Air solenoid valve MHP4-MS1H-3/20-1/4

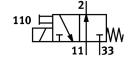
Part number: 525199



Data sheet

Feature

Lap



FESTO

Value

General operating condition

Valve function 3/2, open, monostable Actuation type Electrical Width 18 mm 400 l/min Standard nominal flow rate Pneumatic working port G1/4 Operating voltage 24V DC Operating pressure -0.09 MPa ... 0.8 MPa Operating pressure -0.9 bar ... 8 bar Structural design Pressure-relieved poppet valve Reset method Mechanical spring Degree of protection IP65 Certification RCM compliance mark c UL us - Recognized (OL) CE marking (see declaration of conformity) As per EU EMC directive As per EU RoHS directive UKCA marking (see declaration of conformity) To UK instructions for EMC To UK RoHS instructions Nominal width 4 mm Width dimension 24 mm Note on grid dimension Minimum distance between the valves is 6 mm Exhaust air function With flow control option Sealing principle Soft Mounting position Any Manual override Non-detenting Type of control Direct Flow direction Reversible with restrictions Symbol 00991322 Underlap Bipolar Reverse polarity protection Additional functions Spark suppression Holding current reduction Protective circuit -0.09 MPa ... 0.1 MPa Operating pressure, reversible -0.9 bar ... 1 bar Operating pressure, reversible

-13.05 psi ... 14.5 psi

210 Hz

3.5 ms

8/8/24 - Subject to change - Festo SE & Co. KG

Operating pressure, reversible

Max. switching frequency

Switching time off

Feature	Value
On switching time	3.5 ms
Tolerance for switching time off	+10 %/-40 %
Tolerance for ON switching time	+10%/-30%
Switching time variation at 1 Hz and above	0.3 ms
Duty cycle	100%
Coil characteristics	24 V DC: low-current phase 2.125 W, high-current phase 8.5 W
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 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
Cleanroom class	Class 6 according to ISO 14644-1
Temperature of medium	-5 °C 40 °C
Ambient temperature	-5 °C 40 °C
Product weight	270 g
Electrical connection	2-pin Plug
Type of mounting	On PR rail
Pneumatic connection 11	Sub-base
Pneumatic connection 2	G1⁄4
Pneumatic connection 33	Sub-base
Note on materials	RoHS-compliant
Seals material	HNBR NBR
Housing material	Die-cast metal, coated
Material of screws	Steel, galvanized