## Stem actuated valve VMEF-S-M52-E-N14

Part number: 8031314



## **Data sheet**

Valve function   \$/2, monostable     Lap   Overlap     Operating pressure   -0.095 MPa 1 MPa     Actuation type   Mechanical     Width   20 mm     Standard nominal flow rate   1200 I/min     Pneumatic working port   1/4 NPT     Operating pressure   -0.95 Shar 10 bar     Design   Piston gate valve     Reset method   Pneumatic spring     Nominal Width   7 mm     Type code   VMEF     Application note   Do not use as mechanical stop     Sealing principle   Soft     Mounting position   Any     Type of control   Direct     Flow direction   Reversible     Symbol   00992217     Max. switching frequency   3 Hz     Explosion prevention and protection   Zone 1 (ATEX)     Zone 2 (ATEX)   Zone 2 (ATEX)     Operating medium   Compressed air as per ISO 8573-1:2010 [7:]     Information on operating and pilot media   Operation with oil lubrication possible (required for further use)     Corrosion resistance class (CR)   2 - Moderate corrosion stress     Temperature of medium<	Feature	Value
Operating pressure-0.095 MPa 1 MPaActuation typeMechanicalWidth20 mmStandard nominal flow rate1200 l/minPneumatic working port1/4 NPTOperating pressure-0.95 bar 10 barDesignPiston gate valveReset methodPneumatic springNominal width7 mmType codeVMEFApplication noteDo not use as mechanical stopSealing principleSoftMounting positionAnyType of controlDirectElow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7:-:]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRQ)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAnbient temperature-10 °C 60 °CAnbient temperature117 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPT	Valve function	5/2, monostable
Actuation type   Mechanical     Width   20 mm     Standard nominal flow rate   1200 l/min     Pneumatic working port   1/4 NPT     Operating pressure   -0.95 bar 10 bar     Design   Piston gate valve     Reset method   Pneumatic spring     Nominal width   7 mm     Type code   VMEF     Application note   Do not use as mechanical stop     Sealing principle   Soft     Mounting position   Any     Type of control   Direct     Flow direction   Reversible     Symbol   00992217     Max. switching frequency   3 Hz     Explosion prevention and protection   Zone 2 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)     Operating medium   Compressed air as per ISO 8573-1:2010[7::-:]     Information on operating and pilot media   Operation with oil lubrication possible (required for further use)     Corrosion resistance class (CRC)   2 - Moderate corrosion stress     Temperature of medium   -10 °C 60 °C     Ambient temperature   10 °C 60 °C     Ambient temperature   177 g     Type of mounting   With through-hole <td>Lap</td> <td>Overlap</td>	Lap	Overlap
Width 20 mm   Standard nominal flow rate 1200 l/min   Pneumatic working port 1/4 NPT   Operating pressure -0.95 bar 10 bar   Design Piston gate valve   Reset method Pneumatic spring   Nominal width 7 mm   Type code VMEF   Application note Do not use as mechanical stop   Sealing principle Soft   Mounting position Any   Type of control Direct   Flow direction Reversible   Symbol 00992217   Max. switching frequency 3 Hz   Explosion prevention and protection Zone 1 (ATEX) Zone 2 (ATEX)   Zone 12 (ATEX) Zone 21 (ATEX)   Zone 22 (ATEX) Compressed air as per ISO 8573-1:2010 [7:]   Information on operating and pilot media Operation with oil lubrication possible (required for further use)   Corrosion resistance class (CRC) 2 - Moderate corrosion stress   Temperature of medium -10 °C 60 °C   Arbient temperature -10 °C 60 °C   Arbient temperature 177 g   Type of mounting With through-hole   Pilot air port 12/14 M5   Pneumatic connection 1 1/4 NPT	Operating pressure	-0.095 MPa 1 MPa
Standard nominal flow rate1200 l/minPneumatic working port1/4 NPTOperating pressure-0.95 bar 10 barDesignPiston gate valveReset methodPneumatic springNominal width7 mmType codeVMEFApplication noteDo not use as mechanical stopSealing principleSoftMounting positionAnyType of controlDirectFlow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 21 (ATEX) 	Actuation type	Mechanical
Pneumatic working port     1/4 NPT       Operating pressure     -0.95 bar 10 bar       Design     Piston gate valve       Reset method     Pneumatic spring       Nominal width     7 mm       Type code     VMEF       Application note     Do not use as mechanical stop       Sealing principle     Soft       Mounting position     Any       Type of control     Direct       Flow direction     Reversible       Symbol     00992217       Max. switching frequency     3 Hz       Explosion prevention and protection     Zone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)       Corrosion resistance class (CRC)     2 - Moderate corrosion stress       Temperature of medium     -10 °C 60 °C       Arbient temperature     10 °C 60 °C       Arbient temperature     48 N       Product weight     177 g       Type of mounting     With through-hole       Pilot air port 12/14     M5       Pneumatic connection 1     1/4 NPT	Width	20 mm
