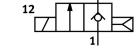
Air solenoid valve MHJ10-S-2,5-HF/LP Part number: 567796

Data sheet

Actuation type Electrical Width 10 mm Standard nominal flow rate 160 l/min Preumatic working port Sub-base Operating pressure 0.05 MPa 0.4 MPa Operating pressure 0.5 bar 4 bar Structural design Poppet valve without return spring Reset method Penematic work valve without return spring Degree of protection IP55 Certification RCM compliance mark CE marking (see declaration of conformity) As per FU ENC directive As per FU RMS directive Co to WR Rolfs instructions Width dimension 10.5 mm Information on operation Power supply unit must be able to supply at least 1.7 A without voltage drop. Wouth gposition Any Manual override None Type of control Direct Flow directions Spar suppression Symbol 00992259 Reverse polarity protection Spar suppression Holding current reduction with energy recovery Safety Shut-down Sof or parate without flow in energy recovery Safety Shut-down Symbol 0.	Feature	Value
Width 10 mm Standard nominal flow rate 160 l/min Pneumatic working port Sub base Operating voltage 24V DC Operating pressure 0.5 MPa 0.4 MPa Operating pressure 0.5 Ma 0.4 MPa Operating pressure 0.5 bar 4 bar Degree of protection IP55 Certification RCM compliance mark CE marking (see declaration of conformity) As per EU R0HS directive UKCA marking (see declaration of conformity) To UK RoHS instructions Width dimension 10.5 mm Information on operation Power supply unit must be able to supply at least 1.7 A without voltage drop Do not operate without flow. For block assembly with flow rate at max. ambient temperature 45 °C. Do not operate without flow. <td>Valve function</td> <td>2/2, closed, monostable</td>	Valve function	2/2, closed, monostable
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Structural design Poppet valve without return spring Reset method Pneumatic spring Degree of protection IP55 Certification RCM compliance mark CE marking (see declaration of conformity) As per EU ENC directive As per EU ENC's directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Width dimension 10.5 mm Information on operation Power supply unit must be able to supply at least 1.7 A without voltage drop. Do not operate without flow. For block assembly with flow rate at max. ambient temperature 45 °C. Sealing principle Hard Mounting position Any Manual override None Type of control Direct Flow direction Non-reversible Symbol 00992259 Reverse polarity protection for operating voltage Additional functions Spark suppression Holding current reduction with energy recovery Safety shut-down b-value 0.36 C value 0.66 I/sbar Max. switching frequency 500 Hz Switching time on at 4 bar and 24 V in new condition 1 ms Switching time ont	Operating pressure	0.05 MPa 0.4 MPa
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Type of controlDirectFlow directionNon-reversibleSymbol00992259Reverse polarity protectionfor operating voltageAdditional functionsSpark suppression Holding current reduction with energy recovery Safety shut-downb-value0.36C value0.66 l/sbarMax. switching frequency500 HzSwitching time on at 4 bar and 24 V in new condition1 msSwitching time off at 4 bar and 24 V in new condition0.5 ms	Mounting position	Any
Flow direction Non-reversible Symbol 00992259 Reverse polarity protection for operating voltage Additional functions Spark suppression Holding current reduction with energy recovery Safety shut-down b-value 0.36 C value 0.66 l/sbar Max. switching frequency 500 Hz Switching time on at 4 bar and 24 V in new condition 1 ms Switching time off at 4 bar and 24 V in new condition 0.5 ms	Manual override	None
Symbol00992259Reverse polarity protectionfor operating voltageAdditional functionsSpark suppression Holding current reduction with energy recovery Safety shut-downb-value0.36C value0.66 l/sbarMax. switching frequency500 HzSwitching time on at 4 bar and 24 V in new condition1 msSwitching time off at 4 bar and 24 V in new condition0.5 ms	Type of control	Direct
Reverse polarity protection for operating voltage Additional functions Spark suppression Holding current reduction with energy recovery Safety shut-down b-value 0.36 C value 0.66 l/sbar Max. switching frequency 500 Hz Switching time on at 4 bar and 24 V in new condition 1 ms Switching time off at 4 bar and 24 V in new condition 0.5 ms	Flow direction	Non-reversible
Additional functionsSpark suppression Holding current reduction with energy recovery Safety shut-downb-value0.36C value0.66 l/sbarMax. switching frequency500 HzSwitching time on at 4 bar and 24 V in new condition1 msSwitching time off at 4 bar and 24 V in new condition0.5 ms	Symbol	00992259
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C value 0.66 l/sbar Max. switching frequency 500 Hz Switching time on at 4 bar and 24 V in new condition 1 ms Switching time off at 4 bar and 24 V in new condition 0.5 ms	Additional functions	Holding current reduction with energy recovery
Max. switching frequency500 HzSwitching time on at 4 bar and 24 V in new condition1 msSwitching time off at 4 bar and 24 V in new condition0.5 ms	b-value	0.36
Switching time off at 4 bar and 24 V in new condition 1 ms Switching time off at 4 bar and 24 V in new condition 0.5 ms	C value	0.66 l/sbar
Switching time off at 4 bar and 24 V in new condition 0.5 ms	Max. switching frequency	500 Hz
	Switching time on at 4 bar and 24 V in new condition	1 ms
Switching time on at 0.5 bar and 24 V in new condition 0.8 ms	Switching time off at 4 bar and 24 V in new condition	0.5 ms
	Switching time on at 0.5 bar and 24 V in new condition	0.8 ms



General operating condition

Feature	Value
Switching time off at 0.5 bar and 24 V in new condition	0.6 ms
Tolerance for switching time off	+15 %/-25 %
Tolerance for ON switching time	+/-15 %
DC operating voltage range	21.6 V 26.4 V
Input resistance	34 kOhm
Duty cycle	100%
Coil characteristics	24 V DC: low-current phase 2.0 W, high-current phase 7.0 W
Trigger signal range DC	3 V 30 V
Note on input current	Linear increase 0.09-0.44 mA for a trigger signal of 3-15 V 0.44-15.44 mA for a trigger signal of 15-30 V
Permissible voltage fluctuations	+/- 10 %
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication not possible
Restricted ambient and media temperature	Depending on the switching frequency (see diagram)
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364-B2-L
Storage temperature	-20 °C 50 °C
Permissible solenoid surface temperature	120 °C
Temperature of medium	-5 °C 60 °C
Ambient temperature	-5 ℃ 60 ℃
Max. tightening torque for valve mounting	0.7 Nm
Product weight	75 g
Electrical connection	3-wire Cable
Cable length	2.5 m
Type of mounting	On sub-base
Pneumatic connection 1	Sub-base
Pneumatic connection 2	Sub-base
Note on materials	RoHS-compliant
Seals material	HNBR
Housing material	PA-reinforced PPS-reinforced
Material of cable sheath	PUR
Material of screws	Steel