut-downSignal status displayLEDFlow rate of pneumatic valve on individual sub-base550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	UKCA marking (see declaration of conformity)	
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Sealing principleSoftMounting positionAnyConforms to standardISO 15407-1 VDMA 24563Manual overrideNon-detentingType of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbolO0991003LapOverlapReverse polarity protectionfor all electrical connectionsAdditional functionsHolding current reduction Safety shut-downSignal status displayLEDFlow rate of pneumatic valve pneumatically concatenated flow550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Nominal width	5 mm
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Type of controlPilot-controlledPilot air supply portInternalFlow directionNon-reversibleSymbol00991003LapOverlapReverse polarity protectionfor all electrical connectionsAdditional functionsHolding current reduction Safety shut-downSignal status displayLEDFlow rate of pneumatic valve on individual sub-base550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Conforms to standard	
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Flow directionNon-reversibleSymbol00991003LapOverlapReverse polarity protectionfor all electrical connectionsAdditional functionsHolding current reduction Safety shut-downSignal status displayLEDFlow rate of pneumatic valve on individual sub-base550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Type of control	Pilot-controlled
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LapOverlapReverse polarity protectionfor all electrical connectionsAdditional functionsHolding current reduction Safety shut-downSignal status displayLEDFlow rate of pneumatic valve on individual sub-base550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Flow direction	Non-reversible
Reverse polarity protection for all electrical connections Additional functions Holding current reduction Safety shut-down Signal status display LED Flow rate of pneumatic valve 750 l/min Flow rate of pneumatic valve on individual sub-base 550 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min	Symbol	00991003
Additional functionsHolding current reduction Safety shut-downSignal status displayLEDFlow rate of pneumatic valve750 l/minFlow rate of pneumatic valve on individual sub-base550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Lap	Overlap
Safety shut-down Signal status display LED Flow rate of pneumatic valve 750 l/min Flow rate of pneumatic valve on individual sub-base 550 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min	Reverse polarity protection	for all electrical connections
Flow rate of pneumatic valve750 l/minFlow rate of pneumatic valve on individual sub-base550 l/minOptimized flow rate of pneumatic valve pneumatically concatenated flow550 l/min	Additional functions	
Flow rate of pneumatic valve on individual sub-base 550 l/min Optimized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min	Signal status display	LED
Optimized flow rate of pneumatic valve pneumatically concatenated flow 550 l/min	Flow rate of pneumatic valve	750 l/min
	Flow rate of pneumatic valve on individual sub-base	550 l/min
Switching time off 34 ms	Optimized flow rate of pneumatic valve pneumatically concatenated flow	550 l/min
	Switching time off	34 ms



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Feature	Value
On switching time	12 ms
DC operating voltage range	21.6 V 26.4 V
Duty cycle	100%
Max. positive test pulse with 0 signal	500 µs
Max. negative test pulse on 1 signal	500 µs
Coil characteristics	24 V DC: low-current phase 1.0 W, high-current phase 2.4 W
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)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	-5 °C 50 °C
Relative air humidity	0 - 90 %
Protection against direct and indirect contact	PELV
Ambient temperature	-5 °C 50 °C
Max. tightening torque for valve mounting	0.9 Nm 1.1 Nm
Product weight	140 g
Electrical connection	3-pin M12x1 Central plug Round design
Type of mounting	On sub-base
Note on materials	RoHS-compliant