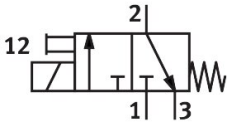
Air solenoid valve
MHP3-MS1H-3/2G-1/8

Part number: 525139





Data sheet

Feature	Value
Valve function	3/2-way, closed, monostable
Actuation type	Electrical
Width	14 mm
Normal nominal flow rate (normalized to DIN 1343)	200 l/min
Pneumatic working port	G1/8
Operating voltage	24V DC
Operating pressure	-0.09 MPa...0.8 MPa -0.9 bar...8 bar -13.05 psi...116 psi
Structural design	Pressure relief 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	3 mm
Width dimension	19 mm
Note on grid dimension	Minimum distance between the valves is 5 mm
Exhaust air function	Adjustable
Sealing principle	Soft
Mounting position	Any
Manual override	Non-detenting
Type of control	directly
Flow direction	Reversible with restrictions
Lap	Negative overlap
Reverse polarity protection	Bipolar
Additional functions	Spark arresting Holding current reduction Protective circuit
Operating pressure, reversible	-0.09 MPa...0.1 MPa -0.9 bar...1 bar

Feature	Value
	-13.05 psi...14.5 psi
Max. switching frequency	280 Hz
Switching time off	2.8 ms
On switching time	2.3 ms
Tolerance for switching time off	+10%/-50%
Tolerance for ON switching time	+10%/-30%
Switching time variation at 1 Hz and above	0.2 ms
Duty cycle	100%
Coil characteristics	24 V DC: low-current phase 1.6 W, high-current phase 6.5 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
Restricted ambient and media temperature	Depending on the switching frequency (see diagram)
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 suitability, measured according to ISO 14644-14	Class 6 according to ISO 14644-1
Temperature of medium	-5 °C...40 °C
Ambient temperature	-5 °C...40 °C
Product weight	120 g
Electrical connection	2-pin Plug
Type of mounting	On PR manifold rail
Pneumatic connection 1	Sub-base
Pneumatic connection 2	G1/8
Pneumatic connection 3	Sub-base
Note on materials	RoHS compliant
Seals material	HNBR NBR
Housing material	Die-cast zinc, coated
Material of screws	Galvanized steel