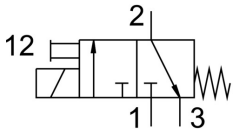
Air solenoid valve
MHP3-MS1H-3/2G-QS-6-K

Part number: 525145





Data sheet

Feature	Value
Valve function	3/2, closed, monostable
Actuation type	Electrical
Width	14 mm
Standard nominal flow rate	200 l/min
Pneumatic working port	QS-6
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)
KC characters	KC EMC
CE marking (see declaration of conformity)	As per EU EMC directive
Nominal width	3 mm
Width dimension	19 mm
Note on grid dimension	Minimum distance between the valves is 5 mm
Type code	MH3
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	00991308
Lap	Underlap
Reverse polarity protection	Bipolar
Additional functions	Spark suppression Holding current reduction Protective circuit
Operating pressure, reversible	-0.09 MPa ... 0.1 MPa
Operating pressure, reversible	-0.9 bar ... 1 bar
Operating pressure, reversible	-13.05 psi ... 14.5 psi
Max. switching frequency	280 Hz
Switching time off	2.8 ms

Feature	Value
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
Temperature of medium	-5 °C ... 40 °C
Ambient temperature	-5 °C ... 40 °C
Product weight	120 g
Electrical connection	Cable
Cable length	2.5 m
Type of mounting	On PR rail
Pneumatic connection 1	Sub-base
Pneumatic connection 2	QS-6
Pneumatic connection 3	Sub-base
Note on materials	Free of copper and PTFE RoHS-compliant
Seals material	HNBR NBR
Housing material	Die-cast zinc Coated
Material of cable sheath	PUR
Material of screws	Steel Galvanized