Operating pressure   -0.95 bar 10 bar     Design   Piston gate valve     Reset method   Pneumatic spring     Nominal width   7 mm     Type code   VMEF     Application note   Do not use as mechanical stop     Sealing principle   Soft     Mounting position   Any     Type of control   Direct     Flow direction   Reversible     Symbol   00992217     Max. switching frequency   3 Hz     Explosion prevention and protection   Zone 1 (ATEX) Zone 2 (ATEX)     Operating medium   Compressed air as per ISO 8573-1:2010 [7:-:-]     Information on operating and pilot media   Operation with oil lubrication possible (required for further use)     Corrosion resistance class (CRC)   2 - Moderate corrosion stress     Temperature of medium   -10 °C 60 °C     Actuating force   48 N     Product weight   177 g     Type of mounting   With through-hole     Pilot air port 12/14   M5     Pneumatic connection 1   1/4 NPT     Pneumatic connection 2   1/4 NPT	Standard nominal flow rate	1200 l/min
DesignPiston gate valveReset methodPneumatic springNominal width7 mmType codeVMEFApplication noteDo not use as mechanical stopSealing principleSoftMounting positionAnyType of controlDirectFlow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7:+:]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAnbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Pneumatic working port	1/4 NPT
Reset methodPneumatic springNominal width7 mmType codeVMEFApplication noteDo not use as mechanical stopSealing principleSoftMounting positionAnyType of controlDirectFlow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 21 (ATEX) 	Operating pressure	-0.95 bar 10 bar
Nominal width7 mmType codeVMEFApplication noteDo not use as mechanical stopSealing principleSoftMounting positionAnyType of controlDirectFlow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAnbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePiot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Design	Piston gate valve
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Application noteDo not use as mechanical stopSealing principleSoftMounting positionAnyType of controlDirectFlow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7:-:-]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAntuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Nominal width	7 mm
Sealing principleSoftMounting positionAnyType of controlDirectFlow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7:-:-]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAntuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Type code	VMEF
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Type of controlDirectFlow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7:-:-]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAmbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Sealing principle	Soft
Flow directionReversibleSymbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATE X) Zone 2 (ATE X) Zone 21 (ATE X) Zone 22 (ATE X)Operating mediumCompressed air as per ISO 8573-1:2010 [7::-]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 · Moderate corrosion stressTemperature of medium-10 °C 60 °CAntuing force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Mounting position	Any
Symbol00992217Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7::-]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 · Moderate corrosion stressTemperature of medium-10 °C 60 °CAntbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Type of control	Direct
Max. switching frequency3 HzExplosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7:-:-]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 · Moderate corrosion stressTemperature of medium-10 °C 60 °CAmbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Flow direction	Reversible
Explosion prevention and protectionZone 1 (ATEX) Zone 2 (ATEX) Zone 21 (ATEX) Zone 22 (ATEX)Operating mediumCompressed air as per ISO 8573-1:2010 [7:-:-]Information on operating and pilot mediaOperation with oil lubrication possible (required for further use)Corrosion resistance class (CRC)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAmbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Symbol	00992217
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Corrosion resistance class (CRC)2 - Moderate corrosion stressTemperature of medium-10 °C 60 °CAmbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Operating medium	Compressed air as per ISO 8573-1:2010 [7:-:-]
Temperature of medium-10 °C 60 °CAmbient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Information on operating and pilot media	Operation with oil lubrication possible (required for further use)
Ambient temperature-10 °C 60 °CActuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Corrosion resistance class (CRC)	2 - Moderate corrosion stress
Actuating force48 NProduct weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Temperature of medium	-10 °C 60 °C
Product weight177 gType of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Ambient temperature	-10 °C 60 °C
Type of mountingWith through-holePilot air port 12/14M5Pneumatic connection 11/4 NPTPneumatic connection 21/4 NPT	Actuating force	48 N
Pilot air port 12/14 M5   Pneumatic connection 1 1/4 NPT   Pneumatic connection 2 1/4 NPT	Product weight	177 g
Pneumatic connection 1 1/4 NPT   Pneumatic connection 2 1/4 NPT	Type of mounting	With through-hole
Pneumatic connection 2 1/4 NPT	Pilot air port 12/14	M5
	Pneumatic connection 1	1/4 NPT
Pneumatic connection 3 1/4 NPT	Pneumatic connection 2	1/4 NPT
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Pneumatic connection 4 1/4 NPT	Pneumatic connection 4	1/4 NPT

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Feature	Value
Pneumatic connection 5	1/4 NPT
Note on materials	RoHS-compliant
Cover material	PA-reinforced
Seals material	NBR
Housing material	Wrought aluminum alloy, anodized